

**NUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY**

Chassis TY

22 VLE 521 BG	NRU000
22 VLE 521 SG	NRT000
22 VLE 4400 BM	NQQ000
22 VLE 4400 WM	NQR000
22 VLE 4421 BF	NPQ000
22 VLE 4520 BF	MMH000
22 VLE 5400 BN	NQS000
22 VLE 5421 BG	NUN000
22 VLE 5421 SG	NJP000
22 VLE 5421 WG	NJQ000, NPU000
22 VLE 5520 SG	MLL000
22 VLE 5520 WG	MLH000

28 VLE 4400 BM	NHD000
28 VLE 4401 BF	NFX000, NHL000
28 VLE 4500 BF	MMJ000
28 VLE 5401 BG	NJR000
28 VLE 5401 SG	NJS000
28 VLE 5401 WG	NJT000, NPV000
28 VLE 5500 BG	MLV000, MPH000
28 VLE 5500 SG	MLM000
28 VLE 5500 WG	MLJ000

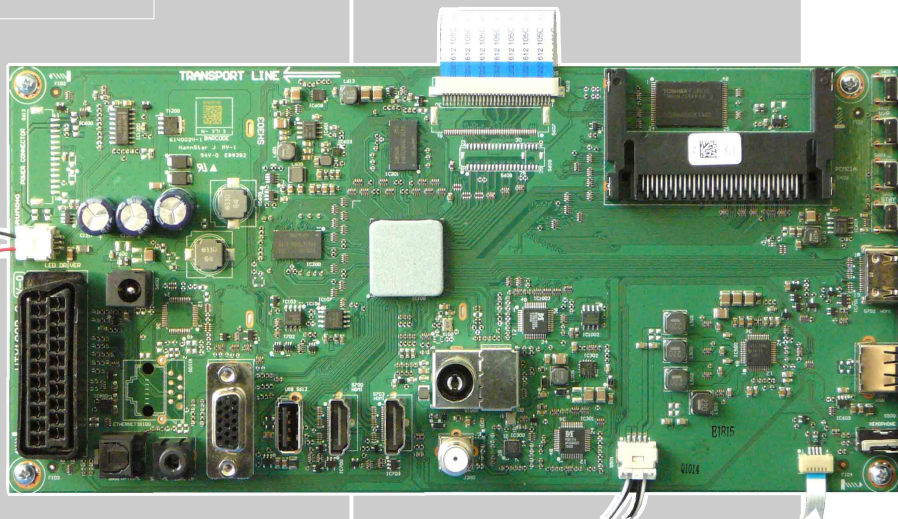
32 VLE 555 BG	NMW000
32 VLE 685 BG	NSL000
32 VLE 4400 BM	NHE000
32 VLE 4401 BF	NFY000, NHM000
32 VLE 5400 BN	NHF000
32 VLE 5401 BG	NJW000
32 VLE 5401 WG	NPW000
32 VLE 5405 SG	NUG000
32 VLE 5405 WG	NUH000
32 VLE 5406 BG	NHM000

40 VLE 521 BG	MGV000
40 VLE 555 BG	NHZ000
40 VLE 685 BG	NJA000
40 VLE 4420 BM	NHG000
40 VLE 4421 BF	NFZ000, NHN000
40 VLE 5420 BN	NHH000
40 VLE 5421 BG	NJU000, NLD000
40 VLE 5421 WG	NPX000
40 VLE 5425 WG	MJM000

48 VLE 555 BG	NTC000
48 VLE 685 BG	NSN000
48 VLE 4420 BM	NHJ000
48 VLE 4421 BF	NGA000, NHP000
48 VLE 5420 BN	NHK000
48 VLE 5421 BG	NJV000, NLE000

HAMBURG

28 CLE 5407 BG	NJB000
32 CLE 5407 BG	NJC000
32 CLE 5407 SG	NIJ000
40 CLE 5427 BG	NJD000
48 CLE 5427 BG	NJE000, NLE000



Zusätzlich erforderliche Unterlagen für den Komplettservice
Additionally required Service Documents for the Complete Service

Service Manual

Sicherheit
Safety

Materialnr./Part No.
72010800001

Materialnummer / Part Number 720100567000

Änderungen vorbehalten / Subject to alteration

TCC 0315...0514 MP • Prepared in Germany

<http://www.grundig.com>

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Materialnummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

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Allgemeiner Teil

Allgemeine Hinweise

Vor dem Öffnen des Gehäuses den Netzstecker ziehen!

Achtung: ESD-Vorschriften beachten

Leitungsverlegung

Bevor Sie die Leitungen und insbesondere die Masseleitungen lösen, ist die Leitungsverlegung zu den einzelnen Baugruppen zu beachten. Nach erfolgter Reparatur ist es notwendig, die Leitungsführung wieder in den werkseitigen Zustand zu versetzen um evtl. spätere Ausfälle oder Störungen zu vermeiden.

Durchführen von Messungen

Bei Messungen mit dem Oszilloskop an Halbleitern sollten Sie nur Tastköpfe mit 10:1 - Teiler verwenden. Außerdem ist zu beachten, dass nach vorheriger Messung mit AC-Kopplung der Koppelkondensator des Oszilloskops aufgeladen sein kann. Durch die Entladung über das Messobjekt können Bauteile beschädigt werden.

General Section

General Notes

Before opening the cabinet disconnect the mains plug!

Attention: Observe the ESD safety regulations

Wiring

Before disconnecting any leads and especially the earth connecting leads observe the way they are routed to the individual assemblies. On completion of the repairs the leads must be laid out as originally fitted at the factory to avoid later failures or disturbances.

Carrying out Measurements

When making measurements on semi-conductors with an oscilloscope, ensure that the test probe is set to 10:1 dividing factor. If the previous measurement was made on AC input, please note that the coupling capacitor in the oscilloscope will be charged. Discharge via the item being checked can damage the components.

Messwerte und Oszillogramme

Bei den in den Schaltplänen und Oszillogrammen angegebenen Messwerten handelt es sich um Näherungswerte!

Austausch der Chassisplatte

Nach Austausch der Chassisplatte müssen alle Einstellungen im Service Mode nach Tabelle "Grundeinstellwerte" (Punkt 1 im Kapitel "Service- und Sonderfunktionen" auf Seite 1-49) eingestellt werden.

Spezial-Funktionen

Kindersicherung

Mit der Master-Pin **2356** kann der persönliche Pin geändert werden.

Hotel-Mode

Bei aktiviertem Hotel-Mode ist die maximale Lautstärke begrenzt und das Menü "INSTALLATION" ist nicht mehr vorhanden. Alle kundenspezifischen Einstellungen (z.B. Signalquelle, Sprache) werden beim Einschalten des Gerätes auf die eingestellten Werte bei der Aktivierung des Hotel-Modus zurückgesetzt.

Aufruf: **MENU** → **8500** → ∨ "System Configuration" → **OK** → ∨∧ "Hotel" → < > "Ein".

Hotel-Mode temporär ausschalten

Bei dieser Funktion ist der Hotel-Mode bis zum nächsten Ausschalten (Standby) des Gerätes deaktiviert.

Aufruf: **MENU** → **4658** → **MENU** → **MENU** → ∨∧ "HOTEL-TV-EINSTELLUNGEN" → **OK**

In dem zusätzlich erscheinenden Menü HOTEL-TV-EINSTELLUNGEN sind folgende Einstellungen möglich:

- Maximale Lautstärke
- Einschalllautstärke
- Erstes Einschalten (Standby / Einschalten)

Cloning-Funktion

Mit dieser Funktion können folgende Daten auf den extern angeschlossenen USB-Speicher gesichert und zurück kopiert werden:

- Hotel Logo Hotel Logo.
- Meine Programmliste Programmtabellen sind mit dem Programmlisten-Editor am PC editierbar und übertragbar auf weitere Geräte, die *Meine Programmliste* unterstützen.
- Channel Set. Programmtabellen und Einstellungen der Signalquellen - diese sind auch übertragbar auf weitere Geräte gleicher Serie und Software.
- Service Set. Geräte-Einstellwerte der Service- und Sonderfunktionen ohne Display-Einstellwerte.
- User Set. Kundenspezifische Einstellungen.
- Übersicht Für den Servicefall: sollte die defekte Chassisplatte noch so weit funktionieren, können alle Einstellwerte gespeichert werden um diese dann in die neue Chassisplatte zu übertragen.

• Daten auf USB-Stick kopieren:

Leeren USB-Speicher anschließen (Formatierung FAT32) → **MENU** → ∨∧ "Installation" **OK** → ∨∧ "Programmtabelle" → **4658** → "Kopieren" → < > TV to USB → ∨ "Copy Item" → < > *Hotel Logo, Meine Programmliste, Channel Set., Service Einstellungen., User Set oder Übersicht* → starten mit  → am Ende wird "Erfolgreich" angezeigt.

• Daten von USB-Stick in das Gerät zurück speichern:

USB-Stick anschließen → **MENU** → ∨∧ "Installation" **OK** → ∨∧ "Programmtabelle" → **4658** → "Kopieren" → < > USB to TV → "Copy Item" → < > *Hotel Logo, Meine Programmliste, Channel Set., Service Einstellungen., User Set oder Übersicht* → starten mit  → am Ende wird "Erfolgreich" angezeigt.

Measured Values and Oscillograms

The measured values given in the circuit diagrams and oscillograms are approximates!

Change of the Chassis Board

After changing the chassis board all settings in the service mode must be done according to the table "Basic Settings" (point 1 in chapter "Service and Special Functions" on page 1-49).

Special Functions

Parental Control

The personal pin can be changed with master pin **2356**.

Hotel Mode

Maximum volume is limited and Menu "SOURCE SETUP" is no available at activated hotel mode. After switch on the TV set, all user settings (e.g. signal source, language) are set back to values by activation of the Hotel Mode.

Call up: **MENU** → **8500** → ∨ "System Configuration" → **OK** → ∨∧ "Hotel" → < > "On".

Switching off the Hotel Mode temporarily

At this function the activated hotel mode is deactivated until the set is switched off (standby).

Call up: **MENU** → **4658** → **MENU** → **MENU** → ∨∧ "HOTEL TV SETTINGS" → **OK**

Following adjustment are available in the additionally menu HOTEL TV SETTINGS:

- Maximum Volume
- Start-Up Volume
- First Power (Standby / Power On)

Cloning Function

It is possible to copy following data to an external USB stick and back to TV set:

- Hotel Logo Hotel Logo.
- My Channel List Programme tables are editable with *Programme List Editor* on the PC and transferable into further TV sets that support *My Channel List*.
- Channel/Video Set. Programme tables and settings of signal sources - they are transferable into further TV sets of same version and software.
- Service Set. TV adjustments of service and special functions without panel values.
- User Set. User settings.
- All In case of service: If the defective chassis board are still operate, it is possible to save all adjustments / settings and copy into new chassis board.

• Copy data to USB stick:

Connect empty USB memory (format FAT32) → **MENU** → ∨∧ "Source Setup" **OK** → ∨∧ "Program Table" → **4658** → "Copy" → < > TV to USB → ∨ "Copy Item" → < > *Hotel Logo, My Channel List, Channel Set., Service Set., User Set or All* → start with  → "Success" is showing at the end.

• Copy data from USB stick into TV set:

Connect USB memory → **MENU** → ∨∧ "Source Setup" **OK** → ∨∧ "Program Table" → **4658** → "Copy" → < > USB to TV → ∨ "Copy Item" → < > *Hotel Logo, My Channel List, Channel Set., Service Set., User Set or All* → start with  → "Success" is showing at the end.

Geräte- und Display-Varianten

Display- und Product Code

Je nach Verfügbarkeit werden Displays verschiedener Hersteller eingebaut. Dies führt zu unterschiedlichen Chassis-Bestückungen, sowie zu Änderungen in der Software. Bei Ersatzteilbestellungen und Software-Updates achten Sie bitte auf das eingebaute Display, sowie auf den "Product Code". Angaben dazu finden Sie auf der Geräterückseite. Sollte in der Ersatzteilliste des Service Manuals Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, können Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "<http://service.grundig.de>" finden.

Überprüfen Sie vor Platinen-Tausch, ob die Aufkleber der Platinen identisch sind (z.B. PCB Code).



Product and Display Variants

Display- und Product Code

Depending on availability displays of different manufacturer are built in. This results in different chassis mountings as well as a different software. On spare parts orders as well as software updates take care of the fitted display as well as of the "Product Code". Therefore you can find information on the labels on the rear side. If your "Product Code" or display variant is not mentioned in the spare parts list of the service manual, please look for a current version at the GRUNDIG service portal "<http://service.grundig.de>".

Before changing any board please check whether the labels on the boards are identical (eg. PCB Code).

Servicehinweis

Abnehmen des BMS-Gehäusevorderteils (Backlight Modul System)

- Lautsprecher abnehmen.
- Fig. 1/3: Schrauben (A) herausdrehen.
- IR-LED-Baustein und Linse abnehmen.
- Fig. 1: Halter (B) in Pfeilrichtung schieben und abnehmen.
- Fig. 2/4: Gerät wie abgebildet auf eine weiche Unterlage legen.
- Fig. 2: Alle seitlichen Schrauben (C) herausdrehen.
- Fig. 2: Alle seitlichen Rasthaken (D) lösen und Gehäusevorderteil abnehmen.
- Fig. 4: Gehäusevorderteil beginnend an der Geräteunterseite vorsichtig so nach außen drücken, dass sich alle seitlichen Rasthaken lösen. Gehäusevorderteil abnehmen.

Hinweis: Gerät nicht ohne Gehäusevorderteil umdrehen!

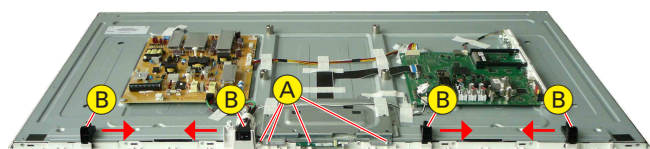


Fig. 1

Service Hint

Remove the BMS Front Cabinet (Backlight Modul System)

- Remove the speakers.
- Fig. 1/3: Undo screws (A).
- Remove IR/LED Board and Lens.
- Fig. 1: Push the holders (B) in arrow direction and remove it.
- Fig. 2/4: Lay device as shown on a soft pad.
- Fig. 2: Undo all screws at the side (C).
- Fig. 2: Unlock all locking catches (D) and remove the front cabinet.
- Fig. 4: Begins at below side to push front cabinet to outside, so that unlock all locking catches. Remove front cabinet.

Note: Do not return the TV set without front cabinet!

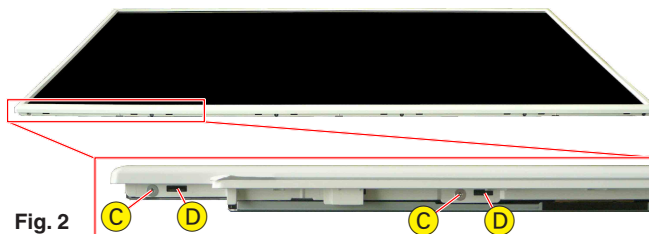


Fig. 2

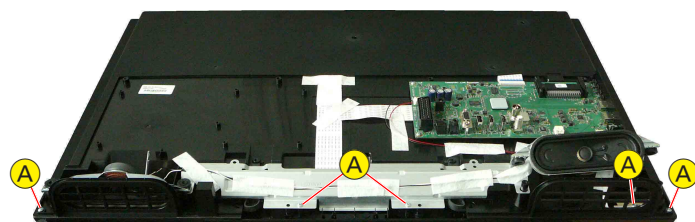


Fig. 3

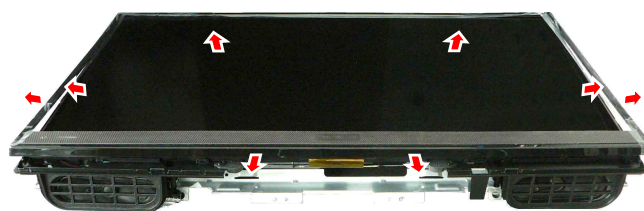
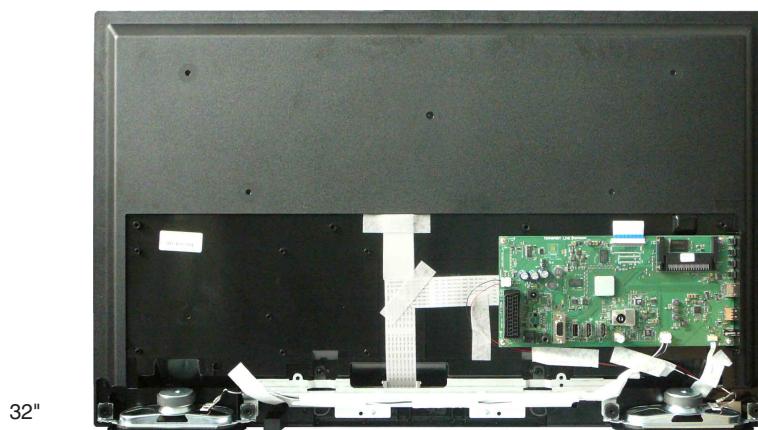


Fig. 4



32"

Technische Daten / Technical Data 22"

	22 VLE 521 BG	22 VLE 521 SG	22 VLE 4400 BM
Order No.	NRU000	NRT000	NQQ000
Product Code	NRU	NRT	NQQ
Country	DE; AT; CH	DE; AT; CH	SE; DK; FI; NO
Approbations	CE	CE	CE
Remote control	RC23	RC23	TP6 (New)
EAN	40 13833-00096 9	40 13833-00095 2	40 13833-00012 9
Color	Black	Silver	Black
DISPLAY			
Panel	22"/55 cm	22"/55 cm	22"/55 cm
Backlight	EDGE LED	EDGE LED	EDGE LED
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	200Hz	100Hz
Physical display resolution max. pixel	FHD (1.920x1.080)	FHD (1.920x1.080)	FHD (1.920x1.080)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	○	○	○
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 3/6W nominal/music power (R/L)	2 x 3/6W nominal/music power (R/L)	2 x 3/6W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ● / ●	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 T2 / 1000 C / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	○
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	22 VLE 521 BG	22 VLE 521 SG	22 VLE 4400 BM
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	950 MHz to 2150 MHz	○
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	○
Demodulation	QPSK, 8PSK	QPSK, 8PSK	○
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	○
DiseqC 1.2 support	●	●	○
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection	○
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	○
Unicable	●	●	○
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / ○	177 - 862 VHF & UHF / ○	177 - 862 VHF & UHF / ○
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	○	○	177 - 862 VHF & UHF
Input level / Impedance	○	○	-75 to -35dBm / 75Ohm
Modulation	○	○	QPSK, 16QAM, 64QAM, 256QAM
FEC Mode	○	○	LDPC + BCH 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Activ antenna support	○	○	●
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	○	○	●
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	12V	12V	12V
Energy class	A	A	A
Nominal Power Consumption	22W	22W	22W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	33kWh	33kWh	33kWh
Cabinet without stand (WxHxD)	515 x 335 x 38,5mm	515 x 335 x 38,5mm	515 x 335 x 38,5mm
Cabinet with stand (WxHxD)	515 x 364 x 154,5mm	515 x 364 x 154,5mm	515 x 364 x 154,5mm
Weight - Unpacked	ca. 2,7kg	ca. 2,8kg	ca. 3,5kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	2 / ○	2 / ○	2 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	1 / ○	1 / ○	1 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	1 x F-connector	○
DC-connector	●	●	●
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	RC23	RC23	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 75 x 75	Prepared for VESA standard adaptor 75 x 75	Prepared for VESA standard adaptor 75 x 75
Stand	●	●	●
Cleaning tissue	○	○	○

Technische Daten / Technical Data 22"

	22 VLE 4400 WM	22 VLE 4421 BF	22 VLE 4520 BF
Order No.	NQR000	NPQ000	MMH000
Product Code	NQR	NPQ	MMH
Country	SE; DK; FI; NO	FR; ES; IT	FR; ES; IT
Approbations	CE	CE	CE
Remote control	TP6 (New)	RC23	TP6 (New)
EAN	40 13833-00015 0	40 13833-87639 7	40 13833-00464 6
Color	White	Black	Black
DISPLAY			
Panel	22"/55 cm	22"/55 cm	22"/55 cm
Backlight	EDGE LED	EDGE LED	EDGE LED
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	100Hz	100Hz	100Hz
Physical display resolution max. pixel	FHD (1.920x1.080)	FHD (1.920x1.080)	FHD (1.920x1.080)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	●	●	●
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 3/6W nominal/music power (R/L)	2 x 3/6W nominal/music power (R/L)	2 x 3/6W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ● / ●
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 T2 / 1000 C / AV	100 Analog / 1000 T / 1000 C / AV	100 Analog / 1000 T / 1000 C / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	-
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-T2, DVB-C	8 days via DVB-T, DVB-C	8 days via DVB-T, DVB-C
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	22 VLE 4400 WM	22 VLE 4421 BF	22 VLE 4520 BF
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dbV / 75 Ohm	47 - 70dbV / 75 Ohm	47 - 70dbV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	○	○	○
Signal level	○	○	○
Demodulation	○	○	○
Input symbol rate	○	○	○
DiseqC 1.2 support	○	○	○
LNB power & Polarization	○	○	○
FEC MODE	○	○	○
Unicable	○	○	○
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / ○	177 - 862 VHF & UHF / ○	177 - 862 VHF & UHF / ○
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	177 - 862 VHF & UHF	○	○
Input level / Impedance	-75 to -35dBm / 75Ohm	○	○
Modulation	QPSK, 16QAM, 64QAM, 256QAM	○	○
FEC Mode	LDPC + BCH 1/2, 3/5, 2/3, 3/4, 4/5, 5/6	○	○
Activ antenna support	●	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	●	○	○
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	12V	12V	12V
Energy class	A	A	A
Nominal Power Consumption	22W	22W	22W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W Standby
Annual On-Mode Energy Consumption	33kWh	33kWh	33kWh annual on-mode energy consumption
Cabinet without stand (WxHxD)	515 x 335 x 38,5mm	515 x 335 x 38,5mm	515 x 335 x 38,5mm
Cabinet with stand (WxHxD)	515 x 364 x 154,5mm	515 x 364 x 154,5mm	515 x 364 x 154,5mm
Weight - Unpacked	ca. 3,5kg	ca. 3,0kg	ca. 3kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	2 / ○	1 / ○	1 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	○	○
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	1 / ○	1 / ○	1 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	○	○	○
DC-connector	●	●	●
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	RC23	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 75 x 75	Prepared for VESA standard adaptor 75 x 75	75 x 75mm
Stand	●	●	●
Cleaning tissue	○	○	○

Technische Daten / Technical Data 22"

	22 VLE 5400 BN	22 VLE 5421 BG	22 VLE 5421 SG
Order No.	NQS000	NJN000	NJP000
Product Code	NQS	NJN	NJP
Country	SE; DK; FI; NO	DE; AT; CH	DE; AT; CH
Approbations	CE	CE	CE
Remote control	TP6 (New)	RC23	RC23
EAN	40 13833-00016 7	40 13833-87517 8	40 13833-87518 5
Color	Black	Black	Silver
DISPLAY			
Panel	22"/55 cm	22"/55 cm	22"/55 cm
Backlight	EDGE LED	EDGE LED	EDGE LED
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	200Hz	200Hz
Physical display resolution max. pixel	FHD (1.920x1.080)	FHD (1.920x1.080)	FHD (1.920x1.080)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	○	○	○
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 3/6W nominal/music power (R/L)	2 x 3/6W nominal/music power (R/L)	2 x 3/6W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 T2 / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	○
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-T2, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	●	●	●
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	22 VLE 5400 BN	22 VLE 5421 BG	22 VLE 5421 SG
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	950 MHz to 2150 MHz	950 MHz to 2150 MHz
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)
Demodulation	QPSK, 8PSK	QPSK, 8PSK	QPSK, 8PSK
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2
DiseqC 1.2 support	●	●	●
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10
Unicable	●	●	●
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	177 - 862 VHF & UHF	○	○
Input level / Impedance	-75 to -35dBm / 75Ohm	○	○
Modulation	QPSK, 16QAM, 64QAM, 256QAM	○	○
FEC Mode	LDPC + BCH 1/2, 3/5, 2/3, 3/4, 4/5, 5/6	○	○
Activ antenna support	●	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	●	○	○
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	12V	12V	12V
Energy class	A	A	A
Nominal Power Consumption	22W	22W	22W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	33kWh	33kWh	33kWh
Cabinet without stand (WxHxD)	515 x 335 x 38,5mm	515 x 335 x 38,5mm	515 x 335 x 38,5mm
Cabinet with stand (WxHxD)	515 x 364 x 154,5mm	515 x 364 x 154,5mm	515 x 364 x 154,5mm
Weight - Unpacked	ca. 3,5kg	ca. 3,0kg	ca. 3,0kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	2 / ○	2 / ○	2 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	1 / ○	1 / ○	1 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	1 x F-connector	1 x F-connector
DC-connector	●	●	●
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	RC23	RC23
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 75 x 75	Prepared for VESA standard adaptor 75 x 75	Prepared for VESA standard adaptor 75 x 75
Stand	●	●	●
Cleaning tissue	○	○	○

Technische Daten / Technical Data 22"

	22 VLE 5421 WG	22 VLE 5520 SG	22 VLE 5520 WG
Order No.	NJQ000 / NPU000	MLL000	MLH000
Product Code	NJQ / NPU	MLL	MLH
Country	DE; AT; CH / FR; ES; IT	DE; AT; CH	DE; AT; CH
Approbations	CE	CE	CE
Remote control	RC23 / TP6 (New)	TP6 (New)	TP6 (New)
EAN	40 13833-87519 2 / -87642 7	40 13833-00416 5	40 13833-00413 4
Color	White	Silver	White
DISPLAY			
Panel	22"/55 cm	22"/55 cm	22"/55 cm
Backlight	EDGE LED	EDGE LED	EDGE LED
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	200Hz	200Hz
Physical display resolution max. pixel	FHD (1.920x1.080)	FHD (1.920x1.080)	FHD (1.920x1.080)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	●	●	●
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 3/6W nominal/music power (R/L)	2 x 3/6W nominal/music power (R/L)	2 x 3/6W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ● / ●	● / ● / ●
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	-	-
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	22 VLE 5421 WG	22 VLE 5520 SG	22 VLE 5520 WG
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	950 MHz to 2150 MHz	950 MHz to 2150 MHz
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)
Demodulation	QPSK, 8PSK	QPSK, 8PSK	QPSK, 8PSK
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2
DiseqC 1.2 support	●	●	●
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10
Unicable	●	●	●
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	○	○	○
Input level / Impedance	○	○	○
Modulation	○	○	○
FEC Mode	○	○	○
Activ antenna support	○	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	○ (NJQ) / ● (NPU)	○	○
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	12V	12V	12V
Energy class	A	A	A
Nominal Power Consumption	22W	22W	22W
Stand-by Power Consumption	< 0,5W	< 0,5W Standby	< 0,5W Standby
Annual On-Mode Energy Consumption	33kWh	33kWh annual on-mode energy consumption	33kWh annual on-mode energy consumption
Cabinet without stand (WxHxD)	515 x 335 x 38,5mm	515 x 335 x 38,5mm	515 x 335 x 38,5mm
Cabinet with stand (WxHxD)	515 x 364 x 154,5mm	515 x 364 x 154,5mm	515 x 364 x 154,5mm
Weight - Unpacked	ca. 3,0kg	ca. 3kg	ca. 3kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	2 / ○	2 / ○	2 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	1 / ○	1 / ○	1 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	1 x F-connector	1 x F-connector
DC-connector	●	●	●
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	RC23 / TP6 (New)	TP6 (New)	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 75 x 75	75 x 75mm	75 x 75mm
Stand	○	●	●
Cleaning tissue	○		

Technische Daten / Technical Data 28"

	28 VLE 4400 BM	28 VLE 4401 BF	28 VLE 4500 BF
Order No.	NHD000	NFX000 / NHL000	MMJ000
Product Code	NHD	NFX / NHL	MMJ
Country	DK; FI; NO; SE	AT; DE; CH / BE; FR; PL; PT; RO; ES	BE; FR; PL; PT; RO; ES
Approbations	CE	CE	CE
Remote control	TP6 (New)	RC23	TP6 (New)
EAN	40 13833-87477 5	40 13833-87453 9 / -87484 3	40 13833-00465 3
Color	Black	Black	Black
DISPLAY			
Panel	28"/70 cm	28"/70 cm	28"/70 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	100Hz	100Hz	100Hz
Physical display resolution max. pixel	HDR (1.366x768)	HDR (1.366x768)	HDR (1.366x768)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	●	●	●
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ● / ●
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 T2 / 1000 C / AV	100 Analog / 1000 T / 1000 C / AV	100 Analog / 1000 T / 1000 C / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	-
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-T2, DVB-C	8 days via DVB-T, DVB-C	8 days via DVB-T, DVB-C
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	28 VLE 4400 BM	28 VLE 4401 BF	28 VLE 4500 BF
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dbV / 75 Ohm	47 - 70dbV / 75 Ohm	47 - 70dbV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	○	○	○
Signal level	○	○	○
Demodulation	○	○	○
Input symbol rate	○	○	○
DiseqC 1.2 support	○	○	○
LNB power & Polarization	○	○	○
FEC MODE	○	○	○
Unicable	○	○	○
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / ○	177 - 862 VHF & UHF / ○	177 - 862 VHF & UHF / ○
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	177 - 862 VHF & UHF	○	○
Input level / Impedance	-75 to -35dBm / 75Ohm	○	○
Modulation	QPSK, 16QAM, 64QAM, 256QAM	○	○
FEC Mode	LDPC + BCH 1/2, 3/5, 2/3, 3/4, 4/5, 5/6	○	○
Activ antenna support	●	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	●	○	○
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	19V	19V	19V
Energy class	A	A	A
Nominal Power Consumption	32W	32W	32W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W Standby
Annual On-Mode Energy Consumption	47kWh	47kWh	47kWh annual on-mode energy consumption
Cabinet without stand (WxHxD)	641 x 402 x 74mm	641 x 402 x 74mm	641 x 402 x 74mm
Cabinet with stand (WxHxD)	641 x 433 x 173mm	641 x 433 x 173mm	641 x 433 x 173mm
Weight - Unpacked	ca. 3,3kg	ca. 3,3kg	ca. 3,34kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	1 / ○	1 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	○	○	○
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	RC23	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 100 x 100	Prepared for VESA standard adaptor 100 x 100	100 x 100mm
Stand	●	●	●
Cleaning tissue	○	○	○

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	28 VLE 5401 BG	28 VLE 5401 SG	28 VLE 5401 WG
Order No.	NJR000	NJS000	NJT000 / NPV000
Product Code	NJR	NJS	NJT / NPV
Country	AT; DE; CH	AT; DE; CH	AT; DE; CH / BE; FR; PL; PT; RO; ES
Approbations	CE	CE	CE
Remote control	TP6 (New)	TP6 (New)	TP6 (New)
EAN	40 13833-87520 8	40 13833-87521 5	40 13833-87522 2 / -87643 4
Color	Black	Silver	White
DISPLAY			
Panel	28"/70 cm	28"/70 cm	28"/70 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	200Hz	200Hz
Physical display resolution max. pixel	HDR (1.366x768)	HDR (1.366x768)	HDR (1.366x768)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	●	●	●
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	○
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	28 VLE 5401 BG	28 VLE 5401 SG	28 VLE 5401 WG
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBµV / 75 Ohm	47 - 70dBµV / 75 Ohm	47 - 70dBµV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	950 MHz to 2150 MHz	950 MHz to 2150 MHz
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)
Demodulation	QPSK, 8PSK	QPSK, 8PSK	QPSK, 8PSK
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2
DiseqC 1.2 support	●	●	●
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10
Unicable	●	●	●
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	○	○	○
Input level / Impedance	○	○	○
Modulation	○	○	○
FEC Mode	○	○	○
Activ antenna support	○	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	○	○	○ (NJT) / ● (NPV)
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	19V	19V	19V
Energy class	A	A	A
Nominal Power Consumption	32W	32W	32W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	47kWh	47kWh	47kWh
Cabinet without stand (WxHxD)	641 x 402 x 74mm	641 x 402 x 74mm	641 x 402 x 74mm
Cabinet with stand (WxHxD)	641 x 433 x 173mm	641 x 433 x 173mm	641 x 433 x 173mm
Weight - Unpacked	ca. 3,5kg	ca. 3,4kg	ca. 3,6kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	2 / ○	2 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	1 x F-connector	1 x F-connector
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	TP6 (New)	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 100 x 100	Prepared for VESA standard adaptor 100 x 100	Prepared for VESA standard adaptor 100 x 100
Stand	●	●	●
Cleaning tissue	○	○	○

Technische Daten / Technical Data 28"

	28 VLE 5500 BG	28 VLE 5500 SG	28 VLE 5500 WG
Order No.	MLV000 / MPH000	MLM000	MLJ000
Product Code	MLV / MPH	MLM	MLJ
Country	DE; AT; CH / BE; FR; PL; PT; RO; ES	AT; DE; CH	AT; DE; CH
Approbations	CE	CE	CE
Remote control	TP6 (New)	TP6 (New)	TP6 (New)
EAN	40 13833-00448 6 / -00534 6	40 13833-00421 9	40 13833-00414 1
Color	Black	Silver	White
DISPLAY			
Panel	28"/70 cm	28"/70 cm	28"/70 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	200Hz	200Hz
Physical display resolution max. pixel	HDR (1.366x768)	HDR (1.366x768)	HDR (1.366x768)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	●	●	●
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ● / ●	● / ● / ●	● / ● / ●
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	-	-	-
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	28 VLE 5500 BG	28 VLE 5500 SG	28 VLE 5500 WG
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	950 MHz to 2150 MHz	950 MHz to 2150 MHz
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)
Demodulation	QPSK, 8PSK	QPSK, 8PSK	QPSK, 8PSK
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2
DiseqC 1.2 support	●	●	●
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10
Unicable	●	●	●
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	○	○	○
Input level / Impedance	○	○	○
Modulation	○	○	○
FEC Mode	○	○	○
Activ antenna support	○	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	○ / ●	○	○
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	19V	19V	19V
Energy class	A	A	A
Nominal Power Consumption	32W	32W	32W
Stand-by Power Consumption	< 0,5W Standby	< 0,5W Standby	< 0,5W Standby
Annual On-Mode Energy Consumption	47kWh annual on-mode energy consumption	47kWh annual on-mode energy consumption	47kWh annual on-mode energy consumption
Cabinet without stand (WxHxD)	641 x 402 x 74mm	641 x 402 x 74mm	641 x 402 x 74mm
Cabinet with stand (WxHxD)	641 x 433 x 173mm	641 x 433 x 173mm	641 x 433 x 173mm
Weight - Unpacked	ca. 3,34kg	ca. 3,34kg	ca. 3,34kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	2 / ○	2 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	1 x F-connector	1 x F-connector
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	TP6 (New)	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	100 x 100mm	100 x 100mm	100 x 100mm
Stand	●	●	●
Cleaning tissue	None		

Technische Daten / Technical Data 28"/32"

	HAMBURG 28 CLE 5407 BG	32 VLE 555 BG	32 VLE 685 BG
Order No.	NJB000	NMW000	NSL000
Product Code	NJB	NMW	NSL
Country	AT; DE	AT; DE; CH	AT; DE; CH
Approbations	CE	CE	CE
Remote control	TP6 (New)	TP6 (New)	TP6 (New)
EAN	40 13833-87504 8	40 13833-87604 5	40 13833-00110 2
Color	Black	Black	Black
DISPLAY			
Panel	28"/70 cm	32"/80 cm	32"/80 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	200Hz	200Hz
Physical display resolution max. pixel	HDR (1.366x768)	HDR (1.366x768)	HDR (1.366x768)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	●	●	●
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	○
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	●	●	●
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	HAMBURG 28 CLE 5407 BG	32 VLE 555 BG	32 VLE 685 BG
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBµV / 75 Ohm	47 - 70dBµV / 75 Ohm	47 - 70dBµV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	950 MHz to 2150 MHz	950 MHz to 2150 MHz
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)
Demodulation	QPSK, 8PSK	QPSK, 8PSK	QPSK, 8PSK
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2
DiseqC 1.2 support	●	●	●
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10
Unicable	●	●	●
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	○	○	○
Input level / Impedance	○	○	○
Modulation	○	○	○
FEC Mode	○	○	○
Activ antenna support	○	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	●	○	○
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	19V	19V	19V
Energy class	A	A	A
Nominal Power Consumption	32W	40W	40W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	47kWh	58kWh	58kWh
Cabinet without stand (WxHxD)	641 x 402 x 74mm	729 x 449 x 76mm	729 x 449 x 76mm
Cabinet with stand (WxHxD)	641 x 433 x 173mm	729 x 483 x 173mm	729 x 483 x 173mm
Weight - Unpacked	ca. 3,5kg	ca. 4,4kg	ca. 4,6kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	1 / ○	2 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	1 x F-connector	1 x F-connector
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	TP6 (New)	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 100 x 100	Prepared for VESA standard adaptor 100 x 200	Prepared for VESA standard adaptor 100 x 200
Stand	●	●	●
Cleaning tissue	○	○	○

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	32 VLE 4400 BM	32 VLE 4401 BF	32 VLE 5400 BN
Order No.	NHE000	NFY000 / NHM000	NHF000
Product Code	NHE	NFY / NHM	NHF
Country	DK; FI; NO; SE	AT; DE; CH / BE; FR; PL; PT; RO; ES	DK; FI; NO; SE
Approbations	CE	CE	CE
Remote control	TP6 (New)	RC23	TP6 (New)
EAN	40 13833-87478 2	40 13833-87456 0 / -87485 0	40 13833-87479 9
Color	Black	Black	Black
DISPLAY			
Panel	32"/80 cm	32"/80 cm	32"/80 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	100Hz	100Hz	200Hz
Physical display resolution max. pixel	HDR (1.366x768)	HDR (1.366x768)	HDR (1.366x768)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	●	●	●
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 T2 / 1000 C / AV	100 Analog / 1000 T / 1000 C / AV	100 Analog / 1000 T / 1000 T2 / 1000 C / 6000 S2 / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	○
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-T2, DVB-C	8 days via DVB-T, DVB-C	8 days via DVB-T, DVB-T2, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	32 VLE 4400 BM	32 VLE 4401 BF	32 VLE 5400 BN
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	○	○	950 MHz to 2150 MHz
Signal level	○	○	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)
Demodulation	○	○	QPSK, 8PSK
Input symbol rate	○	○	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2
DiseqC 1.2 support	○	○	●
LNB power & Polarization	○	○	13/18V Selection / Vertical 22 KHz generation / Overload Protection
FEC MODE	○	○	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10
Unicable	○	○	●
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / ○	177 - 862 VHF & UHF / ○	177 - 862 VHF & UHF / ○
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	177 - 862 VHF & UHF	○	177 - 862 VHF & UHF
Input level / Impedance	-75 to -35dBm / 75Ohm	○	-75 to -35dBm / 75Ohm
Modulation	QPSK, 16QAM, 64QAM, 256QAM	○	QPSK, 16QAM, 64QAM, 256QAM
FEC Mode	LDPC + BCH 1/2, 3/5, 2/3, 3/4, 4/5, 5/6	○	LDPC + BCH 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Activ antenna support	●	○	●
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	●	○	●
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	19V	19V	19V
Energy class	A	A	A
Nominal Power Consumption	40W	40W	40W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	58kWh	58kWh	58kWh
Cabinet without stand (WxHxD)	729 x 449 x 76mm	729 x 449 x 76mm	729 x 449 x 76mm
Cabinet with stand (WxHxD)	729 x 483 x 173mm	729 x 483 x 173mm	729 x 483 x 173mm
Weight - Unpacked	ca. 4,6kg	ca. 4,5kg	ca. 4,4kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	1 / ○	2 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	○	○	○
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	RC23	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 100 x 200	Prepared for VESA standard adaptor 100 x 200	Prepared for VESA standard adaptor 100 x 200
Stand	●	●	●
Cleaning tissue	○	○	○

Technische Daten / Technical Data 32"

	32 VLE 5401 BG	32 VLE 5401 WG	32 VLE 5405 SG
Order No.	NJW000	NPW000	NUG000
Product Code	NJW	NPW	NUG
Country	AT; DE; CH	BE; FR; PL; PT; RO; ES	AT; DE; CH
Approbations	CE	CE	CE
Remote control	TP6 (New)	TP6 (New)	TP6 (New)
EAN	40 13833-87526 0	40 13833-87644 1	40 13833-00218 5
Color	Black	White	Silver
DISPLAY			
Panel	32"/80 cm	32"/80 cm	32"/80 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	200Hz	200Hz
Physical display resolution max. pixel	HDR (1.366x768)	HDR (1.366x768)	HDR (1.366x768)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	●	●	●
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	-
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	32 VLE 5401 BG	32 VLE 5401 WG	32 VLE 5405 SG
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBµV / 75 Ohm	47 - 70dBµV / 75 Ohm	47 - 70dBµV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4.0...7.2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4.0...7.2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4.0...7.2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	950 MHz to 2150 MHz	950 MHz to 2150 MHz
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) / -25 to -70dBm (Only for DVB-S2)
Demodulation	QPSK, 8PSK	QPSK, 8PSK	QPSK, 8PSK
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S / 5 - 30 Msps for DVB-S2
DiseqC 1.2 support	●	●	●
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 / QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 / 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10
Unicable	●	●	●
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-76,0dBm to -20dBm (at 16 QAM 2/3) / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	○	○	○
Input level / Impedance	○	○	○
Modulation	○	○	○
FEC Mode	○	○	○
Activ antenna support	○	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Pa-rama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	○	●	○
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	19V	19V	19V
Energy class	A	A	A
Nominal Power Consumption	40W	40W	40W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	58kWh	58kWh	58kWh
Cabinet without stand (WxHxD)	729 x 449 x 76mm	729 x 449 x 76mm	729 x 449 x 76mm
Cabinet with stand (WxHxD)	729 x 483 x 173mm	729 x 483 x 173mm	729 x 483 x 173mm
Weight - Unpacked	ca. 4,6kg	ca. 4,6kg	ca. 4,6kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	2 / ○	2 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	1 x F-connector	1 x F-connector
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	TP6 (New)	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 100 x 200	Prepared for VESA standard adaptor 100 x 200	Prepared for VESA standard adaptor 100 x 200
Stand	●	●	●
Cleaning tissue	○	○	○

Technische Daten / Technical Data 32"

	32 VLE 5405 WG	32 VLE 5406 BG	HAMBURG 32 CLE 5407 BG
Order No.	NUH000	MHM000	NJC000
Product Code	NUH	MHM	NJC
Country	AT; DE; CH	AT; DE; CH	AT; DE; CH
Approbations	CE	CE	CE
Remote control	TP6 (New)	TP6 (New)	TP6 (New)
EAN	40 13833-00219 2	40 13833-00338 0	40 13833-87505 5
Color	White	Black	Black
DISPLAY			
Panel	32"/80 cm	32"/80 cm	32"/80 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	200Hz	200Hz
Physical display resolution max. pixel	HDR (1.366x768)	HDR (1.366x768)	HDR (1.366x768)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	○	○	○
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menue languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	-	○	○
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	32 VLE 5405 WG	32 VLE 5406 BG	HAMBURG 32 CLE 5407 BG
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBµV / 75 Ohm	47 - 70dBµV / 75 Ohm	47 - 70dBµV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4.0...7.2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4.0...7.2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4.0...7.2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	950 MHz to 2150 MHz	950 MHz to 2150 MHz
Signal level	-25 to -80dBm (Only for DVB-S) / -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) / -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) / -25 to -70dBm (Only for DVB-S2)
Demodulation	QPSK, 8PSK	QPSK, 8PSK	QPSK, 8PSK
Input symbol rate	1 - 45 Msps for DVB-S / 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S / 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S / 5 - 30 Msps for DVB-S2
DiseqC 1.2 support	●	●	●
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 / QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 / 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10
Unicable	●	●	●
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O
Input level / Impedance	-76,0dBm to -20dBm (at 16 QAM 2/3) / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	○	○	○
Input level / Impedance	○	○	○
Modulation	○	○	○
FEC Mode	○	○	○
Activ antenna support	○	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Pa-rama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4 , MPEG 2 layer I & II	MPEG 4 , MPEG 2 layer I & II	MPEG 4 , MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	○	○	●
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	19V	19V	19V
Energy class	A	A	A
Nominal Power Consumption	40W	40W	40W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	58kWh	58kWh	58kWh
Cabinet without stand (WxHxD)	729 x 449 x 76mm	729 x 449 x 76mm	729 x 449 x 76mm
Cabinet with stand (WxHxD)	729 x 483 x 173mm	729 x 483 x 173mm	729 x 483 x 173mm
Weight - Unpacked	ca. 4,6kg	ca. 4,4kg	ca. 4,6kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	2 / ○	2 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	1 x F-connector	1 x F-connector
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	TP6 (New)	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 100 x 200	Prepared for VESA standard adaptor 100 x 200	Prepared for VESA standard adaptor 100 x 200
Stand	●	●	●
Cleaning tissue	○	○	○

Technische Daten / Technical Data 32"/40"

	Hamburg 32 CLE 5407 SG	40 VLE 521 BG	40 VLE 555 BG
Order No.	NUJ000	MGV000	NHZ000
Product Code	NUJ	MGV	NHZ
Country	AT; DE; CH	AT; DE; CH	AT; DE; CH
Approbations	CE	CE	CE
Remote control	TP6 (New)	TP6 (New)	TP6 (New)
EAN	40 13833-00220 8	40 13833-00331 1	40 13833-87501 7
Color	Silver	Black	Black
DISPLAY			
Panel	32"/80 cm	40"/102 cm	40"/102 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	200Hz	200Hz
Physical display resolution max. pixel	HDR (1.366x768)	FHD (1.920x1.080)	FHD (1.920x1.080)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	○	○	○
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	-	-	○
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	Hamburg 32 CLE 5407 SG	40 VLE 521 BG	40 VLE 555 BG
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBµV / 75 Ohm	47 - 70dBµV / 75 Ohm	47 - 70dBµV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4.0...7.2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4.0...7.2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4.0...7.2 Msymbols/s
DVB-S2 Front end	●	●	●
Input frequency range	950 MHz to 2150 MHz	950 MHz to 2150 MHz	950 MHz to 2150 MHz
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)
Demodulation	QPSK, 8PSK	QPSK, 8PSK	QPSK, 8PSK
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2
DiseqC 1.2 support	●	●	●
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10
Unicable	●	●	●
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O
Input level / Impedance	-76,0dBm to -20dBm (at 16 QAM 2/3) / 75 Ohm	-76,0dBm to -20dBm (at 16 QAM 2/3) / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end	○	○	○
Input frequency range	○	○	○
Input level / Impedance	○	○	○
Modulation	○	○	○
FEC Mode	○	○	○
Activ antenna support	○	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Pa-rama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Pa-rama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	●	○	○
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	19V	○	○
Energy class	A	A	A
Nominal Power Consumption	40W	60W	60W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	58kWh	88kWh	88kWh
Cabinet without stand (WxHxD)	729 x 449 x 76mm	924 x 561 x 72,5mm	924 x 561 x 73mm
Cabinet with stand (WxHxD)	729 x 483 x 173mm	924 x 590 x 220mm	924 x 590 x 220mm
Weight - Unpacked	ca. 4,6kg	ca. 6,8kg	ca. 6,8kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	2 / ○	1 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	1 x F-connector	1 x F-connector
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	TP6 (New)	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 100 x 200	Prepared for VESA standard adaptor 200 x 200	Prepared for VESA standard adaptor 200 x 200
Stand	●	●	●
Cleaning tissue	○	○	○

Technische Daten / Technical Data 40"

	40 VLE 685 BG	40 VLE 4420 BM	40 VLE 4421 BF
Order No.	NJA000	NHG000	NFZ000 / NHN000
Product Code	NJA	NHG	NFZ / NHN
Country	AT; DE; CH	DK; FI; NO; SE	AT; DE; CH / FR; PL; PT; RO; ES
Approbations	CE	CE	CE
Remote control	TP6 (New)	TP6 (New)	RC23
EAN	40 13833-87503 1	40 13833-87480 5	40 13833-87457 7 / -87486 7
Color	Black	Black	Black
DISPLAY			
Panel	40"/102 cm	40"/102 cm	40"/102 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	100Hz	100Hz
Physical display resolution max. pixel	FHD (1.920x1.080)	FHD (1.920x1.080)	FHD (1.920x1.080)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	○	○	○
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 T2 / 1000 C / AV	100 Analog / 1000 T / 1000 C / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	○
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-T2, DVB-C	8 days via DVB-T, DVB-C
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	40 VLE 685 BG	40 VLE 4420 BM	40 VLE 4421 BF
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	○	○
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	○	○
Demodulation	QPSK, 8PSK	○	○
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	○	○
DiseqC 1.2 support	●	○	○
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	○	○
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	○	○
Unicable	●	○	○
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / ○	177 - 862 VHF & UHF / ○	177 - 862 VHF & UHF / ○
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	○	177 - 862 VHF & UHF	○
Input level / Impedance	○	-75 to -35dBm / 75Ohm	○
Modulation	○	QPSK, 16QAM, 64QAM, 256QAM	○
FEC Mode	○	LDPC + BCH 1/2, 3/5, 2/3, 3/4, 4/5, 5/6	○
Activ antenna support	○	●	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	○	●	○
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	○	○	○
Energy class	A	A	A
Nominal Power Consumption	60W	60W	60W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	88kWh	88kWh	88kWh
Cabinet without stand (WxHxD)	924 x 561 x 73mm	924 x 561 x 73mm	924 x 561 x 73mm
Cabinet with stand (WxHxD)	924 x 590 x 220mm	924 x 590 x 220mm	924 x 590 x 220mm
Weight - Unpacked	ca. 7,0kg	ca. 6,8kg	ca. 6,9kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	2 / ○	1 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	○	○
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	TP6 (New)	RC23
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 200 x 200	Prepared for VESA standard adaptor 200 x 200	Prepared for VESA standard adaptor 200 x 200
Stand	●	●	●
Cleaning tissue	○	○	○

Technische Daten / Technical Data 40"

	40 VLE 5420 BN	40 VLE 5421 BG	40 VLE 5421 WG
Order No.	NHH000	NJU000 / NLD000	NPX000
Product Code	NHH	NJU / NLD	NPX
Country	DK; FI; NO; SE	AT; DE; CH / FR; PL; PT; RO; ES	FR; PL; PT; RO; ES
Approbations	CE	CE	CE
Remote control	TP6 (New)	TP6 (New)	TP6 (New)
EAN	40 13833-87481 2	40 13833-87523 9 / -87558 1	40 13833-87645 8
Color	Black	Black	White
DISPLAY			
Panel	40"/102 cm	40"/102 cm	40"/102 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	200Hz	200Hz
Physical display resolution max. pixel	FHD (1.920x1.080)	FHD (1.920x1.080)	FHD (1.920x1.080)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	●	●	●
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 T2 / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	○
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-T2, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	●	●	●
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	40 VLE 5420 BN	40 VLE 5421 BG	40 VLE 5421 WG
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	950 MHz to 2150 MHz	950 MHz to 2150 MHz
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)
Demodulation	QPSK, 8PSK	QPSK, 8PSK	QPSK, 8PSK
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2
DiseqC 1.2 support	●	●	●
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10
Unicable	●	●	●
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	177 - 862 VHF & UHF	○	○
Input level / Impedance	-75 to -35dBm / 75Ohm	○	○
Modulation	QPSK, 16QAM, 64QAM, 256QAM	○	○
FEC Mode	LDPC + BCH 1/2, 3/5, 2/3, 3/4, 4/5, 5/6	○	○
Activ antenna support	●	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	●	○	●
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	○	○	○
Energy class	A	A	A
Nominal Power Consumption	60W	60W	60W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	88kWh	88kWh	88kWh
Cabinet without stand (WxHxD)	924 x 561 x 73mm	924 x 561 x 73mm	924 x 561 x 73mm
Cabinet with stand (WxHxD)	924 x 590 x 220mm	924 x 590 x 220mm	924 x 590 x 220mm
Weight - Unpacked	ca. 7,0kg	ca. 6,9kg	ca. 6,8kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	2 / ○	2 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	1 x F-connector	1 x F-connector
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	TP6 (New)	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 200 x 200	Prepared for VESA standard adaptor 200 x 200	Prepared for VESA standard adaptor 200 x 200
Stand	●	●	●
Cleaning tissue	○	○	○

Technische Daten / Technical Data 40"/48"

	40 VLE 5425 WG	HAMBURG 40 CLE 5427 BG	48 VLE 555 BG
Order No.	MJM000	NJD000	NTC000
Product Code	MJM	NJD	NTC
Country	AT; DE; CH	AT; DE; CH	AT; DE; CH
Approbations	CE	CE	CE
Remote control	TP6 (New)	TP6 (New)	TP6 (New)
EAN	40 13833-00362 5	40 13833-87506 2	40 13833-00164 5
Color	White	Black	Black
DISPLAY			
Panel	40"/102 cm	40"/102 cm	48"/121 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	200Hz	200Hz
Physical display resolution max. pixel	FHD (1.920x1.080)	FHD (1.920x1.080)	FHD (1.920x1.080)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	○	○	○
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	○
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	40 VLE 5425 WG	HAMBURG 40 CLE 5427 BG	48 VLE 555 BG
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBµV / 75 Ohm	47 - 70dBµV / 75 Ohm	47 - 70dBµV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	950 MHz to 2150 MHz	950 MHz to 2150 MHz
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)
Demodulation	QPSK, 8PSK	QPSK, 8PSK	QPSK, 8PSK
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2
DiseqC 1.2 support	●	●	●
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10
Unicable	●	●	●
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	○	○	○
Input level / Impedance	○	○	○
Modulation	○	○	○
FEC Mode	○	○	○
Activ antenna support	○	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	○	●	○
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	○	○	○
Energy class	A	A	A
Nominal Power Consumption	60W	60W	85W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	88kWh	88kWh	124kWh
Cabinet without stand (WxHxD)	924 x 561 x 73mm	924 x 561 x 73mm	1085 x 652 x 75,5mm
Cabinet with stand (WxHxD)	924 x 590 x 220mm	924 x 590 x 220mm	1085 x 682 x 220mm
Weight - Unpacked	ca. 6,8kg	ca. 6,8kg	ca. 9,8kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	2 / ○	2 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	1 x F-connector	1 x F-connector
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	TP6 (New)	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 200 x 200	Prepared for VESA standard adaptor 200 x 200	Prepared for VESA standard adaptor 400 x 200
Stand	●	●	●
Cleaning tissue	○	○	○

Technische Daten / Technical Data 48"

	48 VLE 685 BG	48 VLE 4420 BM	48 VLE 4421 BF
Order No.	NSN000	NHJ000	NGA000 / NHP000
Product Code	NSN	NHJ	NGA / NHP
Country	AT; DE; CH	DK; FI; NO; SE	AT; DE; CH / FR; IT; PL; PT; RO; ES
Approbations	CE	CE	CE
Remote control	TP6 (New)	TP6 (New)	RC23
EAN	40 13833-00113 3	40 13833-87482 9	40 13833-87458 4 / -87487 4
Color	Black	Black	Black
DISPLAY			
Panel	48"/121 cm	48"/121 cm	48"/121 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	100Hz	100Hz
Physical display resolution max. pixel	FHD (1.920x1.080)	FHD (1.920x1.080)	FHD (1.920x1.080)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	○	○	○
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 T2 / 1000 C / AV	100 Analog / 1000 T / 1000 C / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	○
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-T2, DVB-C	8 days via DVB-T, DVB-C
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	48 VLE 685 BG	48 VLE 4420 BM	48 VLE 4421 BF
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4.0...7.2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4.0...7.2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4.0...7.2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	○	○
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	○	○
Demodulation	QPSK, 8PSK	○	○
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	○	○
DiseqC 1.2 support	●	○	○
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	○	○
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	○	○
Unicable	●	○	○
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / ○	177 - 862 VHF & UHF / ○	177 - 862 VHF & UHF / ○
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	○	177 - 862 VHF & UHF	○
Input level / Impedance	○	-75 to -35dBm / 75Ohm	○
Modulation	○	QPSK, 16QAM, 64QAM, 256QAM	○
FEC Mode	○	LDPC + BCH 1/2, 3/5, 2/3, 3/4, 4/5, 5/6	○
Activ antenna support	○	●	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	○	●	○
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	○	○	○
Energy class	A	A	A
Nominal Power Consumption	85W	85W	85W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	124kWh	124kWh	124kWh
Cabinet without stand (WxHxD)	1085 x 652 x 75,5mm	1085 x 652 x 75,5mm	1085 x 652 x 75,5mm
Cabinet with stand (WxHxD)	1085 x 682 x 220mm	1085 x 682 x 220mm	1085 x 682 x 220mm
Weight - Unpacked	ca. 9,6kg	ca. 9,7kg	ca. 9,7kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	2 / ○	1 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	○	○
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	TP6 (New)	RC23
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 400 x 200	Prepared for VESA standard adaptor 400 x 200	Prepared for VESA standard adaptor 400 x 200
Stand	●	●	●
Cleaning tissue	○	○	○

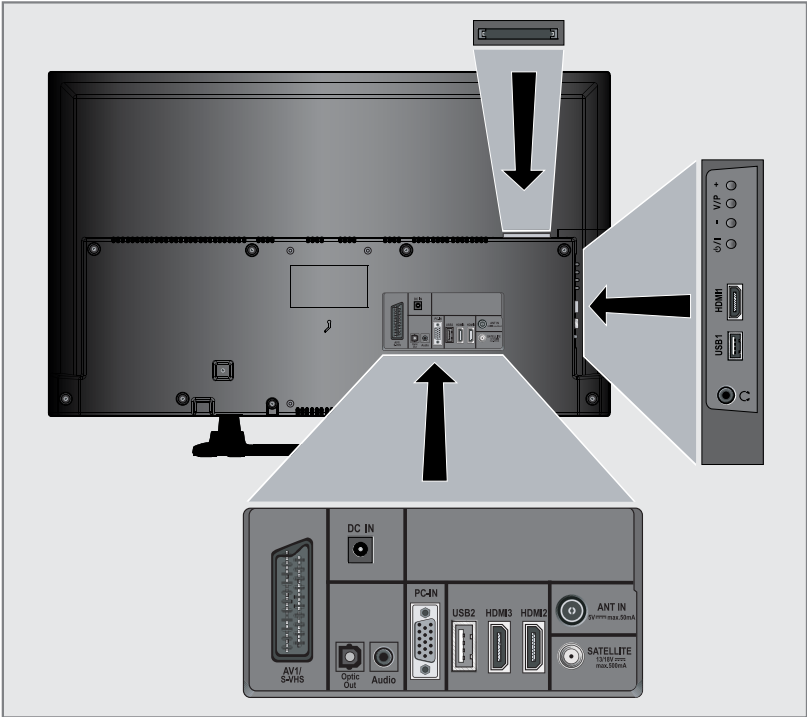
Technische Daten / Technical Data 48"

	48 VLE 5420 BN	48 VLE 5421 BG	HAMBURG 48 CLE 5427 BG
Order No.	NHK000	NJV000 / NLE000	NJE000
Product Code	NHK	NJV / NLE	NJE
Country	DK; FI; NO; SE	AT; DE; CH / FR; IT; PL; PT; RO; ES	AT; DE; CH
Approbations	CE	CE	CE
Remote control	TP6 (New)	TP6 (New)	TP6 (New)
EAN	40 13833-87483 6	40 13833-87525 3 / -87560 4	40 13833-87507 9
Color	Black	Black	Black
DISPLAY			
Panel	48"/121 cm	48"/121 cm	48"/121 cm
Backlight	DIRECT LED (BMS)	DIRECT LED (BMS)	DIRECT LED (BMS)
Wide-screen format	●	●	●
3D	○	○	○
2D/3D Converter	○	○	○
Dynamic contrast	DCR PLUS	DCR PLUS	DCR PLUS
Panel Frequency	50Hz	50Hz	50Hz
Picture Perfection rate	200Hz	200Hz	200Hz
Physical display resolution max. pixel	FHD (1.920x1.080)	FHD (1.920x1.080)	FHD (1.920x1.080)
PICTURE			
Motion Picture Improvement	○	○	○
Motion Adaptive Deinterlacing	3D DeInterlacer	3D DeInterlacer	3D DeInterlacer
Line Flicker Reduction	●	●	●
Digital Color Transition Improv. (DCTI)	●	●	●
Digital Combfilter	3D	3D	3D
Digital Luminance Trans. Improv. (DLTI)	●	●	●
Picture Noise Reduction	●	●	●
Preset picture modes	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports	User, Vivid, Natural, Movie, Sports
Aspect ratios (Format switching)	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama	Auto (WSS), 4:3 / 16:9 / 14:9 / Letterbox / Subtitle / Panorama
PIP	○	○	○
PAT: Split screen (PICTURE + TEXT)	○	○	○
PAP: Double Window (PICT. + PICT.)	○	○	○
Picture freezing	●	●	●
Zoom with point function	●	●	●
Blue Background	●	●	●
AUDIO			
Mono/Stereo/Nicam	● / ● / ●	● / ● / ●	● / ● / ●
Loudspeaker	2 wide band at the front side	2 wide band at the front side	2 wide band at the front side
SRS	SRS - TruSurround HD	SRS - TruSurround HD	SRS - TruSurround HD
Dolby digital	●	●	●
Subwoofer	○	○	○
AVL (Audio Volume Level)	●	●	●
Equalizer	5 Band	5 Band	5 Band
Space Sound Effect	●	●	●
Sound preset	natural, music, speech, user	natural, music, speech, user	natural, music, speech, user
Audio amplifier	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)	2 x 10/20W nominal/music power (R/L)
CHASSIS			
TV-Chassis	TY	TY	TY
Scaler	SAPPHIRE	SAPPHIRE	SAPPHIRE
Keyboard	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by	4 keys: Volume/Programm, +/-, stand-by
ELECTRONIC			
Stand by indicator	Blue Led	Blue Led	Blue Led
Programmable off timer	●	●	●
Programmable on timer	●	●	●
Zap / Swap	● / ○	● / ○	● / ○
Programme Edit	●	●	●
Auto switch off	●	●	●
Programme memory TV/AV (opt.)	100 Analog / 1000 T / 1000 T2 / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV	100 Analog / 1000 T / 1000 C / 6000 S2 / AV
Teletext/Fasttext/Toptext	● / ● / ●	● / ● / ●	● / ● / ●
Teletext options	1000 pages	1000 pages	1000 pages
Hbb TV	○	○	○
Childlock	●	●	●
Menu languages OSD	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE	24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RU, RO, BG, HR, LT, EE
Game mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode	presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
Hotel mode	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment	Simple hotel mode possible via service adjustment
Digi Link	●	●	●
Special feature	○	○	○
Wifi	○	○	○
DLNA	○	○	○
DLNA Supported Format	○	○	○
Internet Applications	○	○	○
Smart Inter@ctive TV 3.0	○	○	○
Online SW Update	○	○	○
RC over IP	○	○	○
Bluetooth (TV)	○	○	○
Easy use remote control compatible	○	○	○
TUNING			
Autom. Tuning System w. country select.	full automatic sorting	full automatic sorting	full automatic sorting
Manual fine tuning	●	●	●
Direct channel selection	●	●	●
Direct frequency selection	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu	For cable tuning can be done by entering the frequency (MHz) in digital search menu
PAL/SECAM/BG/DK/I/L/L	●	●	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●
DVB reception			
Fully compliant to	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)	EN 300 744 & revised NorDig II spec (regarding DVB-T front end performance)
Automatic/manual channel search	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting	● / ● - ATS type sorting & LCN type sorting
EPG (SI based)	●	●	●
EPG (Electronic Programme Guide)	8 days via DVB-T, DVB-T2, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2	8 days via DVB-T, DVB-C, DVB-S2
- now/next	●	●	●
- scheduled	If broadcasted	If broadcasted	If broadcasted
- Extended Event Info	If broadcasted	If broadcasted	If broadcasted
- Short Event Info	If broadcasted	If broadcasted	If broadcasted
VPS - VBI insertion	PDC based	PDC based	PDC based
Programme table	full automatic sorting	full automatic sorting	full automatic sorting

	48 VLE 5420 BN	48 VLE 5421 BG	HAMBURG 48 CLE 5427 BG
DVB-C Front end			
Input frequency (MHz)	47 - 862 VHF & UHF	47 - 862 VHF & UHF	47 - 862 VHF & UHF
Input level / Impedance	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm	47 - 70dBV / 75 Ohm
Demodulation / Symbol rate Ms/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s	QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0...7,2 Msymbols/s
DVB-S2 Front end			
Input frequency range	950 MHz to 2150 MHz	950 MHz to 2150 MHz	950 MHz to 2150 MHz
Signal level	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)	-25 to -80dBm (Only for DVB-S) -25 to -70dBm (Only for DVB-S2)
Demodulation	QPSK, 8PSK	QPSK, 8PSK	QPSK, 8PSK
Input symbol rate	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2	1 - 45 Msps for DVB-S 5 - 30 Msps for DVB-S2
DiseqC 1.2 support	●	●	●
LNB power & Polarization	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection	13/18V Selection / Vertical 22 KHz generation / Overload Protection
FEC MODE	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10	Auto - QPSK-S: 1/2, 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 QPSK-S2: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10
Unicable	●	●	●
DVB-T Front end			
Input frequency (MHz) / Loop through	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O	177 - 862 VHF & UHF / O
Input level / Impedance	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm	-80 to 20dBm / 75 Ohm
Modulation	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM	COFDM 2/8 QPSK 16/64 QAM
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Activ antenna support	●	●	●
DVB-T2 Front end			
Input frequency range	177 - 862 VHF & UHF	○	○
Input level / Impedance	-75 to -35dBm / 75Ohm	○	○
Modulation	QPSK, 16QAM, 64QAM, 256QAM	○	○
FEC Mode	LDPC + BCH 1/2, 3/5, 2/3, 3/4, 4/5, 5/6	○	○
Activ antenna support	●	○	○
Video Decoder			
MPEG profiles	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0	MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
Resolution	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p	576i, 576p, 720p, 1080i, 1080p
Picture formats	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle	Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
Audio Decoder			
Profiles	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II	MPEG 4, MPEG 2 layer I & II
AC 3 Output	SP/DIF	SP/DIF	SP/DIF
Modes	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo	Mono, Dual Mono, Stereo, Joint Stereo
Software			
Service information processing	Dynamic PMT	Dynamic PMT	Dynamic PMT
DVB subtitles	●	●	●
Over air download (OTA)	DVB enhanced profile	DVB enhanced profile	DVB enhanced profile
Last station memory	from stand-by, as TV	from stand-by, as TV	from stand-by, as TV
Favourite mode	4x free	4x free	4x free
Mute function	●	●	●
USB part			
Recording	●	○ (NJV) / ● (NLE)	●
Divx + HD	●	●	●
Repeat	●	●	●
File browser	●	●	●
Video file resolution (max.)	1920 x 1080	1920 x 1080	1920 x 1080
Supported files	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div	.mp3, .m4a, .aac, .jpg, .jpe, .bmp, .png, .mov, .divx, .mpg, .mpe, .dat, .trp, .ts, .avi, .mp4, .mkv, H264(L4.0), .div
Supported subtitles	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB	SRT, SSA, ASS, SMI, Video SUB
POWER SUPPLY / CABINET			
Power voltage	220-240V	220-240V	220-240V
Range of regulation			
Power frequency	50-60Hz	50-60Hz	50-60Hz
Power switch	Tact switch	Tact switch	Tact switch
Integrated supply	●	●	●
Plug-in AC adaptor	○	○	○
Energy class	A	A	A
Nominal Power Consumption	85W	85W	85W
Stand-by Power Consumption	< 0,5W	< 0,5W	< 0,5W
Annual On-Mode Energy Consumption	124kWh	124kWh	124kWh
Cabinet without stand (WxHxD)	1085 x 652 x 75,5mm	1085 x 652 x 75,5mm	1085 x 652 x 75,5mm
Cabinet with stand (WxHxD)	1085 x 682 x 220mm	1085 x 682 x 220mm	1085 x 682 x 220mm
Weight - Unpacked	ca. 9,3kg	ca. 9,6kg	ca. 9,3kg
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	Full wired	Full wired	Full wired
S-Video	Via Scart	Via Scart	Via Scart
Camera-AV	Via Scart	Via Scart	Via Scart
LAN	○	○	○
YUV input / progressive	via VGA	via VGA	via VGA
PC-input	VGA	VGA	VGA
PC-Audio in	●	●	●
HDMI 1.4 / 2.0	3 / ○	3 / ○	3 / ○
- MHL 2.0	○	○	○
- ARC	○	○	○
- 4k2k	○	○	○
- HD ready including HDCP	via HDMI	via HDMI	via HDMI
Common Interface	(CI+)	(CI+)	(CI+)
Headphones	3.5mm jack	3.5mm jack	3.5mm jack
Digital Audio out optical (SPDIF)	optical	optical	optical
Audio out	via Headphone	via Headphone	via Headphone
USB 2.0 / 3.0	2 / ○	2 / ○	2 / ○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Antenna for satellite reception	1 x F-connector	1 x F-connector	1 x F-connector
DC-connector	○	○	○
Power supply plug	●	●	●
SUPPLIED ACCESSORIES			
Wi-Fi Dongle	○	○	○
Remote control (incl. battery)	TP6 (New)	TP6 (New)	TP6 (New)
3D Glasses	○	○	○
Power cord	●	●	●
Instruction manual	●	●	●
Wall fixture	Prepared for VESA standard adaptor 400 x 200	Prepared for VESA standard adaptor 400 x 200	Prepared for VESA standard adaptor 400 x 200
Stand	●	●	●
Cleaning tissue	○	○	○

AUF EINEN BLICK

Die Anschlüsse des Fernsehgerätes



DC IN	Anschluss für Netzadapter.	PC-IN	Bildsignal-Eingang für PC (VGA); Bildsignal-Eingang (YUV-Signal).
AV1 / S-VHS	Euro/AV-Buchse (FBAS-Signal, RGB-Signal); Bildsignal-Buchse für S-Video-Camerarecorder.	USB2	USB-Buchse für externe Datenträger und PVR-Funktion.
Optic Out	Tonsignal-Ausgang (optisch, PCM/Dolby Digital-Signale). Zum Anschluss digitaler AV-Verstärker oder AV-Receiver.	HDMI3	HDMI-Ton-/Bildsignal-Eingang.
Audio	Tonsignal-Eingang für PC; Tonsignal-Eingang (YUV-Signal)	HDMI2	HDMI-Ton-/Bildsignal-Eingang.

AUF EINEN BLICK

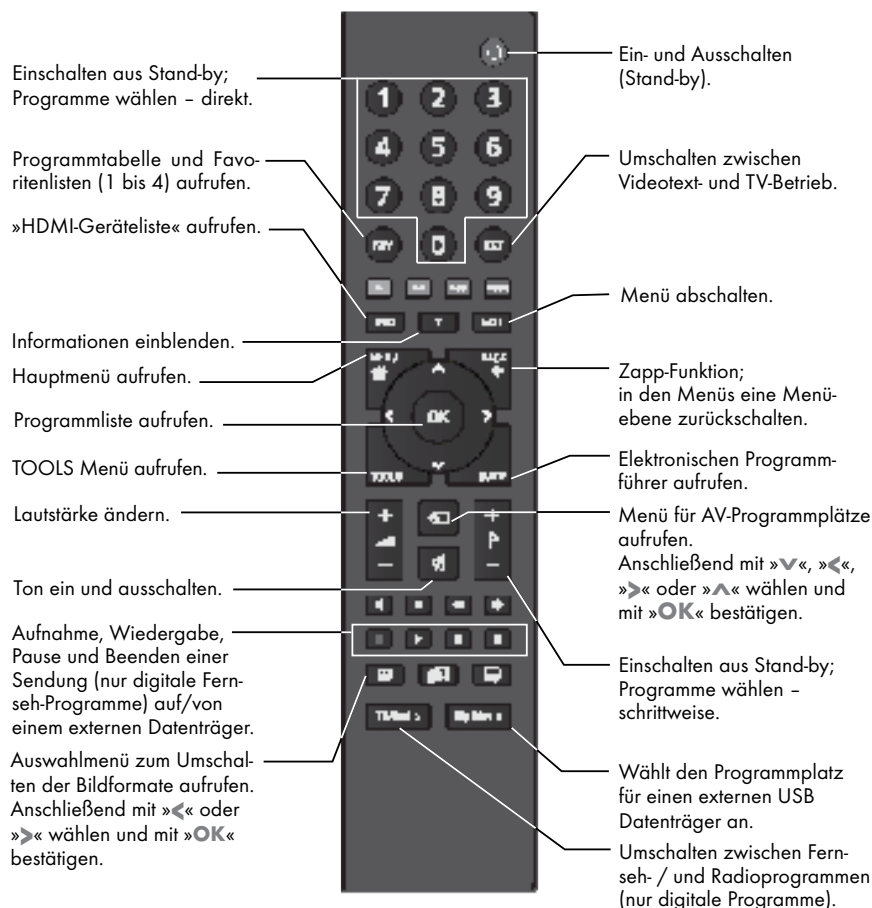
SATELLITE	Antennenbuchse für die Satellitenantenne (DVB-S/S2).
ANT IN	Antennenbuchse für DVB-T, DVB-C und analoge Antenne.
	Kopfhörerbuchse (3,5-mm-Klinkenstecker); Buchse für Tonsignal-Ausgang.
USB1	USB-Buchse für externe Datenträger ohne eigene Stromversorgung und PVR-Funktion.
HDMI1	HDMI-Ton-/Bildsignal-Eingang.
CI	Common Interface-Steckplatz.

Die Bedienelemente des Fernsehgerätes

	Schaltet das Fernsehgerät ein und wieder in Bereitschaft (Stand-by).
-	Lautstärke verringern; Programmwahl abwärts.
V/P	Vorwahltaste für Lautstärke oder Programmwahl. Schaltet das Fernsehgerät aus Stand-by ein.
+	Lautstärke vergrößern; Programmwahl aufwärts.

AUF EINEN BLICK

Die Fernbedienung – Hauptfunktionen



Navigieren in den Menüs



Bewegen den Cursor in den Menüs nach oben und unten.

Bewegen den Cursor in den Menüs nach links und rechts.

Aktiviert verschiedene Funktionen und speichert Funktionen/Einstellungen.

AUF EINEN BLICK

Die Fernbedienung – alle Funktionen

- (rot) Wählen/aktivieren Seiten im Videotext.
- (grün) Wählen/aktivieren unterschiedliche Funktionen in den Menüs.
- (gelb)
- (blau)

- ◀ Schaltet im Videotext auf doppelte Zeichengröße; wählt im Dateimanager den vorherigen Titel/das nächste Bild.
- ▶ Aktualisiert eine Videotextseite; wählt im Dateimanager den nächsten Titel/das vorherige Bild.
- ◀◀ Stoppt das Umblättern von Seiten im Videotext; startet im Dateimanager den schnellen Rücklauf.
- ▶▶ Deckt Antworten im Videotext auf; startet im Dateimanager den schnellen Vorlauf.
- Startet die Aufnahme (nur bei digitalen Fernseh-Programmen, die Aufnahme erfolgt auf einem externen Datenträger).
- ▶ Startet die Wiedergabe einer Sendung vom externen Datenträger; wiederholt eine aufgenommene Sendung; startet die Wiedergabe einer Datei vom Medienserver.



Standbild, wenn kein externer Datenträger angeschlossen ist; Wiedergabe-Pause; Timeshift-Betrieb (nur bei digitalen Fernseh-Programmen und wenn ein externer Datenträger angeschlossen ist); Wiedergabe/Pause beim Abspielen einer Datei vom Medienserver.



Beendet die Wiedergabe einer Sendung vom externen Datenträger; beendet die Aufnahme oder die Wiedergabe im Timeshift-Betrieb. Teilt die Bildanzeige im Videotext; beendet die Wiedergabe einer Datei vom Medienserver.



Wählt unterschiedliche Audiosprachen (nur bei digitalen Fernseh-Programmen).



Wählt unterschiedliche Untertitel (nur bei digitalen Fernseh-Programmen).

KOMFORTFUNKTIONEN

Automatische Abschaltung

Ist diese Funktion aktiviert, schaltet das Fernsehgerät nach 5 Minuten automatisch in Bereitschaft (Stand-by), wenn kein Bildsignal gesendet wird. Das Fernsehgerät wird auch automatisch in Bereitschaft (Stand-by) geschaltet, wenn innerhalb von 4 Stunden keine Taste an der Fernbedienung oder am Fernsehgerät betätigt wird. (Gefordert durch Europäische Richtlinie.)

- 1 Zeile »Autom. Abschaltung« mit »V« oder »^« wählen.
- 2 Gewünschte Ausschaltzeit mit »<« oder »>« eingeben.

Hinweis:

- Funktion abschalten, dazu mit »<« oder »>« die Einstellung »Aus« wählen.

- 3 Einstellung mit »EXIT« beenden.

Jugendschutzeinstellungen Sendungen autorisieren

Es gibt Spielfilme, deren Inhalt oder auch Szenen, die nicht für Kinder geeignet sind.

Diese Sendungen enthalten Informationen, die den Inhalt oder die Szenen markieren und sind mit Zugangslevel von 4 bis 18 versehen. Sie können einen der Zugangslevel wählen und damit die Wiedergabe autorisieren.

- 1 Zeile »Jugendschutz« mit »V« oder »^« wählen und mit »>« bestätigen.
- 2 PIN-Code »1234« mit »1 ... 0« eingeben.
- 3 Zugangslevel mit »<« oder »>« wählen.
- 4 Einstellung mit »EXIT« beenden.

Hinweis:

- Bei der Wiedergabe einer Time-Shift Aufnahme kann es vorkommen, dass ein Zugangslevel eingegeben werden muss. Der Grund hierfür ist, die aktuell aufgezeichnete Sendung im Time-Shift Speicher ist "jugendgeschützt".

Menüs sperren

Mit dieser Funktion können Sie folgende Menüs des Fernsehgerätes sperren: »Automatischer Suchlauf«, »Manuelle Abstimmung-Digital«, »Antenneneinstellung« und »Programmtabelle«. Diese Menüs sind nur durch Eingabe des PIN-Codes zugänglich.

- 1 Zeile »Menü sperren« mit »V« oder »^« wählen.
- 2 PIN-Code »1234« mit »1 ... 0« eingeben.
- 3 Sperre mit »<« oder »>« aktivieren (»Ein«).

Hinweis:

- Menüsperrung abschalten dazu mit »<« oder »>« die Einstellung »Aus« wählen.

- 4 Einstellung mit »EXIT« beenden.

Tasten sperren (Kindersicherung)

Bei aktiver Tastensperre sind die Tasten des Fernsehgerätes ohne Funktion.

- 1 Zeile »Tastensperre« mit »V« oder »^« wählen.
- 2 PIN-Code »1234« mit »1 ... 0« eingeben.

Hinweis – Kindersicherung:

Mit dem PIN-Code **2356** können Sie die Einstellungen ändern.

KOMFORTFUNKTIONEN

- 3 Tastensperre mit »<« oder »>« aktivieren (Ein) oder abschalten (Aus).

- 4 Einstellung mit »EXIT« beenden.

PIN-Code ändern

Sie können statt des Werkscodes »1234« einen persönlichen PIN-Code eingeben. Notieren Sie sich bitte Ihren persönlichen PIN-Code.

- 1 Zeile »PIN ändern« mit »V« oder »^« wählen und mit »OK« bestätigen.
- 2 Aktuellen PIN-Code 1 2 3 4 mit »1 ... 0« eingeben.
- 3 Persönlichen neuen PIN-Code mit »1 ... 0« vierstellig eingeben.
- 4 Persönlichen neuen PIN-Code mit »1 ... 0« noch einmal eingeben.
- 5 Einstellung mit »EXIT« beenden.

Fernseh-Programme sperren

Sie können einzelne Fernseh-Programme mit einem persönlichen PIN-Code sperren, zum Beispiel Programme, die sich nicht für Kinder eignen.

- 1 Menü mit »MENU« aufrufen.
- 2 Menüpunkt »INSTALLATION« mit »V« oder »^« wählen und mit »OK« bestätigen.
- 3 Zeile »Programmtabelle« mit »V« oder »^« wählen und mit »OK« bestätigen.
– Das Menü »PROGRAMMTABELLE« wird eingeblendet.
- 4 Im Menü »PROGRAMMTABELLE« mit »...« (gelb) zur »LISTENVERWALTUNG« umschalten.
- 5 Das zu sperrende Programm mit »V« oder »^« auswählen.
- 6 Mit »<« oder »>« die Spalte »Sperre«, auswählen und das Programm mit »OK« sperren.
- 7 PIN-Code »1234« mit »1 ... 0« eingeben.
– Das Programm wird mit »✓« markiert.

Hinweis:

- Zum Aufheben der Sperre das Programm mit »V« oder »^« wieder auswählen, mit »OK« bestätigen und danach den PIN-Code 1 2 3 4 mit »1 ... 0« eingeben.

- 8 Einstellung mit »EXIT« beenden.

Ein gesperrtes Fernseh-Programm ansehen

Sie können ein durch den PIN-Code gesperrtes Fernseh-Programm freigeben. Die Freigabe bleibt solange bestehen, bis ein anderer Programmplatz ausgewählt wird.

- 1 Das gesperrte Fernseh-Programm mit »1...0« oder »P+«, »P-« anwählen.
- 2 Menü mit »MENU« aufrufen.
- 3 Menüpunkt »EINSTELLUNGEN« mit »V« oder »^« wählen und mit »OK« bestätigen.
- 4 Zeile »Programm freigeben« mit »V« oder »^« wählen und mit »OK« bestätigen.
- 5 PIN-Code »1234« mit »1 ... 0« eingeben.
– Das gesperrte Fernseh-Programm kann jetzt angesehen werden..

Hinweis:

- Das Fernseh-Programm wird nach einem Wechsel des Programmplatzes wieder gesperrt.

KOMFORTFUNKTIONEN

Software aktualisieren

(nur bei digitalen Programmen)

- 1 Im Menü »EINSTELLUNGEN« die Zeile »Nach Updates suchen« mit »V« oder »A« wählen und mit »OK« bestätigen.
– Neue Software wird gesucht und – sofern vorhanden – installiert.

Hinweis:

- Wenn automatisch nach Softwareaktualisierungen gesucht werden soll, die Zeile »Auto-Update« mit »V« oder »A« wählen und mit »◀« oder »▶« die Option »Ein« wählen.
– Die Software wird automatisch aktualisiert, sofern dies möglich ist.

- 2 Einstellung mit »EXIT« beenden.

Fernsehgerät auf die Werkeinstellungen zurücksetzen

Mit dieser Funktion löschen Sie die Programmtabellen und alle persönlichen Einstellungen.

- 1 Im Menü »EINSTELLUNGEN« die Zeile »Werkeinstellungen« mit »V« oder »A« wählen und mit »OK« bestätigen.
- 2 Warnmeldung mit »**« (grün) bestätigen.
– Das Menü »INSTALLATION« wird eingeblendet.
- 3 Einstellungen mit Kapitel »Erstinstallation und Fernseh-Programme einstellen« auf Seite 14 fortsetzen.

Signalinformationen anzeigen

(nur bei digitalen Programmen)

- 1 Menü mit »MENU« aufrufen.
- 2 Menüpunkt »INSTALLATION« mit »V« oder »A« wählen und mit »OK« bestätigen.
- 3 Zeile »Signalinformation« mit »V« oder »A« wählen und mit »OK« bestätigen.
– Informationen zu Programm, Netzwerk, Modulation, Symbolrate, Qualität und Signalstärke werden angezeigt.

Hinweise:

- Die Signalinformation wechselt je nach aktueller Signalquelle.
- Im unteren Bereich des Menüs werden die Signaleigenschaften dargestellt. Je weiter die Balken für »Qualität« und »Signalstärke« nach rechts ausschlagen, desto besser ist das empfangene Signal.
- Der Signalpegel hängt nicht nur von Ihrer Empfangsanlage, sondern auch von dem gerade aktiven Kanal ab. Beachten Sie dies, wenn Sie anhand der Signalstärkeanzeige die Ausrichtung Ihrer Antenne kontrollieren!

- 4 Menü mit »EXIT« abschalten.

BETRIEB MIT EXTERNEN GERÄTEN

DIGI LINK



Ihr Fernsehgerät ist mit der DIGI LINK-Funktion ausgestattet.

Diese Funktion verwendet das CEC (Consumer Electronics Control) Protokoll.

CEC ermöglicht, externe Geräte, die mit einem HDMI-Kabel an die Buchsen »HDMI« angeschlossen sind (z. B. DVD-Player), mit einer Fernbedienung zu steuern.

Voraussetzung ist, die angeschlossenen Geräte unterstützen CEC. Lesen Sie in der Bedienungsanleitung des externen Gerätes nach, wie die entsprechenden Funktionen hier aktiviert werden.

Die DIGI LINK-Funktionen Ihres Fernsehgerätes

Automatisches Einschalten des Fernsehgerätes aus Stand-by

Wenn das externe Gerät (z. B. ein Blu-ray Player) eingeschaltet wird, schaltet sich damit auch das Fernsehgerät ein und der passende HDMI-Programmplatz wird automatisch gewählt.

Abhängig von der Ausstattung des externen Gerätes kann aber auch nur das externe Gerät (z. B. AV Receiver) eingeschaltet werden, das Fernsehgerät bleibt in Stand-by.

Automatische Wahl des HDMI-Programmplatzes am Fernsehgerät

Wenn Ihr Fernsehgerät eingeschaltet ist und Sie schalten danach das externe Geräte (z. B. einen DVD-Player) ein, wird der passende HDMI-Programmplatz am Fernsehgerät gewählt.

Menüsprache wählen

Am externen Gerät (z. B. DVD-Player) wird automatisch die Menüsprache des Fernsehgerätes eingestellt.

Das externe Gerät muss diese Funktion unterstützen.

Automatisches Abschalten des externen Gerätes

Wenn Sie Ihr Fernsehgerät in den Bereitschaftsmodus schalten, wird auch das externe Gerät (sofern eingeschaltet) in den Bereitschaftsmodus versetzt.

DIGI LINK ist bei Ihrem Fernsehgerät grundsätzlich aktiv.

Externe Geräte suchen und aktivieren

Sie können bis zu 11 Geräte mit DIGI LINK-Funktionen an Ihr Fernsehgerät anschließen.

- 1 Menü mit »TOOLS« aufrufen.
- 2 Zeile »CEC« mit »V« oder »A« wählen und mit »OK« bestätigen.
– Die »HDMI-Geräteliste« wird eingeblendet.
- 2 Gerätesuche mit »*« (rot) starten.
– Die gefundene Geräte werden im Menü angezeigt.
- 3 Das zu steuernde Gerät mit »V«, »A«, »◀« oder »▶« wählen und mit »OK« markieren.
– Wenn das ausgewählte Gerät an einen anderen als den aktuellen Eingang angeschlossen ist, wird automatisch zum jeweiligen Eingang umgeschaltet.
- 4 Einstellung mit »EXIT« beenden.

BETRIEB MIT EXTERNEN GERÄTEN

Gerätesteuerung

Sie können festlegen, ob externe Geräte auch auf die Fernbedienung Ihres Fernsehgerätes reagieren sollen.

- 1 »« drücken, mit »V«, »A«, »<« oder »>« den Programmplatz »HDMI1« bis »HDMI3« wählen und mit »OK« bestätigen.
- 2 Menü mit »MENU« aufrufen.
- 3 Menüpunkt »INSTALLATION« mit »V« oder »A« wählen und mit »OK« bestätigen.
– Das Menü »INSTALLATION« wird eingeblendet.



- 4 Die Zeile »Fernbedienung« mit »V« oder »A« wählen.
- 5 Die Steuerungsart (»FB-Durchleitung«, »Deck« oder »Tuner« mit »<« oder »>« wählen.

Hinweise:

- »FB-Durchleitung« kann für sämtliche Geräte eingesetzt werden.
»Deck« und »Tuner« können je nach angeschlossenem externem Gerät ausgewählt werden.
- Probieren Sie aus, bei welcher Steuerungsart das externe Gerät am besten auf die Fernbedienung reagiert.

- Den Funktionsumfang des DIGILINK-kompatiblen Gerätes finden Sie in der Bedienungsanleitung des externen Gerätes.

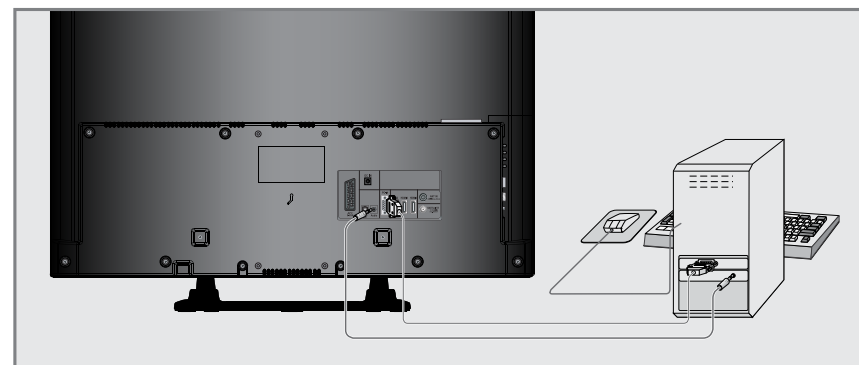
- 6 Einstellung mit »EXIT« beenden.

Gerät in den Bereitschaftsmodus schalten

Diese Option schaltet das externe Gerät in den Bereitschaftsmodus.

- 1 »« drücken, mit »V«, »A«, »<« oder »>« den Programmplatz »HDMI1« bis »HDMI3« wählen und mit »OK« bestätigen.
- 2 Menü mit »MENU« aufrufen.
- 3 Menüpunkt »INSTALLATION« mit »V« oder »A« wählen und mit »OK« bestätigen.
– Das Menü »INSTALLATION« wird eingeblendet.
- 4 Zeile »Bereitschaft« mit »V« oder »A« und mit »OK« bestätigen.
– Das externe Gerät schaltet sich ab.

BETRIEB ALS PC-MONITOR



PC anschließen

- 1 Buchse »PC-IN« des Fernsehgerätes und die entsprechende Buchse des PCs mit einem VGA Kabel verbinden (Bildsignal).
- 2 Buchse »Audio« des Fernsehgerätes und die entsprechenden Buchse des PCs mit geeignetem Kabel verbinden (Tonsignal).

Hinweis:

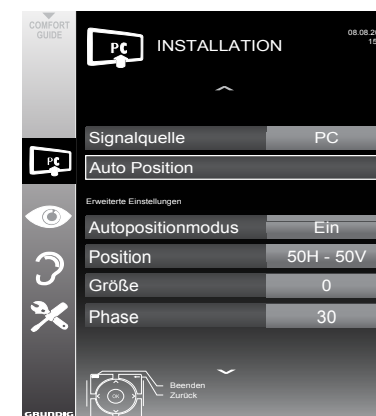
- Passen Sie bitte Ihren PC an den Monitor an (Bildschirmauflösung z.B. 1280 x 768, Bildfrequenz z.B. 60 Hz).

Programmplatz für den PC anwählen

- 1 »« drücken, mit »V«, »A«, »<« oder »>« den Programmplatz »PC« wählen und mit »OK« bestätigen.

Einstellungen zum PC-Betrieb

- 1 Menü mit »MENU« aufrufen.
- 2 Menüpunkt »INSTALLATION« mit »V« oder »A« wählen und mit »OK« bestätigen.
– Das Menü »INSTALLATION« wird eingeblendet.
- 3 Gewünschte Funktion oder Einstellung mit »V« oder »A« wählen, anschließend mit »V«, »A« oder »<«, »>« ausführen.



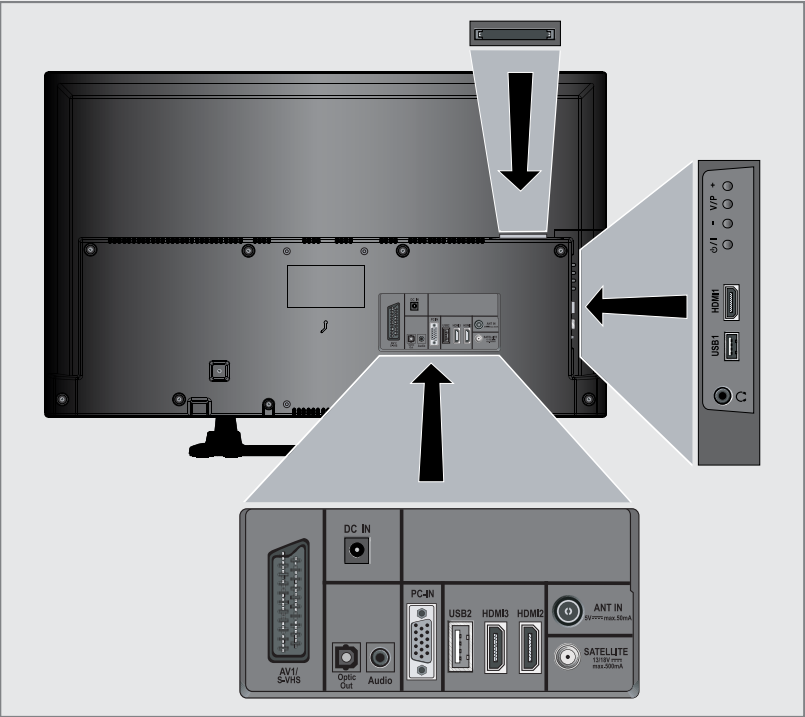
Die Möglichkeiten:

- »Auto Position«, zur automatischen Anpassung an den PC.
- »Autopositionsmodus«, die Option »Ein«, wählen, wenn die Anpassungen im PC-Modus automatisch ausgeführt werden sollen.
- »Position«, zum Anpassen der horizontalen und vertikalen Bildposition.
- »Größe«, zum Einstellen der Taktfrequenz.
- »Phase«, zum Beseitigen von Flackern, unscharfer Darstellung und horizontal störenden Linien.

- 4 Einstellung mit »EXIT« beenden.

OVERVIEW

Connections on the television set



- DC IN

Socket for power adapter.
- AV1 / S-VHS

SCART socket (CVBS signal, RGB signal); Video and sound socket for S-Video camcorder.
- Optic Out

Socket for audio output (optical) for PCM/AC3 signals.
For connecting digital AV amplifiers or AV receivers.
- Audio

Socket for audio input for a PC;
Sockets for audio input (YUV signal).
- PC-IN

VGA socket, video input for PC;
Sockets for video input (YUV signal).
- USB2

USB socket for external data media and PVR function.
- HDMI3

HDMI socket, audio/video input.
- HDMI2

HDMI socket, audio/video input.

OVERVIEW

- SATELLITE

Antenna socket for the satellite antenna (DVB-S/ S2).
- ANT IN

Antenna socket for a DVB-T, DVB-C and analogue antenna.
- Headphone

Headphone jack (3.5 mm jack plug);
Sockets for audio output.
- USB1

USB socket for external data media without a power supply of their own and PVR function.
- HDMI1

HDMI socket, audio/video input.
- CI

Common Interface Slot.
- Controls on the television set

⏻/I

Switches the television on and back into standby mode.

-

Adjusts the volume;
Selects channels in steps.

V / P

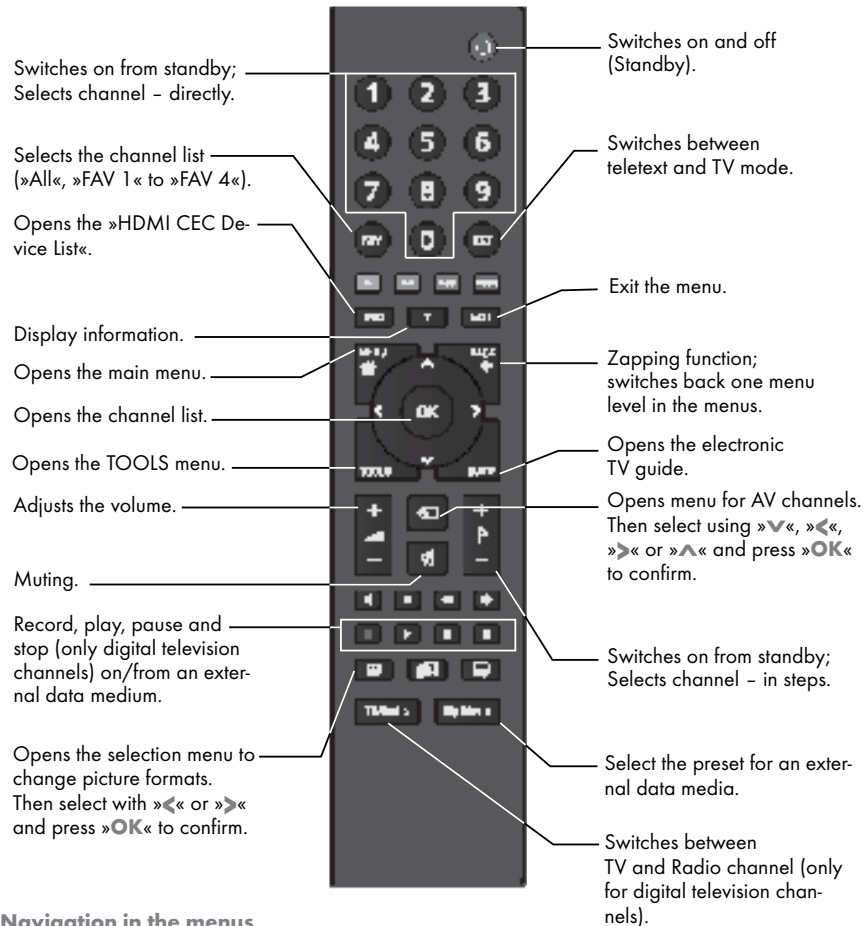
Pre-selection for volume or channel selection.
Switches the television on from standby.

+

Adjusts the volume;
Selects channels in steps.

OVERVIEW

The remote control – Main functions



Navigation in the menus



- Moves the cursor up and down in the menus.
- Moves the cursor to the left and right in the menus.
- Activates various functions and save functions/settings.

OVERVIEW

The remote control – All functions

- (red) Selects pages in teletext;
- (green) Selects/activates various functions in the menus.
- (yellow)
- (blue)

- ◀ Switches to double character size in teletext;
selects the previous title/previous picture in the file browser.
- ▶ Refreshes a teletext page;
selects the next track/next picture in the file browser.
- ◀◀ Stops scrolling through pages in teletext;
starts a fast reverse search in the file browser.
- ▶▶ Reveals answers in teletext;
starts a fast forward search in the file browser.
- Starts the recording (only for digital television channels, the recording is made on an external data medium).
- ▶ Starts playing a programme from an external data medium;
repeats a recorded programme.



Freeze frame, if no external data medium is connected;
playback pause;
time shift mode (only for digital television channels and when an external data medium is connected).



Ends playback of a programme from an external data medium;
ends a recording or playback in time shift mode;
splits the screen in teletext.



Selects different audio languages (only for digital television channels).



Selects different subtitles (only for digital television channels).

CONVENIENCE FUNCTIONS

- Select the line »Volume« with »V« or »A« and use »◀« or »▶« to set the volume.
- Select the line »Set Hour« with »V« or »A« and enter the time with »1...0«.
- Save the data with »*« (green).

Note:

- You can abort the entry by pressing »*« (red).

- Press »EXIT« to end the setting.

Switch-off timer

In the »Auto Off« menu, you can enter a time for the television to switch off. After this time has elapsed, the television switches to standby mode.

- Select the line »Auto Off« with »V« or »A« and press »OK« to confirm.
- Select the line »Mode« with »V« or »A« and use »◀« or »▶« to set the preferred mode.
- Select the line »Set Hour« with »V« or »A« and enter the time with »1...0«.
- Save the data with »*« (green).

Note:

- You can abort the entry by pressing »*« (red).

- Press »EXIT« to end the setting.

Automatic switch-off (Auto Sleep)

If this function is activated, the television switches automatically to standby after 5 minutes if no video signal is broadcast or in accordance with the according to European regulations, the television switches automatically to standby after 4 hours provided that none of the buttons on the remote control or on the television is operated during this period.

- Select the line »Auto Sleep« with »V« or »A«.
- Enter the switch-off time with »◀« or »▶«.

Note:

- To switch off the function, use »◀« or »▶« to select the setting »Off«.

Note – Parental control:

Instead of the PIN Code **2356**, you can enter a new personal code.

Parental control settings

Authorising programmes

There are films which may be wholly or partially unsuitable for children.

These programmes contain information which marks the content or scenes with access levels of 4 to 18. You can select one of the access levels, thereby authorising playback.

- Select the line »Parental Guidance« with »V« or »A« and press »OK« to confirm.
- Enter the PIN code »1234« with »1 ... 0«.
- Select the access level with »◀« or »▶«.
- Press »EXIT« to end the setting.

Note:

- When the TV is in review buffer mode, the parental rating of the program in the live broadcast is applied on the content being watched (rather than the actual parental rating of the content being watched). As a result, a parental rated content being watched in the review buffer mode will not necessarily show as parental rated and vice versa. This means that if parental rated program starts in live broadcast the PIN-pop up message will appear in review buffer, or the PIN-pop up message will be dismissed in review buffer as soon as a program without parental rating starts in live broadcast."

Locking menus

This function allows you to lock the »Automatic Channel Search«, »Digital Manual Tuning«, »Analogue Manual Tuning« and »Program Table« menus so that they can be only accessed by entering a PIN code.

- Select »Menu Lock« with »V« or »A«.
- Enter the PIN code »1234« with »1 ... 0«.
- Activate the lock with »◀« or »▶« (»On«).

Note:

- To switch off the menu lock, use »◀« or »▶« to select the setting (»Off«).

- Press »EXIT« to end the setting.

CONVENIENCE FUNCTIONS

Locking keys (Parental lock)

When the key lock is activated, the buttons on the television set do not function.

- Select the line »Keypad Lock« with »V« or »A«.
- Enter the PIN code »1234« with »1 ... 0«.
- Activate (On) or deactivate (Off) the key lock with »◀« or »▶«.
- Press »EXIT« to end the setting.

Changing the PIN code

You can also enter a personal PIN code instead of the default code »1234«. Please take note of your own PIN code.

- Select »Set PIN« with »V« or »A« and press »OK« to confirm.
- Enter the current PIN code 1 2 3 4 with »1 ... 0«.
- Enter your new four digit PIN code with »1 ... 0«.
- Enter your new four digit PIN code with »1 ... 0« again.
- Press »EXIT« to end the setting.

Locking television channels

You can lock individual television channels, for example channels unsuitable for children, using a personal PIN code.

- Open the menu with »MENU«.
- Select the menu item »SOURCE SETUP« with »V« or »A« and press »OK« to confirm.
- Select the line »Program Table« with »V« or »A« and press »OK« to confirm.
– The »PROGRAM TABLE« menu is displayed.
- In the »PROGRAM TABLE« menu, switch over to the list view with »...« (yellow).
- Select the channel to be locked with »V« or »A«.
- Select the column »Lock« with »◀« or »▶« and press »OK« to lock the channel.
- Enter the PIN code »1234« with »1 ... 0«.
– The channel is marked using »✓«.

Note:

- To remove the lock, select the channel again with »V« or »A«, press »OK« to confirm and then enter the PIN code 1 2 3 4 using »1 ... 0«.

- Press »EXIT« to end the setting.

Watching a blocked television channel

You can watch a TV channel blocked with PIN code by selecting the TV channel and entering the PIN code.

- Select the blocked channel with »1...0« or »P+«, »P-«.
- Open the menu with »MENU«.
- Select the menu item »SETTINGS« with »V« or »A« and press »OK« to confirm.
- Select the line »Open Channel Lock« with »V« or »A« and press »OK« to confirm.
- Enter PIN code »1234« with »1 ... 0« buttons on the displayed password screen.
– Blocked channel can be viewed.

Note:

- Channel will be blocked again when you change the channel.

CONVENIENCE FUNCTIONS

Updating software

(for digital channels only)

- 1 In the »SETTINGS« menu, select the line »Check For Updates updates« with »V« or »^« and press »OK« to confirm.
– A search for new software will be made and – if available – it will be installed.

Note:

- If a search for software updates should be made automatically, select the line »Automatic OAD« with »V« or »^« and use »<« or »>« to select the option »On«.
- The software will be updated automatically as far as possible.

- 2 Press »EXIT« to end the setting.

Restoring the television to the default settings

This function allows you to delete the channel lists and all custom settings.

- 1 In the »SETTINGS« menu, select the line »Restore Factory Defaults« with »V« or »^« and press »OK« to confirm.
- 2 Press »**« (green) to confirm the warning message.
– The »Source Setup« menu appears.
- 3 Continue the settings with the chapter "Initial set-up and tuning television channels" on page 14.

Displaying signal information

(for digital channels only)

- 1 Open the menu with »MENU«.
- 2 Select the menu item »SOURCE SETUP« with »V« or »^« and press »OK« to confirm.
- 3 Select the line »Signal Information« with »V« or »^« and press »OK« to confirm.
– Information on the channel, network, modulation, symbol rate, quality and signal strength is displayed.

Notes:

- The signal information changes in accordance with the current input source.
- The signal properties are displayed in the lower section of the menu. The further the bars for »Quality« and »Signal Strength« extend to the right, the better the reception signal.
- The signal level not only depends on your receiver system, but also on the channel which is currently active. Remember this when aligning your antenna based upon the signal level display.

- 4 Press »EXIT« to close the menu.

OPERATION USING EXTERNAL DEVICES

DIGI LINK



Your television is equipped with the DIGI LINK function.

This function uses the CEC (Consumer Electronics Control) protocol.

CEC allows external devices which are connected to the »HDMI« sockets by an HDMI cable (e.g. DVD player) to be operated with a remote control.

Prerequisite is that the devices connected support CEC. Read the operating manual for the external device to find out how to activate the corresponding function.

The DIGI LINK functions on your television

Switching on the television automatically from standby

If the external device (e.g. Blu-ray player) is switched on, the television also switches on and the appropriate HDMI preset is selected automatically.

Depending on the features of the external device, the external device (e.g. AV receiver) can be switched on alone, the television stays in standby.

Automatic selection of the HDMI preset on the television

If your television is switched on and you then switch on the external device (e.g. DVD player), the appropriate HDMI preset on the television will be selected.

Selecting the menu language

The television menu language is automatically selected on the external device (e.g. DVD player). The external device must support this function.

Switching off the external device automatically

If you switch your television to standby, the external device (if it is switched on) will also be switched to standby.

DIGI LINK is always active on your television set.

Searching for and activating external devices

You can connect up to 11 devices with DIGI LINK functions to your television.

- 1 Open the Tools menu with »TOOLS«.
- 2 Select the menu item »CEC« with »V« or »^« and press »OK« to confirm.
– The »HDMI CEC Device List« appears.
- 3 Start the device search with »*« (red).
– The devices found are displayed in the menu.
- 4 Select the device for operation with »V«, »^«, »<« or »>« and press »OK« to mark it.
– If the selected device is connected to a different input to the current one, a switch to the respective input will occur automatically.
- 5 Press »EXIT« to end the setting.

OPERATION USING EXTERNAL DEVICES

Device operation

You can decide whether external devices should react to your television's remote control.

- 1 Press **»→«**, use **»V«**, **»^«**, **»<«** or **»>«** to select the preset **»HDMI1«** to **»HDMI3«** and press **»OK«** to confirm.
- 2 Open the menu with **»MENU«**.
- 3 Select the menu item **»SOURCE SETUP«** with **»V«** or **»^«** and press **»OK«** to confirm.
– The **»SOURCE SETUP«** menu appears.



- 4 Select the line **»Remote Control«** with **»V«** or **»^«**.
- 5 Select the type of operation (**»RC Passthrough«**, **»Deck«** or **»Tuner«**) with **»<«** or **»>«**.

Notes:

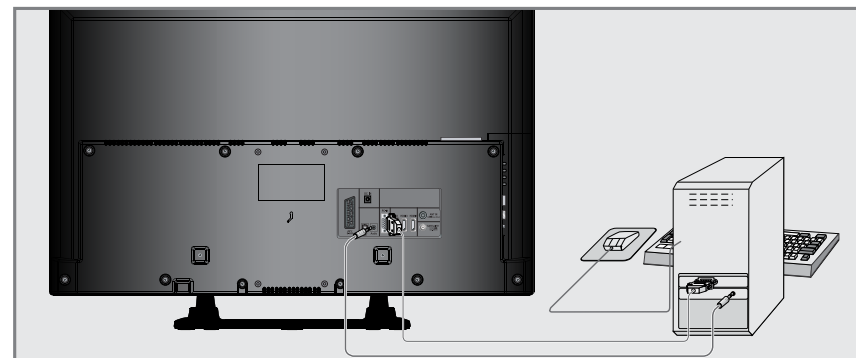
- **»RC Passthrough«** can be used for all devices. **»Deck«** and **»Tuner«** can be selected in accordance with the external device which has been connected.
 - Try out which type of remote control operation the external device reacts to the best.
 - Read about the scope of functions of the DIGILINK-compatible device in the respective operating manual.
- 6 Press **»EXIT«** to end the setting.

Switching the device to standby

This option switches the external device to standby.

- 1 Press **»→«**, use **»V«**, **»^«**, **»<«** or **»>«** to select the preset **»HDMI1«** to **»HDMI3«** and press **»OK«** to confirm.
- 2 Open the menu with **»MENU«**.
- 3 Select the menu item **»SOURCE SETUP«** with **»V«** or **»^«** and press **»OK«** to confirm.
– The **»SOURCE SETUP«** menu appears.
- 4 Select **»Device Standby«** with **»V«** or **»^«** and press **»OK«** to confirm.
– The external device switches itself off.

OPERATION AS A PC MONITOR



Connecting a PC

- 1 Connect the **»PC-IN«** socket on the television to the corresponding socket on the PC using a VGA cable (video signal).
- 2 Connect the **»Audio«** socket on the television to the corresponding socket on the PC using a suitable cable (audio signal).

Note:

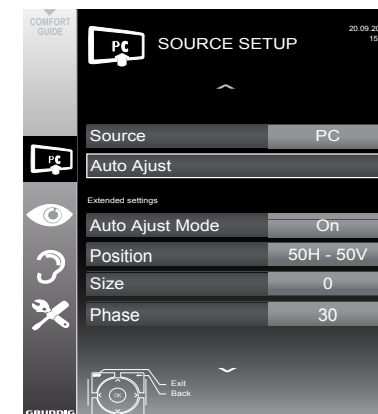
- Adjust your PC to the monitor (for example, picture resolution 1280 x 768, picture frequency 60 Hz).

Selecting presets for the PC

- 1 Press **»→«** and use **»V«**, **»^«**, **»<«** or **»>«** to select the preset **»PC«** and press **»OK«** to confirm.

Settings for PC mode

- 1 Open the menu with **»MENU«**.
- 2 Select the line **»SOURCE SETUP«** item with **»V«** or **»^«** and press **»OK«** to confirm.
– The **»SOURCE SETUP«** menu appears.
- 3 Select the function or setting with **»V«** or **»^«**, and then use **»V«**, **»^«** or **»<«**, **»>«** to implement it.



Options:

- **»Auto Ajust«** for automatic PC configuration.
- **»Auto Ajust Mode«**, select the option **»On«** if the configuration should be implemented automatically in PC mode.
- **»Position«** to configure the horizontal and vertical picture position.
- **»Size«** to set the cycle frequency.
- **»Phase«** to eliminate flicker, unfocused pictures or horizontal interference.

- 4 Press **»EXIT«** to end the setting.

Service- und Sonderfunktionen

Tastenfunktionen

MENU	Aufrufen/Beenden des COMFORT GUIDE / Beenden des Service Mode
^ v	Menü-Zeile (Menüpunkt) wählen
OK	Aufrufen der Menüs
< >	Wert ändern
←	Untermenü: Zurück zum Hauptmenü

Service-Mode aktivieren

- Taste **MENU** drücken.
- Zahlenfolge **8500** eingeben.

Service-Mode beenden

- Taste **MENU** drücken.

1. Grundeinstellwerte

Service and Special Functions

Functions of the buttons

MENU	Call up/exit the COMFORT GUIDE / exit the Service Mode
^ v	Call up the dialogue line (point of menu)
OK	Call up the Menus
< >	Changing the settings
←	Submenu: Back to main menu

Calling up the Service Mode

- Press button **MENU**.
- Enter the code number **8500**.

Exit the Service Mode

- Press button **MENU**.

1. Basic Settings

Menü Menu ^ v	Menüpunkt Point of Menu OK	Einstellung Adjustment < >	22 VLE 521 BG	22 VLE 521 SG	22 VLE 4400 BM	22 VLE 4400 WM	22 VLE 4421 BF	22 VLE 4520 BF	22 VLE 5400 BN	22 VLE 5421 BG	22 VLE 5421 SG	22 VLE 5421 WG (NJq)
System Configuration	TV Mode	Customer Factory	X	X	X	X	X	X	X	X	X	X
	HDCP Verify		prüft HDCP im EEPROM / verifies HDCP in EEPROM									
	Debug Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Plug Play	On	ATS Reset: Netz ein → Automatischer Sendersuchlauf / Power on → automatic programme search									
		Off	X	X	X	X	X	X	X	X	X	X
	Blue Back	On/Off	On	On	On	On	On	On	On	On	On	On
	Hotel	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	CI Key Verify		prüft CI Key / verifies CI Key									
Source Configuration Code 2356	Panel Energy Class	A...D, Default	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A
	Uart Enable	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	ATV	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Air	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Cable	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Satellite	Avail/Navail	Avail	Avail	Navail	Navail	Navail	Navail	Avail	Avail	Avail	Avail
	USB	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	PC	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI1	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI2	Avail/Navail	Navail	Navail	Navail	Navail	Avail	Avail	Navail	Navail	Navail	Navail
	HDMI3	Avail/Navail	Avail	Avail	Avail	Avail	Navail	Navail	Avail	Avail	Avail	Avail
	HDMI4	Avail/Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail
	AV1 (Scart)	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	AV2 (Cinch-AV)	Avail/Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail
TV Configuration Code 2356	Component	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	S-VHS (Hosiden/Scart)	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	OSD Selection	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig
	GRFSet1/USB Recording	On/Off	Off	Off	On	On	Off	Off	On	Off	Off	Off
	Remote Control		Fernbedienung wählen / Select used remote control									
	Keypad	6 Button + 1 STD, 3 Button + 1 STD, 1 STD, Joystick	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD
	MEMC	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	7 Segment Display	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Eco TV	On/Off	On	On	On	On	On	On	On	On	On	On
	Line Out	On/Off	On	On	On	On	On	On	On	On	On	On
	Headphone	STA/HP Off/EXT	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA
	Shop Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	CEC	On/Off	On	On	On	On	On	On	On	On	On	On
	Speaker Output Power	3/5/7/10/15W @8ohm/16ohm	15W @16ohm	15W @16ohm	15W @16ohm	15W @16ohm	15W @16ohm	15W @16ohm	15W @16ohm	15W @16ohm	15W @16ohm	15W @16ohm
	Subwoofer Output Power	10W @8ohm, Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Hidev Mono	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Optic Out	On/Off	On	On	On	On	Off	Off	On	On	On	On
	Sports Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	EPG Padding Time	On/Off	Off	Off	On	On	Off	Off	On	Off	Off	Off
	GRFSet2	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	BMSled	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Recovery Mode	On/Off	On	On	On	On	On	On	On	On	On	On
	Turksat Fast	On/Off	On	On	On	On	On	On	On	On	On	On
	Fransat	On/Off	On	On	On	On	On	On	On	On	On	On
	YPBPR Setting	VGA/Component	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA
	Amp Selection	TAS/STA	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS
	Hotel Logo	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	HDMI3 to HDMI2 Change	On/Off	On	On	On	On	Off	Off	On	On	On	On

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Menü Menü ^ v	Menüpunkt Point of Menu OK	Einstellung Adjustment < >	22 VLE 5421 WG (NPJ)	22 VLE 5520 SG	22 VLE 5520 WG	28 VLE 4400 BM	28 VLE 4401 BF	28 VLE 4500 BF	28 VLE 5401 BG	28 VLE 5401 SG	28 VLE 5401 WG (NJT)	28 VLE 5401 WG (NPV)
System Configuration	TV Mode	Customer Factory	X	X	X	X	X	X	X	X	X	X
	HDCP Verify		prüft HDCP im EEPROM / verifies HDCP in EEPROM									
	Debug Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Plug Play	On	ATS Reset: Netz ein -> Automatischer Sendersuchlauf / Power on -> automatic programme search									
	Blue Back	On/Off	On	On	On	On	On	On	On	On	On	On
	Hotel	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	CI Key Verify		prüft CI Key / verifies CI Key									
	Panel Energy Class	A...D, Default	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A
	Uart Enable	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Source Configuration Code 2356	ATV	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Air	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Cable	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Satellite	Avail/Navail	Avail	Avail	Avail	Navail	Navail	Navail	Avail	Avail	Avail	Avail
	USB	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	PC	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI1	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI2	Avail/Navail	Navail	Navail	Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI3	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI4	Avail/Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail
	AV1 (Scart)	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	AV2 (Cinch-AV)	Avail/Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail
	Component	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
TV Configuration Code 2356	S-VHS (Hosiden/Scart)	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	OSD Selection	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig
	GRFSet1/USB Recording	On/Off	On	Off	Off	On	Off	Off	Off	Off	Off	On
	Remote Control		Fernbedienung wählen / Select used remote control									
	Keypad	6 Button + 1 STD, 3 Button + 1 STD, 1 STD, Joystick	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD
	MEMC	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	7 Segment Display	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Eco TV	On/Off	On	On	On	On	On	On	On	On	On	On
	Line Out	On/Off	On	On	On	On	On	On	On	On	On	On
	Headphone	STA/HP Off/EXT	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA
	Shop Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	CEC	On/Off	On	On	On	On	On	On	On	On	On	On
	Speaker Output Power	3/5/7/10/15W @8ohm/16ohm	15W @16ohm	15W @16ohm	15W @16ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm
	Subwoofer Output Power	10W @8ohm, Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Hidev Mono	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Optic Out	On/Off	On	On	On	On	On	On	On	On	On	On
	Sports Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	EPG Padding Time	On/Off	On	Off	Off	On	Off	Off	Off	Off	Off	On
	GRFSet2	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	BMSled	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Recovery Mode	On/Off	On	On	On	On	On	On	On	On	On	On
	Turksat Fast	On/Off	On	On	On	On	On	On	On	On	On	On
	Fransat	On/Off	On	On	On	On	On	On	On	On	On	On
	YPBPR Setting	VGA/Component	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA
	Amp Selection	TAS/STA	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS
	Hotel Logo	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	HDMI3 to HDMI2 Change	On/Off	On	On	On	Off	Off	Off	Off	Off	Off	Off

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All other menus are programmed by the software of the set and must not be adjusted.

Menü Menu ^ v	Menüpunkt Point of Menu OK	Einstellung Adjustment < >	28 VLE 5500 BG (MLV)	28 VLE 5500 BG (MPH)	28 VLE 5500 SG	28 VLE 5500 WG	32 VLE 555 BG	32 VLE 685 BG	32 VLE 4400 BM	32 VLE 4401 BF	32 VLE 5400 BN
System Configuration	TV Mode	Customer Factory	X	X	X	X	X	X	X	X	X
	HDCP Verify		prüft HDCP im EEPROM / verifies HDCP in EEPROM								
	Debug Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Plug Play	On	ATS Reset: Netz ein -> Automatischer Sendersuchlauf / Power on -> automatic programme search								
	Blue Back	On/Off	On	On	On	On	On	On	On	On	On
	Hotel	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	CI Key Verify		prüft CI Key / verifies CI Key								
	Panel Energy Class	A...D, Default	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A
	Uart Enable	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Source Configuration Code 2356	ATV	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Air	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Cable	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Satellite	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Navail	Navail	Avail
	USB	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	PC	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI1	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI2	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI3	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI4	Avail/Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail
	AV1 (Scart)	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	AV2 (Cinch-AV)	Avail/Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail
	Component	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
TV Configuration Code 2356	S-VHS (Hosiden/Scart)	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	OSD Selection	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig
	GRFSet1/USB Recording	On/Off	Off	On	Off	Off	Off	Off	On	Off	On
	Remote Control		Fernbedienung wählen / Select used remote control								
	Keypad	6 Button + 1 STD, 3 Button + 1 STD, 1 STD, Joystick	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD
	MEMC	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	7 Segment Display	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Eco TV	On/Off	On	On	On	On	On	On	On	On	On
	Line Out	On/Off	On	On	On	On	On	On	On	On	On
	Headphone	STA/HP Off/EXT	STA	STA	STA	STA	STA	STA	STA	STA	STA
	Shop Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	CEC	On/Off	On	On	On	On	On	On	On	On	On
	Speaker Output Power	3/5/7/10/15W @8ohm/16ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm
	Subwoofer Output Power	10W @8ohm, Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Hidev Mono	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Optic Out	On/Off	On	On	On	On	On	On	On	On	On
	Sports Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	EPG Padding Time	On/Off	Off	On	Off	Off	Off	Off	On	Off	On
	GRFSet2	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	BMSled	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Recovery Mode	On/Off	On	On	On	On	On	On	On	On	On
	Turksat Fast	On/Off	On	On	On	On	On	On	On	On	On
	Fransat	On/Off	On	On	On	On	On	On	On	On	On
	YPBPR Setting	VGA/Component	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA
	Amp Selection	TAS/STA	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS
	Hotel Logo	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	HDMI3 to HDMI2 Change	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off

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Menü Menu ^ v	Menüpunkt Point of Menu OK	Einstellung Adjustment < >	32 VLE 5401 BG	32 VLE 5401 WG	32 VLE 5405 SG	32 VLE 5405 WG	32 VLE 5406 BG	40 VLE 521 BG	40 VLE 555 BG	40 VLE 685 BG	40 VLE 4420 BM
System Configuration	TV Mode	Customer Factory	X	X	X	X	X	X	X	X	X
	HDCP Verify		prüft HDCP im EEPROM / verifies HDCP in EEPROM								
	Debug Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Plug Play	On	ATS Reset: Netz ein -> Automatischer Sendersuchlauf / Power on -> automatic programme search								
	Blue Back	On/Off	On	On	On	On	On	On	On	On	On
	Hotel	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	CI Key Verify		prüft CI Key / verifies CI Key								
	Panel Energy Class	A...D, Default	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A
	Uart Enable	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Source Configuration Code 2356	ATV	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Air	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Cable	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Satellite	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Navail
	USB	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	PC	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI1	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI2	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI3	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI4	Avail/Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail
	AV1 (Scart)	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	AV2 (Cinch-AV)	Avail/Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail
	Component	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
TV Configuration Code 2356	S-VHS (Hosiden/Scart)	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	OSD Selection	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig
	GRFSet1/USB Recording	On/Off	Off	On	Off	Off	Off	Off	Off	Off	On
	Remote Control		Fernbedienung wählen / Select used remote control								
	Keypad	6 Button + 1 STD, 3 Button + 1 STD, 1 STD, Joystick	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD
	MEMC	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	7 Segment Display	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Eco TV	On/Off	On	On	On	On	On	On	On	On	On
	Line Out	On/Off	On	On	On	On	On	On	On	On	On
	Headphone	STA/HP Off/EXT	STA	STA	STA	STA	STA	STA	STA	STA	STA
	Shop Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	CEC	On/Off	On	On	On	On	On	On	On	On	On
	Speaker Output Power	3/5/7/10/15W @8ohm/16ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm
	Subwoofer Output Power	10W @8ohm, Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Hidev Mono	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Optic Out	On/Off	On	On	On	On	On	On	On	On	On
	Sports Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	EPG Padding Time	On/Off	Off	On	Off	Off	Off	Off	Off	Off	On
	GRFSet2	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	BMSled	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Recovery Mode	On/Off	On	On	On	On	On	On	On	On	On
	Turksat Fast	On/Off	On	On	On	On	On	On	On	On	On
	Fransat	On/Off	On	On	On	On	On	On	On	On	On
	YPBPR Setting	VGA/Component	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA
	Amp Selection	TAS/STA	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS
	Hotel Logo	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	HDMI3 to HDMI2 Change	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off

Alle weiteren Menüs werden über die Gerätesoftware programmiert und dürfen nicht verstellt werden.
All other menus are programmed by the software of the set and must not be adjusted.

Menü Menu ^ v	Menüpunkt Point of Menu OK	Einstellung Adjustment < >	40 VLE 4421 BF	40 VLE 5420 BN	40 VLE 5421 BG (NUJ)	40 VLE 5421 BG (NLD)	40 VLE 5421 WG	40 VLE 5425 WG	48 VLE 555 BG	48 VLE 685 BG	48 VLE 4420 BM
System Configuration	TV Mode	Customer Factory	X	X	X	X	X	X	X	X	X
	HDCP Verify		prüft HDCP im EEPROM / verifies HDCP in EEPROM								
	Debug Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Plug Play	On	ATS Reset: Netz ein -> Automatischer Sendersuchlauf / Power on -> automatic programme search								
	Blue Back	On/Off	On	On	On	On	On	On	On	On	On
	Hotel	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	CI Key Verify		prüft CI Key / verifies CI Key								
	Panel Energy Class	A...D, Default	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A
	Uart Enable	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Source Configuration Code 2356	ATV	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Air	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Cable	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Satellite	Avail/Navail	Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Navail
	USB	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	PC	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI1	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI2	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI3	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI4	Avail/Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail
	AV1 (Scart)	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	AV2 (Cinch-AV)	Avail/Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail
	Component	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
TV Configuration Code 2356	S-VHS (Hosiden/Scart)	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	OSD Selection	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig
	GRFSet1/USB Recording	On/Off	Off	On	Off	On	On	Off	Off	Off	On
	Remote Control		Fernbedienung wählen / Select used remote control								
	Keypad	6 Button + 1 STD, 3 Button + 1 STD, 1 STD, Joystick	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD
	MEMC	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	7 Segment Display	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Eco TV	On/Off	On	On	On	On	On	On	On	On	On
	Line Out	On/Off	On	On	On	On	On	On	On	On	On
	Headphone	STA/HP Off/EXT	STA	STA	STA	STA	STA	STA	STA	STA	STA
	Shop Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	CEC	On/Off	On	On	On	On	On	On	On	On	On
	Speaker Output Power	3/5/7/10/15W @8ohm/16ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm
	Subwoofer Output Power	10W @8ohm, Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Hidev Mono	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Optic Out	On/Off	On	On	On	On	On	On	On	On	On
	Sports Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	EPG Padding Time	On/Off	Off	On	Off	On	On	Off	Off	Off	On
	GRFSet2	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	BMSled	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Recovery Mode	On/Off	On	On	On	On	On	On	On	On	On
	Turksat Fast	On/Off	On	On	On	On	On	On	On	On	On
	Fransat	On/Off	On	On	On	On	On	On	On	On	On
	YPBPR Setting	VGA/Component	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA
	Amp Selection	TAS/STA	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS
	Hotel Logo	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	HDMI3 to HDMI2 Change	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off

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All other menus are programmed by the software of the set and must not be adjusted.

Menü Menu ^ v	Menüpunkt Point of Menu OK	Einstellung Adjustment < >	48 VLE 4421 BF	48 VLE 5420 BN	48 VLE 5421 BG (NUV)	48 VLE 5421 BG (NLE)	HAMBURG 28 CLE 5407 BG	HAMBURG 32 CLE 5407 BG	Hamburg 32 CLE 5407 SG	HAMBURG 40 CLE 5427 BG	HAMBURG 48 CLE 5427 BG
System Configuration	TV Mode	Customer Factory	X	X	X	X	X	X	X	X	X
	HDCP Verify		prüft HDCP im EEPROM / verifies HDCP in EEPROM								
	Debug Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Plug Play	On	ATS Reset: Netz ein -> Automatischer Sendersuchlauf / Power on -> automatic programme search								
	Blue Back	On/Off	On	On	On	On	On	On	On	On	On
	Hotel	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	CI Key Verify		prüft CI Key / verifies CI Key								
	Panel Energy Class	A...D, Default	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A
	Uart Enable	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Source Configuration Code 2356	ATV	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Air	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Cable	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	Satellite	Avail/Navail	Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	USB	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	PC	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI1	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI2	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI3	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	HDMI4	Avail/Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail
	AV1 (Scart)	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	AV2 (Cinch-AV)	Avail/Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail	Navail
	Component	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
TV Configuration Code 2356	S-VHS (Hosiden/Scart)	Avail/Navail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail	Avail
	OSD Selection	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig
	GRFSet1/USB Recording	On/Off	Off	On	Off	Off	On	On	On	On	On
	Remote Control		Fernbedienung wählen / Select used remote control								
	Keypad	6 Button + 1 STD, 3 Button + 1 STD, 1 STD, Joystick	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD	3 Button + 1 STD
	MEMC	On/Off	Off	Off	Off	On	Off	Off	Off	Off	Off
	7 Segment Display	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Eco TV	On/Off	On	On	On	On	On	On	On	On	On
	Line Out	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Headphone	STA/HP Off/EXT	STA	STA	STA	STA	STA	STA	STA	STA	STA
	Shop Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	CEC	On/Off	On	On	On	On	On	On	On	On	On
	Speaker Output Power	3/5/7/10/15W @8ohm/16ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm	10W @8ohm
	Subwoofer Output Power	10W @8ohm, Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Hidev Mono	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Optic Out	On/Off	On	On	On	On	On	On	On	On	On
	Sports Mode	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	EPG Padding Time	On/Off	Off	On	Off	On	On	On	On	On	On
	GRFSet2	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	BMSled	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Recovery Mode	On/Off	On	On	On	On	On	On	On	On	On
	Turksat Fast	On/Off	On	On	On	On	On	On	On	On	On
	Fransat	On/Off	On	On	On	On	On	On	On	On	On
	YPBPR Setting	VGA/Component	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA
	Amp Selection	TAS/STA	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS	TAS
	Hotel Logo	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	HDMI3 to HDMI2 Change	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off

Alle weiteren Menüs werden über die Gerätesoftware programmiert und dürfen nicht verstellt werden.
All other menus are programmed by the software of the set and must not be adjusted.

2. Software-Versionsnummer

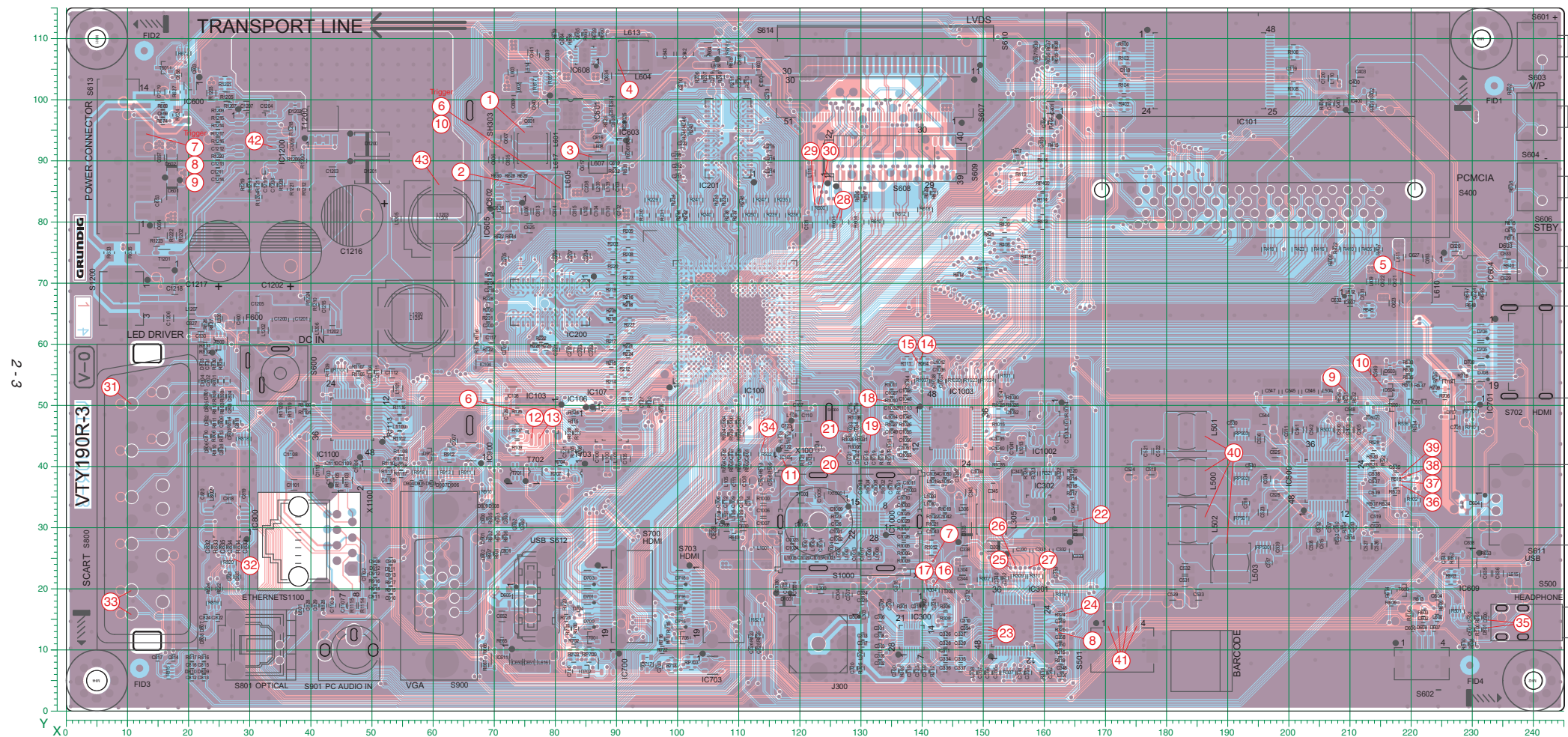
Die Software-Versionsnummer wird unten im Menü Einstellungen und im Service Menü angezeigt. z.B.: TYGRMR.-.-.-.V04.000.00

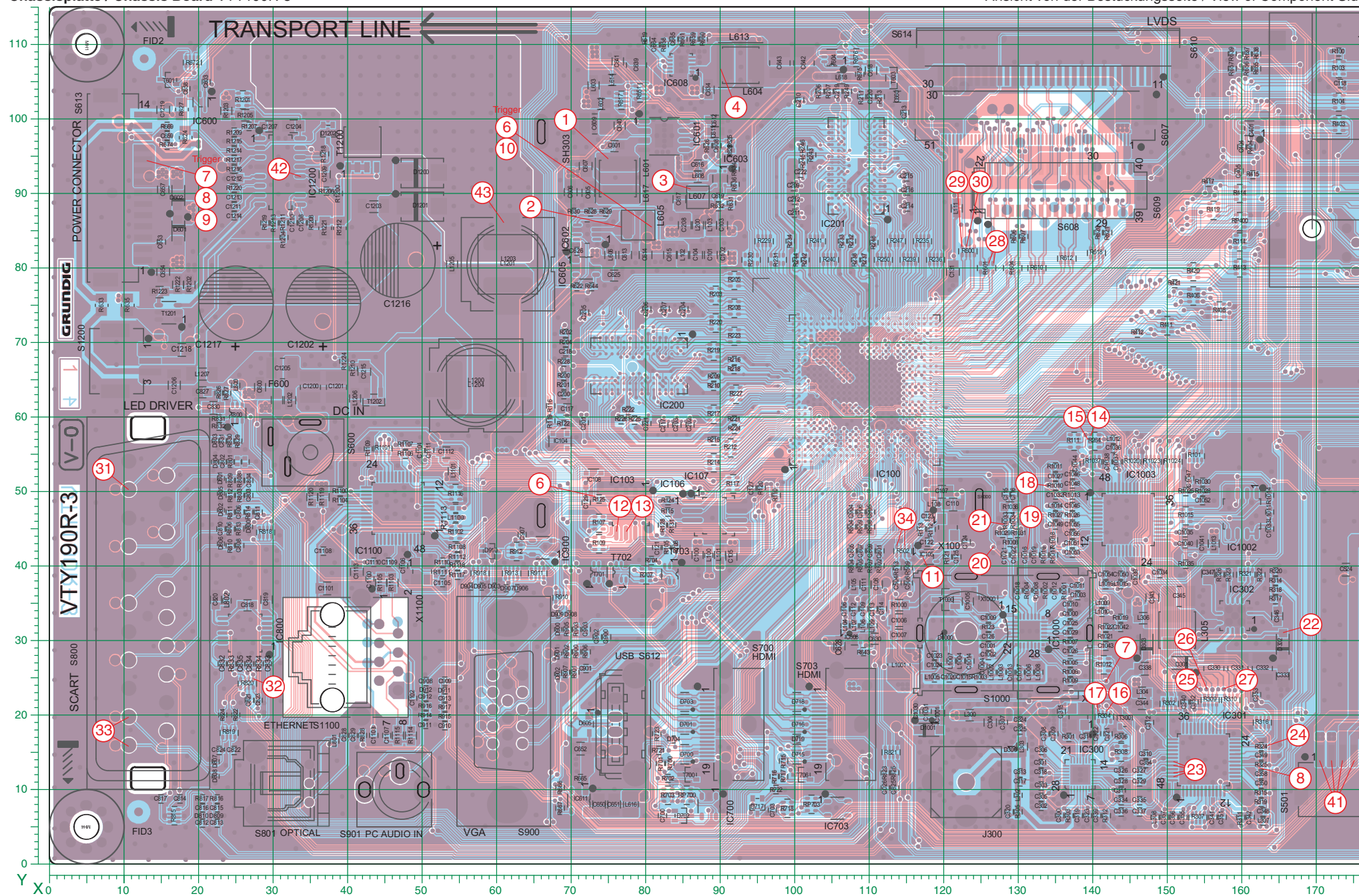
2. Software Version Number

The software version number is shown on the lower part of the options menu and the service menu. e.g.: TYGRMR.-.-.-.V04.000.00

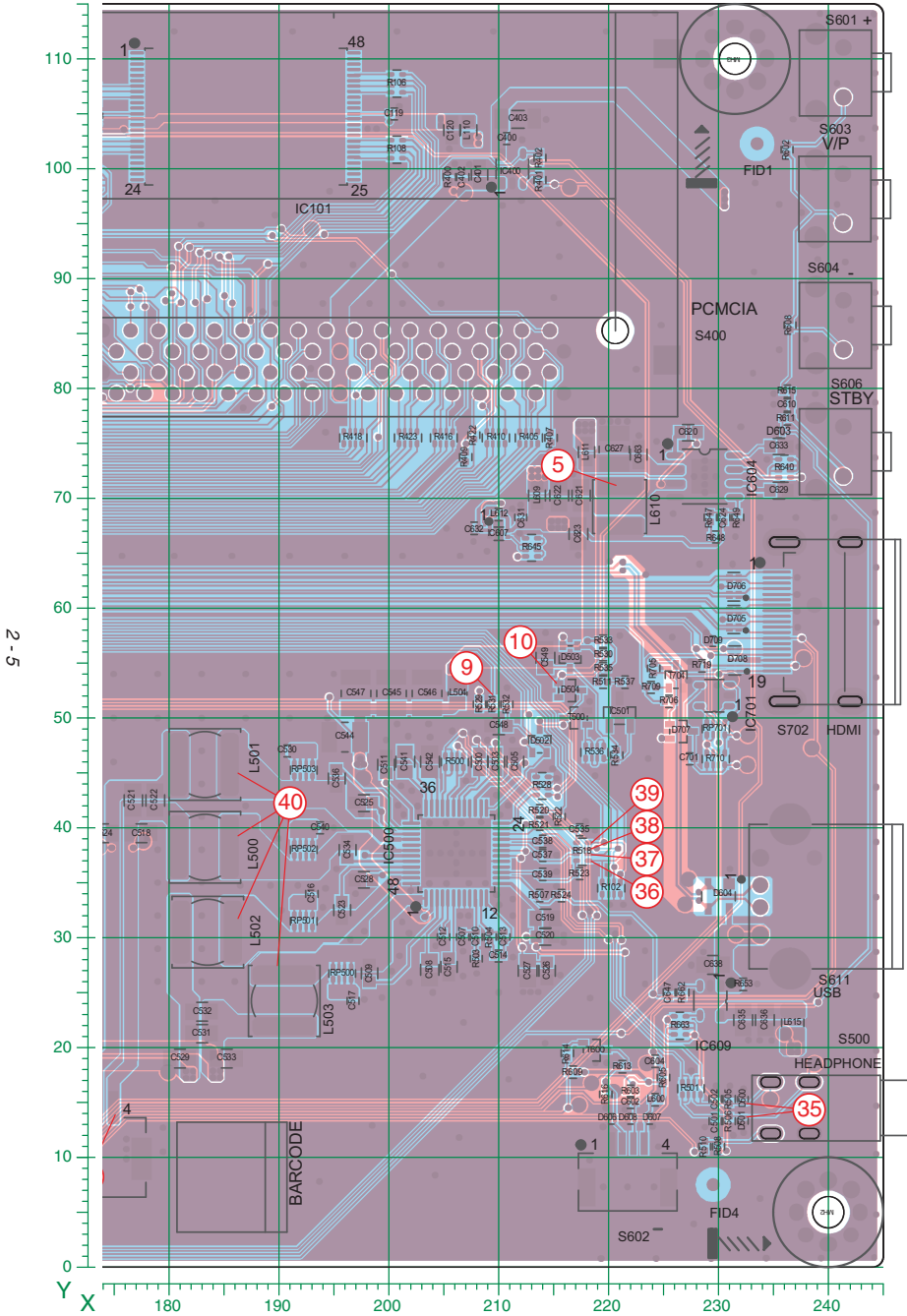
Chassisplatte / Chassis Board VTY190R-3

Ansicht von der Bestückungsseite / View of Component Side

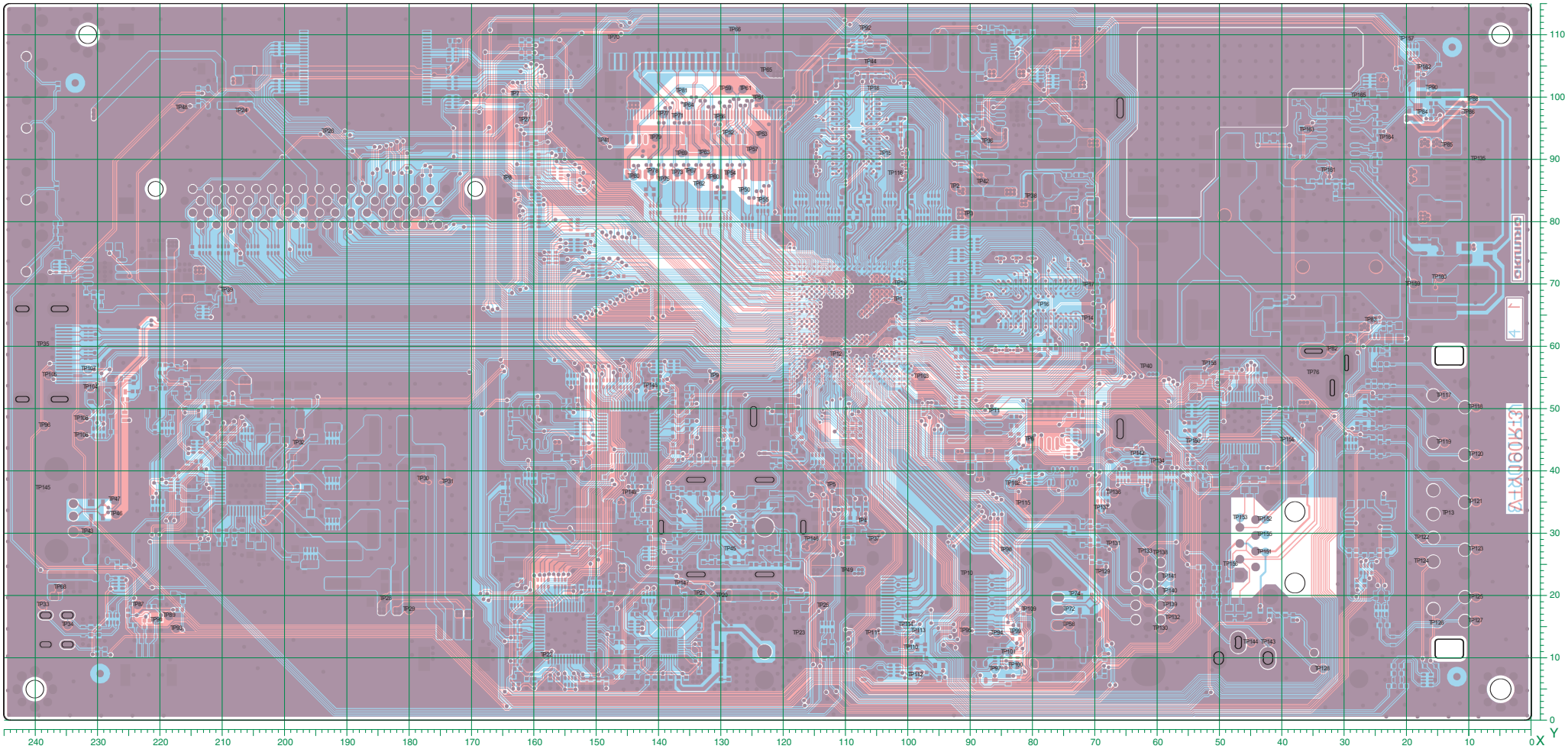


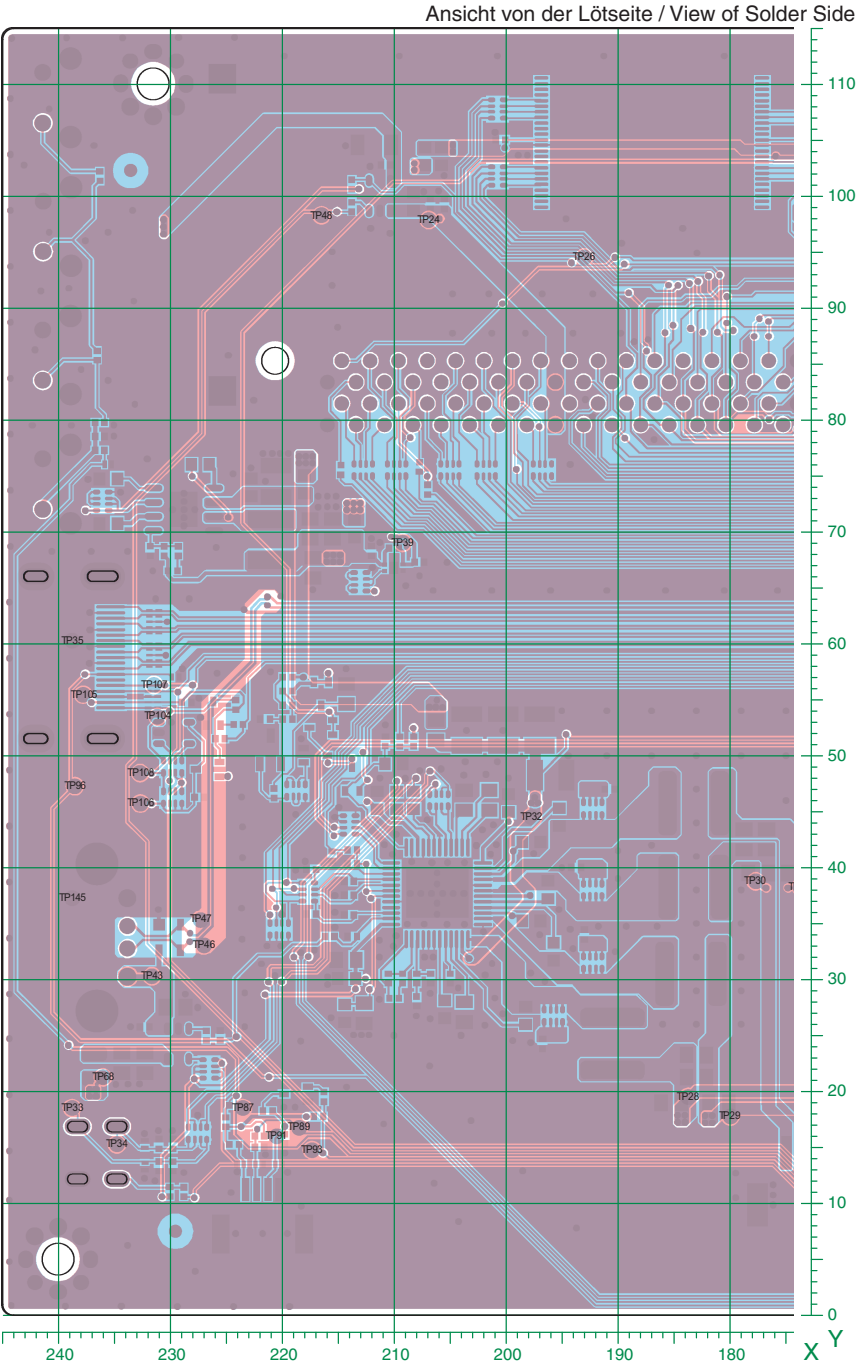


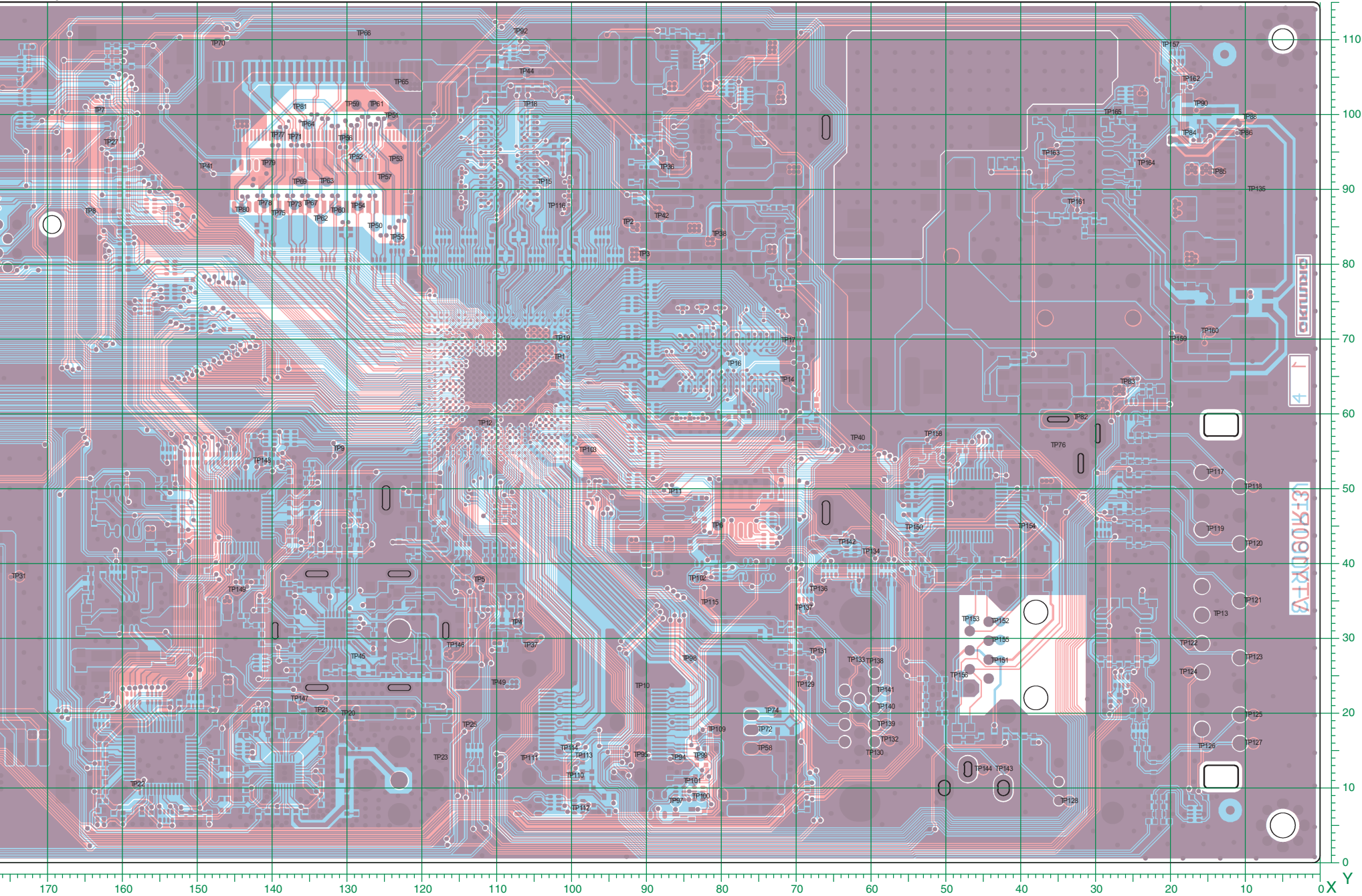
Chassisplatte / Chassis Board VTY190R-3



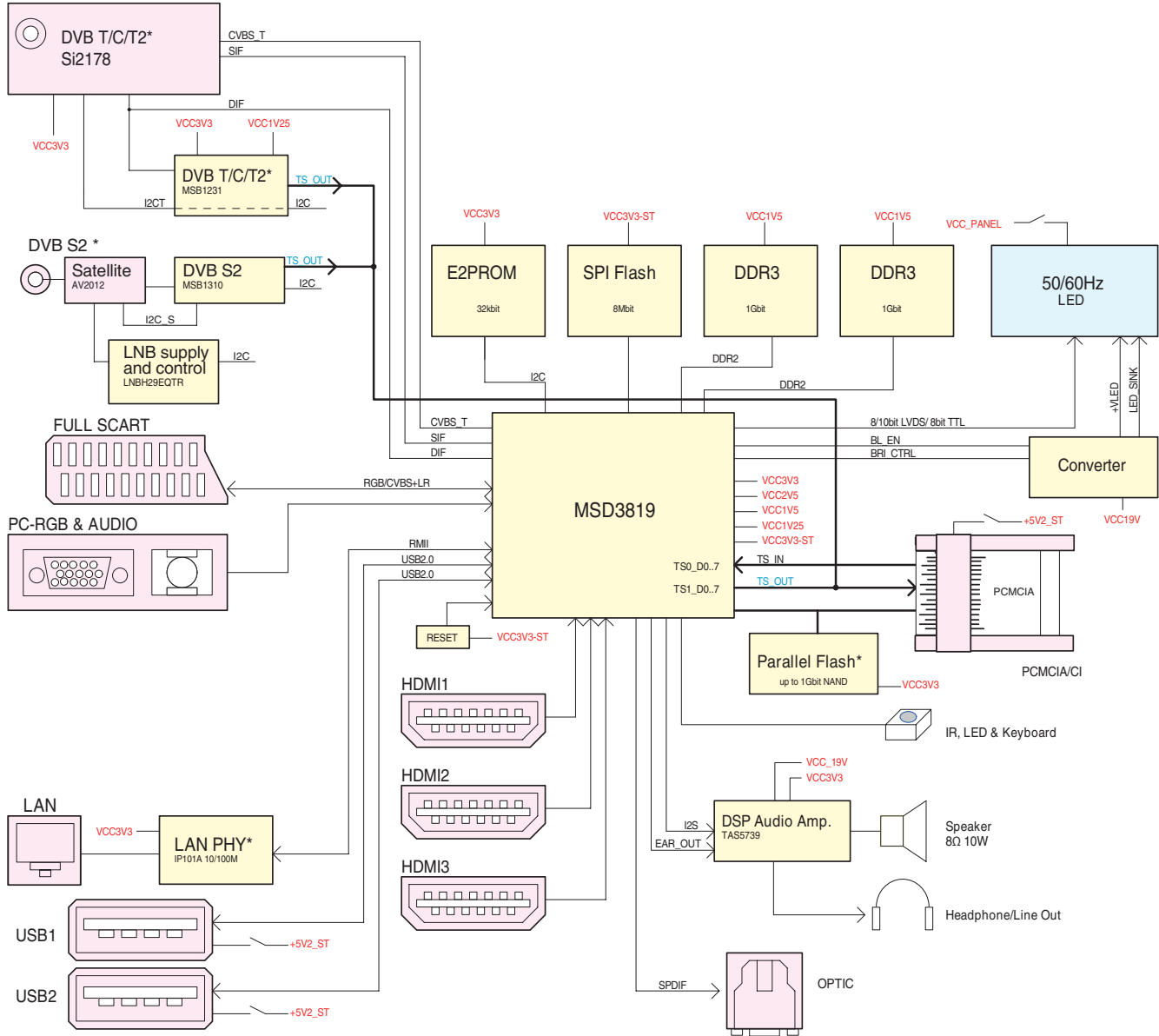
Ansicht von der Bestückungsseite / View of Component Side



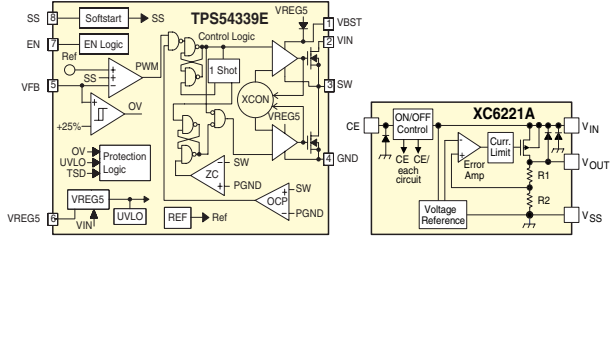
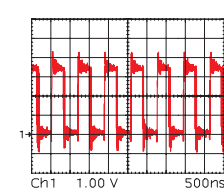
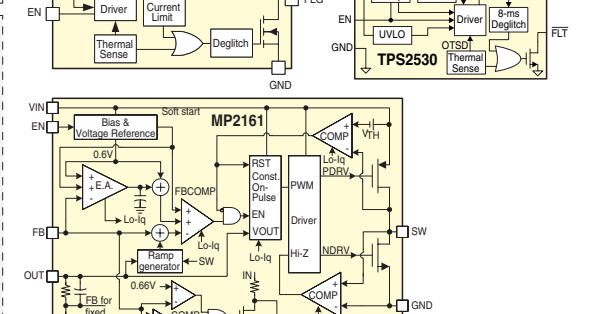
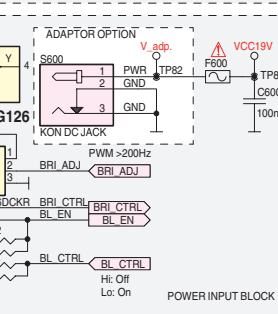
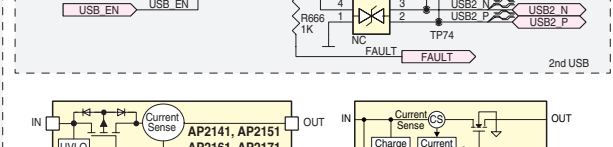
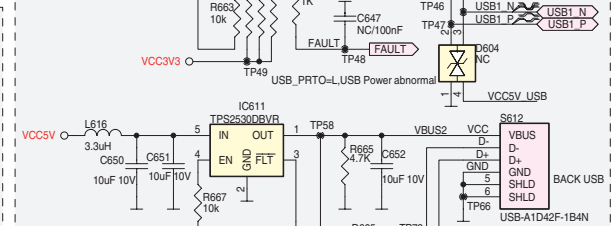
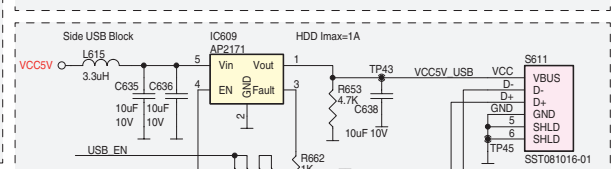
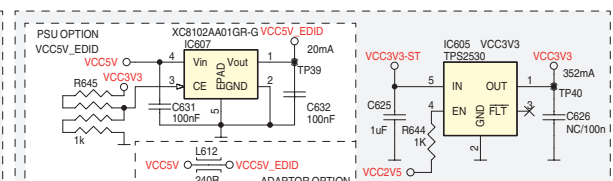
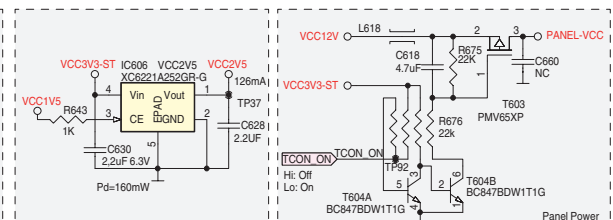




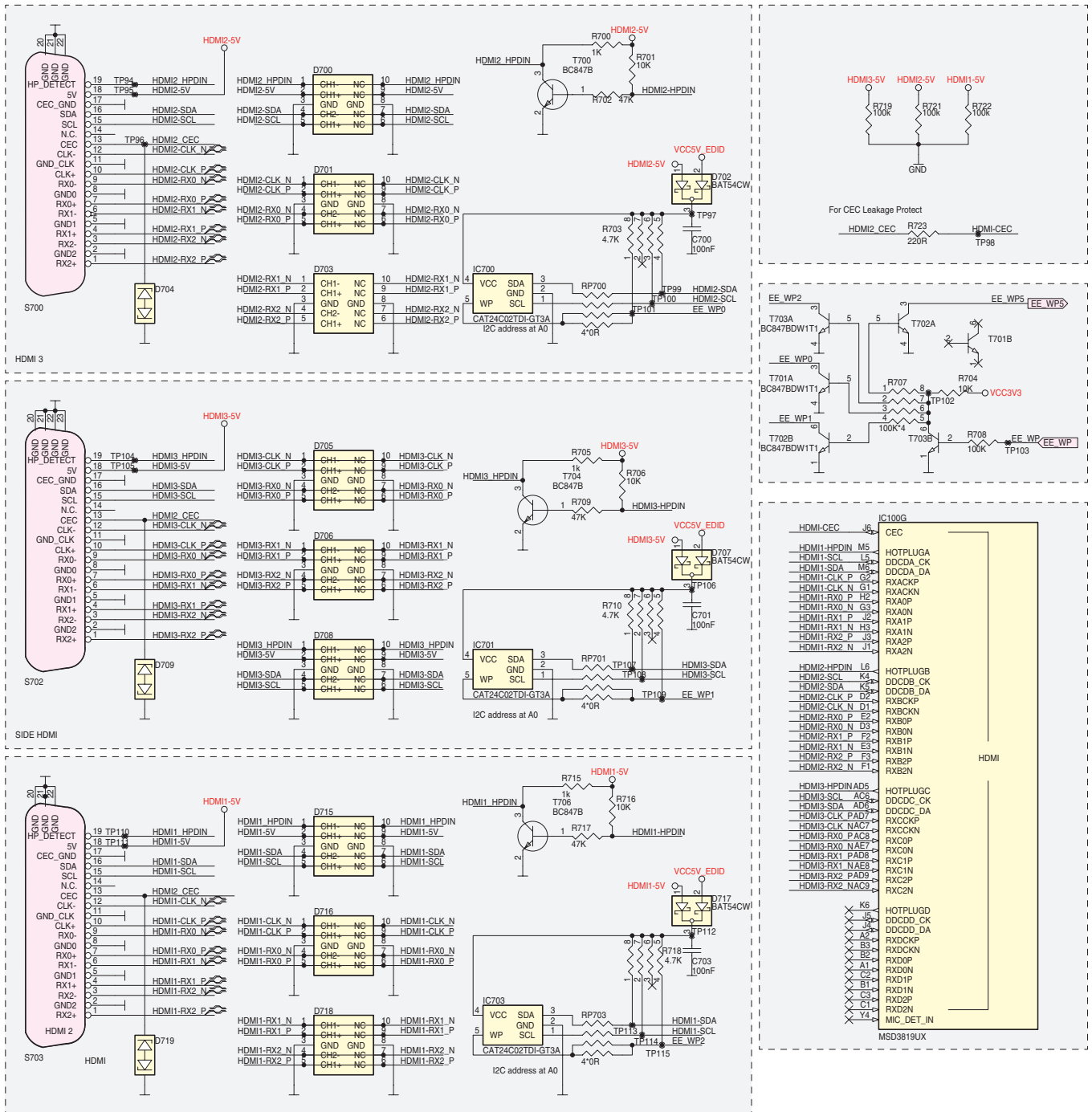
Chassisplatte – Blockschartplan / Chassis Board – Block Circuit Diagram (VTY190R-3)



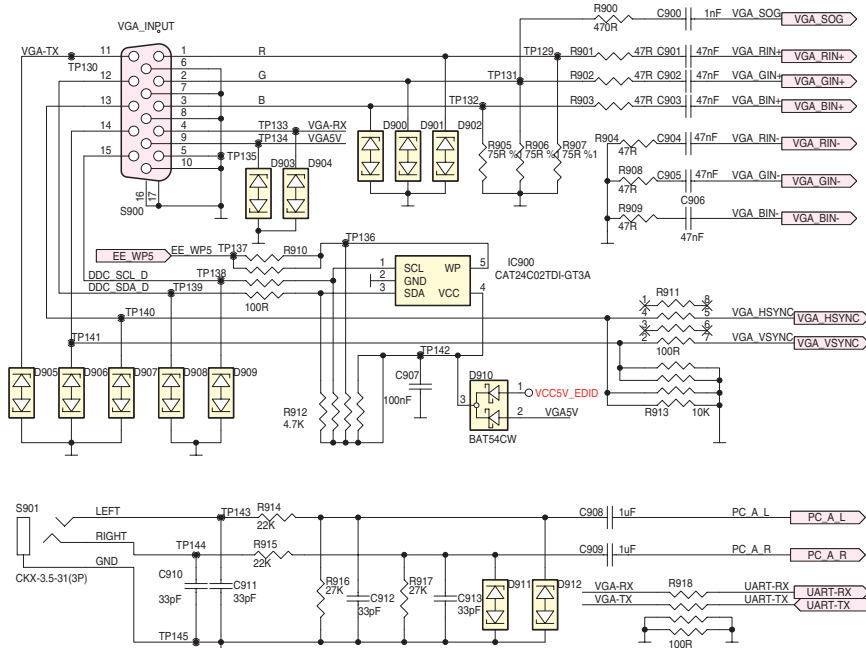
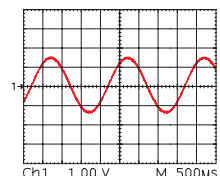
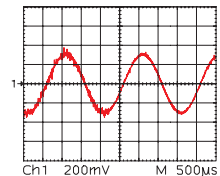
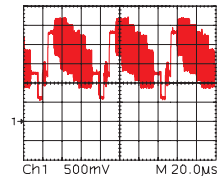
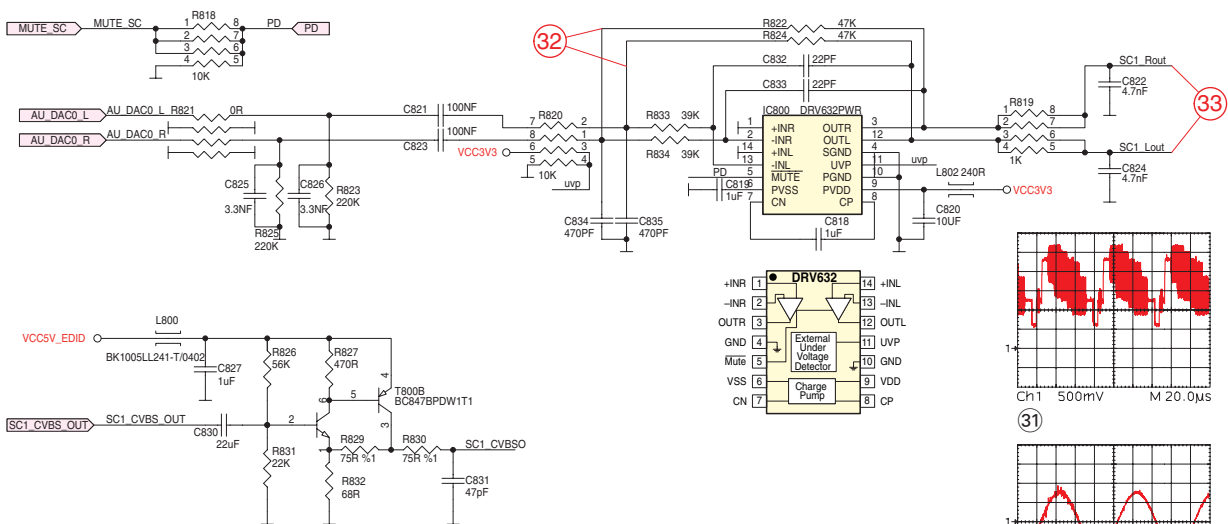
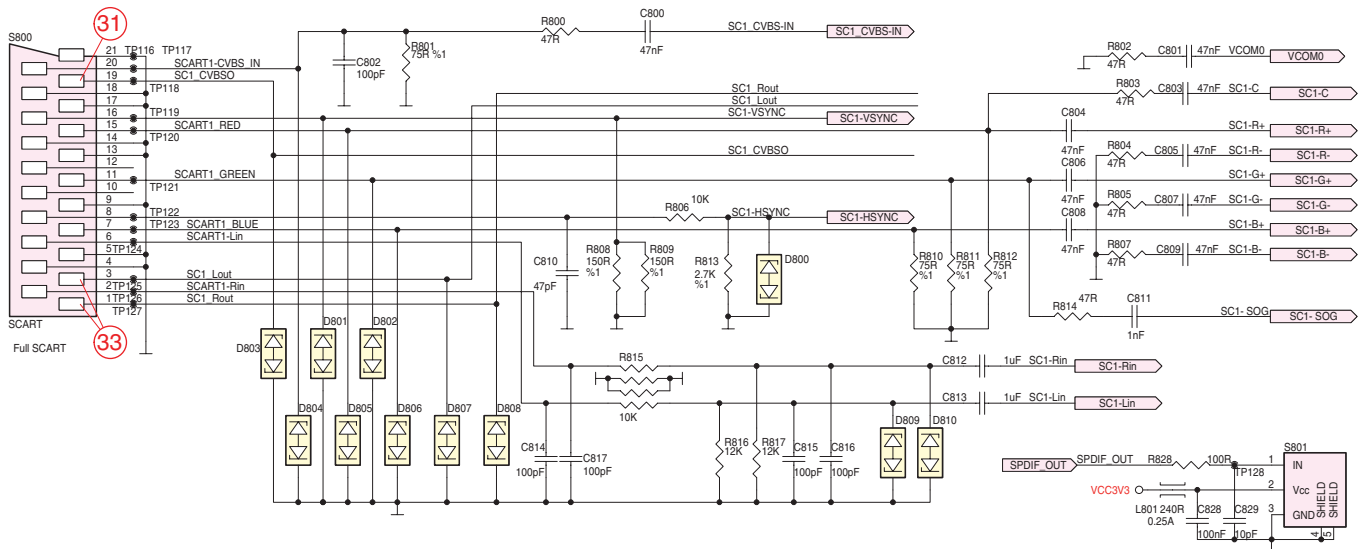
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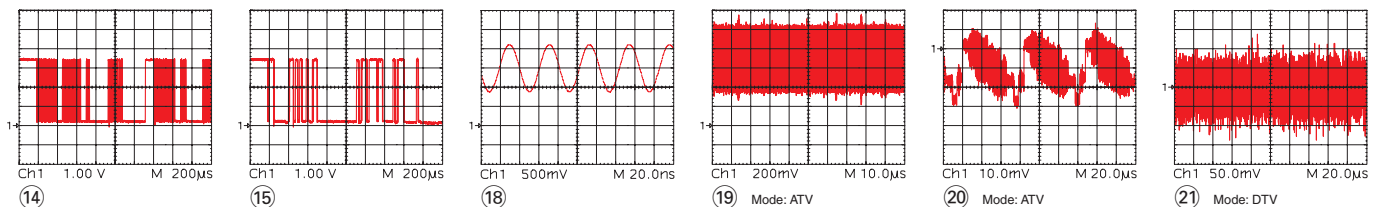
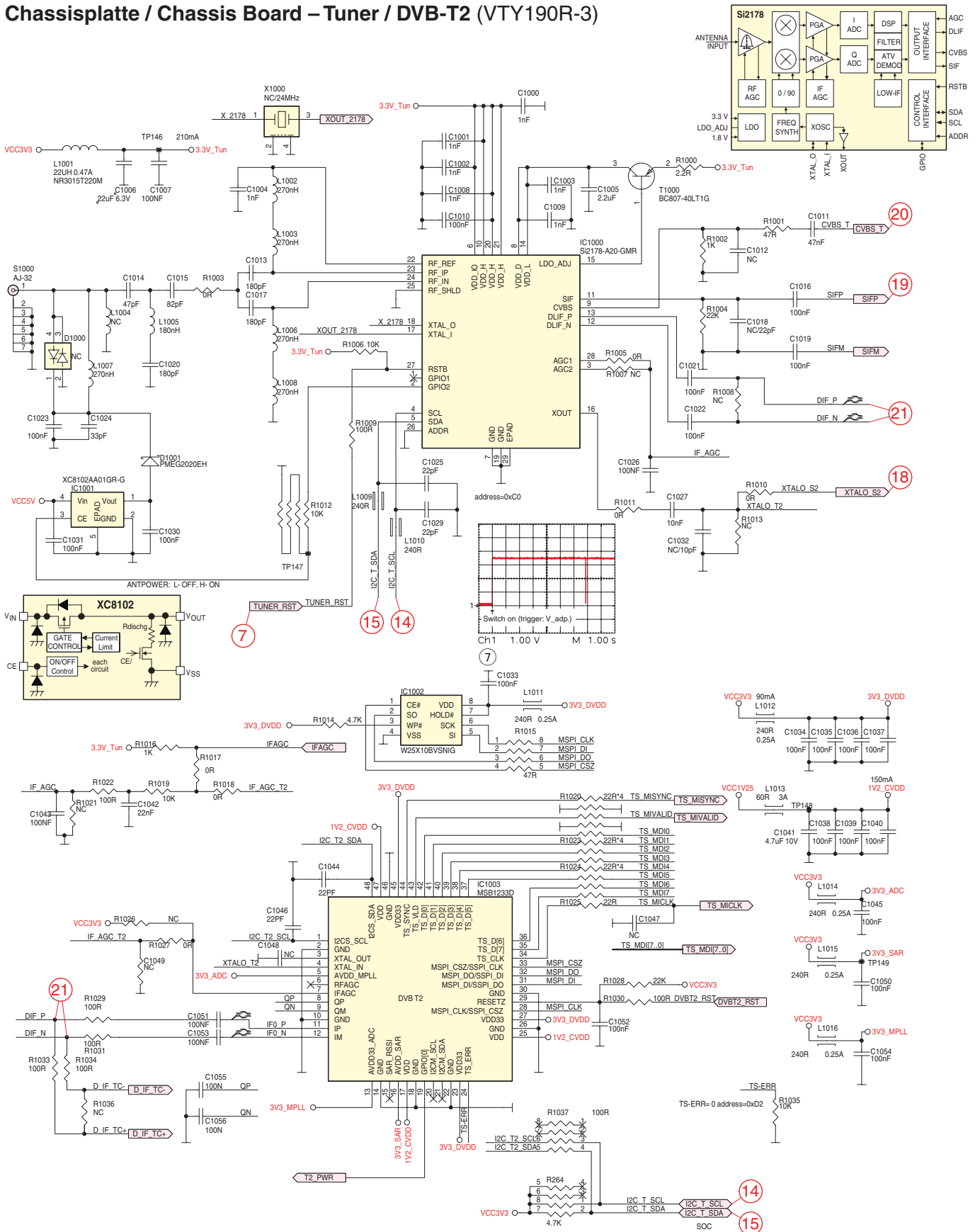
Chassisplatte / Chassis Board – HDMI (VTY190R-3)



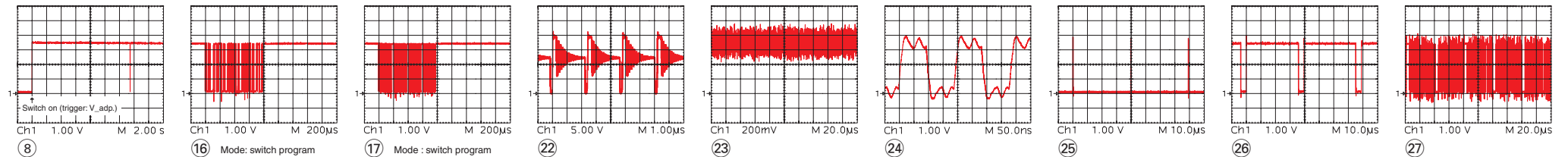
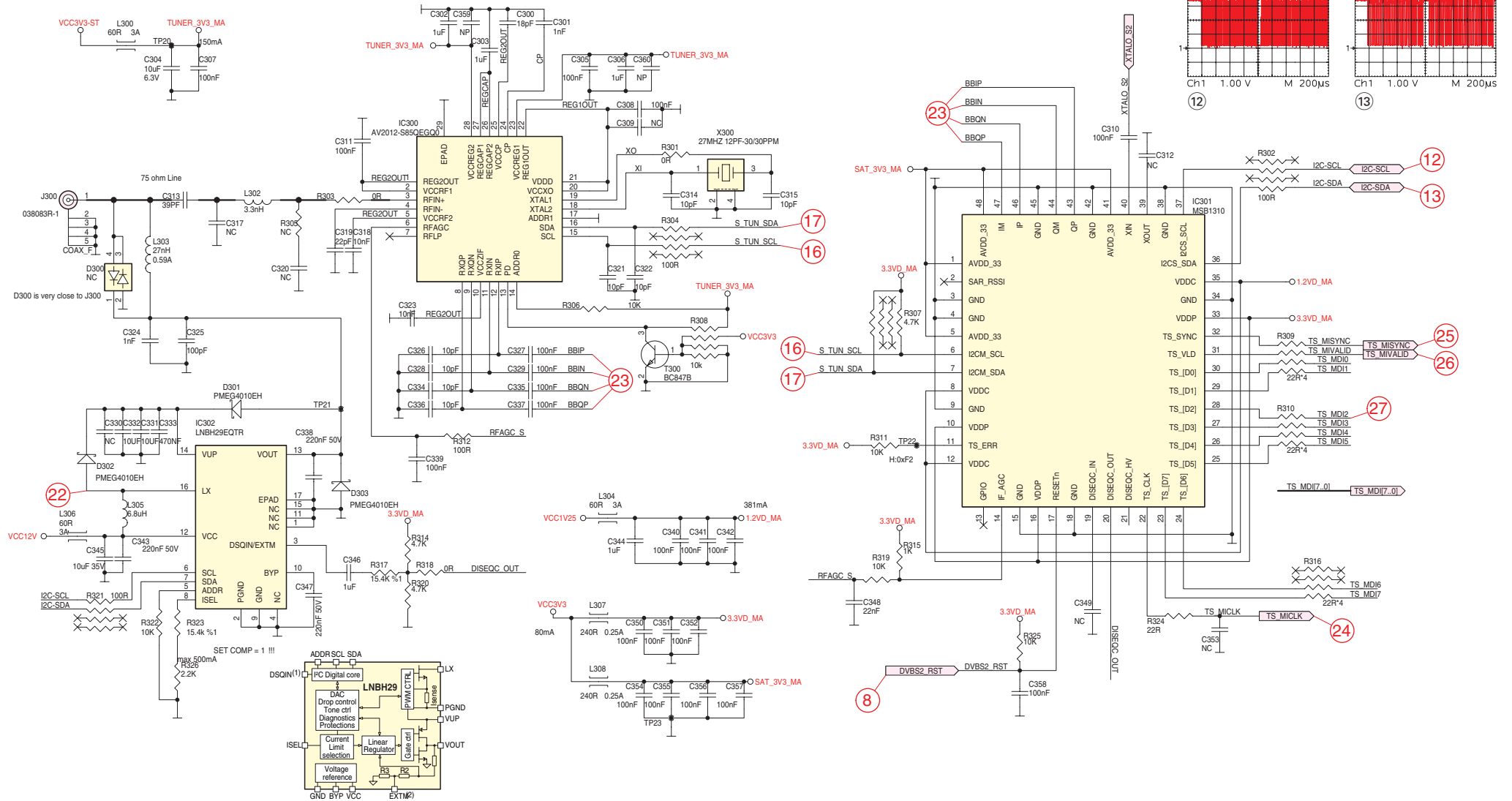
Chassisplatte / Chassis Board – SCART, VGA (VTY190R-3)



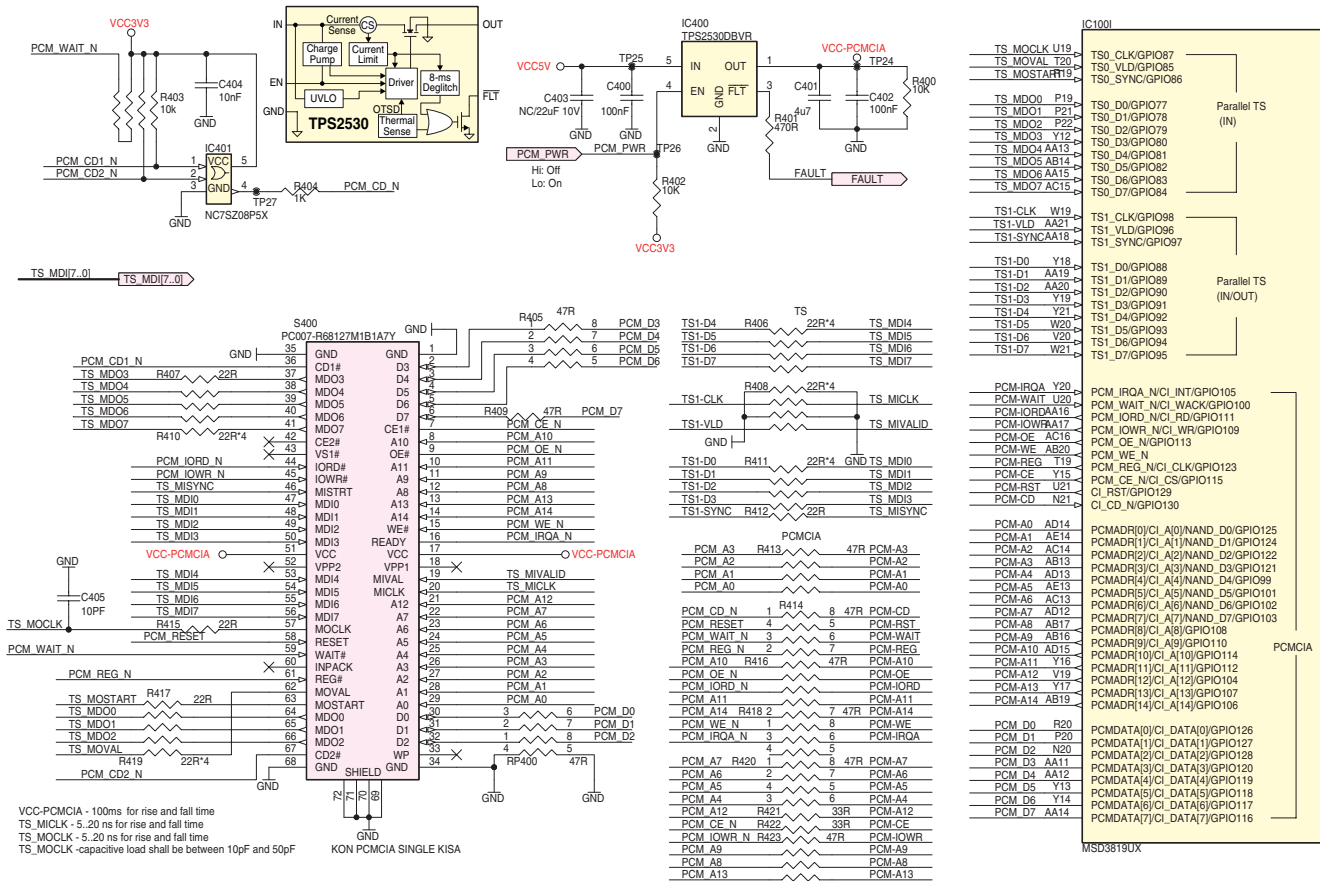
Chassisplatte / Chassis Board – Tuner / DVB-T2 (VTY190R-3)



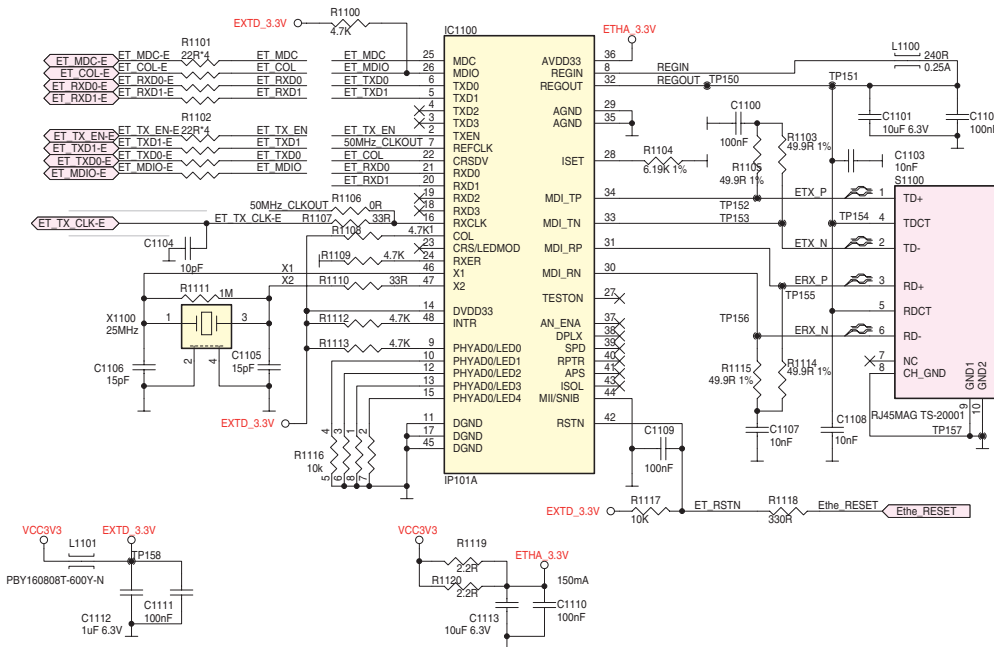
Chassisplatte / Chassis Board – DVB-S (VTY190R-3)



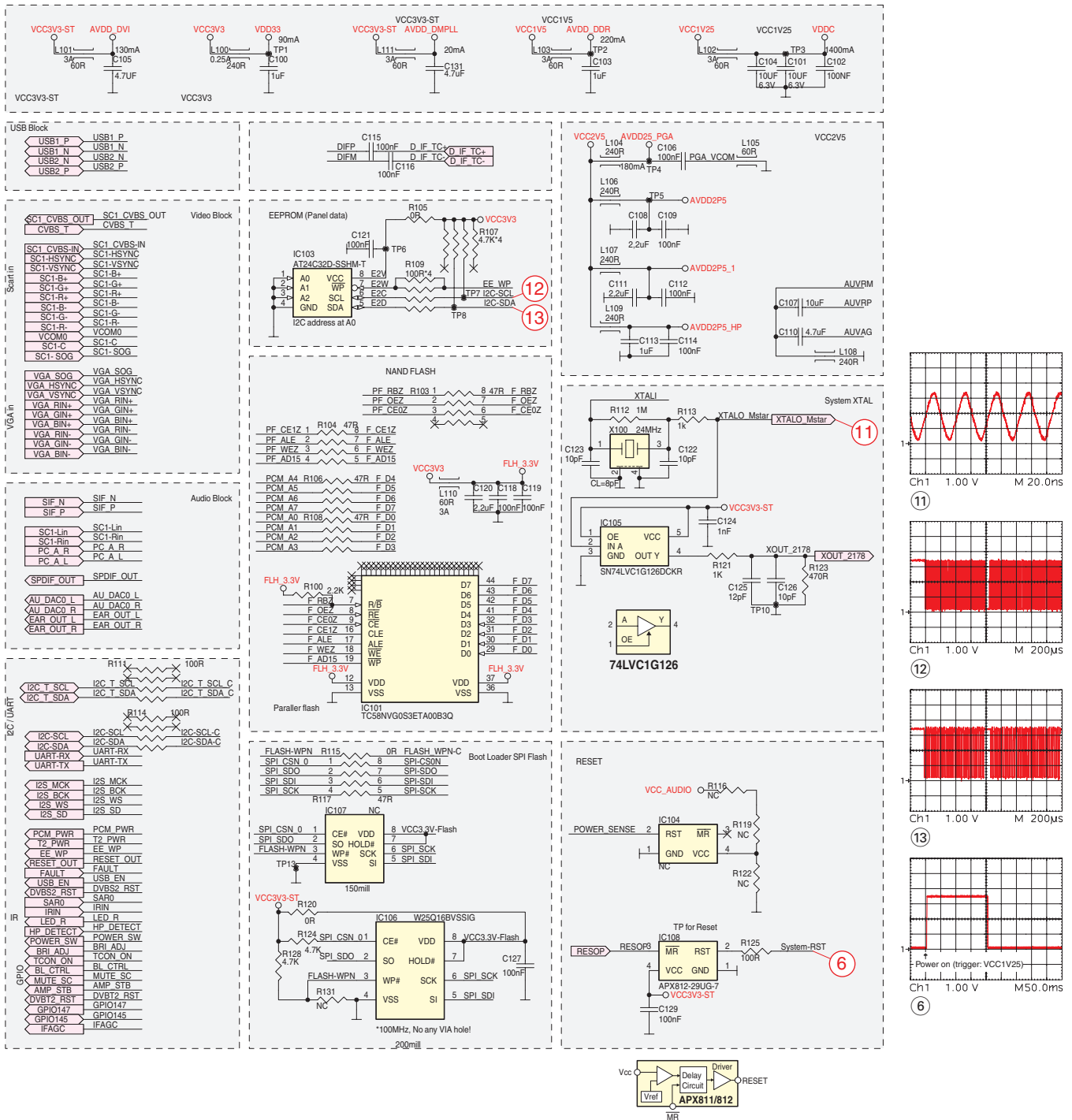
Chassisplatte / Chassis Board – PCMCIA-Interface (VTY190R-3)



Chassisplatte / Chassis Board – LAN (VTY190R-3)

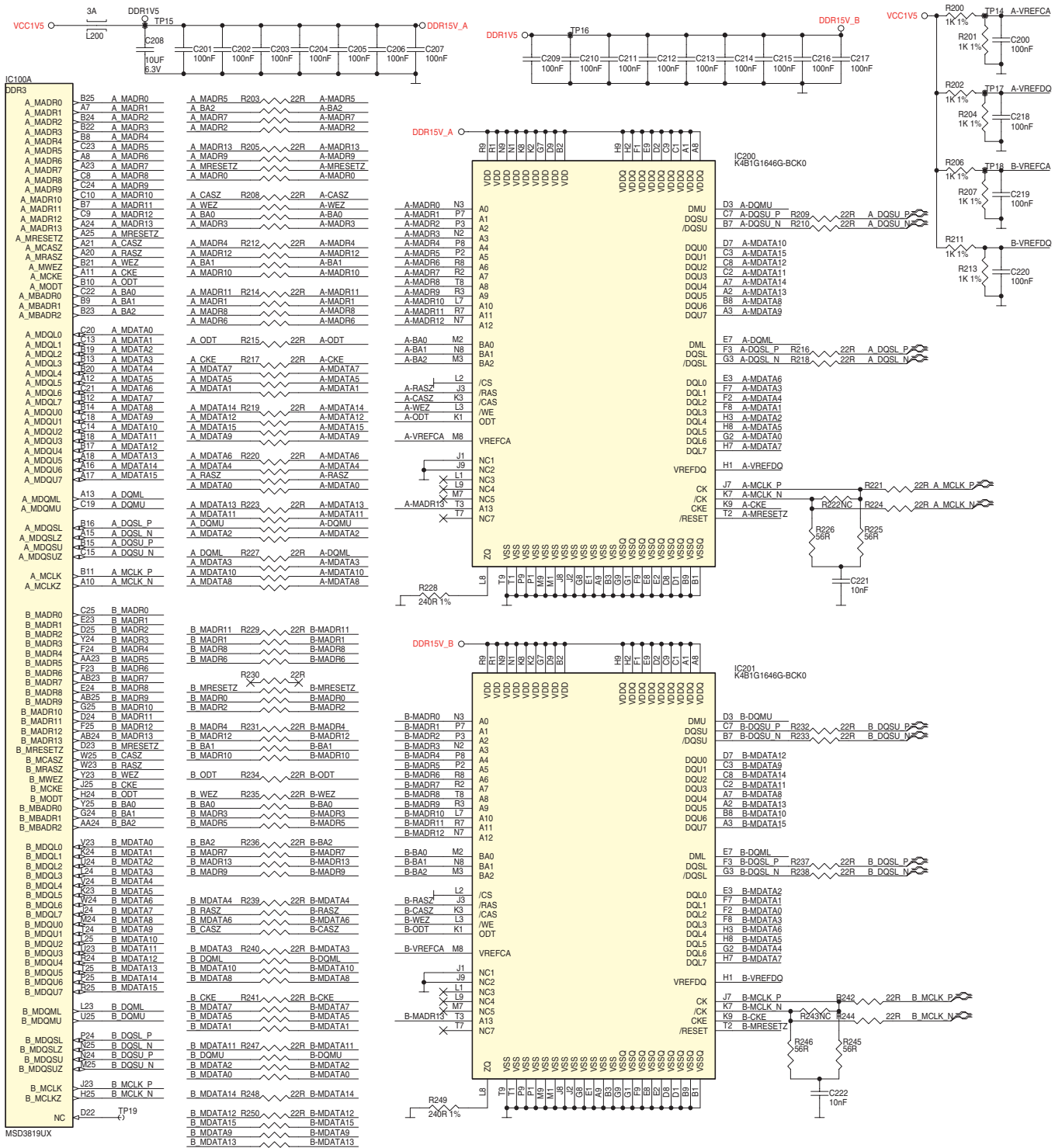


Chassisplatte / Chassis Board – Scaler (VTY190R-3)

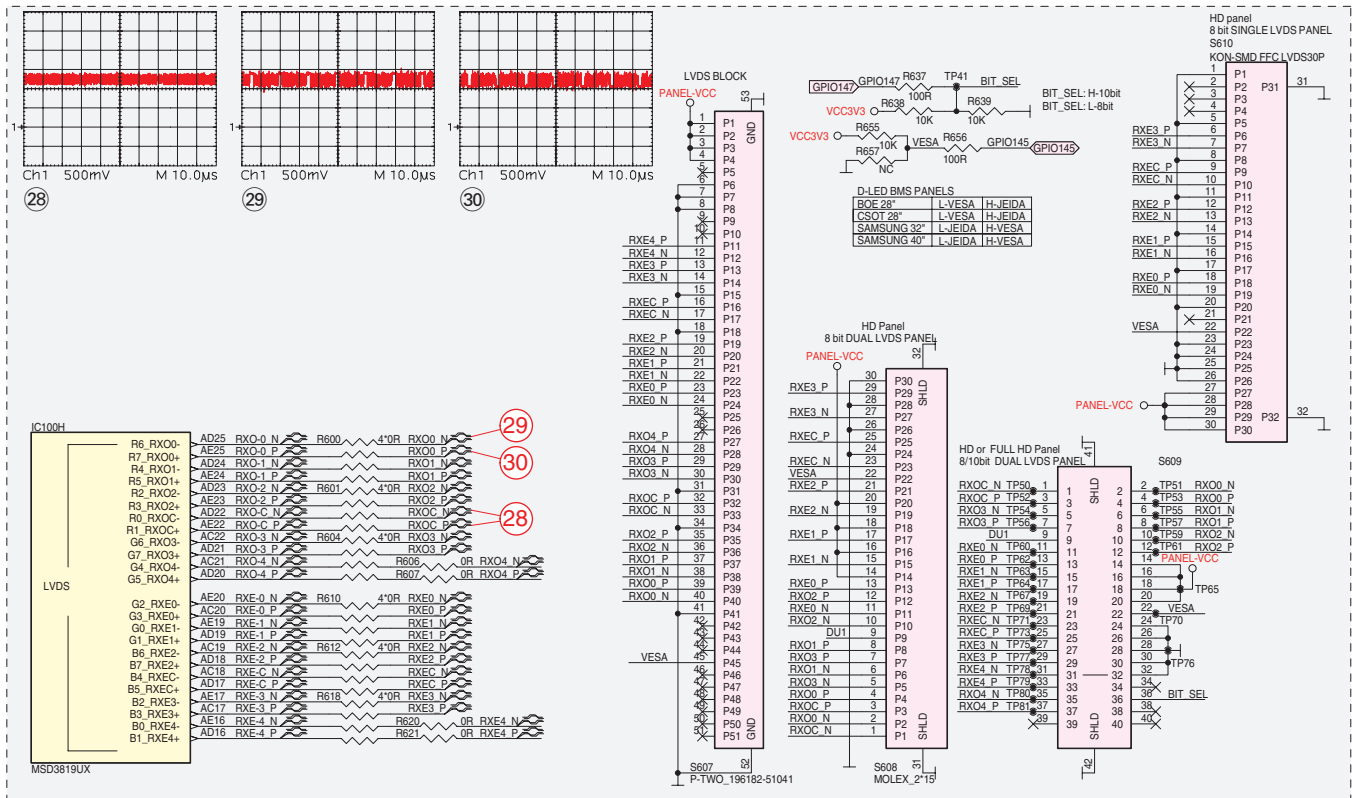


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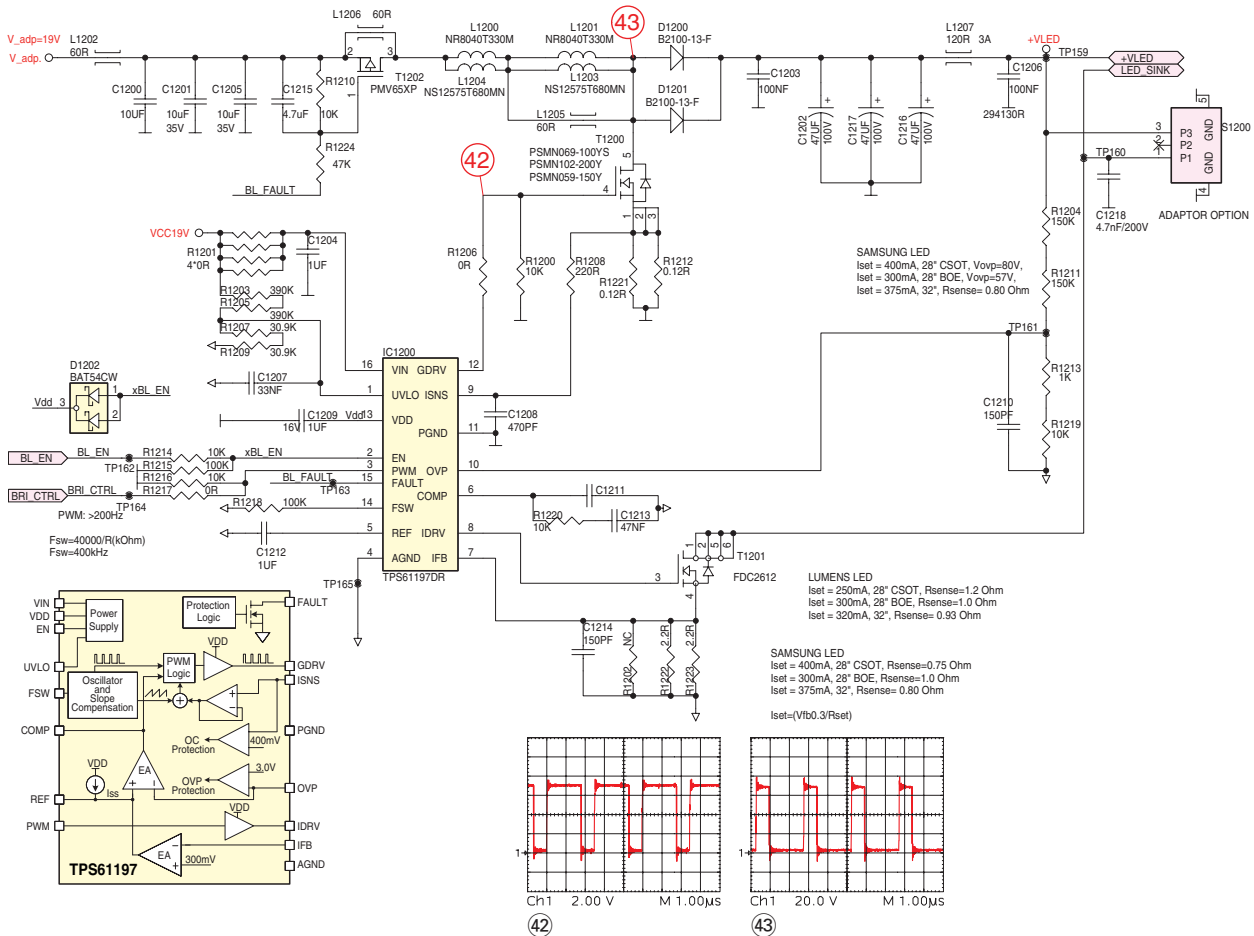
Chassisplatte / Chassis Board – RAM (VTY190R-3)



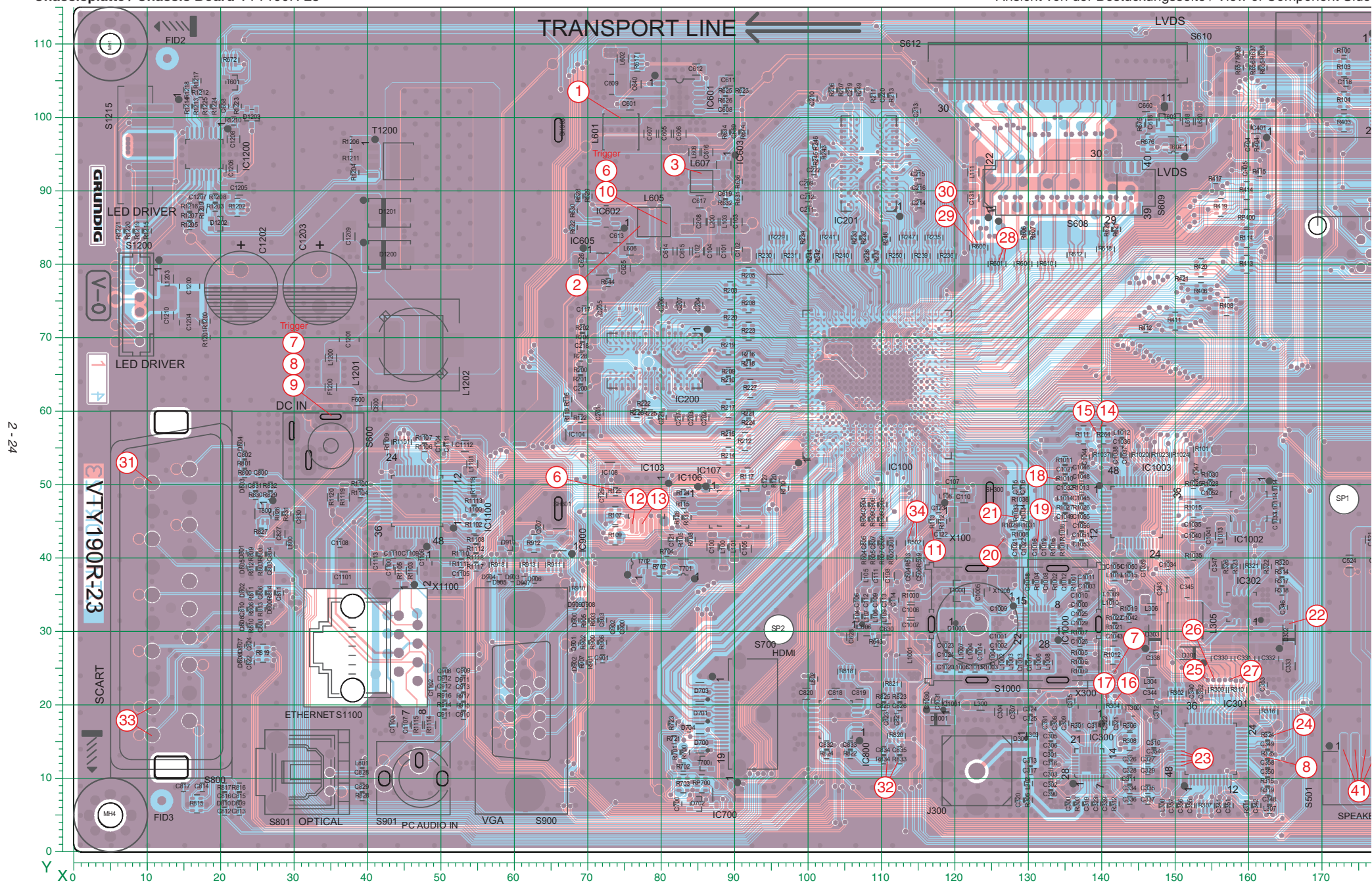
Chassisplatte / Chassis Board – LVDS (VTY190R-3)

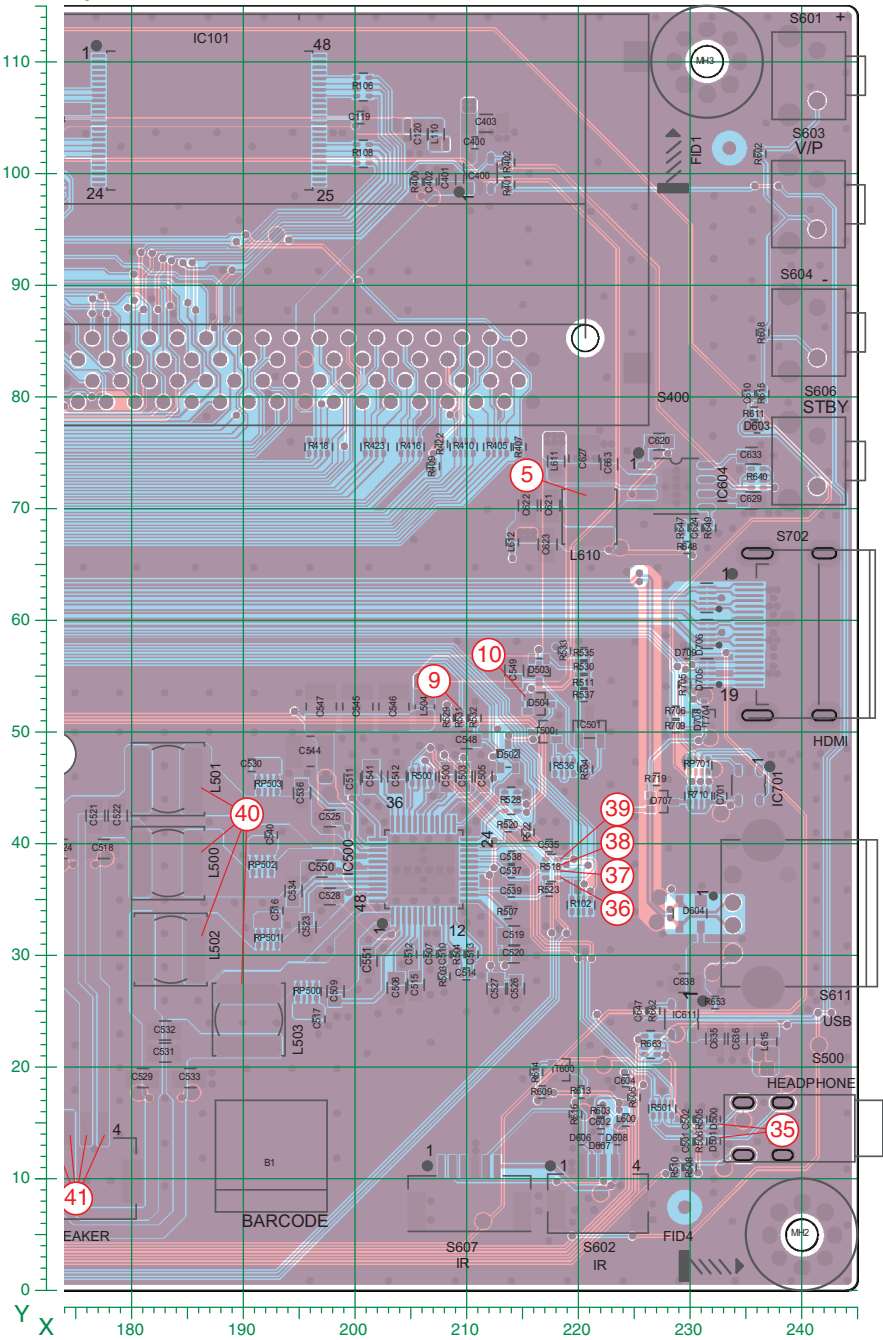


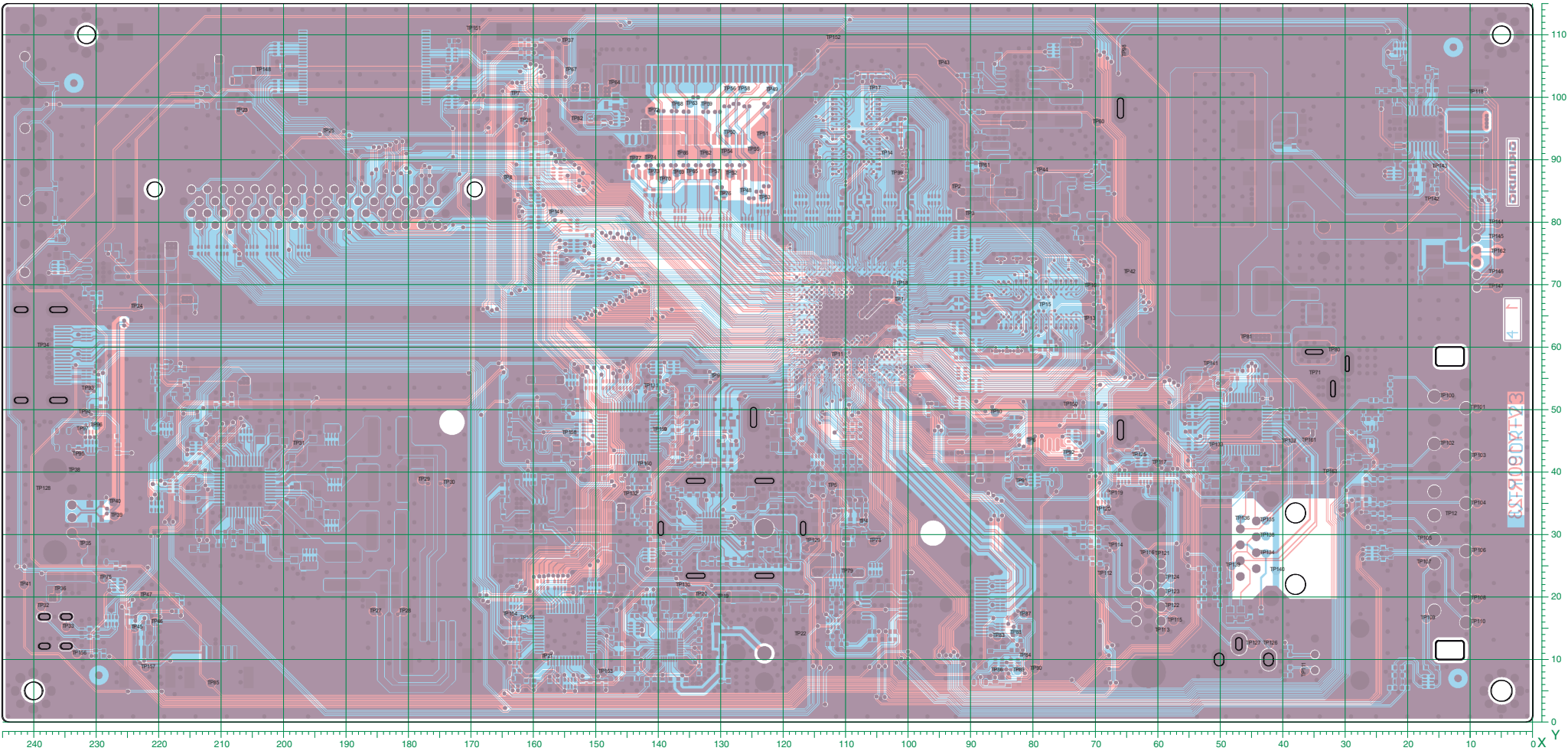
Chassisplatte / Chassis Board – Converter (VTY190R-3)

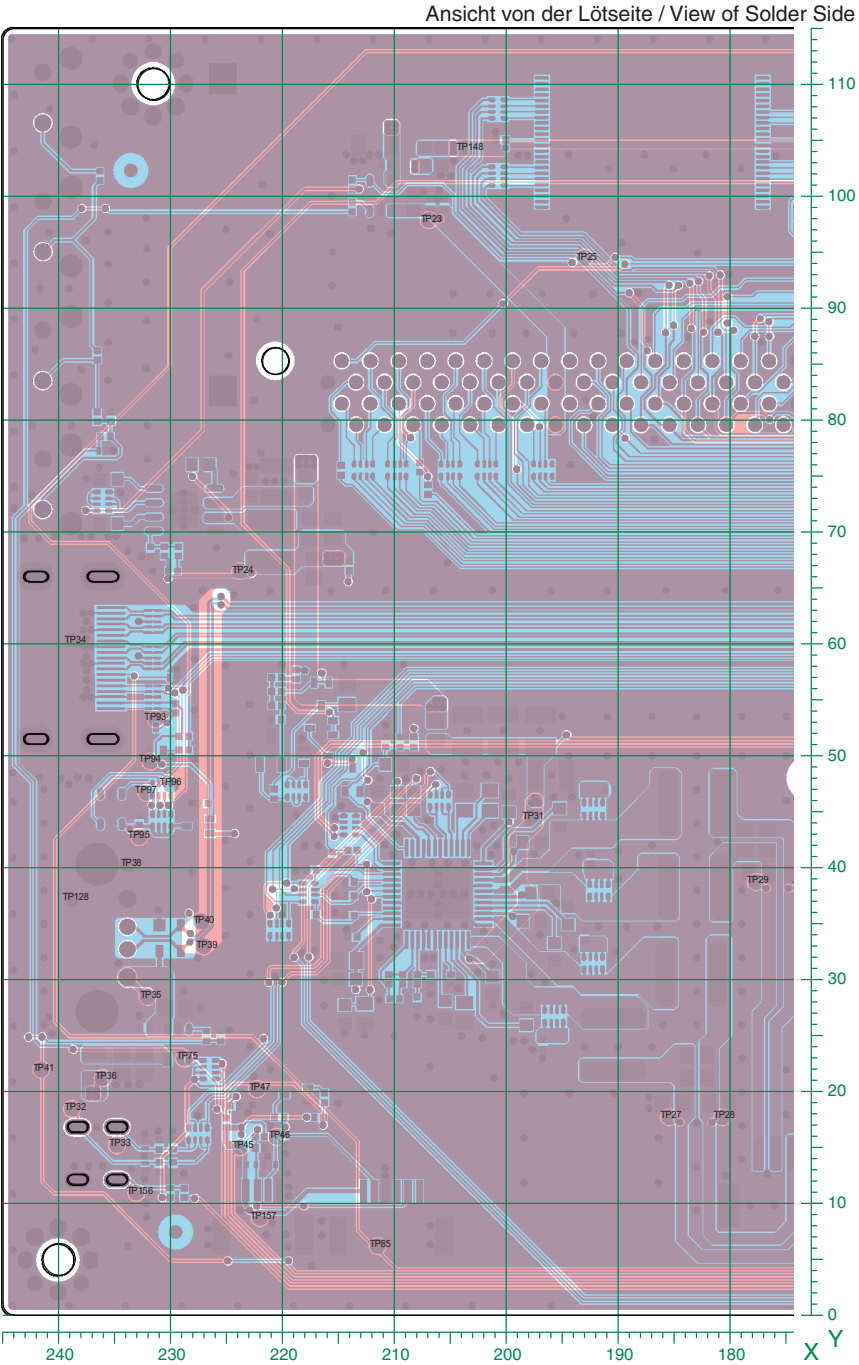


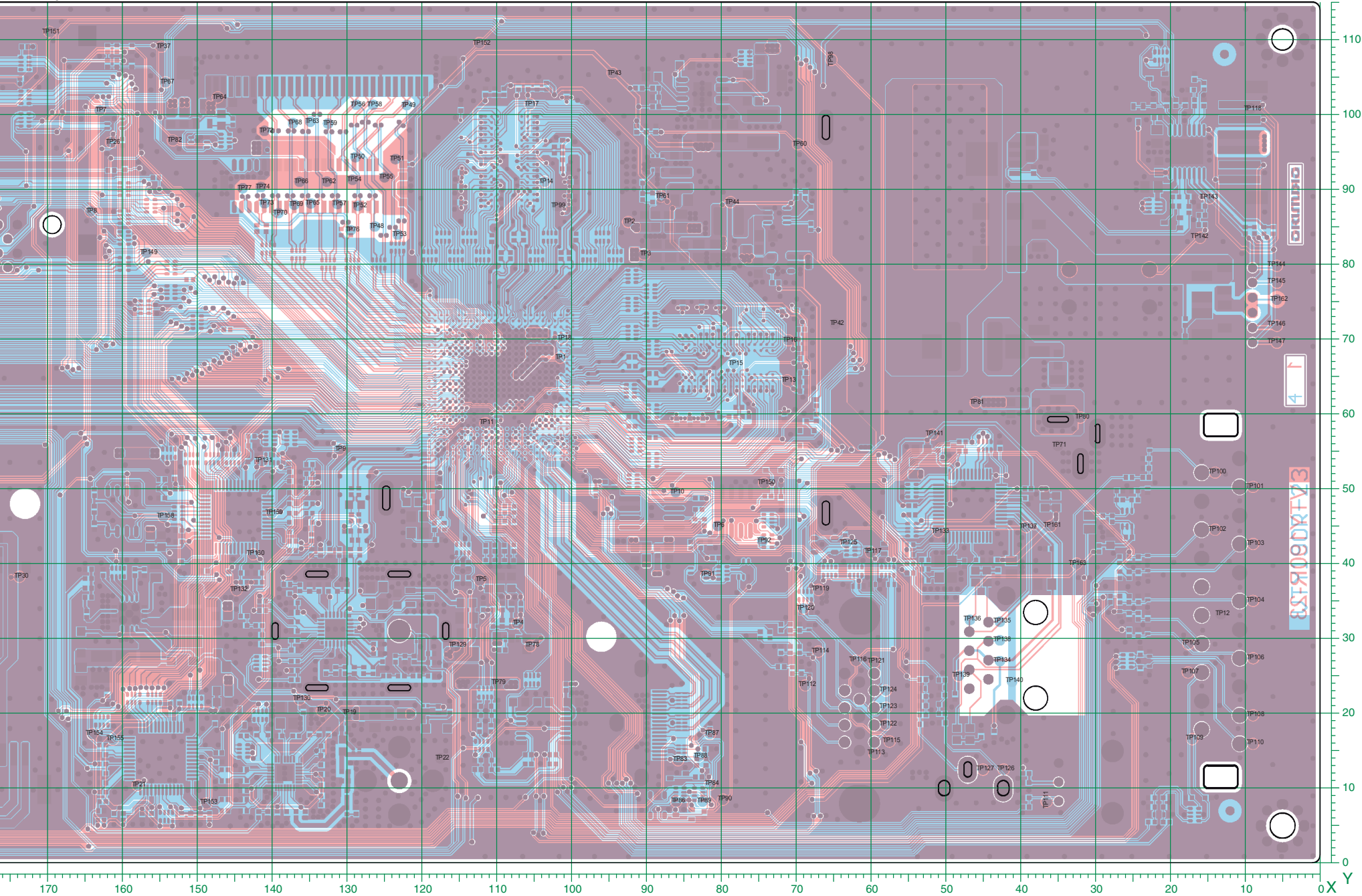
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R807	T 110	40	R917	T 53	21	R1106	T 48	55	RP700	T 86	9	TP1	B 102	68	TP46	B 221	16	TP91	B 82	39	TP136	B 47	33
R808	T 26	41	R918	T 58	39	R1107	T 48	56	RP701	T 231	47	TP2	B 92	86	TP47	B 222	20	TP92	B 75	43	TP137	B 39	45
R809	T 24	41	R1000	T 114	35	R1108	T 55	43				TP3	B 90	81	TP48	B 126	85	TP93	B 231	53	TP138	B 43	30
R810	T 24	31	R1001	T 136	37	R1109	T 43	56	S400	T 195	95	TP4	B 107	32	TP49	B 122	101	TP94	B 232	50	TP139	B 48	25
R811	T 24	35	R1002	T 134	37	R1110	T 53	41	S500	T 237	15	TP5	B 112	38	TP50	B 129	94	TP95	B 233	43	TP140	B 41	24
									S501	T 175	10												
R812	T 24	39	R1003	T 125	25	R1111	T 53	39	S600	T 35	55	TP6	B 80	45	TP51	B 124	94	TP96	B 230	47	TP141	B 52	57
R813	T 26	33	R1004	T 131	37	R1112	T 55	41	S601	T 240	109	TP7	B 163	101	TP52	B 129	88	TP97	B 232	47	TP142	B 16	84
R814	T 27	35	R1005	T 137	27	R1113	T 55	48	S602	T 222	9	TP8	B 164	87	TP53	B 123	84	TP98	B 65	107	TP143	B 15	89
R815	T 17	7	R1006	T 137	26	R1114	T 49	17	S603	T 240	97	TP9	B 131	55	TP54	B 129	91	TP99	B 102	88	TP144	B 6	80
R816	T 23	9	R1007	T 137	30	R1115	T 47	17	S604	T 240	86	TP10	B 86	50	TP55	B 125	92	TP100	B 14	52	TP145	B 6	78
									S606	T 240	74												
R817	T 21	9	R1008	T 129	43	R1116	T 55	50	S607	T 210	8	TP11	B 112	59	TP56	B 127	101	TP101	B 9	50	TP146	B 6	72
R818	T 105	25	R1009	T 137	25	R1117	T 55	39				TP12	B 13	33	TP57	B 131	88	TP102	B 14	45	TP147	B 6	70
R819	T 26	27	R1010	T 135	51	R1118	T 55	40	S608	T 133	90	TP13	B 71	64	TP58	B 129	101	TP103	B 9	43	TP148	B 204	104
R820	T 112	16	R1011	T 135	53	R1119	T 37	48	S609	T 136	90	TP14	B 104	91	TP59	B 133	99	TP104	B 9	35	TP149	B 157	82
R821	T 112	23	R1012	T 142	27	R1120	T 35	48	S610	T 134	105	TP15	B 78	67	TP60	B 70	96	TP105	B 18	29	TP150	B 74	51
									S611	T 235	34												
R822	T 106	13	R1013	T 137	50	R1200	T 18	72	S612	T 134	105	TP16	B 71	70	TP61	B 88	89	TP106	B 9	27	TP151	B 170	111
R823	T 113	21	R1014	T 164	50	R1201	T 18	70	S700	T 93	19	TP17	B 106	101	TP62	B 133	91	TP107	B 18	25	TP152	B 112	110
R824	T 103	13	R1015	T 153	47	R1202	T 22	88	S702	T 241	59	TP18	B 101	70	TP63	B 135	99	TP108	B 9	20	TP153	B 149	8
R825	T 110	21	R1016	T 134	42	R1203	T 19	88	S800	T 13	35	TP19	B 130	20	TP64	B 147	102	TP109	B 17	17	TP154	B 164	17
R826	T 28	46	R1017	T 135	42	R1204	T 38	93				TP20	B 133	20	TP65	B 135	88	TP110	B 9	16	TP155	B 161	17
									S801	T 32	11												
R827	T 26	44	R1018	T 135	44	R1205	T 16	85	S900	T 62	21	TP21	B 158	10	TP66	B 136	91	TP111	B 37	8	TP156	B 233	11
R828	T 39	8	R1019	T 144	33	R1206	T 38	97	S901	T 47	10	TP22	B 118	14	TP67	B 154	104	TP112	B 69	24	TP157	B 222	9
R829	T 27	49	R1020	T 145	54	R1207	T 16	87	S1000	T 123	31	TP23	B 207	98	TP68	B 137	99	TP113	B 60	15	TP158	B 155	46
R830	T 25	49	R1021	T 142	31	R1208	T 19	89	S1100	T 41	28	TP24	B 224	67	TP69	B 137	88	TP114	B 67	28	TP159	B 140	47
R831	T 29	46	R1022	T 142	32	R1209	T 18	87				TP25	B 193	94	TP70	B 139	87	TP115	B 58	16	TP160	B 143	41
									S1200	T 9	75												
R832	T 27	50	R1023	T 148	54	R1210	T 22	100	S1215	T 9	96	TP26	B 162	96	TP71	B 35	56	TP116	B 62	27	TP161	B 36	45
R833	T 113	13	R1024	T 151	54	R1211	T 38	95				TP27	B 186	18	TP72	B 141	98	TP117	B 60	42	TP162	B 6	75
R834	T 110	13	R1025	T 153	50	R1212	T 17	103	SH300	T 125	49	TP28	B 181	18	TP73	B 141	88	TP118	B 9	101	TP163	B 33	40
R900	T 71	29	R1026	T 137	47	R1213	T 17	102	SH301	T 66	47	TP29	B 178	39	TP74	B 142	90	TP119	B 67	37			
R901	T 71	26	R1027	T 135	47	R1214	T 16	102	SH303	T 66	98	TP30	B 174	38	TP75	B 229	23	TP120	B 69	34	X100	T 121	45
									SP1	T 173	48										X300	T 138	20
R902	T 70	29	R1028	T 155	50	R1215	T 10	85	SP2	T 96	30	TP31	B 198	45	TP76	B 130	85	TP121	B 60	27	X1000	T 126	36
R903	T 71	32	R1029	T 128	44	R1216	T 16	88				TP32	B 239	19	TP77	B 144	90	TP122	B 58	19	X1100	T 50	39
R904	T 108	45	R1030	T 155	51	R1217	T 17	105	T300	T 144	20	TP33	B 235	15	TP78	B 106	29	TP123	B 58	21			
R905	T 70	32	R1031	T 130	44	R1218	T 16	104	T500	T 217	50	TP34	B 239	60	TP79	B 110	24	TP124	B 58	23			
R906	T 72	29	R1033	T 128	46	R1219	T 9	85	T600	T 219	20	TP35	B 232	29	TP80	B 32	60	TP125	B 63	43			
									T601	T 22	105												
R907	T 69	26	R1034	T 129	46	R1220	T 8	85	T603	T 149	100	TP36	B 236	21	TP81	B 46	62	TP126	B 42	13			
R908	T 110	45	R1035	T 153	40	R1221	T 6	85				TP37	B 155	109	TP82	B 153	97	TP127	B 45	13			
R909	T 109	45	R1036	T 129	48	R1223	T 22	102	T604	T 150	96	TP38	B 234	40	TP83	B 86	14	TP128	B 239	37			
R910	T 69	36	R1037	T 140	54	R1224	T 19	102	T700	T 86	12	TP39	B 227	33	TP84	B 82	11	TP129	B 116	29			
R911	T 66	39	R1100	T 39	50	R1225	T 18	102	T701	T 83	39	TP40	B 227	35	TP85	B 212	6	TP130	B 136	22			
									T702	T 77	39												
R912	T 63	42	R1101	T 45	56	RP400	T 160	86	T704	T 231	52	TP41	B 242	22	TP86	B 86	8	TP131	B 141	54			
R913	T 62	39	R1102	T 55	45	RP500	T 196	27				TP42	B 65	72	TP87	B 82	17	TP132	B 145	36			
R914	T 50	20	R1103	T 46	38	RP501	T 192	32	T800	T 26	46	TP43	B 95	106	TP88	B 83	14	TP133	B 51	44			
R915	T 53	20	R1104	T 39	49	RP502	T 192	38	T1000	T 120	36	TP44	B 79	88	TP89	B 83	8	TP134	B 43	27			
R916	T 50	21	R1105	T 45	38	RP503	T 192	45	T1200	T 44	94	TP45	B 224	15	TP90	B 80	9	TP135	B 43	32			



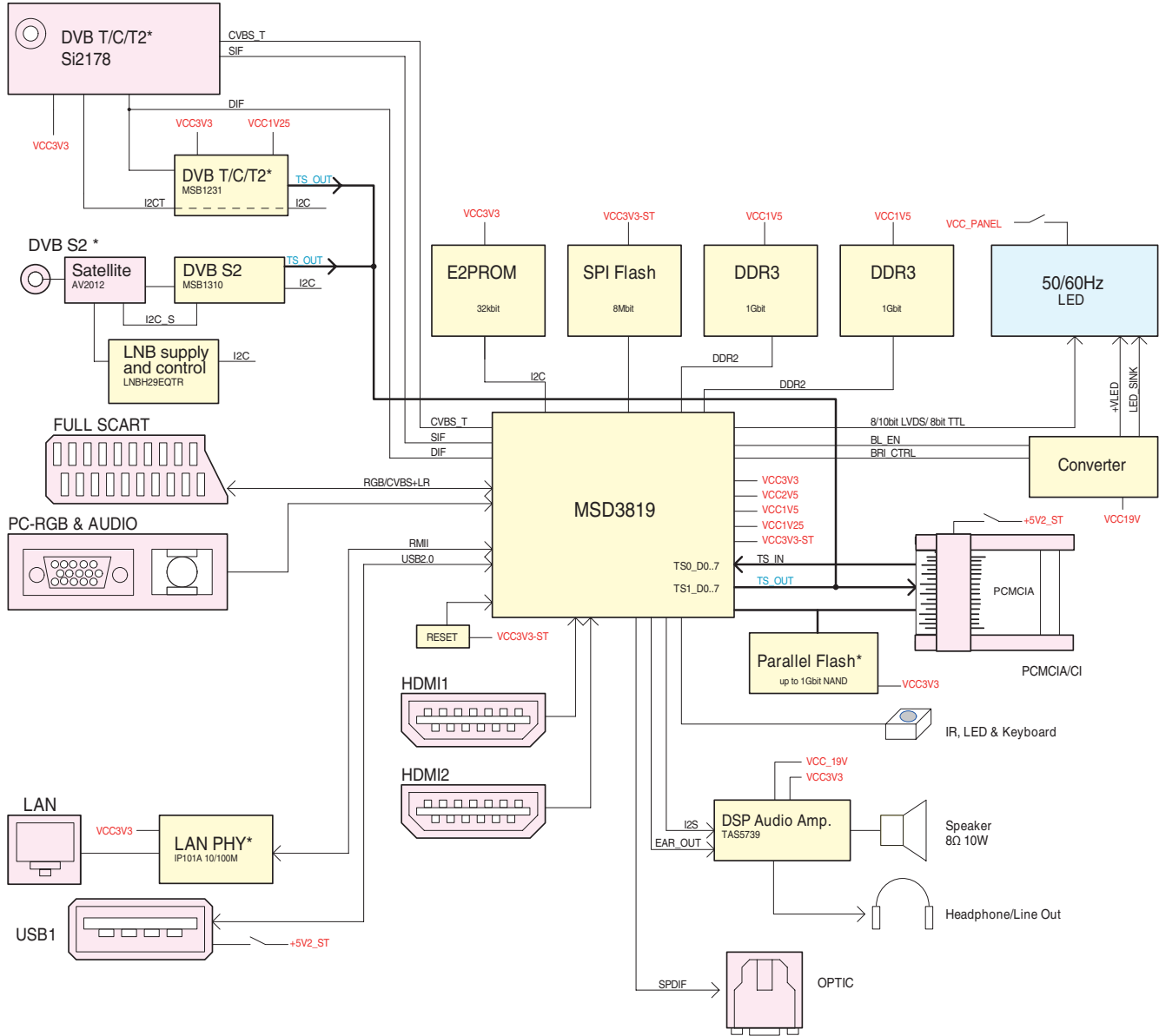






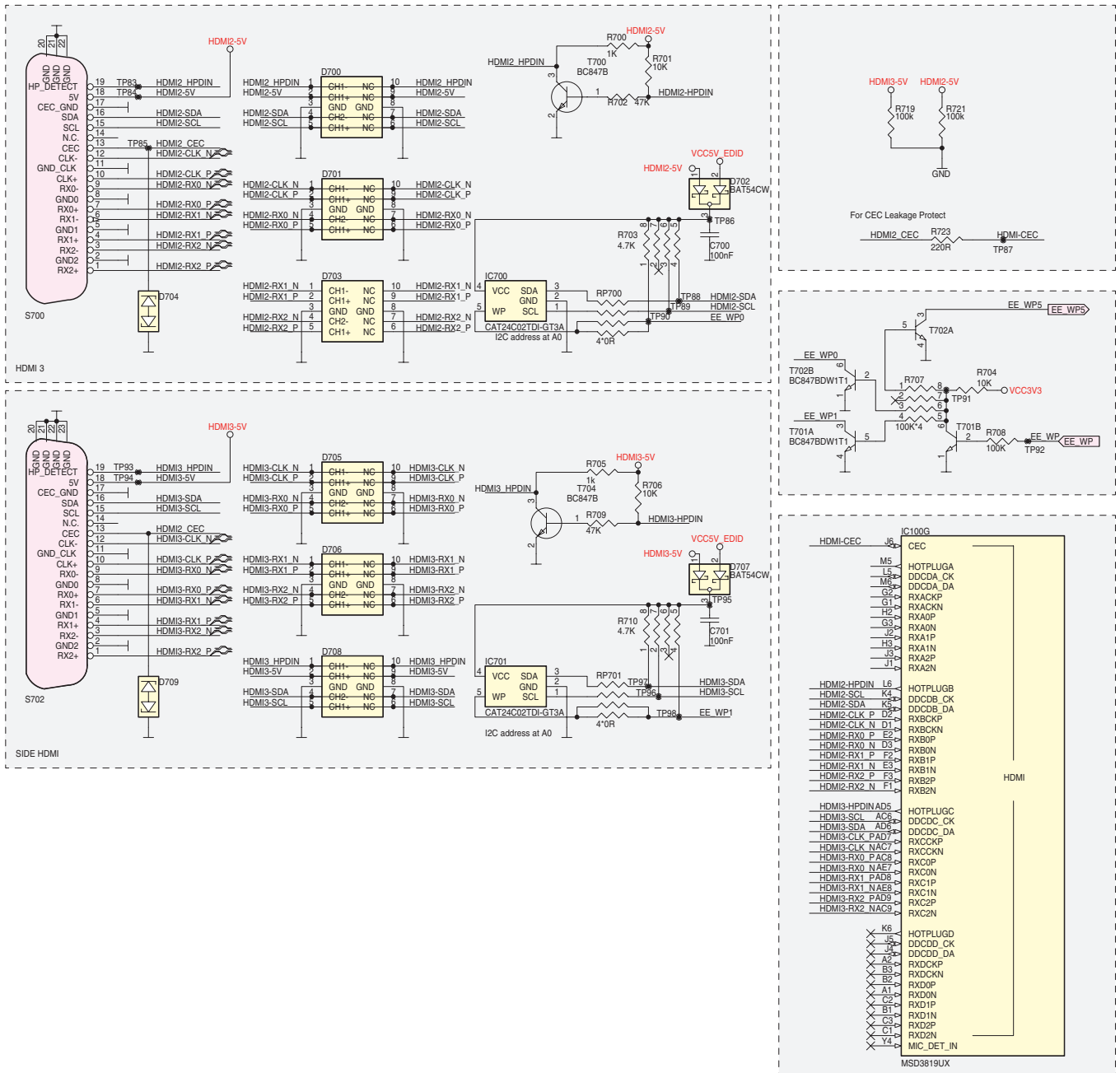


Chassisplatte – Blockschartplan / Chassis Board – Block Circuit Diagram (VTY190R-23)

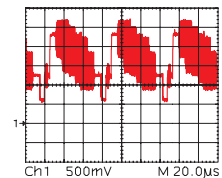
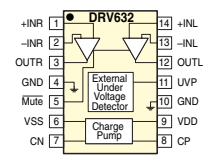
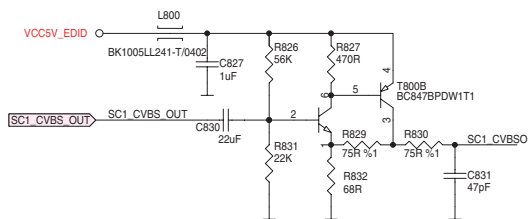
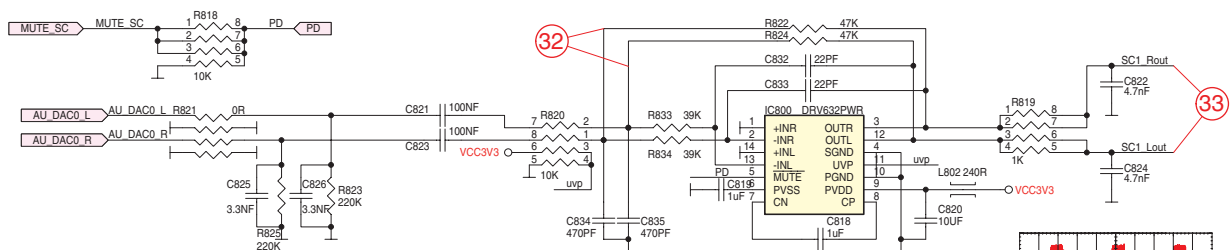
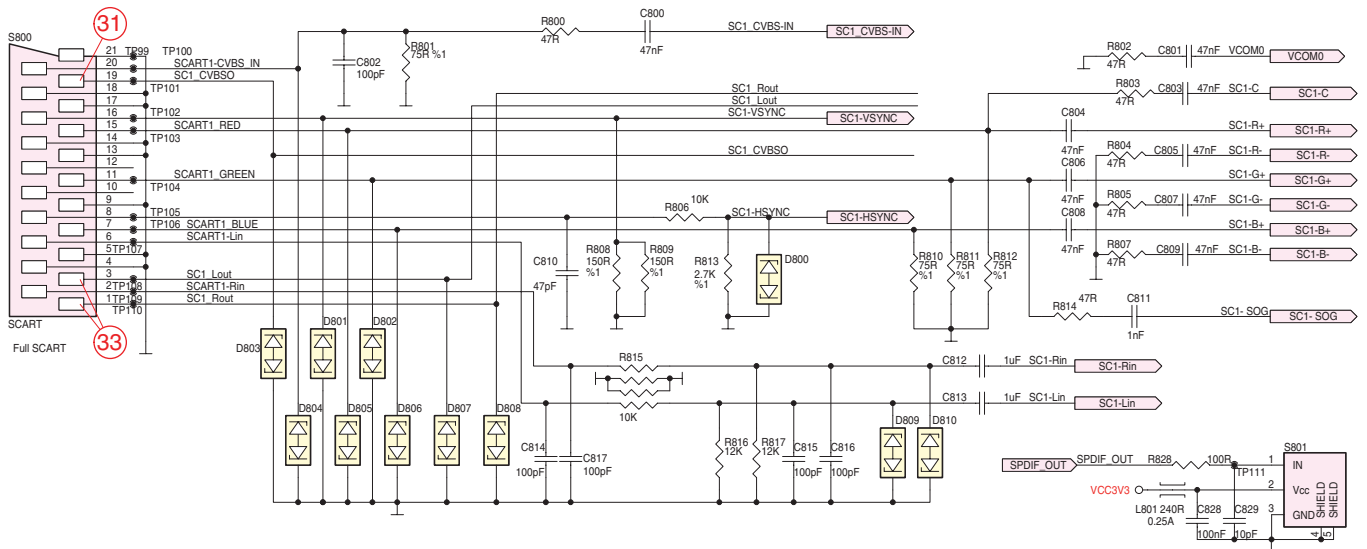


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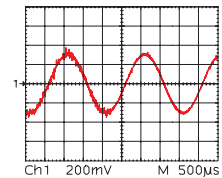
Chassisplatte / Chassis Board – HDMI (VTY190R-23)



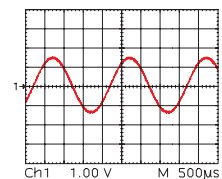
Chassisplatte / Chassis Board – SCART, VGA (VTY190R-23)



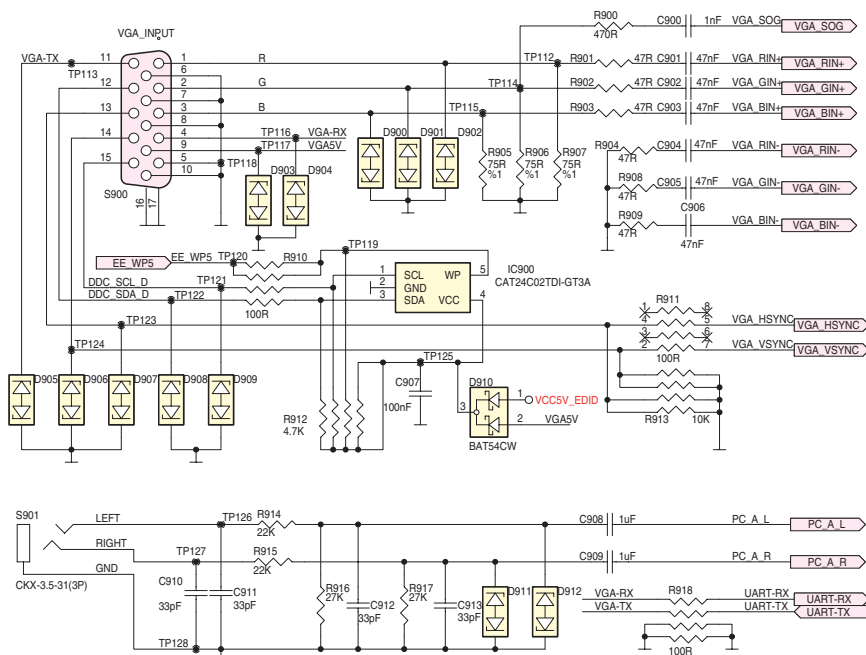
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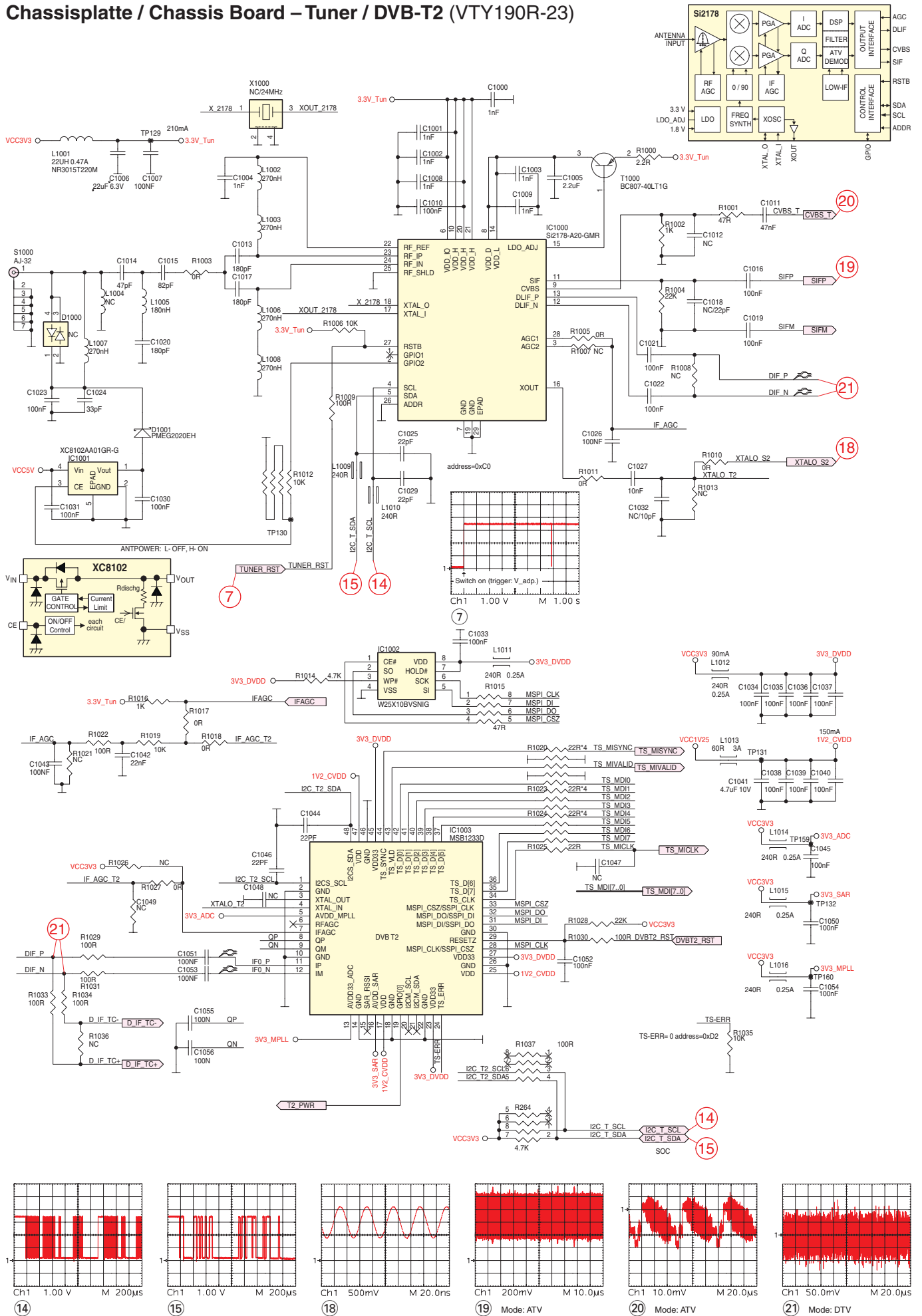
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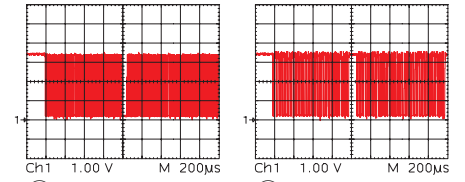
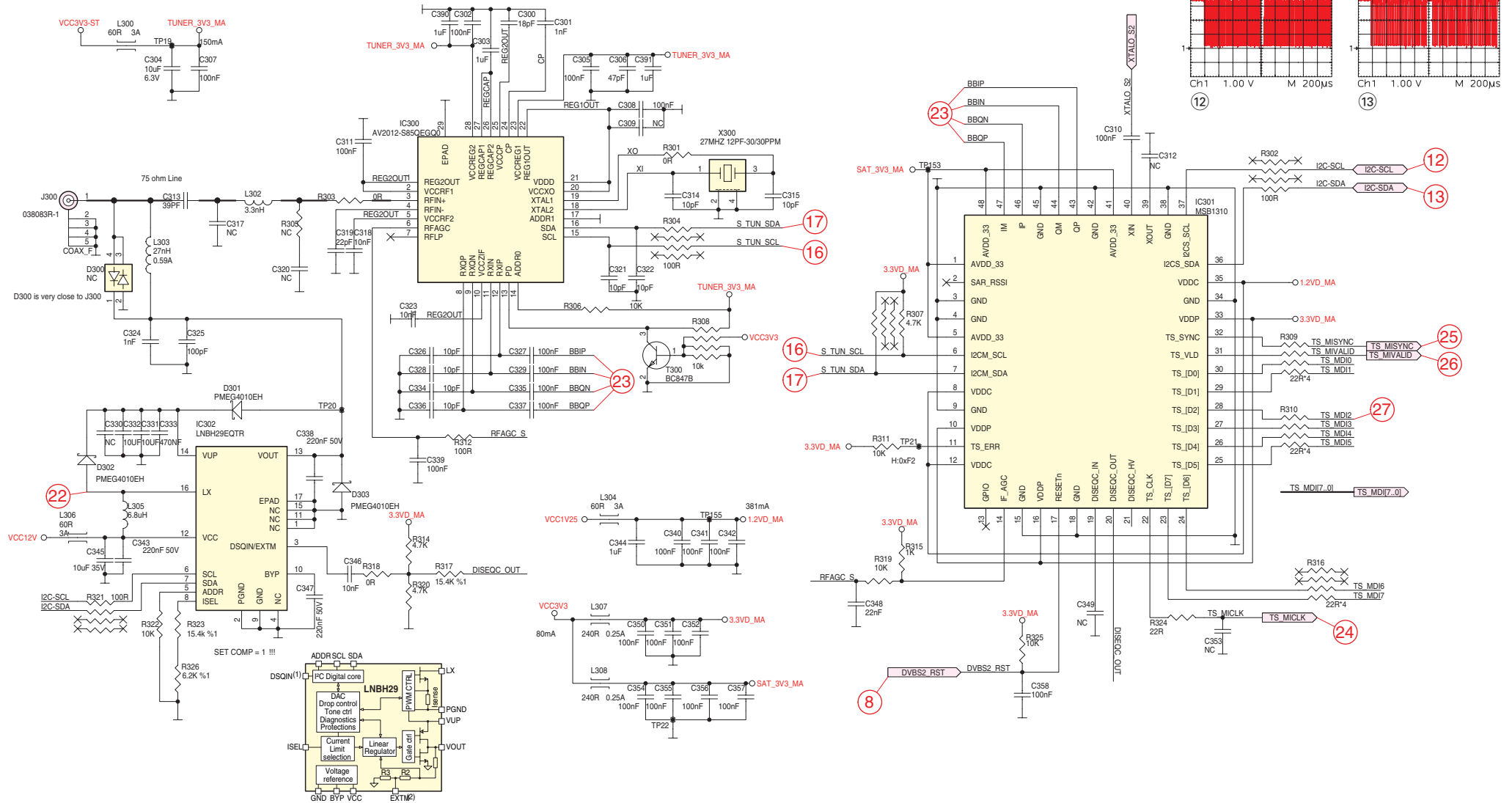
33



Chassisplatte / Chassis Board – Tuner / DVB-T2 (VTY190R-23)



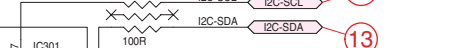
Chassisplatte / Chassis Board – DVB-S (VTY190R-23)



12 13



16 17



22 23



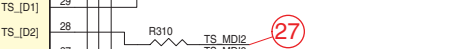
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26 27



28 29



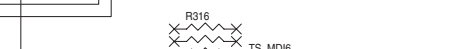
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32 33



34 35



36 37



38 39



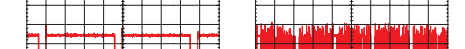
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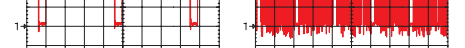
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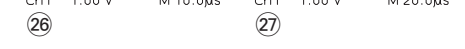
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46 47



48 49

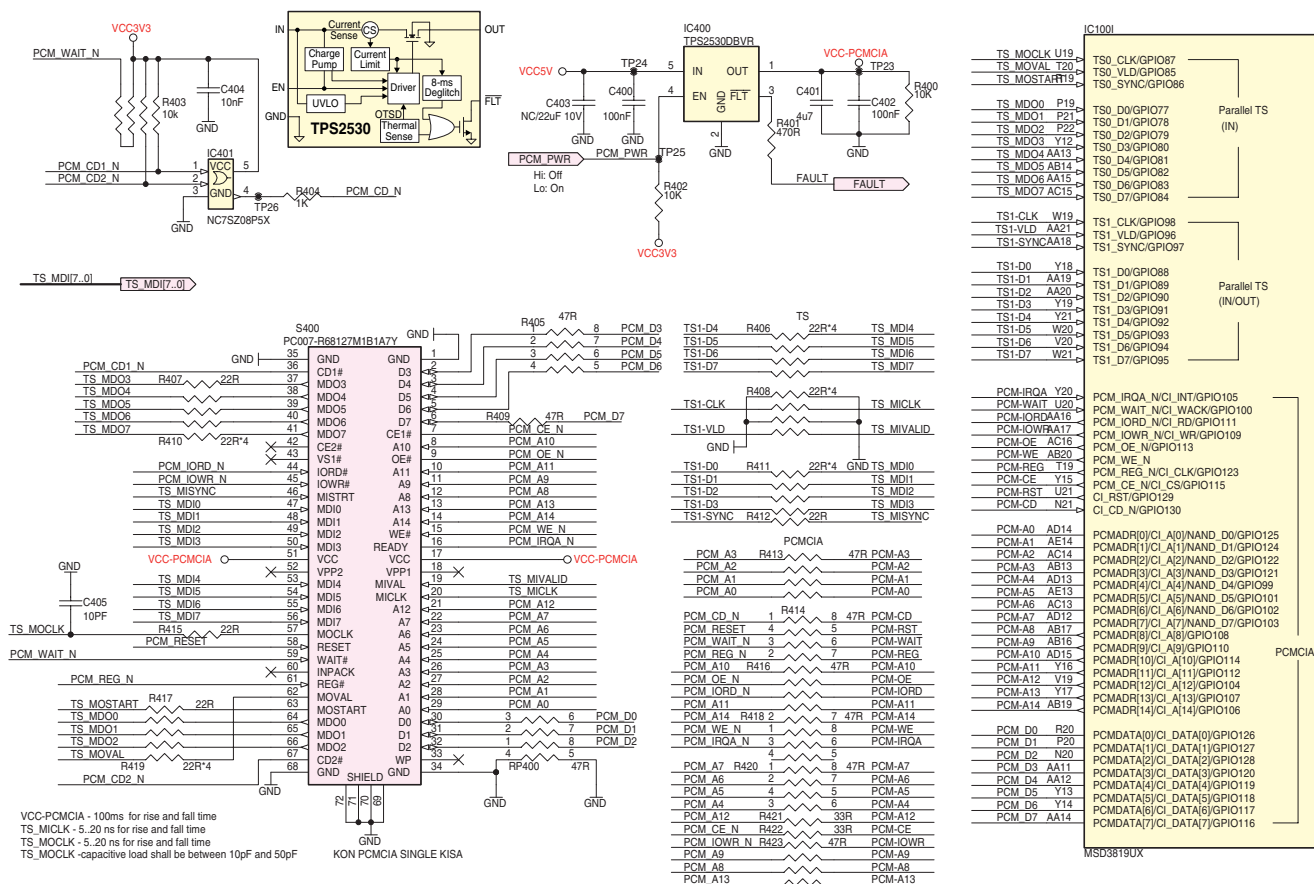


50 51

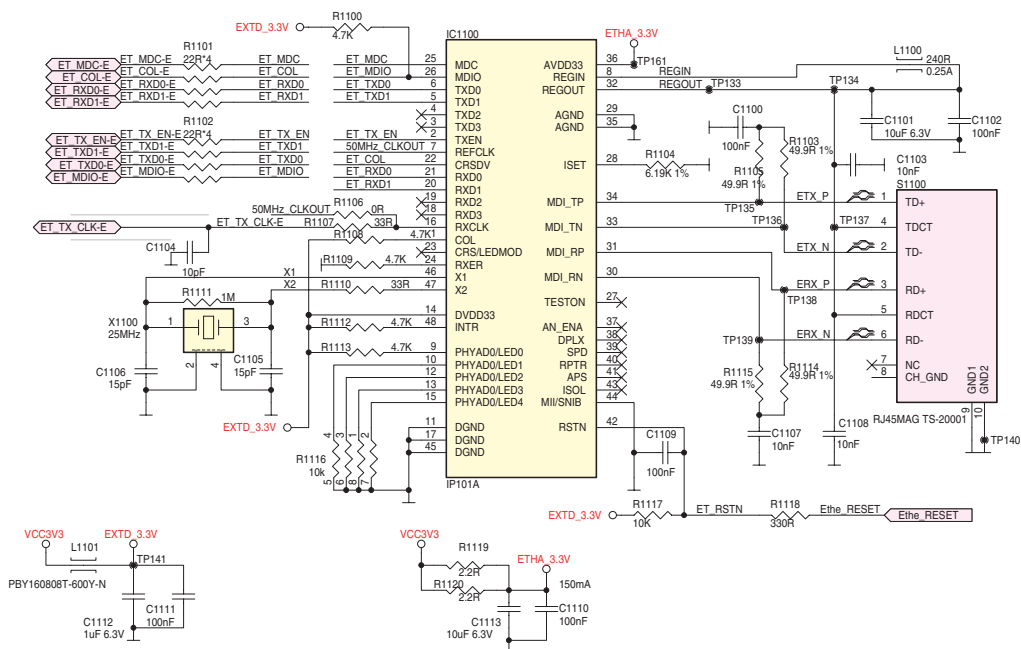


52 53

Chassisplatte / Chassis Board – PCMCIA-Interface (VTY190R-23)



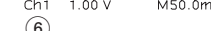
Chassisplatte / Chassis Board – LAN (VTY190R-23)

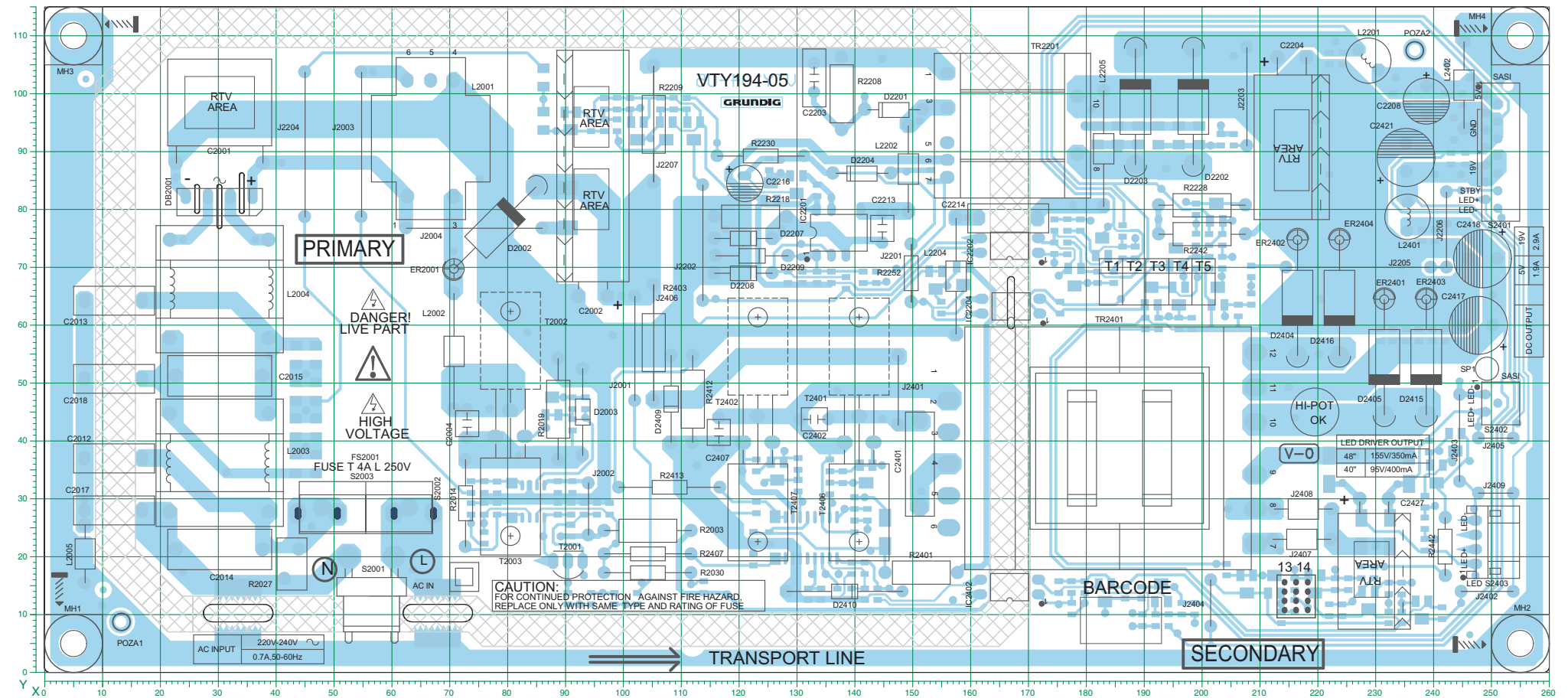


The image shows a complex PCB layout for the AP810 module, organized into several functional blocks. The layout includes various components, their values, and their connections to the AP810 chip and other external devices.

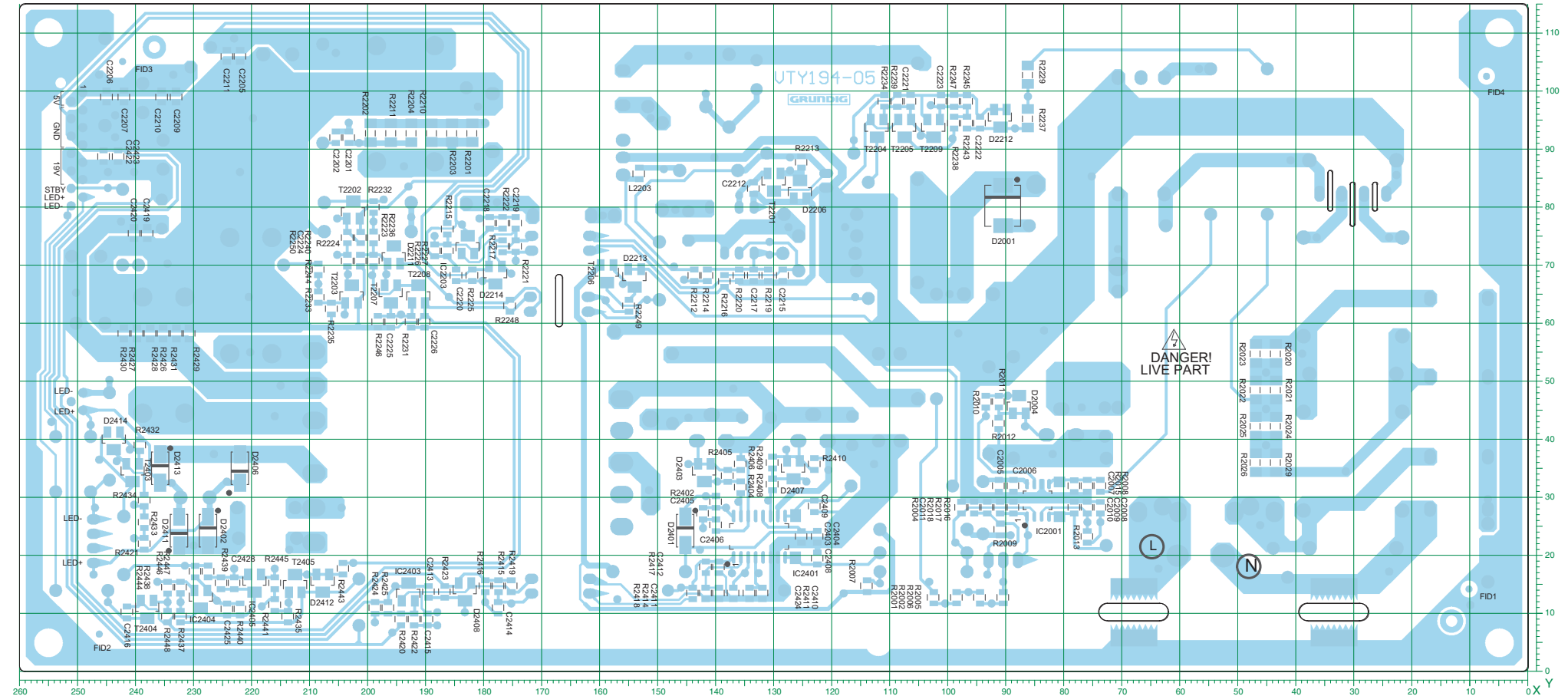
Functional Blocks and Components:

- USB Block:** Includes USB1 P, USB1 N, and USB1 GND connections.
- Video Block:** Includes SC1 CVBS OUT, SC1 CVBS IN, SC1 HSYNC, SC1 VSYNC, SC1+H, SC1+V, SC1+G, SC1+B, SC1+R, SC1+G, SC1+B, SC1+R, VCOM0, SC1-C, SC1-SOG, VGA SOG, VGA HSYNC, VGA VSYNC, VGA RIN+, VGA GIN+, VGA BIN+, VGA RIN-, VGA GIN-, and VGA BIN- connections.
- Audio Block:** Includes SIF N, SIF P, SC1-Lin, SC1-Rin, PC A R, PC A L, SPDIF OUT, AU DAC0 L, AU DAC0 R, EAR OUT L, and EAR OUT R connections.
- I2C/UART Block:** Includes I2C T SCL, I2C T SDA, I2C R SCL, I2C R SDA, UART-RX, UART-TX, I2S MCK, I2S BCK, I2S WS, I2S SD, PCM PWR, T2 PWR, EE WP, RESET OUT, FAULT, USB EN, DVBS2_RST, DVBS2_RST, SAR0, IIRIN, LED R, HP DETECT, POWER SW, BRI ADJ, TCON ON, BL CTRL, MUTE SC, AMP STB, DVBT2_RST, GPIO142, GPIO145, and IFAGC connections.
- EEPROM (Panel data):** Includes IC103 AT24C32D-SSHM-T, I2C address at A0, and various pins (A1, A2, GND, SDA, SCL, WP, E2V, E2C, E2D, E2F, E2G, E2H, E2I, E2J, E2K, E2L, E2M, E2N, E2O, E2P, E2Q, E2R, E2S, E2T, E2U, E2V, E2W, E2X, E2Y, E2Z).
- NAND FLASH:** Includes IC101 TC59NVG03SETA00B3Q, VDD, VSS, and various pins (R/B, RE, CE, FLE, WE, WP, ALE, SDA, SCL, DQ0, DQ1, DQ2, DQ3, DQ4, DQ5, DQ6, DQ7, DQ8, DQ9, DQ10, DQ11, DQ12, DQ13, DQ14, DQ15, DQ16, DQ17, DQ18, DQ19, DQ20, DQ21, DQ22, DQ23, DQ24, DQ25, DQ26, DQ27, DQ28, DQ29, DQ30, DQ31, DQ32, DQ33, DQ34, DQ35, DQ36, DQ37, DQ38, DQ39, DQ40, DQ41, DQ42, DQ43, DQ44, DQ45, DQ46, DQ47, DQ48, DQ49, DQ50, DQ51, DQ52, DQ53, DQ54, DQ55, DQ56, DQ57, DQ58, DQ59, DQ60, DQ61, DQ62, DQ63, DQ64, DQ65, DQ66, DQ67, DQ68, DQ69, DQ70, DQ71, DQ72, DQ73, DQ74, DQ75, DQ76, DQ77, DQ78, DQ79, DQ80, DQ81, DQ82, DQ83, DQ84, DQ85, DQ86, DQ87, DQ88, DQ89, DQ90, DQ91, DQ92, DQ93, DQ94, DQ95, DQ96, DQ97, DQ98, DQ99, DQ100, DQ101, DQ102, DQ103, DQ104, DQ105, DQ106, DQ107, DQ108, DQ109, DQ110, DQ111, DQ112, DQ113, DQ114, DQ115, DQ116, DQ117, DQ118, DQ119, DQ120, DQ121, DQ122, DQ123, DQ124, DQ125, DQ126, DQ127, DQ128, DQ129, DQ130, DQ131, DQ132, DQ133, DQ134, DQ135, DQ136, DQ137, DQ138, DQ139, DQ140, DQ141, DQ142, DQ143, DQ144, DQ145, DQ146, DQ147, DQ148, DQ149, DQ150, DQ151, DQ152, DQ153, DQ154, DQ155, DQ156, DQ157, DQ158, DQ159, DQ160, DQ161, DQ162, DQ163, DQ164, DQ165, DQ166, DQ167, DQ168, DQ169, DQ170, DQ171, DQ172, DQ173, DQ174, DQ175, DQ176, DQ177, DQ178, DQ179, DQ180, DQ181, DQ182, DQ183, DQ184, DQ185, DQ186, DQ187, DQ188, DQ189, DQ190, DQ191, DQ192, DQ193, DQ194, DQ195, DQ196, DQ197, DQ198, DQ199, DQ200, DQ201, DQ202, DQ203, DQ204, DQ205, DQ206, DQ207, DQ208, DQ209, DQ210, DQ211, DQ212, DQ213, DQ214, DQ215, DQ216, DQ217, DQ218, DQ219, DQ220, DQ221, DQ222, DQ223, DQ224, DQ225, DQ226, DQ227, DQ228, DQ229, DQ230, DQ231, DQ232, DQ233, DQ234, DQ235, DQ236, DQ237, DQ238, DQ239, DQ240, DQ241, DQ242, DQ243, DQ244, DQ245, DQ246, DQ247, DQ248, DQ249, DQ250, DQ251, DQ252, DQ253, DQ254, DQ255, DQ256, DQ257, DQ258, DQ259, DQ260, DQ261, DQ262, DQ263, DQ264, DQ265, DQ266, DQ267, DQ268, DQ269, DQ270, DQ271, DQ272, DQ273, DQ274, DQ275, DQ276, DQ277, DQ278, DQ279, DQ280, DQ281, DQ282, DQ283, DQ284, DQ285, DQ286, DQ287, DQ288, DQ289, DQ290, DQ291, DQ292, DQ293, DQ294, DQ295, DQ296, DQ297, DQ298, DQ299, DQ300, DQ301, DQ302, DQ303, DQ304, DQ305, DQ306, DQ307, DQ308, DQ309, DQ310, DQ311, DQ312, DQ313, DQ314, DQ315, DQ316, DQ317, DQ318, DQ319, DQ320, DQ321, DQ322, DQ323, DQ324, DQ325, DQ326, DQ327, DQ328, DQ329, DQ330, DQ331, DQ332, DQ333, DQ334, DQ335, DQ336, DQ337, DQ338, DQ339, DQ340, DQ341, DQ342, DQ343, DQ344, DQ345, DQ346, DQ347, DQ348, DQ349, DQ350, DQ351, DQ352, DQ353, DQ354, DQ355, DQ356, DQ357, DQ358, DQ359, DQ360, DQ361, DQ362, DQ363, DQ364, DQ365, DQ366, DQ367, DQ368, DQ369, DQ370, DQ371, DQ372, DQ373, DQ374, DQ375, DQ376, DQ377, DQ378, DQ379, DQ380, DQ381, DQ382, DQ383, DQ384, DQ385, DQ386, DQ387, DQ388, DQ389, DQ390, DQ391, DQ392, DQ393, DQ394, DQ395, DQ396, DQ397, DQ398, DQ399, DQ400, DQ401, DQ402, DQ403, DQ404, DQ405, DQ406, DQ407, DQ408, DQ409, DQ410, DQ411, DQ412, DQ413, DQ414, DQ415, DQ416, DQ417, DQ418, DQ419, DQ420, DQ421, DQ422, DQ423, DQ424, DQ425, DQ426, DQ427, DQ428, DQ429, DQ430, DQ431, DQ432, DQ433, DQ434, DQ435, DQ436, DQ437, DQ438, DQ439, DQ440, DQ441, DQ442, DQ443, DQ444, DQ445, DQ446, DQ447, DQ448, DQ449, DQ450, DQ451, DQ452, DQ453, DQ454, DQ455, DQ456, DQ457, DQ458, DQ459, DQ460, DQ461, DQ462, DQ463, DQ464, DQ465, DQ466, DQ467, DQ468, DQ469, DQ470, DQ471, DQ472, DQ473, DQ474, DQ475, DQ476, DQ477, DQ478, DQ479, DQ480, DQ481, DQ482, DQ483, DQ484, DQ485, DQ486, DQ487, DQ488, DQ489, DQ490, DQ491, DQ492, DQ493, DQ494, DQ495, DQ496, DQ497, DQ498, DQ499, DQ500, DQ501, DQ502, DQ503, DQ504, DQ505, DQ506, DQ507, DQ508, DQ509, DQ510, DQ511, DQ512, DQ513, DQ514, DQ515, DQ516, DQ517, DQ518, DQ519, DQ520, DQ521, DQ522, DQ523, DQ524, DQ525, DQ526, DQ527, DQ528, DQ529, DQ530, DQ531, DQ532, DQ533, DQ534, DQ535, DQ536, DQ537, DQ538, DQ539, DQ540, DQ541, DQ542, DQ543, DQ544, DQ545, DQ546, DQ547, DQ548, DQ549, DQ550, DQ551, DQ552, DQ553, DQ554, DQ555, DQ556, DQ557, DQ558, DQ559, DQ560, DQ561, DQ562, DQ563, DQ564, DQ565, DQ566, DQ567, DQ568, DQ569, DQ570, DQ571, DQ572, DQ573, DQ574, DQ5





POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y									
C2001	T	30	88	C2205	B	222	106	C2225	B	196	60	C2419	B	238	76	D2209	T	122	72	D2416	T	224	65	J2003	T	55	91	L2002	T	71	56	R2010	B	94	47	R2201	B	182	93	R2224	B	204	75	R2245	B	97	98
C2002	T	95	65	C2206	B	245	99	C2226	B	190	60	C2420	B	240	76	D2211	B	196	72	DB2001	T	30	82	J2004	T	74	77	L2003	T	30	36	R2011	B	91	47	R2202	B	200	93	R2225	B	182	68	R2246	B	198	60
C2004	T	73	43	C2207	B	242	99	C2401	T	151	36	C2421	T	235	89	D2212	B	91	95	ER2001	T	71	70	J2201	T	150	69	L2004	T	30	66	R2012	B	91	43	R2203	B	186	93	R2226	B	189	73	R2247	B	99	98
C2005	B	91	32	C2208	T	239	99	C2402	T	133	44	C2422	B	246	89	D2213	B	154	68	ER2401	T	232	65	J2202	T	114	74	L2005	T	7	21	R2013	B	76	23	R2204	B	193	93	R2227	B	186	73	R2248	B	176	63
C2006	B	89	32	C2209	B	233	99	C2403	B	125	23	C2423	B	243	89	D2214	B	178	68	ER2402	T	217	75	J2203	T	208	100	L2201	T	229	106	R2014	T	73	29	R2208	T	138	100	R2228	T	200	81	R2249	B	155	63
C2007	B	78	32	C2210	B	236	99	C2404	B	123	23	C2424	B	137	14	D2401	B	145	24	ER2403	T	239	65	J2204	T	45	91	L2202	T	149	87	R2015	B	76	32	R2209	T	105	95	R2229	B	86	103	R2250	B	204	71
C2008	B	74	28	C2211	B	224	106	C2405	B	142	27	C2425	B	224	11	D2402	B	228	24	ER2404	T	224	75	J2205	T	227	70	L2203	B	153	86	R2016	B	89	28	R2210	B	189	93	R2230	T	124	89	R2252	T	150	69
C2009	B	76	28	C2212	B	134	83	C2406	B	140	25	C2427	T	230	30	D2403	B	142	34	FS2001	T	59	32	J2206	T	242	77	L2204	T	158	69	R2017	B	91	28	R2211	B	196	93	R2231	B	193	60	R2401	T	152	17
C2010	B	78	28	C2213	T	145	77	C2407	T	117	42	C2428	B	223	15	D2404	T	217	65	IC2001	B	85	30	J2207	T	105	95	L2205	T	183	91	R2018	B	93	28	R2212	B	144	68	R2232	B	199	80	R2402	B	140	29
C2011	B	96	28	C2214	T	167	79	C2408	B	123	20	D2001	B	91	80	D2405	T	232	55	IC2201	T	137	76	J2401	T	148	49	L2401	T	236	79	R2019	T	89	46	R2213	B	125	88	R2233	B	209	65	R2403	T	105	57
C2012	T	12	37	C2215	B	129	68	C2409	B	123	29	D2002	T	78	77	D2406	B	222	35	IC2202	T	167	74	J2402	T	249	14	L2402	T	245	102	R2020	B	44	55	R2214	B	142	68	R2234	B	111	98	R2404	B	136	32
C2013	T	12	64	C2216	T	121	85	C2410	B	132	14	D2003	T	93	45	D2407	B	127	35	IC2203	B	183	74	J2403	T	245	41	R2001	B	103	13	R2021	B	44	49	R2215	B	186	76	R2235	B	206	63	R2405	B	138	34
C2014	T	30	21	C2217	B	134	68	C2411	B	140	14	D2004	B	88	46	D2408	B	183	14	IC2204	T	167	63	J2404	T	202	12	R2002	B	99	13	R2022	B	47	49	R2216	B	139	67	R2236	B	199	75	R2406	B	136	36
C2015	T	30	51	C2218	B	179	77	C2412	B	140	18	D2201	T	147	97	D2409	T	108	47	IC2401	B	133	23	J2405	T	251	41	R2003	T	104	25	R2023	B	47	55	R2217	B	177	73	R2237	B	86	95	R2407	T	104	21
C2017	T	12	28	C2219	B	175	77	C2413	B	190	14	D2202	T	199	98	D2410	T	138	14	IC2402	T	167	15	J2406	T	105	57	R2004	B	98	28	R2218	T	122	79	R2238	B	99	95	R2408	B	130	32				
C2018	T	12	51	C2220	B	185	68	C2414	B	178	11	D2203	T	189	98	D2411	B	233	24	IC2403	B	193	14	J2407	T	217	23	R2005	B	91	13	R2219	B	131	68	R2239	B	109	98	R2409	B	130	36				
C2201	B	203	92	C2221	B	107	98	C2415	B	190	9	D2204	T	141	86	D2412	B	208	15	IC2404	B	229	13	J2408	T	218	28	R2006	B	95	13	R2026	B	47	36	R2220	B	136	68	R2240	B	199	71	R2410	B	123	36
C2202	B	206	92	C2222	B	95	95	C2416	B	242	10	D2206	B	126	83	D2413	B	236	35	IC2405	B	220	15	J2409	T	251	31	R2007	B	114	15	R2027	T	43	19	R2221	B	175	73	R2242	T	200	76	R2411	B	134	14
C2203	T	133	103	C2223	B	101	98	C2417	T	248	60	D2207	T	121	75	D2414	B	244	40	J2001	T	102	56	L1	T	217	38	R2008	B	74	32	R2029	B	44	36	R2222	B	177	77	R2243	B	97	95	R2412	T	112	47
C2204	T	216	106	C2224	B	201	71	C2418	T	249	72	D2208	T	121	69	D2415	T	239	55	J2002	T	94	28	L2001	T	67	92	R2009	B	91	25	R2230	T	104	17	R2223	B	201	75	R2244	B	209	69	R2413	T	108	32



POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y												
R2414	B	142	14	R2434	B	239	30	T2001	T	91	19	TP2	B	100	65	TP22	B	74	26	TP42	B	202	91	TP65	B	118	77	TP85	B	105	92	TP105	B	142	30	TP125	B	121	35	TP145	B	232	12	TP165	B	224	33
R2415	B	178	15	R2435	B	214	10	T2002	T	81	43	TP3	B	97	14	TP23	B	76	26	TP43	B	145	106	TP66	B	160	79	TP86	B	86	99	TP106	B	152	31	TP126	B	220	55	TP146	B	211	17	TP166	B	234	33
R2416	B	180	15	R2437	B	232	10	T2003	T	81	45	TP4	B	103	16	TP24	B	81	27	TP44	B	142	100	TP67	B	178	81	TP87	B	116	92	TP107	B	145	44	TP127	B	124	33	TP147	B	245	12	TP167	B	255	43
R2417	B	142	18	R2438	B	232	15	T2201	B	130	84	TP5	B	101	12	TP25	B	82	38	TP48	B	203	95	TP68	B	128	77	TP88	B	99	92	TP108	B	205	28	TP128	B	131	30	TP148	B	188	8	TP168	B	245	86
R2418	B	144	14	R2439	B	225	15	T2202	B	203	80	TP6	B	98	58	TP26	B	140	89	TP49	B	194	87	TP69	B	131	74	TP89	B	152	64	TP109	B	248	43	TP129	B	113	36	TP149	B	188	10	TP169	B	181	97
R2419	B	175	15	R2440	B	222	11	T2203	B	203	65	TP7	B	71	73	TP27	B	84	59	TP50	B	193	84	TP70	B	131	72	TP90	B	199	78	TP110	B	138	28	TP130	B	243	36	TP150	B	236	16	TP170	B	184	77
R2420	B	194	9	R2441	B	216	12	T2204	B	112	94	TP8	B	118	14	TP28	B	46	25	TP51	B	220	95	TP71	B	116	65	TP91	B	197	68	TP111	B	142	25	TP131	B	133	17	TP151	B	216	18	TP171	B	195	15
R2421	B	239	22	R2442	T	242	22	T2205	B	108	94	TP9	B	93	12	TP29	B	39	55	TP52	B	246	103	TP72	B	175	71	TP92	B	199	68	TP112	B	145	36	TP132	B	126	27	TP152	B	226	12	TR2201	T	167	95
R2422	B	192	9	R2443	B	204	18	T2206	B	159	69	TP10	B	77	46	TP30	B	37	75	TP53	B	234	103	TP73	B	175	69	TP93	B	103	98	TP113	B	214	21	TP133	B	241	38	TP153	B	243	78	TR2401	T	183	39
R2423	B	187	14	R2444	B	235	15	T2207	B	196	65	TP11	B	91	16	TP31	B	45	52	TP54	B	206	107	TP74	B	181	78	TP94	B	194	62	TP114	B	230	22	TP134	B	246	37	TP154	B	196	7				
R2424	B	199	11	R2445	B	216	15	T2208	B	191	65	TP12	B	89	24	TP32	B	45	45	TP55	B	223	109	TP75	B	189	75	TP95	B	89	94	TP115	B	140	33	TP135	B	137	17	TP155	B	199	9				
R2425	B	197	11	R2446	B	230	17	T2209	B	103	94	TP13	B	23	86	TP33	B	45	39	TP56	B	151	95	TP76	B	205	78	TP96	B	186	65	TP116	B	136	29	TP136	B	146	15	TP156	B	250	65				
R2426	B	235	58	R2447	B	228	17	T2401	T	141	42	TP14	B	57	104	TP34	B	64	18	TP57	B	149	87	TP77	B	205	72	TP97	B	221	65	TP117	B	216	44	TP137	B	240	86	TP157	B	215	49				
R2427	B	240	58	R2448	B	235	10	T2402	T	123	42	TP15	B	99	22	TP35	B	7	30	TP58	B	147	70	TP78	B	197	81	TP98	B	156	67	TP118	B	137	49	TP138	B	214	12	TP158	B	223	18				
R2428	B	238	58	S2001	T	57	20	T2403	B	241	34	TP16	B	87	42	TP36	B	24	17	TP59	B	147	80	TP79	B	193	78	TP99	B	244	92	TP119	B	240	23	TP139	B	235	12	TP159	B	112	15				
R2429	B	231	58	S2002	T	56	28	T2404	B	238	11	TP17	B	93	17	TP37	B	247	28	TP60	B	127	89	TP80	B	203	68	TP100	B	159	64	TP120	B	135	17	TP140	B	157	13	TP160	B	183	10				
R2430	B	242	58	S2003	T	56	29	T2405	B	213	15	TP18	B	94	44	TP38	B	32	35	TP61	B	136	82	TP81	B	180	67	TP101	B	222	86	TP121	B	244	96	TP141	B	175	12	TP161	B	235	70				
R2431	B	233	58	S2401	T	251	91	T2406	T	141	44	TP19	B	90	48	TP39	B	24	75	TP62	B	75	85	TP82	B	204	62	TP102	B	227	38	TP122	B	128	38	TP142	B	218	11	TP162	B	180	12				
R2432	B	239	39	S2402	T	249	48	T2407	T	123	44	TP20	B	86	24	TP40	B	10	12	TP63	B	146	68	TP83	B	209	67	TP103	B	247	17	TP123	B	126	20	TP143	B	203	19	TP163	B	252	79				
R2433	B	239	26	S2403	T	247	23	TP1	B	41	88	TP21	B	81	33	TP41	B	180	95	TP64	B	127	86	TP84	B	245	83	TP104	B	143	21	TP124	B	240	29	TP144	B	232	18	TP164	B	245	50				

T:

Bestückungsseite

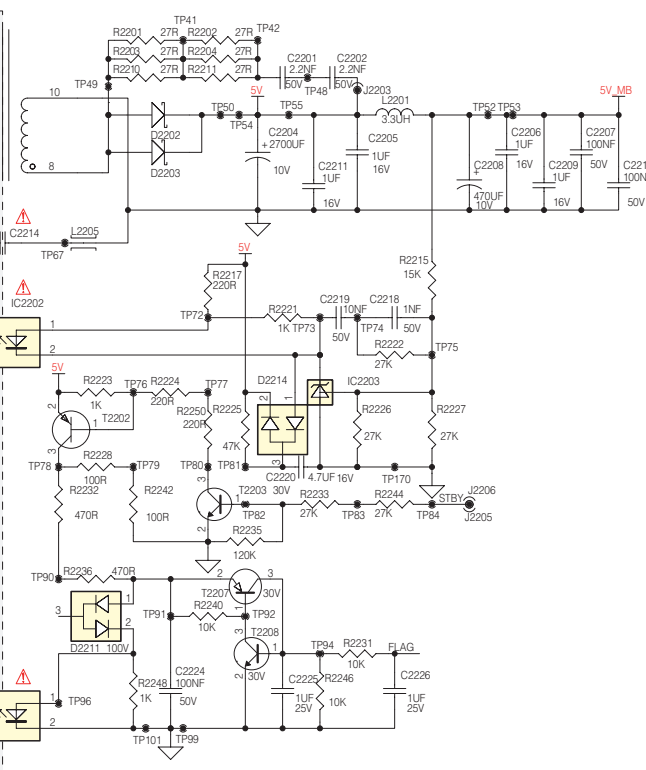
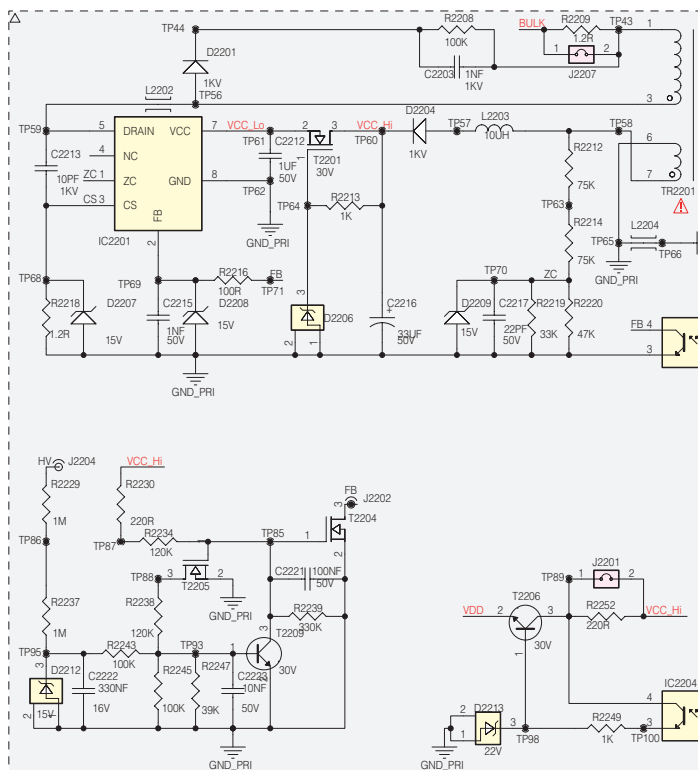
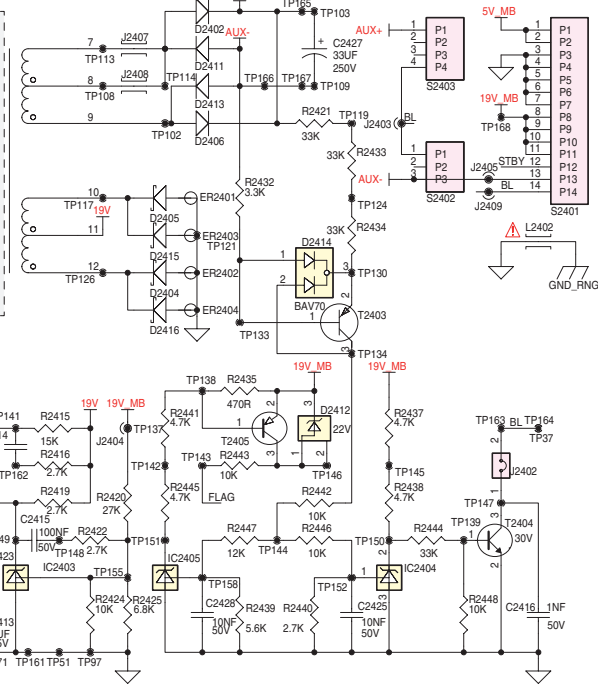
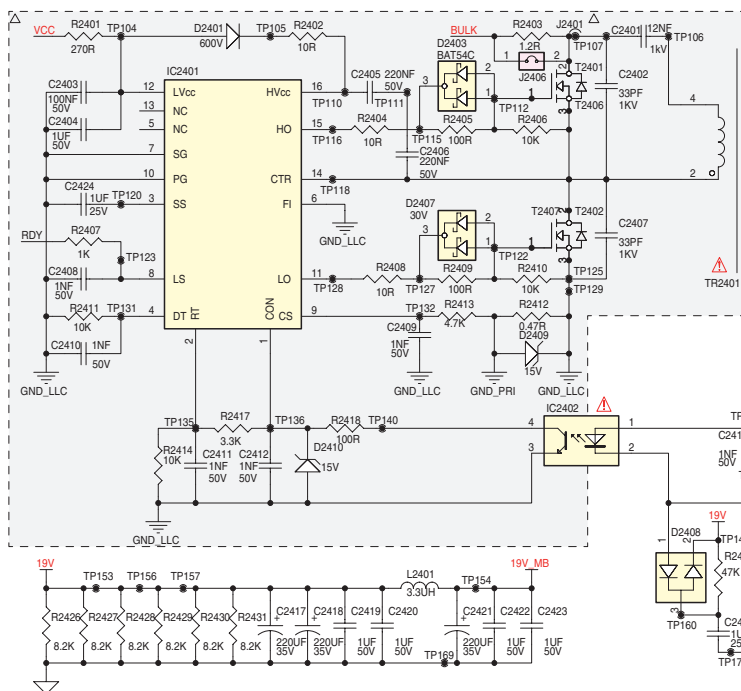
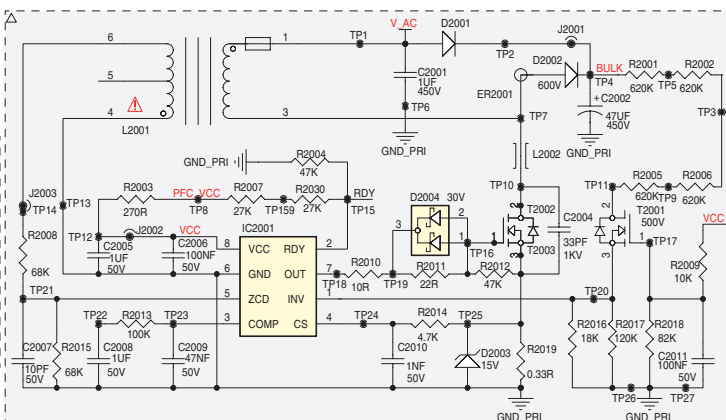
Component Side

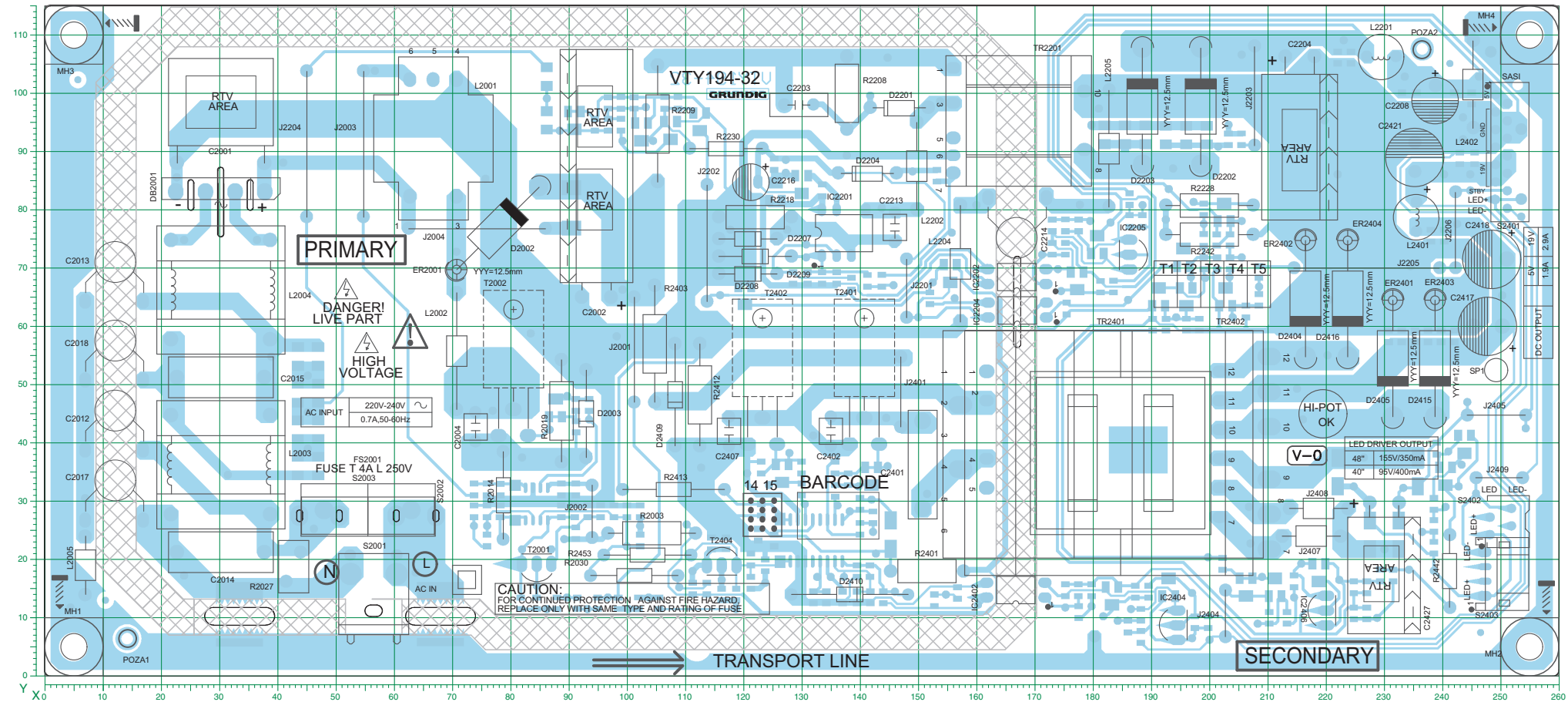
B:

Lötlseite

Solder Side

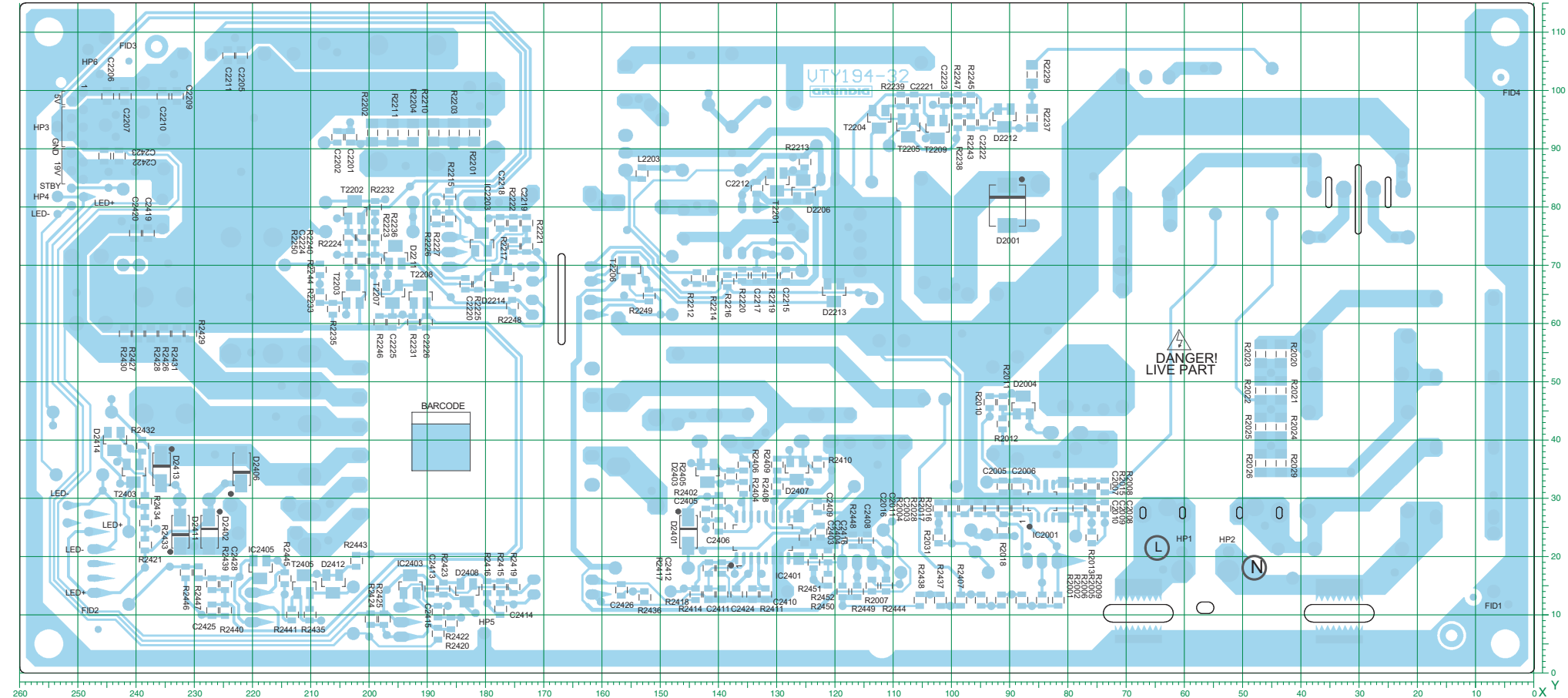
T: Bestückungsseite /
Component Side
B: Lötseite /
Solder Side





POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y												
C2001	T	30	88	C2203	T	130	98	C2223	B	101	98	C2417	T	248	60	D2206	B	126	83	D2413	B	236	35	IC2404	T	195	9	L2001	T	67	92	R2009	B	82	13	R2029	B	44	36	R2221	B	173	73	R2243	B	97	95
C2002	T	95	65	C2204	T	216	106	C2224	B	201	71	C2418	T	249	72	D2207	T	121	75	D2414	B	244	40	IC2405	B	219	18	L2002	T	71	56	R2010	B	94	47	R2030	T	101	17	R2222	B	175	77	R2244	B	209	69
C2003	B	96	28	C2205	B	222	106	C2225	B	196	60	C2419	B	238	76	D2208	T	121	69	D2415	T	239	55	IC2406	T	220	11	L2003	T	30	36	R2011	B	91	47	R2031	B	102	23	R2223	B	201	75	R2245	B	97	98
C2004	T	74	43	C2206	B	245	99	C2226	B	190	60	C2420	B	240	76	D2209	T	122	72	D2416	T	224	65	J2001	T	101	56	L2004	T	30	66	R2012	B	91	43	R2201	B	182	93	R2224	B	204	75	R2246	B	198	60
C2005	B	91	32	C2207	B	242	99	C2401	T	151	36	C2421	T	235	89	D2211	B	196	72	DB2001	T	30	83	J2002	T	94	28	L2005	T	7	19	R2013	B	76	23	R2202	B	200	93	R2225	B	181	67	R2247	B	99	98
C2006	B	89	32	C2208	T	239	99	C2402	T	135	42	C2422	B	246	89	D2212	B	91	95	ER2001	T	71	70	J2003	T	55	91	L2201	T	230	106	R2014	T	79	31	R2203	B	186	93	R2226	B	189	78	R2248	B	176	63
C2007	B	78	32	C2209	B	233	99	C2403	B	125	23	C2423	B	243	89	D2213	B	120	65	ER2401	T	232	65	J2004	T	74	77	L2202	T	150	88	R2015	B	76	32	R2204	B	193	93	R2227	B	186	78	R2249	B	152	65
C2008	B	74	28	C2210	B	236	99	C2404	B	123	24	C2424	B	137	14	D2214	B	177	68	ER2402	T	217	75	J2201	T	148	67	L2203	B	153	86	R2016	B	89	28	R2208	T	138	100	R2228	T	200	81	R2250	B	204	71
C2009	B	76	28	C2211	B	224	106	C2405	B	142	27	C2425	B	227	11	D2401	B	145	24	ER2403	T	239	65	J2202	T	114	74	L2204	T	157	71	R2017	B	91	28	R2209	T	105	95	R2229	B	86	103	R2401	T	152	18
C2010	B	78	28	C2212	B	134	83	C2406	B	140	25	C2426	B	157	14	D2402	B	128	24	ER2404	T	224	75	J2203	T	208	100	L2205	T	183	91	R2018	B	91	25	R2210	B	189	93	R2230	T	117	91	R2402	B	140	30
C2011	B	100	28	C2213	T	146	77	C2407	T	118	42	C2427	T	230	30	D2403	B	142	34	FS2001	T	59	32	J2204	T	45	91	L2401	T	236	79	R2019	T	89	46	R2211	B	196	93	R2231	B	193	60	R2403	T	105	57
C2012	T	12	39	C2214	T	167	82	C2408	B	115	23	C2428	B	225	15	D2404	T	217	65	IC2001	B	85	30	J2205	T	227	70	L2402	T	245	102	R2020	B	44	55	R2212	B	144	68	R2232	B	199	80	R2404	B	136	32
C2013	T	12	64	C2215	B	129	68	C2409	B	123	29	D2001	B	91	80	D2405	T	232	55	IC2201	T	137	76	J2206	T	242	77	R2001	B	95	13	R2021	B	44	49	R2213	B	125	88	R2233	B	209	65	R2405	B	138	34
C2014	T	30	21	C2216	T	121	85	C2410	B	132	14	D2002	T	78	77	D2406	B	222	35	IC2202	T	167	68	J2401	T	147	49	R2002	B	92	13	R2022	B	47	49	R2214	B	141	68	R2235	B	206	63	R2406	B	136	36
C2015	T	30	51	C2217	B	134	68	C2411	B	140	14	D2003	T	93	45	D2407	B	127	35	IC2203	B	181	74	J2404	T	203	11	R2003	T	104	25	R2023	B	47	55	R2215	B	186	82	R2236	B	199	75	R2407	B	99	13
C2016	B	102	28	C2218	B	178	77	C2412	B	140	18	D2004	B	88	46	D2408	B	183	14	IC2204	T	167	63	J2405	T	249	45	R2004	B	98	28	R2024	B	44	42	R2216	B	139	67	R2237	B	86	95	R2408	B	130	32
C2017	T	12	27	C2219	B	173	77	C2413	B	190	15	D2201	T	147	98	D2409	T	148	48	IC2205	T	186	72	J2407	T	218	24	R2005	B	85	13	R2025	B	47	42	R2217	B	175	73	R2238	B	99	95	R2409	B	130	36
C2018	T	12	51	C2220	B	184	67	C2414	B	178	11	D2202	T	199	98	D2410	T	138	14	IC2401	B	133	23	J2408	T	219	29	R2006	B	88	13	R2026	B	47	36	R2218	T	122	79	R2239	B	109	98	R2410	B	123	36
C2201	B	203	92	C2221	B	107	98	C2415	B	188	11	D2203	T	189	98	D2411	B	233	24	IC2402	T	167	15	J2409	T	250	34	R2007	B	114	15	R2027	T	43	19	R2219	B	131	68	R2240	B	199	71	R2411	B	134	14
C2202	B	206	92	C2222	B	95	95	C2416	B	121	20	D2204	T	141	86	D2412	B	206	15	IC2403	B	193	15	L1	T	217	38	R2008	B	74	32	R2028	B	93	28	R2220	B	136	68	R2242	T	200	76	R2412	T	113	48

2 - 45

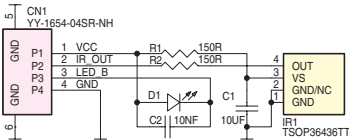
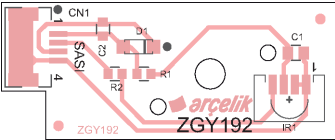


POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y	POS.	X	Y									
R2413	T	108	32	R2434	B	239	30	S2002	T	56	28	T2403	B	241	34	TP19	B	90	48	TP40	B	5	12	TP61	B	136	82	TP82	B	204	62	TP103	B	239	18	TP124	B	241	29	TP145	B	116	17	TP167	B	254	43
R2414	B	142	14	R2435	B	210	10	S2003	T	56	29	T2404	T	116	19	TP20	B	82	22	TP41	B	180	95	TP62	B	76	85	TP83	B	209	67	TP104	B	143	21	TP125	B	121	35	TP146	B	209	17	TP168	B	245	86
R2415	B	178	15	R2436	B	153	13	S2401	T	251	91	T2405	B	211	15	TP21	B	81	33	TP42	B	202	91	TP63	B	146	67	TP84	B	245	83	TP105	B	142	30	TP126	B	220	55	TP148	B	184	10	TP169	B	181	97
R2416	B	180	15	R2437	B	102	13	S2402	T	250	27	TP1	B	41	88	TP22	B	74	26	TP43	B	145	106	TP64	B	127	86	TP85	B	105	92	TP106	B	152	31	TP127	B	124	33	TP149	B	187	12	TP170	B	183	78
R2417	B	142	18	R2438	B	106	13	S2403	T	247	18	TP2	B	99	66	TP23	B	76	26	TP44	B	142	100	TP65	B	118	77	TP86	B	86	99	TP107	B	145	44	TP128	B	131	30	TP150	B	102	26	TP171	B	197	14
R2418	B	144	14	R2439	B	227	15	SG2001	T	68	10	TP3	B	90	14	TP24	B	81	27	TP45	B	155	14	TP66	B	160	81	TP87	B	119	12	TP108	B	207	29	TP129	B	113	36	TP151	B	216	19	TP172	T	167	95
R2419	B	175	15	R2440	B	225	11	SG2002	T	34	10	TP4	B	97	14	TP25	B	82	38	TP46	B	100	12	TP67	B	178	81	TP88	B	99	92	TP109	B	244	47	TP130	B	243	36	TP152	B	229	10	TP173	T	182	40
R2420	B	188	7	R2441	B	213	10	SP1	T	249	53	TP5	B	93	12	TP26	B	138	89	TP47	B	104	14	TP68	B	128	77	TP89	B	150	62	TP110	B	138	28	TP131	B	133	17	TP153	B	243	78	TP174	T	184	38
R2421	B	239	22	R2442	T	241	18	T2001	T	85	19	TP6	B	98	58	TP27	B	84	59	TP48	B	203	95	TP69	B	131	74	TP90	B	199	78	TP111	B	142	25	TP132	B	126	27	TP154	B	200	6				
R2422	B	186	9	R2443	B	202	19	T2002	T	81	44	TP7	B	71	73	TP28	B	46	25	TP49	B	194	87	TP70	B	131	72	TP91	B	197	68	TP112	B	145	36	TP133	B	241	39	TP155	B	197	7				
R2423	B	187	15	R2444	B	111	15	T2201	B	130	84	TP8	B	110	26	TP29	B	39	55	TP50	B	193	84	TP71	B	116	65	TP92	B	199	68	TP113	B	207	23	TP134	B	243	33	TP156	B	250	65				
R2424	B	200	9	R2445	B	215	16	T2202	B	203	80	TP9	B	86	12	TP30	B	37	75	TP51	B	220	95	TP72	B	171	72	TP93	B	103	98	TP114	B	230	22	TP135	B	137	17	TP157	B	215	49				
R2425	B	198	9	R2446	B	232	17	T2203	B	203	65	TP10	B	77	46	TP31	B	45	52	TP52	B	246	103	TP73	B	174	70	TP94	B	194	62	TP115	B	140	33	TP136	B	146	15	TP158	B	222	17				
R2426	B	235	58	R2447	B	229	17	T2204	B	113	95	TP11	B	85	16	TP32	B	45	45	TP53	B	234	103	TP74	B	180	78	TP95	B	89	94	TP116	B	136	29	TP137	B	240	86	TP159	B	109	15				
R2427	B	240	58	R2448	B	117	23	T2205	B	108	94	TP12	B	89	24	TP33	B	45	39	TP54	B	206	107	TP75	B	189	81	TP96	B	186	65	TP117	B	216	44	TP138	B	208	9	TP160	B	182	10				
R2428	B	238	58	R2449	B	116	14	T2206	B	156	69	TP13	B	23	86	TP34	B	64	18	TP55	B	223	109	TP76	B	206	78	TP97	B	221	65	TP118	B	132	41	TP139	B	111	18	TP161	B	235	70				
R2429	B	231	58	R2450	B	119	14	T2207	B	196	65	TP14	B	57	104	TP35	B	7	31	TP56	B	154	99	TP77	B	206	72	TP98	B	153	68	TP119	B	237	25	TP140	B	160	12	TP162	B	180	12				
R2430	B	242	58	R2451	B	124	19	T2208	B	191	65	TP15	B	100	22	TP36	B	24	17	TP57	B	149	87	TP78	B	197	81	TP99	B	244	92	TP120	B	135	17	TP141	B	175	12	TP163	B	254	79				
R2431	B	233	58	R2452	B	121	16	T2209	B	103	93	TP16	B	87	42	TP37	B	246	31	TP58	B	156	76	TP79	B	193	78	TP100	B	156	65	TP121	B	244	96	TP142	B	215	14	TP164	B	124	16				
R2432	B	239	39	R2453	T	104	21	T2401	T	141	42	TP17	B	87	22	TP38	B	32	35	TP59	B	144	80	TP80	B	203	68	TP101	B	122	86	TP122	B	128	38	TP143	B	200	20	TP165	B	225	33				
R2433	B	239	26	S2001	T	57	18	T2402	T	123	42	TP18	B	94	44	TP39	B	24	75	TP60	B	127	89	TP81	B	175	66	TP102	B	227	38	TP123	B	126	20	TP144	B	234	18	TP166	B	233	32				

T: Bestückungsseite /
Component Side
B: Lötseite /
Solder Side

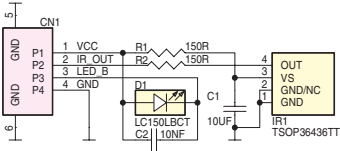
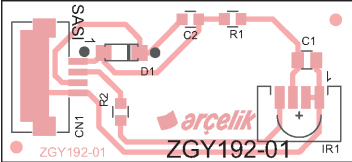
IR-/LED-Platte / Board ZGY192

Ansicht von der Bestückungsseite / View of Component Side



IR-/LED-Platte / Board ZGY192-01

Ansicht von der Bestückungsseite / View of Component Side



GRUNDIG

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

TV

3 / 2015

22 VLE 521 BG

BESTELL-NR. / ORDER NO.: NRU000 (NRU)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NRU000		22 VLE 521 BG PRODUKTCODE NRU KEIN E-TEIL	22 VLE 521 BG PRODUCT CODE NRU NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551783400		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551783500		RUECKWAND SCHWARZ	BACK COVER BLACK
005.000		759551783600		STANDFUSS SCHWARZ	STANDFOOT BLACK
005.100		759551783700		STANDFUSSSCHRAUBE 30X8 SCHWARZ	STANDFOOTSCREW 30X8 BLACK
015.000		759551783800		LAUTSPRECHER 16R 3/5W 30.5x70.5	SPEAKER 16R 3/5W 30.5x70.5
019.000		759551548100		KABEL DISPLAY-LVDS 400MM *1	CABLE DISPLAY-LVDS 400MM *1
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM *2	CABLE LVDS 30P 1MM L=200MM *2
020.000	△	056D22-AU7 *		LCD AUO T215HVN01.00A *1	LCD AUO T215HVN01.00A *1
020.000	△	056D22-CH5B *		LCD CMO M215HGE-L21 REV.C2 *2	LCD CMO M215HGE-L21 REV.C2 *2
021.000		759551788900		INVERTERKABEL 200MM	INVERTERCABLE 200MM
022.000	△	759551350200		NETZKABEL 150 CM	POWER CABLE 150 CM
023.000	△	275990321400		NETZTEIL EXT 12V 2,5A 2,5MM (ZJP)	POWER EXT. 12V 2,5A 2,5MM (ZJP)
025.000	△	275991214800		CHASSISMODUL TY (F3Y) *1	CHASSIS BOARD TY (F3Y) *1
025.000	△	275991214900	X	CHASSISMODUL TY (F40) *2	CHASSIS BOARD TY (F40) *2
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2	REMOTE CONTROL RC 23 VER. 2
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551544900		IR-EMPFAENGER TSOP35436TT *1	IR-RECEIVER TSOP35436TT *1
032.000		759551786600		IR-EMPFAENGER TSOP36438TT *2	IR-RECEIVER TSOP36438TT *2
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4P 1MM 120MM	FFC 4PIN 1MM 120MM
090.000		759551783900		KARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				* KEIN ERSATZTEIL X = SIEHE GESONDERTE E-LISTE	* NO SPARE PART X = SEE SEPARATE PARTS LIST
				DIE BEDIENUNGSANLEITUNG IST UEBER FOLGENDER ADRESSE ABRUFBAR: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOAD FROM ADDRESS: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

GRUNDIG

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

TV

3 / 2015

22 VLE 521 SG

BESTELL-NR. / ORDER NO.: NRT000 (NRT)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (GB)	DESCRIPTION (GB)
		NRT000		22 VLE 521 SG PRODUKTCODE NRT KEIN E-TEIL	22 VLE 521 SG PRODUCT CODE NRT NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551785400		GEH.- VORDERTEIL SILBER	FRONT CABINET SILVER
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551785500		RUECKWAND SILBER	BACK COVER SILVER
005.000		759551785600		STANDFUSS SILBER	STANDFOOT SILVER
005.100		759551783700		STANDFUSSSCHRAUBE 30X8 SCHWARZ	STANDFOOTSCREW 30X8 BLACK
015.000		759551783800		LAUTSPRECHER 16R 3/5W 30.5x70.5	SPEAKER 16R 3/5W 30.5x70.5
019.000		759551548100		KABEL DISPLAY-LVDS 400MM *1	CABLE DISPLAY-LVDS 400MM *1
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM *2	CABLE LVDS 30P 1MM L=200MM *2
020.000	△	056D22-AU7 *		LCD AUO T215HVN01.00A *1	LCD AUO T215HVN01.00A *1
020.000	△	056D22-CH5B *		LCD CMO M215HGE-L21 REV.C2 *2	LCD CMO M215HGE-L21 REV.C2 *2
021.000		759551788900		INVERTERKABEL 200MM	INVERTERCABLE 200MM
022.000	△	759551350200		NETZKABEL 150 CM	POWER CABLE 150 CM
023.000	△	275990321400		NETZTEIL EXT 12V 2,5A 2,5MM (ZJP)	POWER EXT. 12V 2,5A 2,5MM (ZJP)
025.000	△	275991214800		CHASSISMODUL TY (F3Y) *1	CHASSIS BOARD TY (F3Y) *1
025.000	△	275991214900	X	CHASSISMODUL TY (F40) *2	CHASSIS BOARD TY (F40) *2
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2	REMOTE CONTROL RC 23 VER. 2
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551544900		IR-EMPFAENGER TSOP35436TT *1	IR-RECEIVER TSOP35436TT *1
032.000		759551786600		IR-EMPFAENGER TSOP36438TT *2	IR-RECEIVER TSOP36438TT *2
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4P 1MM 120MM	FFC 4PIN 1MM 120MM
090.000		759551783900		KARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				* KEIN ERSATZTEIL X = SIEHE GESONDERTE E-LISTE	* NO SPARE PART X = SEE SEPARATE PARTS LIST
				DIE BEDIENUNGSANLEITUNG IST UEBER FOLGENDER ADRESSE ABRUFBAR: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOAD FROM ADDRESS: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

TV

3 / 2015

22 VLE 4400 BM

BESTELL-NR. / ORDER NO.: NQ000 (NQ0)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NQ000		22 VLE 4400 BM PRODUKT CODE NQ0 KEIN E-TEIL	22 VLE 4400 BM PRODUCT CODE NQ0 NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551785700		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551783500		RUECKWAND SCHWARZ	BACK COVER BLACK
005.000		759551783600		STANDFUSS SCHWARZ	STANDFOOT BLACK
005.100		759551783700		STANDFUSSSCHRAUBE 30X8 SCHWARZ	STANDFOOTScrew 30X8 BLACK
015.000		759551783800		LAUTSPRECHER 16R 3/5W 30.5x70.5	SPEAKER 16R 3/5W 30.5x70.5
019.000		759551548100		KABEL DISPLAY-LVDS 400MM *1	CABLE DISPLAY-LVDS 400MM *1
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM *2*3	CABLE LVDS 30P 1MM L=200MM *2*3
020.000	△	056D22-CH5B *		LCD CMO M215HGE-L21 REV.C2 *1	LCD CMO M215HGE-L21 REV.C2 *1
020.000	△	056D22-AU7 *		LCD AUO T215HVN01.00A *2	LCD AUO T215HVN01.00A *2
020.000	△	056D22-AU8 *		LCD AUO M215HTN01.1 ELED *3	LCD AUO M215HTN01.1 ELED *3
021.000		759551788900		INVERTERKABEL 200MM	INVERTERCABLE 200MM
023.000	△	275990321400		NETZTEIL EXT 12V 2,5A 2,5MM (ZJP)	POWER EXT. 12V 2,5A 2,5MM (ZJP)
025.000	△	275991217700	X	CHASSISMODUL TY (NQ0) *1	CHASSIS BOARD TY (NQ0) *1
025.000	△	275991220200	X	CHASSISMODUL TY (F4C) *2	CHASSIS BOARD TY (F4C) *2
025.000	△	275991224800	X	CHASSISMODUL TY (G05) *3	CHASSIS BOARD TY (G05) *3
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551544900		IR-EMPFAENGER TSOP35436TT *1	IR-RECEIVER TSOP35436TT *1
032.000		759551786600		IR-EMPFAENGER TSOP36438TT *2*3	IR-RECEIVER TSOP36438TT *2*3
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4P 1MM 120MM *1*2	FFC 4PIN 1MM 120MM *1*2
034.000		759551786700		FLACHBANDKABEL 4P 1MM 120MM *3	FFC 4P 1MM 120MM *3
090.000		759551783900		KARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				* KEIN ERSATZTEIL X = SIEHE GESONDERTE E-LISTE	* NO SPARE PART X = SEE SEPARATE PARTS LIST
				DIE BEDIENUNGSANLEITUNG IST UEBER FOLGENDER ADRESSE ABRUFBAR: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM ADDRESS: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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9 / 2014

22 VLE 4400 WM

BESTELL-NR. / ORDER NO.: NQR000 (NQR)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NQR000		22 VLE 4400 WM PRODUKT CODE NQR KEIN E-TEIL	22 VLE 4400 WM PRODUCT CODE NQR NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551784100		GEH.- VORDERTEIL WEISS	FRONT CABINET WHITE
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551784200		RUECKWAND WEISS	BACK COVER WHITE
005.000		759551784300		STANDFUSS WEISS	STANDFOOT WHITE
015.000		759551783800		LAUTSPRECHER 16R 3W(N)/5W(M)	SPEAKER 16R 3W(N)/5W(M)
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM	CABLE LVDS 30P 1MM L=200MM
020.000	△	056D22-CH5B		LCD-DISPLAY CMO M215HGE-L21 REV.C2	LCD-DISPLAY CMO M215HGE-L21 REV.C2
				KEIN ERSATZTEIL	NO SPARE PART
021.000		759551788900		INVERTERKABEL 200MM	INVERTERCABLE 200MM
023.000	△	275990321400		NETZTEIL EXTERN 12V 2,5A 2,5MM (ZJP)	POWER BOARD 12V 2,5A 2,5MM (ZJP)
025.000	△	275991217700	X	CHASSISMODUL TY (NQ0)	CHASSIS BOARD TY (NQ0)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551788600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551786600		IR-EMPFAENGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551783900		KARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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22 VLE 4421 BF

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NPQ000		22 VLE 4421 BF PRODUKT CODE NPQ KEIN E-TEIL	22 VLE 4421 BF PRODUCT CODE NPQ NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551785700		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551783500		RUECKWAND SCHWARZ	BACK COVER BLACK
005.000		759551783600		STANDFUSS SCHWARZ	STANDFOOT BLACK
005.100		759551783700		STANDFUSSSCHRAUBE 30X8 SCHWARZ	STANDFOOTScrew 30X8 BLACK
015.000		759551783800		LAUTSPRECHER 16R 3/5W 30.5x70.5	SPEAKER 16R 3/5W 30.5x70.5
019.000		759551548100		KABEL LVDS 30P 1MM L=200MM *2*3	CABLE LVDS 30P 1MM L=200MM *2*3
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM *2*3	CABLE LVDS 30P 1MM L=200MM *2*3
020.000	△	056D22-AU7 *		LCD CMO M215HGE-L21 REV.C2 *1	LCD CMO M215HGE-L21 REV.C2 *1
020.000	△	056D22-AU7 *		LCD AUO T215HVN01.00A *2	LCD AUO T215HVN01.00A *2
020.000	△	056D22-AU8 *		LCD AUO M215HTN01.1 ELED *3	LCD AUO M215HTN01.1 ELED *3
021.000		759551788900		INVERTERKABEL 200MM *2*3	INVERTER CABLE 200MM *2*3
023.000	△	275990321400		NETZTEIL EXT 12V 2,5A 2,5MM (ZJP)	POWER EXT. 12V 2,5A 2,5MM (ZJP)
025.000	△	275991216000	X	CHASSISMODUL TY (NPQ) *1	CHASSIS BOARD TY (NPQ) *1
025.000	△	275991220100	X	CHASSISMODUL TY (F9E) *2	CHASSIS BOARD TY (F9E) *2
025.000	△	275991224700	X	CHASSISMODUL TY (G18) *3	CHASSIS BOARD TY (G18) *3
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2 *1*2	REMOTE CONTROL RC 23 VER. 2 *1*2
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3 *3	REMOTE CONTROL TP6 VER. 3 *3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551544900		IR-EMPFAENGER TSOP35438TT *1	IR-RECEIVER TSOP35438TT *1
032.000		759551786600		IR-EMPFAENGER TSOP36438TT *2*3	IR-RECEIVER TSOP36438TT *2*3
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4P 1MM 120MM *1	FFC 4PIN 1MM 120MM *1
034.000		759551786700		FLACHBANDKABEL 4P 1MM 120MM *2*3	FFC 4P 1MM 120MM *2*3
090.000		759551783900		KARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				* KEIN ERSATZTEIL X = SIEHE GESONDERTE E-LISTE	* NO SPARE PART X = SEE SEPARATE PARTS LIST
				DIE BEDIENUNGSANLEITUNG IST UEBER FOLGENDER ADRESSE ABRUFBAR: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM ADDRESS: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I

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Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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22 VLE 4520 BF

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		MMH000		22 VLE 4520 BF PRODUKT CODE MMH KEIN E-TEIL	22 VLE 4520 BF PRODUCT CODE MMH NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551809700		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551783500		RUECKWAND SCHWARZ	BACK COVER BLACK
005.000		759551783600		STANDFUSS SCHWARZ	STANDFOOT BLACK
005.100		759551783700		STANDFUSSSCHRAUBE 30X8 SCHWARZ	STANDFOOTScrew 30X8 BLACK
015.000		759551783800		LAUTSPRECHER 16R 3W(N)/5W(M)	SPEAKER 16R 3W(N)/5W(M)
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM	CABLE LVDS 30P 1MM L=200MM
020.000	△	056D22-AU7		LCD-DISPLAY AUO T215HVN01.00A KEIN ERSATZTEIL	LCD-DISPLAY AUO T215HVN01.00A NO SPARE PART
021.000		759551788900		INVERTERKABEL 200MM	INVERTER CABLE 200MM
023.000	△	275990321400		NETZTEIL EXTERN 12V 2,5A 2,5MM (ZJP)	POWER BOARD 12V 2,5A 2,5MM (ZJP)
025.000	△	275991220100	X	CHASSISMODUL TY (F9E) *1	CHASSIS BOARD TY (F9E) *1
025.000	△	275991228000	X	CHASSISMODUL TY (G7A) *2	CHASSIS BOARD TY (G7A) *2
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551786600		IR-EMPFAENGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551783900		KARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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22 VLE 5400 BN

BESTELL-NR. / ORDER NO.: NQS000 (NQS)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NQS000		22 VLE 5400 BN PRODUKT CODE NQS KEIN E-TEIL	22 VLE 5400 BN PRODUCT CODE NQS NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551785700		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551783500		RUECKWAND SCHWARZ	BACK COVER BLACK
005.000		759551783600		STANDFUSS SCHWARZ	STANDFOOT BLACK
005.100		759551783700		STANDFUSSSCHRAUBE 30X8 SCHWARZ	STANDFOOTSCREW 30X8 BLACK
015.000		759551783800		LAUTSPRECHER 16R 3/5W 30.5x70.5	SPEAKER 16R 3/5W 30.5x70.5
019.000		759551548100		KABEL DISPLAY-LVDS 400MM *1	CABLE DISPLAY-LVDS 400MM *1
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM *2*3	CABLE LVDS 30P 1MM L=200MM *2*3
020.000	△	056D22-AU7 *		LCD CMO M215HGE-L21 REV.C2 *1	LCD CMO M215HGE-L21 REV.C2 *1
020.000	△	056D22-AU7 *		LCD AUO T215HVN01.00A *2	LCD AUO T215HVN01.00A *2
020.000	△	056D22-AU7A *		LCD AUO T215HVN01.00B ELED *3	LCD AUO T215HVN01.00B ELED *3
021.000		759551788900		INVERTERKABEL 200MM	INVERTERCABLE 200MM
023.000	△	275990321400		NETZTEIL EXT 12V 2,5A 2,5MM (ZJP)	POWER EXT. 12V 2,5A 2,5MM (ZJP)
025.000	△	275991217800	X	CHASSISMODUL TY (NQS) *1	CHASSIS BOARD TY (NQS) *1
025.000	△	275991223300	X	CHASSISMODUL TY (FGZ) *2	CHASSIS BOARD TY (FGZ) *2
025.000	△	275991224900	X	CHASSISMODUL TY (G08) *3	CHASSIS BOARD TY (G08) *3
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551544900		IR-EMPFAENGER TSOP35436TT *1	IR-RECEIVER TSOP35436TT *1
032.000		759551786600		IR-EMPFAENGER TSOP36438TT *2*3	IR-RECEIVER TSOP36438TT *2*3
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4P 1MM 120MM *1	FFC 4PIN 1MM 120MM *1
034.000		759551786700		FLACHBANDKABEL 4P 1MM 120MM *2*3	FFC 4P 1MM 120MM *2*3
090.000		759551783900		KARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				* KEIN ERSATZTEIL X = SIEHE GESONDERTE E-LISTE	* NO SPARE PART X = SEE SEPARATE PARTS LIST
				DIE BEDIENUNGSANLEITUNG IST UEBER FOLGENDER ADRESSE ABRUFBAR: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOAD FROM ADDRESS: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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22 VLE 5421 BG

BESTELL-NR. / ORDER NO.: NJN000 (NJN)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NJN000		22 VLE 5421 BG PRODUKT CODE NJN KEIN E-TEIL	22 VLE 5421 BG PRODUCT CODE NJN NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551783400		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551783500		RUECKWAND SCHWARZ	BACK COVER BLACK
005.000		759551783600		STANDFUSS SCHWARZ	STANDFOOT BLACK
005.100		759551783700		STANDFUSSSCHRAUBE 30X8 SCHWARZ	STANDFOOTSCREW 30X8 BLACK
015.000		759551783800		LAUTSPRECHER 16R 3/5W 30.5x70.5	SPEAKER 16R 3/5W 30.5x70.5
019.000		759551548100		KABEL DISPLAY-LVDS 400MM *1*2	CABLE DISPLAY-LVDS 400MM *1*2
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM *3*4	CABLE LVDS 30P 1MM L=200MM *3*4
020.000	△	056D22-AU7 *		LCD AUO T215HVN01.00A *1	LCD AUO T215HVN01.00A *1
020.000	△	056D22-CH5B *		LCD CMO M215HGE-L21 REV.C2 *2	LCD CMO M215HGE-L21 REV.C2 *2
020.000	△	056D22-AU7A *		LCD AUO T215HVN01.00B ELED *3	LCD AUO T215HVN01.00B ELED *3
020.000	△	056D22-AU8 *		LCD AUO M215HTN01.1 ELED *4	LCD AUO M215HTN01.1 ELED *4
021.000		759551788900		INVERTERKABEL 200MM *3*4	INVERTERCABLE 200MM *3*4
023.000	△	275990321400		NETZTEIL EXT 12V 2,5A 2,5MM (ZJP)	POWER EXT. 12V 2,5A 2,5MM (ZJP)
025.000	△	275991214800	X	CHASSISMODUL TY (F3Y) *1	CHASSIS BOARD TY (F3Y) *1
025.000	△	275991214900	X	CHASSISMODUL TY (F40) *2	CHASSIS BOARD TY (F40) *2
025.000	△	275991223200	X	CHASSISMODUL TY (FWX) *3	CHASSIS BOARD TY (FWX) *3
025.000	△	275991223700	X	CHASSISMODUL TY (G02) *4	CHASSIS BOARD TY (G02) *4
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2 *1*2	REMOTE CONTROL RC 23 VER. 2 *1*2
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3 *3*4	REMOTE CONTROL TP6 VER. 3 *3*4
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT *1*2	IR-RECEIVER TSOP36436TT *1*2
032.000		759551786600		IR-EMPFAENGER TSOP36438TT *3*4	IR-RECEIVER TSOP36438TT *3*4
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4P 1MM 120MM *1*2	FFC 4PIN 1MM 120MM *1*2
034.000		759551786700		FLACHBANDKABEL 4P 1MM 120MM *3*4	FFC 4P 1MM 120MM *3*4
090.000		759551783900		KARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				* KEIN ERSATZTEIL X = SIEHE GESONDERTE E-LISTE	* NO SPARE PART X = SEE SEPARATE PARTS LIST
				DIE BEDIENUNGSANLEITUNG IST UEBER FOLGENDER ADRESSE ABRUFBAR: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOAD FROM ADDRESS: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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22 VLE 5421 SG

BESTELL-NR. / ORDER NO.: NJP000 (NJP)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NJP000		22 VLE 5421 SG PRODUKTCODE NJP KEIN E-TEIL	22 VLE 5421 SG PRODUCT CODE NJP NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal " http://service.grundig.de ".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal " http://service.grundig.de ".
001.000		759551785400		GEH.- VORDERTEIL SILBER	FRONT CABINET SILVER
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551785500		RUECKWAND SILBER	BACK COVER SILVER
005.000		759551785600		STANDFUSS SILBER	STANDFOOT SILVER
005.100		759551783700		STANDFUSSSCHRAUBE 30X8 SCHWARZ	STANDFOOTSCREW 30X8 BLACK
015.000		759551783800		LAUTSPRECHER 16R 3/5W 30.5x70.5	SPEAKER 16R 3/5W 30.5x70.5
019.000		759551548100		KABEL DISPLAY-LVDS 400MM *1*2	CABLE DISPLAY-LVDS 400MM *1*2
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM *3*4*5	CABLE LVDS 30P 1MM L=200MM *3*4*5
020.000	△	056D22-CH5B *		LCD CMO M215HGE-L21 REV.C2 *1	LCD CMO M215HGE-L21 REV.C2 *1
020.000	△	056D22-AU7 *		LCD AUO T215HVN01.00A *2	LCD AUO T215HVN01.00A *2
020.000	△	056D22-AU7A *		LCD AUO T215HVN01.00B ELED *3	LCD AUO T215HVN01.00B ELED *3
020.000	△	056D22-AU8 *		LCD AUO M215HTN01.1 ELED *4	LCD AUO M215HTN01.1 ELED *4
020.000	△	056D22-AU7 *		LCD AUO T215HVN01.00A *5	LCD AUO T215HVN01.00A *5
021.000		759551788900		INVERTERKABEL 200MM	INVERTERCABLE 200MM
023.000	△	275990321400		NETZTEIL EXT 12V 2,5A 2,5MM (ZJP)	POWER EXT. 12V 2,5A 2,5MM (ZJP)
025.000	△	275991214900	X	CHASSISMODUL TY (F40) *1	CHASSIS BOARD TY (F40) *1
025.000	△	275991214800	X	CHASSISMODUL TY (F3Y) *2	CHASSIS BOARD TY (F3Y) *2
025.000	△	275991223200	X	CHASSISMODUL TY (FWX) *3	CHASSIS BOARD TY (FWX) *3
025.000	△	275991223700	X	CHASSISMODUL TY (G02) *4	CHASSIS BOARD TY (G02) *4
025.000	△	275991224400	X	CHASSISMODUL TY (FJU) *5	CHASSIS BOARD TY (FJU) *5
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2 *1*2	REMOTE CONTROL RC 23 VER. 2 *1*2
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3 *3*4	REMOTE CONTROL TP6 VER. 3 *3*4
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2 *5	REMOTE CONTROL RC 23 VER. 2 *5
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551544900		IR-EMPPFAENGER TSOP35436TT *1*2	IR-RECEIVER TSOP35436TT *1*2
032.000		759551786600		IR-EMPPFAENGER TSOP36438TT *3*4*5	IR-RECEIVER TSOP36438TT *3*4*5
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4P 1MM 120MM *1*2	FFC 4PIN 1MM 120MM *1*2
034.000		759551786700		FLACHBANDKABEL 4P 1MM 120MM *3*4	FFC 4P 1MM 120MM *3*4
034.000		759551769100		FLACHBANDKABEL 4P 1MM 120MM *5	FFC 4PIN 1MM 120MM *5
090.000		759551783900		KARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				* KEIN ERSATZTEIL X = SIEHE GESONDERTE E-LISTE DIE BEDIENUNGSANLEITUNG IST UEBER FOLGENDER ADRESSE ABRUFBAR: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS	* NO SPARE PART X = SEE SEPARATE PARTS LIST THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM ADDRESS: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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22 VLE 5421 WG

BESTELL-NR. / ORDER NO.: NJQ000 (NJQ)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (GB)	DESCRIPTION
		NJQ000		22 VLE 5421 WG PRODUKTCODE NJQ KEIN E-TEIL	22 VLE 5421 WG PRODUCT CODE NJQ NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal " http://service.grundig.de ".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal " http://service.grundig.de ".
001.000		759551784100		GEH.- VORDERTEIL WEISS	FRONT CABINET WHITE
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551784200		RUECKWAND WEISS	BACK COVER WHITE
005.000		759551784300		STANDFUSS WEISS	STANDFOOT WHITE
005.100		759551783700		STANDFUSSSCHRAUBE 30X8 SCHWARZ	STANDFOOTSCREW 30X8 BLACK
015.000		759551783800		LAUTSPRECHER 16R 3/5W 30.5x70.5	SPEAKER 16R 3/5W 30.5x70.5
019.000		759551548100		KABEL DISPLAY-LVDS 400MM *1*2	CABLE DISPLAY-LVDS 400MM *1*2
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM *3	CABLE LVDS 30P 1MM L=200MM *3
020.000	△	056D22-AU7 *		LCD AUO T215HVN01.00A *1	LCD AUO T215HVN01.00A *1
020.000	△	056D22-CH5B *		LCD CMO M215HGE-L21 REV.C2 *2	LCD CMO M215HGE-L21 REV.C2 *2
020.000	△	056D22-AU7A *		LCD AUO T215HVN01.00B ELED *3	LCD AUO T215HVN01.00B ELED *3
021.000		759551788900		INVERTERKABEL 200MM *3	INVERTERCABLE 200MM *3
023.000	△	275990321400		NETZTEIL EXT 12V 2,5A 2,5MM (ZJP)	POWER EXT. 12V 2,5A 2,5MM (ZJP)
025.000	△	275991214800	X	CHASSISMODUL TY (F3Y) *1	CHASSIS BOARD TY (F3Y) *1
025.000	△	275991214900	X	CHASSISMODUL TY (F40) *2	CHASSIS BOARD TY (F40) *2
025.000	△	275991223200	X	CHASSISMODUL TY (FWX) *3	CHASSIS BOARD TY (FWX) *3
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2 *1*2	REMOTE CONTROL RC 23 VER. 2 *1*2
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3 *3	REMOTE CONTROL TP6 VER. 3 *3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551768700		IR-EMPPFAENGER TSOP36436TT *1*2	IR-RECEIVER TSOP36436TT *1*2
032.000		759551786600		IR-EMPPFAENGER TSOP36438TT *3	IR-RECEIVER TSOP36438TT *3
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4P 1MM 120MM *1*2	FFC 4PIN 1MM 120MM *1*2
034.000		759551786700		FLACHBANDKABEL 4P 1MM 120MM *3	FFC 4P 1MM 120MM *3
090.000		759551783900		KARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				* KEIN ERSATZTEIL X = SIEHE GESONDERTE E-LISTE DIE BEDIENUNGSANLEITUNG IST UEBER FOLGENDER ADRESSE ABRUFBAR: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS	* NO SPARE PART X = SEE SEPARATE PARTS LIST THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM ADDRESS: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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22 VLE 5421 WG

BESTELL-NR. / ORDER NO.: NPU000 (NPU)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NPU000		22 VLE 5421 WG PRODUKTCODE NPU KEIN E-TEIL	22 VLE 5421 WG PRODUCT CODE NPU NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551784100		GEH.- VORDERTEIL WEISS	FRONT CABINET WHITE
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551784200		RUECKWAND WEISS	BACK COVER WHITE
005.000		759551784300		STANDFUSS WEISS	STANDFOOT WHITE
005.100		759551783700		STANDFUSSSCHRAUBE 30X8 SCHWARZ	STANDFOOTSCREW 30X8 BLACK
015.000		759551783800		LAUTSPRECHER 16R 3/5W 30.5x70.5	SPEAKER 16R 3/5W 30.5x70.5
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM	CABLE LVDS 30P 1MM L=200MM
020.000	△	056D22-CH5B *		LCD CMO M215HGE-L21 REV.C2 *1	LCD CMO M215HGE-L21 REV.C2 *1
020.000	△	056D22-AU7 *		LCD AUO T215HVN01.00A *2	LCD AUO T215HVN01.00A *2
020.000	△	056D22-AU7A *		LCD AUO T215HVN01.00B ELED *3	LCD AUO T215HVN01.00B ELED *3
021.000		759551788900		INVERTERKABEL 200MM	INVERTERCABLE 200MM
023.000	△	275990321400		NETZTEIL EXT 12V 2.5A 2.5MM (ZJP)	POWER EXT. 12V 2.5A 2.5MM (ZJP)
025.000	△	275991221500	X	CHASSISMODUL TY (NPR) *1	CHASSIS BOARD TY (NPR) *1
025.000	△	275991221600	X	CHASSISMODUL TY (NPU) *2	CHASSIS BOARD TY (NPU) *2
025.000	△	275991223800	X	CHASSISMODUL TY (NWM) *3	CHASSIS BOARD TY (NWM) *3
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551786600		IR-EMPPFAENGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4P 1MM 120MM	FFC 4P 1MM 120MM
090.000		759551783900		KARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				* KEIN ERSATZTEIL X = SIEHE GESONDERTE E-LISTE	* NO SPARE PART X = SEE SEPARATE PARTS LIST
				DIE BEDIENUNGSANLEITUNG IST UEBER FOLGENDER ADRESSE ABRUFBAR: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM ADDRESS: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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22 VLE 5520 SG

BESTELL-NR. / ORDER NO.: MLL000 (MLL)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		MLL000		22 VLE 5520 SG PRODUKTCODE MLL KEIN E-TEIL	22 VLE 5520 SG PRODUCT CODE MLL NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551809400		GEH.- VORDERTEIL SILBER	FRONT CABINET SILVER
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551785500		RUECKWAND SILBER	BACK COVER SILVER
005.000		759551785600		STANDFUSS SILBER	STANDFOOT SILVER
005.100		759551783700		STANDFUSSSCHRAUBE 30X8 SCHWARZ	STANDFOOTSCREW 30X8 BLACK
015.000		759551783800		LAUTSPRECHER 16R 3W(N)/5W(M)	SPEAKER 16R 3W(N)/5W(M)
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM	CABLE LVDS 30P 1MM L=200MM
020.000	△	056D22-AU8		LCD-DISPLAY AUO M215HTN01.1 ELED KEIN ERSATZTEIL	LCD-DISPLAY AUO M215HTN01.1 ELED NO SPARE PART
021.000		759551788900		INVERTERKABEL 200MM	INVERTERCABLE 200MM
023.000	△	275990321400		NETZTEIL EXTERN 12V 2.5A 2.5MM (ZJP)	POWER BOARD 12V 2.5A 2.5MM (ZJP)
025.000	△	275991223700	X	CHASSISMODUL TY (G02)	CHASSIS BOARD TY (G02)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551786600		IR-EMPPFAENGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551783900		KARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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22 VLE 5520 WG

BESTELL-NR. / ORDER NO.: MLH000 (MLH)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		MLH000		22 VLE 5520 WG PRODUKTCODE MLH KEIN E-TEIL	22 VLE 5520 WG PRODUCT CODE MLH NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551809200		GEH.- VORDERTEIL WEISS	FRONT CABINET WHITE
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551784200		RUECKWAND WEISS	BACK COVER WHITE
005.000		759551784300		STANDFUSS WEISS	STANDFOOT WHITE
005.100		759551783700		STANDFUSSSCHRAUBE 30X8 SCHWARZ	STANDFOOTScrew 30X8 BLACK
015.000		759551783800		LAUTSPRECHER 16R 3W(N)/5W(M)	SPEAKER 16R 3W(N)/5W(M)
019.000		759551756500		KABEL LVDS 30P 1MM L=200MM	CABLE LVDS A30P 1MM L=200MM
020.000	△	056D22-AU8		LCD-DISPLAY AUO M215HTN01.1 ELED KEIN ERSATZTEIL	LCD-DISPLAY AUO M215HTN01.1 ELED NO SPARE PART
021.000		759551788900		INVERTERKABEL 200MM	INVERTERCABLE 200MM
023.000	△	275990321400		NETZTEIL EXTERN 12V 2,5A 2,5MM (ZJP)	POWER BOARD 12V 2,5A 2,5MM (ZJP)
025.000	△	275991223700		CHASSISMODUL TY (G02)	CHASSIS BOARD TY (G02)
027.000		759551767800	X	FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551786600		IR-EMPFÄNGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551783900		CARTON 22	CARTON 22
091.000		759551784000		POLSTER 2 TEILIG	CUSHION 2 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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8 / 2014

28 VLE 4400 BM

BESTELL-NR. / ORDER NO.: NHD000 (NHD)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NHD000		28 VLE 4400 BM PRODUKTCODE NHD KEIN E-TEIL	28 VLE 4400 BM PRODUCT CODE NHD NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551775500		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551775600		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551775700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551775800		STANDFUSS SCHWARZ	STAND FOOT BLACK
016.000		759551770000		LAUTSPRECHER LINKS 8R 10W(N)/15W	SPEAKER LEFT 8R 10W(N)/15W(M)
017.000		759551769900		LAUTSPRECHER RECHTS 8R 10W(N)/15W	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551460800		KABEL DISPLAY-LVDS 400MM	CABLE DISPLAY-LVDS 400MM
020.000	△	057E28-A05		LCD-DISPLAY BMS 056E28-A06 TY/ART	LCD-DISPLAY BMS 056E28-A06 TY/ART
020.001	△	056E28-A06		LCD-DISPLAY BMS BOE 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS BOE 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991217900		CHASSISMODUL TY (NHD)	CHASSIS BOARD TY (NHD)
027.000		759551767800	X	FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551544900		IR-EMPFÄNGER TSOP35436TT	IR-RECEIVER TSOP35436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551775900		CARTON 28	CARTON 28
091.000		759551776000		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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7 / 2014

28 VLE 4401 BF

BESTELL-NR. / ORDER NO.: NFX000 (NFX)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NFX000		28 VLE 4401 BF PRODUKT CODE NFX KEIN E-TEIL	28 VLE 4401 BF PRODUCT CODE NFX NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551775500		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551775600		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551775700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551775800		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551769900		LAUTSPRECHER RECHTS 8R 10W(N)	SPEAKER RIGHT 8R 10W(N)/15W(M)
016.000		759551770000		LAUTSPRECHER LINKS 8R 10W(N)/15W	SPEAKER LEFT 8R 10W(N)/15W(M)
019.000		759551460800		KABEL DISPLAY-LVDS 400MM	CABLE DISPLAY-LVDS 400MM
020.000	△	057E28-A05		LCD-DISPLAY BMS 056E28-A06 TY/ART/GR	LCD-DISPLAY BMS 056E28-A06 TY/ART/GR
020.001	△	056E28-A06		LCD-DISPLAY BMS BOE 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS BOE 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991212200	X	CHASSISMODUL TY (NHL)	CHASSIS BOARD TY (NHL)
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2	REMOTE CONTROL RC 23 VER. 2
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551544900		IR-EMPFÄNGER TSOP35436TT	IR-RECEIVER TSOP35436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551775900		KARTON 28	CARTON 28
091.000		759551776000		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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28 VLE 4401 BF

BESTELL-NR. / ORDER NO.: NHL000 (NHL)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NHL000		28 VLE 4401 BF PRODUKT CODE NHL KEIN E-TEIL	28 VLE 4401 BF PRODUCT CODE NHL NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551775500		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551775600		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551775700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551775800		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551769900		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551770000		LAUTSPRECHER RECHTS 8R 10W(N)/15W	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551460800		KABEL DISPLAY-LVDS 400MM	CABLE DISPLAY-LVDS 400MM
020.000	△	057E28-A05		LCD-DISPLAY BMS 056E28-A06 TY/ART/	LCD-DISPLAY BMS 056E28-A06 TY/ART/
020.001	△	056E28-A06		LCD-DISPLAY BMS BOE 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS BOE 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM	POWERBOARD 19V 72W 2,5MM
025.000	△	275991212200	X	CHASSISMODUL TY (NHL)	CHASSIS BOARD TY (NHL)
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2	REMOTE CONTROL RC 23 VER. 2
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFÄNGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551775900		KARTON 28	CARTON 28
091.000		759551776000		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
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FOR INTERNAL USE ONLY

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28 VLE 4500 BF

POS. NR. ABB. MATERIAL-NR. ANZ.				BESTELL-NR. / ORDER NO.: MMJ000 (MMJ)	
POS. NO. FIG. PART NUMBER QTY.				DESCRIPTION (GB)	
MMJ000				28 VLE 4500 BF PRODUKTCODE MMJ KEIN E-TEIL	
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	
001.000		759551809900		GEH.- VORDERTEIL SCHWARZ	
001.100		759551729100		LED-LINSE	
002.000		759551775600		RUECKWAND SCHWARZ	
005.000		759551775800		STANDFUSS SCHWARZ	
015.000		759551793500		LAUTSPRECHER LINKS 8R 10/15W	
016.000		759551793600		LAUTSPRECHER RECHTS 8R 10/15W	
019.000		759551460800		KABEL DISPLAY-LVDS 400MM	
020.000	△	057E28-A22		LCD BMS 056E28-A06 TY/ART/GR/BP	
020.001	△	052E28BE1		OPENCELL BOE HV280WX2-270 28 HD	
020.002	△	ZGM606		LED BAR 6LED 28 ARTEMIS SLED	
022.000	△	759551769000		KEIN ERSATZTEIL	
023.000	△	275990320700		NETZKABEL 80 CM	
025.000	△	275991212200	X	NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	
027.000		759551767800		CHASSISMODUL TY (NHL)	
028.000		720117145300		FERNBEDIENUNG TP6 VER. 3	
031.000		759551793400		FERNBEDIENUNG TP EASY SCHWARZ	
032.000		759551786600		IR/LED MODUL (ZGP)	
033.000		759551549100		IR-EMPFAENGER TSOP36438TT	
034.000		759551786700		LED-SMD 1206 BLAU 250MCD 3.3V	
090.000		759551775900		FLACHBANDKABEL 4 PIN P=1MM L=120MM	
091.000		759551776000		KARTON 28	
				POLSTER 4-TEILIG	
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	
720100567000				SERVICE MANUAL D/GB	
720108000001				SICHERHEITSMANUAL D/GB/E/F/I	
				X = SIEHE GESONDERTE E-LISTE	
				28 VLE 4500 BF PRODUKTCODE MMJ NO SPARE PART	
				Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .	
				FRONT CABINET BLACK	
				LED-LENSE	
				BACK COVER BLACK	
				STAND FOOT BLACK	
				SPEAKER LEFT 8R 10/15W 46,3x169	
				SPEAKER RIGHT 8R 10/15W 46,3x169	
				CABLE DISPLAY-LVDS 400MM	
				LCD BMS 056E28-A06 TY/ART/GR/BP	
				OPENCELL BOE HV280WX2-270 28 HD	
				LED BAR 6LED 28 ARTEMIS SLED	
				NO SPARE PART	
				POWER CORD 80 CM	
				POWER BOARD 19V 72W 2,5MM (ZJL)	
				CHASSIS BOARD TY (NHL)	
				REMOTE CONTROL TP6 VER. 3	
				REMOTE CONTROL TP EASY BLACK	
				IR/LED BOARD (ZGP)	
				IR-RECEIVER TSOP36438TT	
				LED-SMD 1206 BLUE 250MCD 3.3V	
				FFC 4 PIN P=1MM L=120MM	
				CARTON 28	
				CUSHION 4 PARTS	
				THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS	
				SERVICE MANUAL D/GB	
				SAFETY SERVICE MANUAL D/GB/E/F/I	
				X = SEE SEPARATE PARTS LIST	

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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28 VLE 5401 BG

POS. NR. ABB. MATERIAL-NR. ANZ.				BESTELL-NR. / ORDER NO.: NJR000 (NJR)	
POS. NO. FIG. PART NUMBER QTY.				DESCRIPTION (GB)	
NJR000				28 VLE 5401 BG PRODUKTCODE NJR KEIN E-TEIL	
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	
001.000		759551776500		GEH.- VORDERTEIL SCHWARZ	
001.100		759551729100		LED-LINSE	
002.000		759551775600		RUECKWAND SCHWARZ	
003.000		759551775700		GEH.- MITTELTEIL SCHWARZ	
005.000		759551775800		STANDFUSS SCHWARZ	
015.000		759551769900		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	
016.000		759551770000		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	
019.000		759551460800		KABEL DISPLAY-LVDS 400MM	
020.000	△	057E28-A04		LCD-DISPLAY BMS 056E28-A06 TY/ART/	
020.001	△	056E28-A06		LCD-DISPLAY BMS BOE 50HZ DLED TUR	
022.000	△	759551769000		KEIN ERSATZTEIL	
023.000	△	275990320700		NETZKABEL 80 CM	
025.000	△	275991212500	X	NETZTEIL EXTERN 19V 72W 2,5MM	
027.000		759551767800		CHASSISMODUL TY (NJR)	
028.000		720117145300		FERNBEDIENUNG TP6 VER. 3	
031.000		759551768600		FERNBEDIENUNG TP EASY SCHWARZ	
032.000		759551768700		IR/LED MODUL (ZGY)	
033.000		759551549100		IR-EMPFAENGER TSOP36436TT	
034.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	
090.000		759551775900		FLACHBANDKABEL 4 PIN P=1MM L=120MM	
091.000		759551776000		KARTON 28	
				POLSTER 4-TEILIG	
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	
720100567000				SERVICE MANUAL D/GB	
720108000001				SICHERHEITSMANUAL D/GB/E/F/I	
				X = SIEHE GESONDERTE E-LISTE	
				28 VLE 5401 BG PRODUKTCODE NJR NO SPARE PART	
				Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .	
				FRONT CABINET BLACK	
				LED-LENSE	
				BACK COVER BLACK	
				CABINET MIDDLEPART BLACK	
				STAND FOOT BLACK	
				SPEAKER LEFT 8R 10W(N)/15W(M)	
				SPEAKER RIGHT 8R 10W(N)/15W(M)	
				CABLE DISPLAY-LVDS 400MM	
				LCD-DISPLAY BMS 056E28-A06 TY/	
				LCD-DISPLAY BMS BOE 50HZ DLED TUR	
				NO SPARE PART	
				POWER CORD 80 CM	
				POWERBOARD 19V 72W 2,5MM	
				CHASSIS BOARD TY (NJR)	
				REMOTE CONTROL TP6 VER. 3	
				REMOTE CONTROL TP EASY BLACK	
				IR/LED BOARD (ZGY)	
				IR RECEIVER TSOP36436TT	
				LED-SMD 1206 BLUE 250MCD 3.3V	
				FFC 4 PIN P=1MM L=120MM	
				CARTON 28	
				CUSHION 4 PARTS	
				THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS	
				SERVICE MANUAL D/GB	
				SAFETY SERVICE MANUAL D/GB/E/F/I	
				X = SEE SEPARATE PARTS LIST	

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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28 VLE 5401 SG

BESTELL-NR. / ORDER NO.: NJS000 (NJS)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NJS000		28 VLE 5401 SG PRODUKT CODE NJS KEIN E-TEIL	28 VLE 5401 SG PRODUCT CODE NJS NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551776600		GEH.- VORDERTEIL SILBER	FRONT CABINET SILVER
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551776900		RUECKWAND SILBER	BACK COVER SILVER
003.000		759551775700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551776400		STANDFUSS SILBER	STAND FOOT SILVER
015.000		759551769900		LAUTSPRECHER LINKS 8R 10W(N)/15W	SPEAKER LEFT 8R 10W(N)/15W
016.000		759551770000		LAUTSPRECHER RECHTS 8R 10W(N)/15W	SPEAKER RIGHT 8R 10W(N)/15W
019.000		759551460800		KABEL DISPLAY-LVDS 400MM	CABLE DISPLAY-LVDS 400MM
020.000	△	057E28-A09		LCD-DISPLAY BMS 056E28-A06 TY/ART/	LCD-DISPLAY BMS 056E28-A06 TY/ART/
020.001	△	056E28-A06		LCD-DISPLAY BMS BOE 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS BOE 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM	POWERBOARD 19V 72W 2,5MM
025.000	△	275991212500	X	CHASSISMODUL TY (NJR)	CHASSIS BOARD TY (NJR)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551775900		KARTON 28	CARTON 28
091.000		759551776000		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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28 VLE 5401 WG

BESTELL-NR. / ORDER NO.: NJT000 (NJT)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NJT000		28 VLE 5401 WG PRODUKT CODE NJT KEIN E-TEIL	28 VLE 5401 WG PRODUCT CODE NJT NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551784500		GEH.- VORDERTEIL WEISS	FRONT CABINET WHITE
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551784600		RUECKWAND WEISS	BACK COVER WHITE
003.000		759551775700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551784700		STANDFUSS WEISS	STANDFOOT WHITE
015.000		759551769900		LAUTSPRECHER RECHTS 8R 10W(N)/15W	SPEAKER RIGHT 8R 10W(N)/15W(M)
016.000		759551770000		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
019.000		759551460800		KABEL DISPLAY-LVDS 400MM	CABLE DISPLAY-LVDS 400MM
020.000	△	057E28-A07		LCD-BMS-DISPLAY 056E28-A06 TY/ART/	LCD BMS-DISPLAY 056E28-A06 TY/ART/
020.001	△	056E28-A06		LCD-DISPLAY BMS BOE 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS BOE 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991212500	X	CHASSISMODUL TY (NJR)	CHASSIS BOARD TY (NJR)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551775900		KARTON 28	CARTON 28
091.000		759551776000		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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28 VLE 5401 WG

BESTELL-NR. / ORDER NO.: NPV000 (NPV)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NPV000		28 VLE 5401 WG PRODUKT CODE NPV KEIN E-TEIL	28 VLE 5401 WG PRODUCT CODE NPV NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551784500		GEH.- VORDERTEIL WEISS	FRONT CABINET WHITE
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551784600		RUECKWAND WEISS	BACK COVER WHITE
003.000		759551775700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551784700		STANDFUSS WEISS	STANDFOOT WHITE
015.000		759551769900		LAUTSPRECHER RECHTS 8R 10W(N)/15W	SPEAKER RIGHT 8R 10W(N)/15W
016.000		759551770000		LAUTSPRECHER LINKS 8R 10W(N)/15W	SPEAKER LEFT 8R 10W(N)/15W
019.000		759551460800		KABEL DISPLAY-LVDS 400MM	CABLE DISPLAY-LVDS 400MM
020.000	△	057E28-A07		LCD BMS-DISPLAY 056E28-A06 TY/ART	LCD BMS-DISPLAY 056E28-A06 TY/ART
020.001	△	056E28-A06		LCD-DISPLAY BMS BOE 50HZ DLED TUR	LCD-DISPLAY BMS BOE 50HZ DLED TUR
				KEIN ERSATZTEIL	NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991212400	X	CHASSISMODUL TY (NJB)	CHASSIS BOARD TY (NJB)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFÄNGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551775900		KARTON 28	CARTON 28
091.000		759551776000		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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2 / 2015

28 VLE 5500 BG

BESTELL-NR. / ORDER NO.: MPH000 (MPH)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		MPH000		28 VLE 5500 BG PRODUKT CODE MPH KEIN E-TEIL	28 VLE 5500 BG PRODUCT CODE MPH NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551809600		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551775600		RUECKWAND SCHWARZ	BACK COVER BLACK
005.000		759551775800		STANDFUSS SCHWARZ	STAND FOOT BLACK
016.000		759551793500		LAUTSPRECHER LINKS 8R 10/15W	SPEAKER LEFT 8R 10/15W 46,3x169
017.000		759551793600		LAUTSPRECHER RECHTS 8R 10/15W	SPEAKER RIGHT 8R 10/15W 46,3x169
019.000		759551460800		KABEL DISPLAY-LVDS 400MM	CABLE DISPLAY-LVDS 400MM
020.000	△	057E28-A24		LCD BMS-DISPLAY 056E28-A06 TY/ART/	LCD BMS-DISPLAY 056E28-A06 TY/ART/
020.001	△	052E28BE1		OPENCELL BOE HV280WX2-270 28 HD	OPENCELL BOE HV280WX2-270 28 HD
020.002	△	ZGM606		LED BAR 6LED 28 ARTEMIS SLED	LED BAR 6LED 28 ARTEMIS SLED
				KEIN ERSATZTEIL	NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991212400	X	CHASSISMODUL TY (NJB)	CHASSIS BOARD TY (NJB)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551786600		IR-EMPFÄNGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551775900		KARTON 28	CARTON 28
091.000		759551776000		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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28 VLE 5500 BG

BESTELL-NR. / ORDER NO.: MLV000 (MLV)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		MLV000		28 VLE 5500 BG PRODUKT CODE MLV KEIN E-TEIL	28 VLE 5500 BG PRODUCT CODE MLV NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551809600		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENSE
002.000		759551775600		RUECKWAND SCHWARZ	BACK COVER BLACK
005.000		759551775800		STANDFUSS SCHWARZ	STAND FOOT BLACK
005.100		759551808100		STANDFUSSSCHRAUBE M3X12	STANDFOOTScrew M3X12
015.000		759551793500		LAUTSPRECHER LINKS 8R 10/15W	SPEAKER LEFT 8R 10/15W 46,3x169
016.000		759551793600		LAUTSPRECHER RECHTS 8R 10/15W	SPEAKER RIGHT 8R 10/15W 46,3x169
019.000		759551460800		KABEL DISPLAY-LVDS 400MM	CABLE DISPLAY-LVDS 400MM
020.000	△	057E28-A24		LCD BMS-DISPLAY 056E28-A06 TY/ART/	LCD BMS-DISPLAY 056E28-A06 TY/ART/
020.001	△	052E28BE1		OPENCELL BOE HV280WX2-270 28 HD	OPENCELL BOE HV280WX2-270 28 HD
020.002	△	ZGM606		LED BAR 6LED 28 ARTEMIS SLED	LED BAR 6LED 28 ARTEMIS SLED
				KEIN ERSATZTEIL	NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991212500	X	CHASSISMODUL TY (NJR)	CHASSIS BOARD TY (NJR)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551786600		IR-EMPFAENGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551775900		KARTON 28	CARTON 28
091.000		759551776000		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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28 VLE 5500 SG

BESTELL-NR. / ORDER NO.: MLM000 (MLM)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		MLM000		28 VLE 5500 SG PRODUKT CODE MLM KEIN E-TEIL	28 VLE 5500 SG PRODUCT CODE MLM NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551809500		GEH.- VORDERTEIL SILBER	FRONT CABINET SILVER
001.100		759551729100		LED-LINSE	LED-LENSE
002.000		759551776900		RUECKWAND SILBER	BACK COVER SILVER
003.000		759551795200		GEH.- MITTELTEIL SILBER	CABINET MIDDLEPART SILVER
005.000		759551776400		STANDFUSS SILBER	STAND FOOT SILVER
005.100		759551808100		STANDFUSSSCHRAUBE M3X12	STANDFOOTScrew M3X12
015.000		759551793500		LAUTSPRECHER LINKS 8R 10/15W	SPEAKER LEFT 8R 10/15W
016.000		759551793600		LAUTSPRECHER RECHTS 8R 10/15W	SPEAKER RIGHT 8R 10/15W
019.000		759551460800		KABEL DISPLAY-LVDS 400MM	CABLE DISPLAY-LVDS 400MM
020.000	△	057E28-A25		LCD BMS-DISPLAY 056E28-A06 TY/ART/	LCD BMS-DISPLAY 056E28-A06 TY/ART/
020.001	△	052E28BE1		OPENCELL BOE HV280WX2-270 28 HD	OPENCELL BOE HV280WX2-270 28 HD
020.002	△	ZGM606		LED BAR 6LED 28 ARTEMIS SLED	LED BAR 6LED 28 ARTEMIS SLED
				KEIN ERSATZTEIL	NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991212500	X	CHASSISMODUL TY (NJR)	CHASSIS BOARD TY (NJR)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551786600		IR-EMPFAENGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551775900		KARTON 28	CARTON 28
091.000		759551776000		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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2 / 2015

28 VLE 5500 WG

BESTELL-NR. / ORDER NO.: MLJ000 (MLJ)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		MLJ000		28 VLE 5500 WG PRODUKT CODE MLJ KEIN E-TEIL	28 VLE 5500 WG PRODUCT CODE MLJ NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551809300		GEH.- VORDERTEIL WEISS	FRONT CABINET WHITE
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551806200		RUECKWAND WEISS	BACK COVER WHITE
003.000		759551784600		GEH.- MITTELTEIL WEISS	CABINET MIDDLEPART WHITE
005.000		759551784700		STANDFUSS WEISS	STANDFOOT WHITE
005.100		759551808100		STANDFUSSSCHRAUBE M3X12	STANDFOOTSCREW M3X12
015.000		759551793500		LAUTSPRECHER LINKS 8R 10/15W	SPEAKER LEFT 8R 10/15W
016.000		759551793600		LAUTSPRECHER RECHTS 8R 10/15W	SPEAKER RIGHT 8R 10/15W
020.000	△	057E28-A23		LCD BMS-DISPLAY 056E28-A06 TY/ART/	LCD BMS-DISPLAY 056E28-A06 TY/ART/
020.001	△	052E28BE1		OPENCELL BOE HV280WX2-270 28 HD	OPENCELL BOE HV280WX2-270 28 HD
020.002	△	ZGM606		LED BAR 6LED 28 ARTEMIS SLED	LED BAR 6LED 28 ARTEMIS SLED
				KEIN ERSATZTEIL	NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991212500		CHASSISMODUL TY (NJR)	CHASSIS BOARD TY (NJR)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551786600		IR-EMPFAENGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551775900		KARTON 28	CARTON 28
091.000		759551776000		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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7 / 2014

32 VLE 555 BG

BESTELL-NR. / ORDER NO.: NMW000 (NMW)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (GB)	DESCRIPTION (GB)
		NMW000		32 VLE 555 BG PRODUKT CODE NMW KEIN E-TEIL	32 VLE 555 BG PRODUCT CODE NMW NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551768100		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769200		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773100		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551775300		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)/15W	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551768500		KABEL LVDS 30 PIN P=1MM L=520MM	CABLE LVDS 30 PIN P=1MM L=520MM
020.000	△	057E32-A04		LCD-DISPLAY BMS 056E32-A03 TY/ART/	LCD-DISPLAY BMS 056E32-A03 TY/ART/
020.001	△	056E32-A03		LCD-DISPLAY BMS SS 50HZ DLED TUR	LCD-DISPLAY BMS SS 50HZ DLED TUR
				KEIN ERSATZTEIL	NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991212500	X	CHASSISMODUL TY (NMW)	CHASSIS BOARD TY (NMW)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR-RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551768800		KARTON 32	CARTON 32
091.000		759551768900		POLSTER 4-TEILIG	CUSHION 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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6 / 2014

32 VLE 685 BG

BESTELL-NR. / ORDER NO.: NSL000 (NSL)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NSL000		32 VLE 685 BG PRODUKTCODE NSL KEIN E-TEIL	32 VLE 685 BG PRODUCT CODE NSL NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551784800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769200		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773100		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551775300		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551768500		KABEL LVDS 30 PIN P=1MM L=520MM	CABLE LVDS 30 PIN P=1MM L=520MM
020.000	△	057E32-A02		LCD BMS-DISPLAY 056E32-A03 TY/ART	LCD BMS-DISPLAY 056E32-A03 TY/ART
020.001	△	056E32-A03		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991215000	X	CHASSISMODUL TY (NJW)	CHASSIS BOARD TY (NJW)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551768800		KARTON 32	CARTON 32
091.000		759551768900		POLSTER 4-TEILIG	CUSHION 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
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FOR INTERNAL USE ONLY

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8 / 2014

32 VLE 4400 BM

BESTELL-NR. / ORDER NO.: NHE000 (NHE)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (GB)	DESCRIPTION (GB)
		NHE000		32 VLE 4400 BM PRODUKTCODE NHE KEIN E-TEIL	32 VLE 4400 BM PRODUCT CODE NHE NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551768100		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769200		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773100		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551775300		STANDFUSS SCHWARZ	STAND FOOT BLACK
016.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
017.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)	SPEAKER RIGHT 8R 10W(N)/15W(M)
020.000	△	057E32-A04		LCD-DISPLAY BMS 056E32-A03 TY/ART/	LCD-DISPLAY BMS 056E32-A03 TY/ART/
020.001	△	056E32-A03		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991218000	X	CHASSISMODUL TY (NHE)	CHASSIS BOARD TY (NHE)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551544900		IR-EMPFAENGER TSOP35436TT	IR-RECEIVER TSOP35436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551768800		KARTON 32	CARTON 32
091.000		759551768900		POLSTER 4-TEILIG	CUSHION 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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5 / 2014

32 VLE 4401 BF

BESTELL-NR. / ORDER NO.: NFY000 (NFY)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NFY000		32 VLE 4401 BF PRODUKT CODE NFY KEIN E-TEIL	32 VLE 4401 BF PRODUCT CODE NFY NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551773100		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769200		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773100		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551775300		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551768500		KABEL LVDS 30 PIN P=1MM L=520MM	CABLE LVDS 30 PIN P=1MM L=520MM
020.000	△	057E32-A04		LCD-DISPLAY BMS 056E32-A03 TY/ART/GR	LCD-DISPLAY BMS 056E32-A03 TY/ART/GR
020.001	△	056E32-A03		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM	POWERBOARD 19V 72W 2,5MM
025.000	△	275991212000	X	CHASSISMODUL TY (NHM)	CHASSIS BOARD TY (NHM)
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2	REMOTE CONTROL RC 23 VER. 2
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551768800		KARTON 32	CARTON 32
091.000		759551768900		POLSTER 4-TEILIG	CUSHION 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
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32 VLE 4401 BF

BESTELL-NR. / ORDER NO.: NHM000 (NHM)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NHM000		32 VLE 4401 BF PRODUKT CODE NHM KEIN E-TEIL	32 VLE 4401 BF PRODUCT CODE NHM NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551768100		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769200		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773100		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551775300		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551768500		KABEL LVDS 30 PIN P=1MM L=520MM	CABLE LVDS 30 PIN P=1MM L=520MM
020.000	△	057E32-A04		LCD-DISPLAY BMS 056E32-A03 TY/ART/GR	LCD-DISPLAY BMS 056E32-A03 TY/ART/GR
020.001	△	056E32-A03		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM	POWERBOARD 19V 72W 2,5MM
025.000	△	275991212000	X	CHASSISMODUL TY (NHM)	CHASSIS BOARD TY (NHM)
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2	REMOTE CONTROL RC 23 VER. 2
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551768800		KARTON 32	CARTON 32
091.000		759551768900		POLSTER 4-TEILIG	CUSHION 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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8 / 2014

32 VLE 5400 BN

BESTELL-NR. / ORDER NO.: NHF000 (NHF)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NHF000		32 VLE 5400 BN PRODUKTCODE NHF KEIN E-TEIL	32 VLE 5400 BN PRODUCT CODE NHF NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551784800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769200		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773100		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551775300		STANDFUSS SCHWARZ	STAND FOOT BLACK
016.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
017.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551768500		KABEL LVDS 30 PIN P=1MM L=520MM	CABLE LVDS 30 PIN P=1MM L=520MM
020.000	△	057E32-A02		LCD BMS-DISPLAY 056E32-A03 TY/ART	LCD BMS-DISPLAY 056E32-A03 TY/ART
020.001	△	056E32-A03		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991218100	X	CHASSISMODUL TY (NHF)	CHASSIS BOARD TY (NHF)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551544900		IR-EMPFAENGER TSOP35436TT	IR-RECEIVER TSOP35436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551768800		KARTON 32	CARTON 32
091.000		759551768900		POLSTER 4-TEILIG	CUSHION 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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5 / 2014

32 VLE 5401 BG

BESTELL-NR. / ORDER NO.: NJW000 (NJW)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NJW000		32 VLE 5401 BG PRODUKTCODE NJW KEIN E-TEIL	32 VLE 5401 BG PRODUCT CODE NJW NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551784800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769200		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773100		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551775300		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)	SPEAKER RIGHT 8R 10W(N)
019.000		759551768500		KABEL LVDS 30 PIN P=1MM L=520MM	CABLE LVDS 30 PIN P=1MM L=520MM
020.000	△	057E32-A02		LCD BMS-DISPLAY 056E32-A03 TY/ART	LCD BMS-DISPLAY 056E32-A03 TY/ART
020.001	△	056E32-A03		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991215000	X	CHASSISMODUL TY (NJW)	CHASSIS BOARD TY (NJW)
025.000	△	275991216100	X	CHASSISMODUL TY (NLW)	CHASSIS BOARD TY (NLW)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551768800		KARTON 32	CARTON 32
091.000		759551768900		POLSTER 4-TEILIG	CUSHION 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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32 VLE 5401 WG

BESTELL-NR. / ORDER NO.: NPW000 (NPW)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NPW000		32 VLE 5401 WG PRODUKT CODE NPW KEIN E-TEIL	32 VLE 5401 WG PRODUCT CODE NPW NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551785800		GEH.- VORDERTEIL WEISS	FRONT CABINET WHITE
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551785900		RUECKWAND WEISS	BACK COVER WHITE
003.000		759551773100		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551786000		STANDFUSS WEISS	STANDFOOT WHITE
015.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551768500		KABEL LVDS 30 PIN P=1MM L=520MM	CABLE LVDS 30 PIN P=1MM L=520MM
020.000	△	057E32-A09		LCD BMS-DISPLAY 056E32-A03 TY/ART/	LCD BMS-DISPLAY 056E32-A03 TY/ART/
020.001	△	056E32-A03		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991211500	X	CHASSISMODUL TY (NJC)	CHASSIS BOARD TY (NJC)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551544900		IR-EMPFAENGER TSOP35436TT	IR-RECEIVER TSOP35436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551768800		KARTON 32	CARTON 32
091.000		759551768900		POLSTER 4-TEILIG	CUSHION 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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10 / 2014

32 VLE 5405 SG

BESTELL-NR. / ORDER NO.: NUG000 (NUG)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NUG000		32 VLE 5405 SG PRODUKT CODE NUG KEIN E-TEIL	32 VLE 5405 SG PRODUCT CODE NUG NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551795000		GEH.- VORDERTEIL SILBER	FRONT CABINET SILVER
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551794800		RUECKWAND SILBER	BACK COVER SILVER
003.000		759551794900		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551768200		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551768500		KABEL LVDS 30 PIN P=1MM L=520MM	CABLE LVDS 30 PIN P=1MM L=520MM
020.000	△	057E32-A10		LCD BMS 056E32-A03 TY/ART/GRU/X7	LCD BMS 056E32-A03 TY/ART/GRU/X7
020.001	△	056E32-A03		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2,5MM (ZJL)
025.000	△	275991211500	X	CHASSISMODUL TY (NJW)	CHASSIS BOARD TY (NJW)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
033.000		759551786600		IR-EMPFAENGER TSOP36438TT	IR-RECEIVER TSOP36438TT
090.000		759551768800		KARTON 32	CARTON 32
091.000		759551768900		POLSTER 4-TEILIG	CUSHION 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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32 VLE 5405 WG

POS. NR. ABB. MATERIAL-NR. ANZ.				BEZEICHNUNG		BESTELL-NR. / ORDER NO.: NUH000 (NUH)	
POS. NO. FIG. PART NUMBER QTY.				(D)		DESCRIPTION (GB)	
NUH000				32 VLE 5405 WG PRODUKT CODE NUH KEIN E-TEIL		32 VLE 5405 WG PRODUCT CODE NUH NO SPARE PART	
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .		Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .	
001.000		759551785800		GEH.- VORDERTEIL WEISS		FRONT CABINET WHITE	
001.100		759551729100		LED-LINSE		LED-LENS	
002.000		759551785900		RUECKWAND WEISS		BACK COVER WHITE	
003.000		759551794900		GEH.- MITTELTEIL SCHWARZ		CABINET MIDDLEPART BLACK	
005.000		759551786000		STANDFUSS WEISS		STANDFOOT WHITE	
015.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)		SPEAKER LEFT 8R 10W(N)/15W(M)	
016.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)		SPEAKER RIGHT 8R 10W(N)/15W(M)	
019.000		759551768500		KABEL LVDS 30 PIN P=1MM L=520MM		CABLE LVDS 30 PIN P=1MM L=520MM	
020.000	△	057E32-A09		LCD BMS-DISPLAY 056E32-A03 TY/ART		LCD BMS-DISPLAY 056E32-A03 TY/ART	
020.001	△	056E32-A03		LCD-DISPLAY BMS SS 50HZ DLED TUR		LCD-DISPLAY BMS SS 50HZ DLED TUR	
				KEIN ERSATZTEIL		NO SPARE PART	
022.000	△	759551769000		NETZKABEL 80 CM		POWER CORD 80 CM	
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)		POWER BOARD 19V 72W 2,5MM (ZJL)	
025.000	△	275991219900	X	CHASSISMODUL TY (FO5)		CHASSIS BOARD TY (FO5)	
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3		REMOTE CONTROL TP6 VER. 3	
031.000		759551793400		IR/LED MODUL (ZGP)		IR/LED BOARD (ZGP)	
032.000		759551786600		IR-EMPFÄNGER TSOP36438TT		IR-RECEIVER TSOP36438TT	
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V		LED-SMD 1206 BLUE 250MCD 3.3V	
090.000		759551768800		KARTON 32		CARTON 32	
091.000		759551768900		POLSTER 4-TEILIG		CUSHION 4-PARTS	
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS		THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS	
				SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I		SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I	
				X = SIEHE GESONDERTE E-LISTE		X = SEE SEPARATE PARTS LIST	

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
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32 VLE 5406 BG

POS. NR. ABB. MATERIAL-NR. ANZ.				BEZEICHNUNG		BESTELL-NR. / ORDER NO.: MHM000 (MHM)	
POS. NO. FIG. PART NUMBER QTY.				(D)		DESCRIPTION (GB)	
MHM000				32 VLE 5406 BG PRODUKT CODE MHM KEIN E-TEIL		32 VLE 5406 BG PRODUCT CODE MHM NO SPARE PART	
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .		Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .	
001.000		759551784800		GEH.- VORDERTEIL SCHWARZ		FRONT CABINET BLACK	
001.100		759551729100		LED-LINSE		LED-LENS	
002.000		759551769200		RUECKWAND SCHWARZ		BACK COVER BLACK	
003.000		759551773100		GEH.- MITTELTEIL SCHWARZ		CABINET MIDDLEPART BLACK	
005.000		759551775300		STANDFUSS SCHWARZ		STAND FOOT BLACK	
005.100		759551696100		STANDFUSS SCHRAUBE SCHWARZ M4X10		STANDFOOTSCREW BLACK M4X10	
015.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)		SPEAKER LEFT 8R 10W(N)/15W(M)	
016.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)/15W		SPEAKER RIGHT 8R 10W(N)/15W(M)	
019.000		759551768500		KABEL LVDS 30 PIN P=1MM L=520MM		CABLE LVDS 30 PIN P=1MM L=520MM	
020.000	△	057E32-A02		LCD BMS-DISPLAY 056E32-A03 TY/ART/GR		LCD BMS-DISPLAY 056E32-A03 TY/ART/GR	
020.001	△	056E32-A03		LCD-DISPLAY BMS SS 50HZ DLED TUR		LCD-DISPLAY BMS SS 50HZ DLED TUR	
				KEIN ERSATZTEIL		NO SPARE PART	
022.000	△	759551769000		NETZKABEL 80 CM		POWER CORD 80 CM	
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)		POWER BOARD 19V 72W 2,5MM (ZJL)	
025.000	△	275991215000	X	CHASSISMODUL TY (NJW)		CHASSIS BOARD TY (NJW)	
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3		REMOTE CONTROL TP6 VER. 3	
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ		REMOTE CONTROL TP EASY BLACK	
030.000		759551753100		TASTSCHALTER		KEY SWITCH	
031.000		759551768600		IR/LED MODUL (ZGY)		IR/LED BOARD (ZGY)	
032.000		759551786600		IR-EMPFÄNGER TSOP36438TT		IR-RECEIVER TSOP36438TT	
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V		LED-SMD 1206 BLUE 250MCD 3.3V	
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM		FFC 4 PIN P=1MM L=120MM	
090.000		759551768800		KARTON 32		CARTON 32	
091.000		759551768900		POLSTER 4-TEILIG		CUSHION 4-PARTS	
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS		THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS	
				SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I		SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I	
				X = SIEHE GESONDERTE E-LISTE		X = SEE SEPARATE PARTS LIST	

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

TV

10 / 2014

40 VLE 521 BG

BESTELL-NR. / ORDER NO.: MGV000 (MGV)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		MGV000		40 VLE 521 BG PRODUKTCODE MGV KEIN E-TEIL	40 VLE 521 BG PRODUCT CODE MGV NO SPARE PART
		Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .		Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .	
001.000		759551776800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551774500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551774300		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551761300		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551774600		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551774700		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	⚠	057D40-A06		LCD-DISPLAY BMS 056D40-A07 TY/ART	LCD-DISPLAY BMS 056D40-A07 TY/ART
020.001	⚠	056D40-A07		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
021.000		759551774400		KABEL CHASSIS NETZEIL 250 MM 14 PIN	CABLE CHASSIS POWERB. 250 MM 14 PIN
022.000	⚠	759551774200		NETZKABEL	POWER CORD
023.000	⚠	275990320100	X	NETZTEIL (ZGP)	POWER SUPPLY (ZGP)
025.000	⚠	275991212600	X	CHASSISMODUL TY (NJU)	CHASSIS BOARD TY (NJU)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551786600		IR-EMPFAENGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551761400		KARTON 40 BMS	CARTON 40 BMS
091.000		759551761500		POLSTER 4-TEILIG	CUSHION 4 PARTS
		DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS		THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS	
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
		X = SIEHE GESONDERTE E-LISTE		X = SEE SEPARATE PARTS LIST	

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

TV

4 / 2014

40 VLE 555 BG

BESTELL-NR. / ORDER NO.: NHZ000 (NHZ)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NHZ000		40 VLE 555 BG PRODUKTCODE NHZ KEIN E-TEIL	40 VLE 555 BG PRODUCT CODE NHZ NO SPARE PART
		Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .		Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .	
001.000		759551761100		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551774500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551774300		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551761300		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551774600		LAUTSPRECHER LINKS 8R 10W(N)/15W	SPEAKER LEFT 8R 10W(N)/15W
016.000		759551774700		LAUTSPRECHER RECHTS 8R 10W(N)/15W	SPEAKER RIGHT 8R 10W(N)/15W
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	⚠	057D40-A04		LCD-DISPLAY BMS 056D40-A07 TY/ART	LCD-DISPLAY BMS 056D40-A07 TY/ART
020.001	⚠	056D40-A07		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
021.100		759551774400		KABEL CHASSIS NETZEIL 250 MM 14 PIN	CABLE CHASSIS POWERBOARD 250MM
022.000	⚠	759551774200		NETZKABEL	POWER CORD
023.000	⚠	275990320100	X	NETZTEIL (ZGP)	POWER SUPPLY (ZGP)
025.000	⚠	275991209500	X	CHASSISMODUL TY (EUY)	CHASSIS BOARD TY (EUY)
027.000		759551767800		FERNBEDIENUNG TP 6 VER. 3	REMOTE CONTROL TP 6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR-RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551761400		KARTON 40 BMS	CARTON 40 BMS
091.000		759551761500		POLSTER 4-TEILIG	CUSHION 4 PARTS
		DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS		THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS	
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
		X = SIEHE GESONDERTE E-LISTE		X = SEE SEPARATE PARTS LIST	

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

TV

6 / 2014

40 VLE 685 BG

BESTELL-NR. / ORDER NO.: NJA000 (NJA)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NJA000		40 VLE 685 BG PRODUKT CODE NJA KEIN E-TEIL	40 VLE 685 BG PRODUCT CODE NJA NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal " http://service.grundig.de ".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal " http://service.grundig.de ".
001.000		759551776800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551774500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551774300		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551761300		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551774600		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551774700		LAUTSPRECHER RECHTS 8R 10W(N)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D40-A06		LCD-DISPLAY BMS 056D40-A07 TY/ART/	LCD-DISPLAY BMS 056D40-A07 TY/ART/
020.001	△	056D40-A07		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
021.100		759551774400		KABEL CHASSIS NETZEIL 250 MM 14 PIN	CABLE CHASSIS POWERBOARD 250 MM
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320100		NETZTEIL (ZGP)	POWER SUPPLY (ZGP)
025.000	△	275991212600	X	CHASSISMODUL TY (NJU)	CHASSIS BOARD TY (NJU)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551761400		KARTON 40 BMS	CARTON 40 BMS
091.000		759551761500		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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8 / 2014

40 VLE 4420 BM

BESTELL-NR. / ORDER NO.: NHG000 (NHG)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NHG000		40 VLE 4420 BM PRODUKT CODE NHG KEIN E-TEIL	40 VLE 4420 BM PRODUCT CODE NHG NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal " http://service.grundig.de ".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal " http://service.grundig.de ".
001.000		759551761100		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551774500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551774300		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551761300		STANDFUSS SCHWARZ	STAND FOOT BLACK
016.000		759551774600		LAUTSPRECHER LINKS 8R 10W(N)/15W	SPEAKER LEFT 8R 10W(N)/15W(M)
017.000		759551774700		LAUTSPRECHER RECHTS 8R 10W(N)/15W	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D40-A04		LCD-DISPLAY BMS 056D40-A07 TY/ART/	LCD-DISPLAY BMS 056D40-A07 TY/ART/
020.001	△	056D40-A07		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
021.000		759551774400		KABEL CHASSIS NETZEIL 250 MM 14 PIN	CABLE CHASSIS POWERBOARD 250 MM
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320100		NETZTEIL (ZGP)	POWER SUPPLY (ZGP)
025.000	△	275991218200	X	CHASSISMODUL TY (NHG)	CHASSIS BOARD TY (NHG)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551544900		IR-EMPFAENGER TSOP35436TT	IR-RECEIVER TSOP35436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551761400		KARTON 40 BMS	CARTON 40 BMS
091.000		759551761500		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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5 / 2014

40 VLE 4421 BF

BESTELL-NR. / ORDER NO.: NFZ000 (NFZ)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NFZ000		40 VLE 4421 BF PRODUKT CODE NFZ KEIN E-TEIL	40 VLE 4421 BF PRODUCT CODE NFZ NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal " http://service.grundig.de ".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal " http://service.grundig.de ".
001.000		759551761100		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551774500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551774300		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551761300		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551774600		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551774700		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D40-A04		LCD-DISPLAY BMS 056D40-A07 TY/ART/	LCD-DISPLAY BMS 056D40-A07 TY/ART/
020.001	△	056D40-A07		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
021.000		759551774400		KABEL CHASSIS NETZEIL 250 MM 14 PIN	CABLE CHASSIS POWERB. 250 MM 14 PIN
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320100		NETZTEIL (ZGP)	POWER SUPPLY (ZGP)
025.000	△	275991212300	X	CHASSISMODUL TY (NHN)	CHASSIS BOARD TY (NHN)
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2	REMOTE CONTROL RC 23 VER. 2
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551544900		IR-EMPFAENGER TSOP35436TT	IR-RECEIVER TSOP35436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551761400		KARTON 40 BMS	CARTON 40 BMS
091.000		759551761500		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
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FOR INTERNAL USE ONLY

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5 / 2014

40 VLE 4421 BF

BESTELL-NR. / ORDER NO.: NHN000 (NHN)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NHN000		40 VLE 4421 BF PRODUKT CODE NHN KEIN E-TEIL	40 VLE 4421 BF PRODUCT CODE NHN NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal " http://service.grundig.de ".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal " http://service.grundig.de ".
001.000		759551761100		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551774500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551774300		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551761300		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551774600		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551774700		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D40-A04		LCD-DISPLAY BMS 056D40-A07 TY/ART/	LCD-DISPLAY BMS 056D40-A07 TY/ART/
020.001	△	056D40-A07		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
021.100		759551774400		KABEL CHASSIS NETZEIL 250 MM 14 PIN	CABLE CHASSIS POWERB. 250 MM 14 PIN
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320100		NETZTEIL (ZGP)	POWER SUPPLY (ZGP)
025.000	△	275991212300	X	CHASSISMODUL TY (NHN)	CHASSIS BOARD TY (NHN)
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2	REMOTE CONTROL RC 23 VER. 2
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR-RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551761400		KARTON 40 BMS	CARTON 40 BMS
091.000		759551761500		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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8 / 2014

40 VLE 5420 BN

BESTELL-NR. / ORDER NO.: NHH000 (NHH)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NHH000		40 VLE 5420 BN PRODUKTCODE NHH KEIN E-TEIL	40 VLE 5420 BN PRODUCT CODE NHH NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551776800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENSE
002.000		759551774500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551774300		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551761300		STANDFUSS SCHWARZ	STAND FOOT BLACK
016.000		759551774600		LAUTSPRECHER LINKS 8R 10W(N)/	SPEAKER LEFT 8R 10W(N)/15W(M)
017.000		759551774700		LAUTSPRECHER RECHTS 8R 10W(N)/	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D40-A06		LCD-DISPLAY BMS 056D40-A07 TY/ART	LCD-DISPLAY BMS 056D40-A07 TY/ART
020.001	△	056D40-A07		LCD-DISPLAY BMS SS 50HZ DLED TUR	LCD-DISPLAY BMS SS 50HZ DLED TUR
				KEIN ERSATZTEIL	NO SPARE PART
021.000		759551774400		KABEL CHASSIS NETZEIL 250 MM 14 PIN	CABLE CHASSIS POWERBOARD 250 MM
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320100	X	NETZTEIL (ZGP)	POWER SUPPLY (ZGP)
025.000	△	275991218300	X	CHASSISMODUL TY (NHH)	CHASSIS BOARD TY (NHH)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551544900		IR-EMPFAENGER TSOP35436TT	IR-RECEIVER TSOP35436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551761400		KARTON 40 BMS	CARTON 40 BMS
091.000		759551761500		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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3 / 2015

40 VLE 5421 BG

BESTELL-NR. / ORDER NO.: NJU000 (NJU)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NJU000		40 VLE 5421 BG PRODUKTCODE NJU KEIN E-TEIL	40 VLE 5421 BG PRODUCT CODE NJU NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551776800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENSE
002.000		759551774500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551774300		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551761300		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551774600		LAUTSPR.LINKS 8R 10/15W 46.3x169	SPEAKER LEFT 8R 10/15W 46.3x169
016.000		759551774700		LAUTSPR.RECHTS 8R 10/15W 46.3x169	SPEAKER RIGHT 8R 10/15W 46.3x169
019.000		759551622500		KABEL LVDS 51 P 600MM *1	CABLE LVDS 51 P 600MM *1
019.000		759551789200		KABEL FFC LVDS 51P 0.5MM 800MM *2	CABLE FFC LVDS 51P 0.5MM 800MM *2
020.000	△	057D40-A06 *		LCD BMS 056D40-A07 TY X6	LCD BMS 056D40-A07 TY X6
020.001	△	056D40-A07 *		LCD BMS SS 50HZ DLED	LCD BMS SS 50HZ DLED
021.100	△	759551774400		KABEL CHASSIS NETZEIL 250MM 14P	CABLE CHASSIS POWER-PCB 250MM 14P
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320100	X	NETZTEIL (ZGP)	POWER SUPPLY (ZGP)
025.000	△	275991212600	X	CHASSISMODUL TY (NJU) *1	CHASSIS BOARD TY (NJU) *1
025.000	△	275991221800	X	CHASSISMODUL TY (FO3) *2	CHASSIS BOARD TY (FO3) *2
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT *1	IR RECEIVER TSOP36436TT *1
032.000		759551786600		IR-EMPFAENGER TSOP36438TT *2	IR-RECEIVER TSOP36438TT *2
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4P 1MM 120MM	FFC 4PIN 1MM 120MM
090.000		759551761400		KARTON 40 BMS	CARTON 40 BMS
091.000		759551761500		POLSTER 4-TEILIG	CUSHION 4 PARTS
				* KEIN ERSATZTEIL X = SIEHE GESONDERTE E-LISTE	* NO SPARE PART X = SEE SEPARATE PARTS LIST
				DIE BEDIENUNGSANLEITUNG IST UEBER FOLGENDER ADRESSE ABRUFBAR: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM ADDRESS: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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11 / 2014

40 VLE 5421 BG

BESTELL-NR. / ORDER NO.: NLD000 (NLD)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NLD000		40 VLE 5421 BG PRODUKT CODE NLD KEIN E-TEIL	40 VLE 5421 BG PRODUCT CODE NLD NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal " http://service.grundig.de ".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal " http://service.grundig.de ".
001.000		759551776800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551774500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551774300		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551761300		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551802300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551802400		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	⚠	057D40-A06		LCD-DISPLAY BMS 056D40-A07 TY/ART/	LCD-DISPLAY BMS 056D40-A07 TY/ART/
020.001	⚠	056D40-A07		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
021.100		759551774400		KABEL CHASSIS NETZEIL 250 MM 14 PIN	CABLE CHASSIS POWERBOARD 250 MM 14
022.000	⚠	759551774200		NETZKABEL	POWER CORD
023.000	⚠	275990320100		NETZTEIL (ZGP)	POWER SUPPLY (ZGP)
025.000	⚠	275991216200	X	CHASSISMODUL TY (NLD)	CHASSIS BOARD TY (NLD)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551786600		IR-EMPFAENGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551761400		KARTON 40 BMS	CARTON 40 BMS
091.000		759551761500		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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7 / 2014

40 VLE 5421 WG

BESTELL-NR. / ORDER NO.: NPX000 (NPX)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NPX000		40 VLE 5421 WG PRODUKT CODE NPX KEIN E-TEIL	40 VLE 5421 WG PRODUCT CODE NPX NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal " http://service.grundig.de ".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal " http://service.grundig.de ".
001.000		759551786100		GEH.- VORDERTEIL WEISS	FRONT CABINET WHITE
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551786200		RUECKWAND WEISS	BACK COVER WHITE
003.000		759551774300		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551786300		STANDFUSS WEISS	STANDFOOT WHITE
015.000		759551774600		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551774700		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	⚠	057D40-A14		LCD-BMS-DISPLAY 056D40-A07 TY-MY/ART	LCD-BMS-DISPLAY 056D40-A07 TY-MY/ART
020.001	⚠	056D40-A07		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
021.100		759551774400		KABEL CHASSIS NETZEIL 250 MM 14 PIN	CABLE CHASSIS POWERBOARD 250 MM 14
022.000	⚠	759551774200		NETZKABEL	POWER CORD
023.000	⚠	275990320100		NETZTEIL (ZGP)	POWER SUPPLY (ZGP)
025.000	⚠	275991216200	X	CHASSISMODUL TY (NLD)	CHASSIS BOARD TY (NLD)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551544900		IR-EMPFAENGER TSOP35436TT	IR-RECEIVER TSOP35436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551761400		KARTON 40 BMS	CARTON 40 BMS
091.000		759551761500		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
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11 / 2014

40 VLE 5425 WG

BESTELL-NR. / ORDER NO.: MJM000 (MJM)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		MJM000		40 VLE 5425 WG PRODUKT CODE MJM KEIN E-TEIL	40 VLE 5425 WG PRODUCT CODE MJM NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551786100		GEH.- VORDERTEIL WEISS	FRONT CABINET WHITE
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551786200		RUECKWAND WEISS	BACK COVER WHITE
003.000		759551802200		GEH.- MITTELTEIL WEISS	CABINET MIDDLEPART WHITE
005.000		759551786300		STANDFUSS WEISS	STANDFOOT WHITE
015.000		759551802300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551802400		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D40-A14		LCD BMS-DISPLAY 056D40-A07 TY-MY	LCD BMS-DISPLAY 056D40-A07 TY-MY
020.001	△	056D40-A07		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
021.100		759551774400		KABEL CHASSIS NETZEIL 250 MM 14 PIN	CABLE CHASSIS POWERBOARD 250 MM 14
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320100	X	NETZTEIL (ZGP)	POWER SUPPLY (ZGP)
025.000	△	275991212600	X	CHASSISMODUL TY (NJU)	CHASSIS BOARD TY (NJU)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551786600		IR-EMPFAENGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551761400		KARTON 40 BMS	CARTON 40 BMS
091.000		759551761500		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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6 / 2014

48 VLE 555 BG

BESTELL-NR. / ORDER NO.: NTC000 (NTC)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NTC000		48 VLE 555 BG PRODUKT CODE NTC KEIN E-TEIL	48 VLE 555 BG PRODUCT CODE NTC NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551773800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551773900		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551769900		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
016.000		759551770000		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D48-A15		LCD-DISPLAY BMS 056D48-A09 TY/ART/GR	LCD-DISPLAY BMS 056D48-A09 TY/ART/GR
020.001	△	056D48-A09		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
020.100	△	759551769300		T-CON MODUL (XQL)	T-CON BOARD (XQL)
021.100		759551770100		KABEL 14 PIN 370 MM NETZTEIL	CABLE 14 PIN 370MM POWER BOARD
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320800	X	NETZTEIL LIPS (VTY)	POWER BOARD LIPS (VTY)
025.000	△	275991211700	X	CHASSISMODUL TY (NJV)	CHASSIS BOARD TY (NJV)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551770200		KARTON 48	CARTON 48
091.000		759551774000		POLSTER OBEN 4-TEILIG	CUSHION TOP 4-PARTS
092.000		759551774100		POLSTER UNTEN 4-TEILIG	CUSHION BOTTOM 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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3 / 2015

48 VLE 685 BG

BESTELL-NR. / ORDER NO.: NSN000 (NSN)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NSN000		48 VLE 685 BG PRODUKTCODE NSN KEIN E-TEIL	48 VLE 685 BG PRODUCT CODE NSN NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal " http://service.grundig.de ".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal " http://service.grundig.de ".
001.000		759551773800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551773900		STANDFUSS SCHWARZ	STAND FOOT BLACK
005.100		759551769700		STANDFUSSHALTER LINKS SCHWARZ	STANDFOOTHOLDER LEFT BLACK
005.200		759551769800		STANDFUSSHALTER RECHTS SCHWARZ	STANDFOOTHOLDER RIGHT BLACK
015.000		759551770000		LAUTSPR.LINKS 8R 10/15W 46.3x169 *1	SPEAKER LEFT 8R 10/15W 46.3x169 *1
015.000		759551793500		LAUTSPR.LINKS 8R 10/15W 46.3x169 *2	SPEAKER LEFT 8R 10/15W 46.3x169 *2
016.000		759551769900		LAUTSPR.RECHTS 8R 10/15W 46.3x169 *1	SPEAKER RIGHT 8R 10/15W 46.3x169 *1
016.000		759551793600		LAUTSPR.RECHTS 8R 10/15W 46.3x169 *2	SPEAKER RIGHT 8R 10/15W 46.3x169 *2
018.000		759551789200		KABEL FFC LVDS 51P 0.5MM 800MM *2	CABLE FFC LVDS 51P 0.5MM 800MM *2
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000		057D48-A15 *		LCD BMS 056D48-A09 TY X6	LCD BMS 056D48-A09 TY X6
020.001	△	056D48-A09 *		LCD BMS SS 50HZ DLED	LCD BMS SS 50HZ DLED
020.100	△	759551769300		T-CON MODUL (XQL)	T-CON BOARD (XQL)
021.100		759551770100		KABEL 14 PIN 370 MM NETZTEIL	CABLE 14 PIN 370MM POWER BOARD
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320800	X	NETZTEIL LIPS (VTY)	POWER BOARD LIPS (VTY)
025.000	△	275991211700	X	CHASSISMODUL TY (NHJ) *1	CHASSIS BOARD TY (NHJ) *1
025.000	△	275991223100	X	CHASSISMODUL TY (FNB) *2	CHASSIS BOARD TY (FNB) *2
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551768700		IR-EMPPFAENGER TSOP36436TT *1	IR RECEIVER TSOP36436TT *1
032.000		759551786600		IR-EMPPFAENGER TSOP36438TT *2	IR-RECEIVER TSOP36438TT *2
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4P 1MM 120MM	FFC 4PIN 1MM 120MM
090.000		759551770200		KARTON 48	CARTON 48
091.000		759551774000		POLSTER OBEN 4-TEILIG	CUSHION TOP 4-PARTS
092.000		759551774100		POLSTER UNTEN 4-TEILIG	CUSHION BOTTOM 4-PARTS
				* KEIN ERSATZTEIL	* NO SPARE PART
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST
				DIE BEDIENUNGSANLEITUNG IST UEBER FOLGENDER ADRESSE ABRUFBAR: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM ADDRESS: WWW.GRUNDIG.DE/SERVICE/DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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8 / 2014

48 VLE 4420 BM

BESTELL-NR. / ORDER NO.: NHJ000 (NHJ)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NHJ000		48 VLE 4420 BM PRODUKTCODE NHJ KEIN E-TEIL	48 VLE 4420 BM PRODUCT CODE NHJ NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal " http://service.grundig.de ".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal " http://service.grundig.de ".
001.000		759551775400		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551773900		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551770000		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551769900		LAUTSPRECHER RECHTS 8R 10W(N)/15W	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D48-A07		LCD-DISPLAY BMS 056D48-A09 TY/ART	LCD-DISPLAY BMS 056D48-A09 TY/ART
020.001	△	056D48-A09		LCD-DISPLAY BMS SS 50HZ DLED TUR	LCD-DISPLAY BMS SS 50HZ DLED TUR
				KEIN ERSATZTEIL	NO SPARE PART
020.100	△	759551769300		T-CON MODUL (XQL)	T-CON BOARD (XQL)
021.000		759551770100		KABEL 14 PIN 370 MM NETZTEIL	CABLE 14 PIN 370MM POWER BOARD
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320800	X	NETZTEIL LIPS (VTY)	POWER BOARD LIPS (VTY)
025.000	△	275991218500	X	CHASSISMODUL TY (NHJ)	CHASSIS BOARD TY (NHJ)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551544900		IR-EMPPFAENGER TSOP35436TT	IR-RECEIVER TSOP35436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551770200		KARTON 48	CARTON 48
091.000		759551774000		POLSTER OBEN 4-TEILIG	CUSHION TOP 4-PARTS
092.000		759551774100		POLSTER UNTEN 4-TEILIG	CUSHION BOTTOM 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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5 / 2014

48 VLE 4421 BF

BESTELL-NR. / ORDER NO.: NGA000 (NGA)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NGA000		48 VLE 4421 BF PRODUKT CODE NGA KEIN E-TEIL	48 VLE 4421 BF PRODUCT CODE NGA NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551775400		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENSE
002.000		759551769500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551773900		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551769900		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551770000		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D48-A07		LCD-DISPLAY BMS 056D48-A09 TY/ART/	LCD-DISPLAY BMS 056D48-A09 TY/ART/
020.001	△	056D48-A09		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
021.100		759551770100		KABEL 14 PIN 370 MM NETZTEIL	CABLE 14 PIN 370MM POWER BOARD
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320800		NETZTEIL TY CHASSIS 48 LIPS	POWERBOARD TY CHASSIS 48 LIPS
025.000	△	275991212100	X	CHASSISMODUL TY (NGA)	CHASSIS BOARD TY (NGA)
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2	REMOTE CONTROL RC 23 VER. 2
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFÄNGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551770200		KARTON 48	CARTON 48
091.000		759551774000		POLSTER OBEN 4-TEILIG	CUSHION TOP 4-PARTS
092.000		759551774100		POLSTER UNTEN 4-TEILIG	CUSHION BOTTOM 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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48 VLE 4421 BF

BESTELL-NR. / ORDER NO.: NHP000 (NHP)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NHP000		48 VLE 4421 BF PRODUKT CODE NHP KEIN E-TEIL	48 VLE 4421 BF PRODUCT CODE NHP NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551775400		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENSE
002.000		759551769500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551773900		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551769900		LAUTSPRECHER RECHTS 8R 10W(N)	SPEAKER RIGHT 8R 10W(N)/15W(M)
016.000		759551770000		LAUTSPRECHER LINKS 8R 10W(N)	SPEAKER LEFT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D48-A07		LCD-DISPLAY BMS 056D48-A09 TY/ART/	LCD-DISPLAY BMS 056D48-A09 TY/ART/
020.001	△	056D48-A09		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
020.100	△	759551769300		T-CON MODUL (XQL)	T-CON BOARD (XQL)
021.100		759551770100		KABEL 14 PIN 370 MM NETZTEIL	CABLE 14 PIN 370MM POWER BOARD
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320800	X	NETZTEIL LIPS (VTY)	POWER BOARD LIPS (VTY)
025.000	△	275991212100	X	CHASSISMODUL TY (NGA)	CHASSIS BOARD TY (NGA)
027.000		759551751400		FERNBEDIENUNG RC 23 VER. 2	REMOTE CONTROL RC 23 VER. 2
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFÄNGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551767300		KARTON 48	CARTON 48
091.000		759551774000		POLSTER OBEN 4-TEILIG	CUSHION TOP 4-PARTS
092.000		759551774100		POLSTER UNTEN 4-TEILIG	CUSHION BOTTOM 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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8 / 2014

48 VLE 5420 BN

BESTELL-NR. / ORDER NO.: NHK000 (NHK)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NHK000		48 VLE 5420 BN PRODUKT CODE NHK KEIN E-TEIL	48 VLE 5420 BN PRODUCT CODE NHK NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551773800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551773900		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551770000		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551769900		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D48-A15		LCD-DISPLAY BMS 056D48-A09 TY/ART	LCD-DISPLAY BMS 056D48-A09 TY/ART
020.001	△	056D48-A09		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
020.100	△	759551769300		T-CON MODUL (XQL)	T-CON BOARD (XQL)
021.100		759551770100		KABEL 14 PIN 370 MM NETZTEIL	CABLE 14 PIN 370MM POWER BOARD
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320800	X	NETZTEIL LIPS (VTY)	POWER BOARD LIPS (VTY)
025.000	△	275991218400	X	CHASSISMODUL TY (NHK)	CHASSIS BOARD TY (NHK)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551544900		IR-EMPFAENGER TSOP35436TT	IR-RECEIVER TSOP35436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551770200		KARTON 48	CARTON 48
091.000		759551774000		POLSTER OBEN 4-TEILIG	CUSHION TOP 4-PARTS
092.000		759551774100		POLSTER UNTEN 4-TEILIG	CUSHION BOTTOM 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

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48 VLE 5421 BG

BESTELL-NR. / ORDER NO.: NJV000 (NJV)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NJV000		48 VLE 5421 BG PRODUKT CODE NJV KEIN E-TEIL	48 VLE 5421 BG PRODUCT CODE NJV NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551773800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551773900		STANDFUSS SCHWARZ	STAND FOOT BLACK
005.100		759551769700		STANDFUSSHALTER LINKS SCHWARZ	STANDFOOTHOLDER LEFT BLACK
005.200		759551769800		STANDFUSSHALTER RECHTS SCHWARZ	STANDFOOTHOLDER RIGHT BLACK
015.000		759551769900		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551770000		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D48-A15		LCD-DISPLAY BMS 056D48-A09 TY/ART	LCD-DISPLAY BMS 056D48-A09 TY/ART
020.001	△	056D48-A09		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
020.100	△	759551769300		T-CON MODUL (XQL)	T-CON BOARD (XQL)
021.100		759551770100		KABEL 14 PIN 370 MM NETZTEIL	CABLE 14 PIN 370MM POWER BOARD
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320800	X	NETZTEIL TY CHASSIS 48 LIPS	POWERBOARD TY CHASSIS 48 LIPS
025.000	△	275991211700	X	CHASSISMODUL TY (NJV)	CHASSIS BOARD TY (NJV)
027.000		759551767800		FERNBEDIENUNG TP 6 VER. 3	REMOTE CONTROL TP 6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551770200		KARTON 48	CARTON 48
091.000		759551774000		POLSTER OBEN 4-TEILIG	CUSHION TOP 4-PARTS
092.000		759551774100		POLSTER UNTEN 4-TEILIG	CUSHION BOTTOM 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
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48 VLE 5421 BG

BESTELL-NR. / ORDER NO.: NLE000 (NLE)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NLE000		48 VLE 5421 BG PRODUKT CODE NLE KEIN E-TEIL	48 VLE 5421 BG PRODUCT CODE NLE NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551773800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENSE
002.000		759551769500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551773900		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551769900		LAUTSPRECHER RECHTS 8R 10W(N)/15W	SPEAKER RIGHT 8R 10W(N)/15W
016.000		759551770000		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D48-A15		LCD-DISPLAY BMS 056D48-A09 TY/ART	LCD-DISPLAY BMS 056D48-A09 TY/ART
020.001	△	056D48-A09		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
020.100	△	759551769300		T-CON MODUL (XQL)	T-CON BOARD (XQL)
021.100		759551770100		KABEL 14 PIN 370 MM NETZTEIL	CABLE 14 PIN 370MM POWER BOARD
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320800	X	NETZTEIL LIPS (VTY)	POWER BOARD LIPS (VTY)
025.000	△	275991211600	X	CHASSISMODUL TY (NJE)	CHASSIS BOARD TY (NJE)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED MODULE (ZGY)
032.000		759551768700		IR-EMPFÄNGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551770200		KARTON 48	CARTON 48
091.000		759551774000		POLSTER OBEN 4-TEILIG	CUSHION TOP 4-PARTS
092.000		759551774100		POLSTER UNTEN 4-TEILIG	CUSHION BOTTOM 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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HAMBURG 28 CLE 5407 BG

BESTELL-NR. / ORDER NO.: NJB000 (NJB)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NJB000		HAMBURG 28 CLE 5407 BG PRODUKT CODE NJB KEIN E-TEIL	HAMBURG 28 CLE 5407 BG PRODUCT CODE NJB NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de" .	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de" .
001.000		759551776300		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENSE
002.000		759551775600		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551775700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551776400		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551769900		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551770000		LAUTSPRECHER RECHTS 8R 10W(N)/15W	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551460800		KABEL DISPLAY-LVDS 400MM	CABLE DISPLAY-LVDS 400MM
020.000	△	057E28-A03		LCD-DISPLAY BMS 056E28-A06 TY/ART/	LCD-DISPLAY BMS 056E28-A06 TY/ART/
020.001	△	056E28-A06		LCD-DISPLAY BMS BOE 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS BOE 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM	POWERBOARD 19V 72W 2,5MM
025.000	△	275991212400	X	CHASSISMODUL TY (NJB)	CHASSIS BOARD TY (NJB)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFÄNGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551775900		KARTON 28	CARTON 28
091.000		759551776000		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
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HAMBURG 32 CLE 5407 BG

POS. NR. ABB. MATERIAL-NR. ANZ.				BESTELL-NR. / ORDER NO.: NJC000 (NJC)	
POS. NO.	FIG.	PART NUMBER	QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
NJC000				HAMBURG 32 CLE 5407 BG PRODUKTCODE NJC KEIN E-TEIL	HAMBURG 32 CLE 5407 BG PRODUCT CODE NJC NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal " http://service.grundig.de ".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal " http://service.grundig.de ".
001.000		759551769400		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENSE
002.000		759551769200		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773100		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551768200		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551768500		KABEL LVDS 30 PIN P=1MM L=520MM	CABLE LVDS 30 PIN P=1MM L=520MM
020.000	△	057E32-A01		LCD-DISPLAY BMS 056E32-A03 TY/ART KEIN ERSATZTEIL	LCD-DISPLAY BMS 056E32-A03 TY/ART NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM	POWERBOARD 19V 72W 2.5MM
025.000	△	275991211500	X	CHASSISMODUL TY (NJC)	CHASSIS BOARD TY (NJC)
027.000		759551767800		FERNBEDIENUNG TP 6 VER. 3	REMOTE CONTROL TP 6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFÄNGER TSOP36436TT	IR RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551768800		KARTON 32	CARTON 32
091.000		759551768900		POLSTER 4-TEILIG	CUSHION 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
				SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				720100567000 720108000001	720100567000 720108000001
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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HAMBURG 32 CLE 5407 SG

POS. NR. ABB. MATERIAL-NR. ANZ.				BESTELL-NR. / ORDER NO.: NUJ000 (NUJ)	
POS. NO.	FIG.	PART NUMBER	QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
NUJ000				Hamburg 32 CLE 5407 SG PRODUKTCODE NUJ KEIN E-TEIL	Hamburg 32 CLE 5407 SG PRODUCT CODE NUJ NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal " http://service.grundig.de ".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal " http://service.grundig.de ".
001.000		759551795000		GEH.- VORDERTEIL SILBER	FRONT CABINET SILVER
001.100		759551729100		LED-LINSE	LED-LENSE
002.000		759551794800		RUECKWAND SILBER	BACK COVER SILVER
003.000		759551794900		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551768200		STANDFUSS SCHWARZ	STAND FOOT BLACK
015.000		759551768300		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551768400		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
020.000	△	057E32-A10		LCD BMS 056E32-A03 TY/ART/GRU/X7	LCD BMS 056E32-A03 TY/ART/GRU/X7
020.001	△	056E32-A03		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
022.000	△	759551769000		NETZKABEL 80 CM	POWER CORD 80 CM
023.000	△	275990320700		NETZTEIL EXTERN 19V 72W 2,5MM (ZJL)	POWER BOARD 19V 72W 2.5MM (ZJL)
025.000	△	275991220000	X	CHASSISMODUL TY (FUH)	CHASSIS BOARD TY (FUH)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145400		FERNBEDIENUNG TP EASY WEISS	REMOTE CONTROL TP EASY WHITE
031.000		759551793400		IR/LED MODUL (ZGP)	IR/LED BOARD (ZGP)
032.000		759551786600		IR-EMPFÄNGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
090.000		759551768800		KARTON 32	CARTON 32
091.000		759551768900		POLSTER 4-TEILIG	CUSHION 4-PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
				SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				720100567000 720108000001	720100567000 720108000001
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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HAMBURG 40 CLE 5427 BG

BESTELL-NR. / ORDER NO.: NJD000 (NJD)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NJD000		HAMBURG 40 CLE 5427 BG PRODUKT CODE NJD KEIN E-TEIL	HAMBURG 40 CLE 5427 BG PRODUCT CODE NJD NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551786800		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551774500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551774300		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551790600		STANDFUSS SILBER	STANDFOOT SILVER
015.000		759551774600		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551774700		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D40-A01		LCD BMS-DISPLAY 056D40-A07 TY-MY/ART	LCD BMS-DISPLAY 056D40-A07 TY-MY/ART
020.001	△	056D40-A07		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
021.100		759551774400		KABEL CHASSIS NETZEIL 250 MM 14PIN	CABLE CHASSIS POWERB. 250 MM 14PIN
022.000	△	759551774200		NETZKABEL	POWER CORD
023.000	△	275990320100		NETZTEIL (ZGP)	POWER SUPPLY (ZGP)
025.000	△	275991216200	X	CHASSISMODUL TY (NLD)	CHASSIS BOARD TY (NLD)
027.000		759551767800		FERNBEDIENUNG TP6 VER. 3	REMOTE CONTROL TP6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
030.000		759551753100		TASTSCHALTER	KEY SWITCH
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551786600		IR-EMPFAENGER TSOP36438TT	IR-RECEIVER TSOP36438TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551786700		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551761400		KARTON 40 BMS	CARTON 40 BMS
091.000		759551761500		POLSTER 4-TEILIG	CUSHION 4 PARTS
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts ListNUR FÜR INTERNEN GEBRAUCH
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HAMBURG 48 CLE 5427 BG

BESTELL-NR. / ORDER NO.: NJE000 (NJE)

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		NJE000		HAMBURG 48 CLE 5427 BG PRODUKT CODE NJE KEIN E-TEIL	HAMBURG 48 CLE 5427 BG PRODUCT CODE NJE NO SPARE PART
				Hinweis: Sollte in dieser Ersatzteilliste Ihr "Product Code" oder Ihre Display-Variante nicht aufgeführt sein, finden Sie eine aktualisierte Version auf dem GRUNDIG Service-Portal "http://service.grundig.de".	Note: If your "Product Code" or display variant is not mentioned in the spare parts list, please look for a current version at the GRUNDIG service portal "http://service.grundig.de".
001.000		759551773600		GEH.- VORDERTEIL SCHWARZ	FRONT CABINET BLACK
001.100		759551729100		LED-LINSE	LED-LENS
002.000		759551769500		RUECKWAND SCHWARZ	BACK COVER BLACK
003.000		759551773700		GEH.- MITTELTEIL SCHWARZ	CABINET MIDDLEPART BLACK
005.000		759551769600		STANDFUSS SCHWARZ	STAND FOOT BLACK
005.100		759551769700		STANDFUSSHALTER LINKS SCHWARZ	STANDFOOTHOLDER LEFT BLACK
005.200		759551769800		STANDFUSSHALTER RECHTS SCHWARZ	STANDFOOTHOLDER RIGHT BLACK
015.000		759551769900		LAUTSPRECHER LINKS 8R 10W(N)/15W(M)	SPEAKER LEFT 8R 10W(N)/15W(M)
016.000		759551770000		LAUTSPRECHER RECHTS 8R 10W(N)/15W(M)	SPEAKER RIGHT 8R 10W(N)/15W(M)
019.000		759551622500		KABEL LVDS 51 P 600MM	CABLE LVDS 51 P 600MM
020.000	△	057D48-A02		LCD-DISPLAY BMS 056D48-A09 TY/ART	LCD-DISPLAY BMS 056D48-A09 TY/ART
020.001	△	056D48-A09		LCD-DISPLAY BMS SS 50HZ DLED TUR KEIN ERSATZTEIL	LCD-DISPLAY BMS SS 50HZ DLED TUR NO SPARE PART
020.100	△	759551769300		T-CON MODUL (XQL)	T-CON BOARD (XQL)
021.100		759551770100		KABEL 14 PIN 370 MM NETZTEIL	CABLE 14 PIN 370MM POWER BOARD
023.000	△	275990320800	X	NETZTEIL TY CHASSIS 48 LIPS	POWERBOARD TY CHASSIS 48 LIPS
025.000	△	275991211600	X	CHASSISMODUL TY (NJE)	CHASSIS BOARD TY (NJE)
027.000		759551767800		FERNBEDIENUNG TP 6 VER. 3	REMOTE CONTROL TP 6 VER. 3
028.000		720117145300		FERNBEDIENUNG TP EASY SCHWARZ	REMOTE CONTROL TP EASY BLACK
031.000		759551768600		IR/LED MODUL (ZGY)	IR/LED BOARD (ZGY)
032.000		759551768700		IR-EMPFAENGER TSOP36436TT	IR-RECEIVER TSOP36436TT
033.000		759551549100		LED-SMD 1206 BLAU 250MCD 3.3V	LED-SMD 1206 BLUE 250MCD 3.3V
034.000		759551769100		FLACHBANDKABEL 4 PIN P=1MM L=120MM	FFC 4 PIN P=1MM L=120MM
090.000		759551770200		KARTON 48	CARTON 48
				DIE BEDIENUNGSANLEITUNG KOENNEN SIE IM INTERNET UNTER FOLGENDER ADRESSE ABRUFEN: WWW.GRUNDIG.DE MENU: DOWNLOADS	THE INSTRUCTION MANUAL CAN BE DOWNLOADED FROM THE INTERNET UNDER THE FOLLOWING ADDRESS: WWW.GRUNDIG.DE MENU: DOWNLOADS
		720100567000 720108000001		SERVICE MANUAL D/GB SICHERHEITSMANUAL D/GB/E/F/I	SERVICE MANUAL D/GB SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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NETZTEILMODUL (ZGP)
POWER BOARD (ZGP)

MATERIAL-NR. / PART NO.: 275990320100

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG D	DESCRIPTION GB
	△	275990320100		NETZTEIL (ZGP)	POWER BOARD (ZGP)

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION	POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
C2205	759551345000	1UF K 16V / 0805 X7R CC-CHIP	L2003	△ 759551772500	TRF SMT SHEKOU JEWEL
C2206	759551345000	1UF K 16V / 0805 X7R CC-CHIP	L2004	△ 759551772500	TRF SMT SHEKOU JEWEL
C2209	759551345000	1UF K 16V / 0805 X7R CC-CHIP	L2201	759551739300	BOB 3.3UH 6.3A 9.3*7.8MM R:5
C2211	759551345000	1UF K 16V / 0805 X7R CC-CHIP	L2203	759551562600	SMD SPULE 10UH 200MA
D2001	759551739500	DIO-SMD GLSS PASS.RECT.5A	L2401	759551739300	BOB 3.3UH 6.3A 9.3*7.8MM R:5
D2002	759551395100	DIODE MUR460 4A 600V ULTRA	R2013	759551167200	RC-CHIP 100K %1 1/10W /0805
D2003	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C15	R2030	759551290500	RM27K 1% 1/4W WIDERST.
D2201	759551395300	DIODE UF4007F R:12.5	R2209	759550542800	WIDERST 1,2R J 1W
D2202	759551499000	DIODE STKY SB560 5A 60V	R2243	759551167200	RC-CHIP 100K %1 1/10W /0805
D2203	759551499000	DIODE STKY SB560 5A 60V	R2403	759550542800	WIDERST 1,2R J 1W
D2204	759551395300	DIODE UF4007F R:12.5	S2001	△ 759551772600	NETZANSCHLUSS 396G1-R 3P
D2206	759551613000	DIODE ZEN BZX84C22-7-F	T2001	759551637700	TRN FQN1N50C 500V 0.38A TO92
D2207	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C15	T2002	759551738700	TRN 600V 10A TO220F
D2208	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C15	T2201	759551501700	TRANS-SMD DMN3150L-7 30V
D2209	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C15	T2203	830100484800	SMD TRANS BC848B/ BC847B
D2213	759551613000	DIODE ZEN BZX84C22-7-F	T2206	830100484800	SMD TRANS BC848B/ BC847B
D2402	759551499100	DIODE-CHIP ES1D 1A 200V	T2208	830100484800	SMD TRANS BC848B/ BC847B
D2404	759551499000	DIODE STKY SB560 5A 60V	T2209	830100484800	SMD TRANS BC848B/ BC847B
D2405	759551499000	DIODE STKY SB560 5A 60V	T2401	759551738800	TRN 500V 4.2A TO220F
D2406	759551499100	DIODE-CHIP ES1D 1A 200V	T2402	759551738800	TRN 500V 4.2A TO220F
D2409	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C15	T2403	759551772800	TRN-SMD 80V 0.5A PNP SOT23
D2410	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C15	TR2201	△ 759551772900	TRF SMT SHEKOU JEWEL BCK
D2411	759551499100	DIODE-CHIP ES1D 1A 200V	TR2401	△ 759551773000	TRF SMT TDK SRX38EM
D2412	759551613000	DIODE ZEN BZX84C22-7-F			
D2413	759551499100	DIODE-CHIP ES1D 1A 200V			
D2415	759551499000	DIODE STKY SB560 5A 60V			
D2416	759551499000	DIODE STKY SB560 5A 60V			
IC2001	759551739000	IC-SMD FAN7930CMX SOP8			
IC2201	759551772300	IC ICE2QR1765Z DIP7 TUB			
IC2202	△ 759551772400	IC OPTOKOPPLER			
IC2203	759551434500	IC-SMD ZTL431AFFTA SOT23F			
IC2204	△ 759551772400	IC OPTOKOPPLER			
IC2401	759551739100	IC-SMD FAN7631SJX SOP			
IC2402	△ 759551772400	IC OPTOKOPPLER			
IC2403	759551434500	IC-SMD ZTL431AFFTA SOT23F			
IC2405	759551434500	IC-SMD ZTL431AFFTA SOT23F			

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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NETZTEILMODUL LIPS (VTY)
POWER BOARD LIPS (VTY)

MATERIAL-NR. / PART NO.: 275990320800

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG D	DESCRIPTION GB
	△	275990320800		NETZTEIL LIPS (VTY)	POWER BOARD LIPS (VTY)

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION	POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
C2205	759551345000	1UF K 16V / 0805 X7R CC-CHIP	L2401	759551739300	BOB 3.3UH 6.3A 9.3*7.8MM R:5
C2206	759551345000	1UF K 16V / 0805 X7R CC-CHIP	R2013	759551167200	RC-CHIP 100K %1 1/10W /0805
C2209	759551345000	1UF K 16V / 0805 X7R CC-CHIP	R2030	759551290500	RM27K 1% 1/4W WIDERST.
C2211	759551345000	1UF K 16V / 0805 X7R CC-CHIP	R2209	759550542800	WIDERST 1,2R J 1W
D2001	759551739500	DIO-SMD GLSS PASS.RECT.5A	R2243	759551167200	RC-CHIP 100K %1 1/10W /0805
D2002	759551395100	DIODE MUR460 4A 600V ULTRA	R2403	759550542800	WIDERST 1,2R J 1W
D2003	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C15	S2001	△ 759551772600	NETZANSCHLUSS 396G1-R 3P
D2201	759551395300	DIODE UF4007F R:12.5	T2001	759551637700	TRN FQN1N50C 500V 0.38A
D2202	759551499000	DIODE STKY SB560 5A 60V	T2002	759551772700	TRN-SMD 600V 10.2A N-CH
D2203	759551499000	DIODE STKY SB560 5A 60V	T2201	759551501700	TRANS-SMD DMN3150L-7 30V
D2206	759551613000	DIODE ZEN BZX84C22-7-F SOT23	T2203	830100484800	SMD TRANS BC848B/ BC847B
D2207	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C15	T2206	830100484800	SMD TRANS BC848B/ BC847B
D2208	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C15	T2208	830100484800	SMD TRANS BC848B/ BC847B
D2209	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C15	T2209	830100484800	SMD TRANS BC848B/ BC847B
D2213	759551613000	DIODE ZEN BZX84C22-7-F SOT23	T2401	759551738800	TRN 500V 4.2A TO220F
D2402	759551499100	DIODE-CHIP ES1D 1A 200V	T2402	759551738800	TRN 500V 4.2A TO220F
D2404	759551499000	DIODE STKY SB560 5A 60V	T2403	759551772800	TRN-SMD 80V 0.5A PNP SOT23
D2405	759551499000	DIODE STKY SB560 5A 60V	TR2201	△ 759551772900	TRF SMT SHEKOU JEWEL
D2406	759551499100	DIODE-CHIP ES1D 1A 200V	TR2401	△ 759551773000	TRF SMT TDK SRX38EM-WA69519
D2409	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C15			
D2410	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C15			
D2411	759551499100	DIODE-CHIP ES1D 1A 200V			
D2412	759551613000	DIODE ZEN BZX84C22-7-F SOT23			
D2413	759551499100	DIODE-CHIP ES1D 1A 200V			
D2415	759551499000	DIODE STKY SB560 5A 60V			
D2416	759551499000	DIODE STKY SB560 5A 60V			
IC2001	759551739000	IC-SMD FAN7930CMX SOP8			
IC2201	759551772300	IC ICE2QR1765Z DIP7 TUB			
IC2202	△ 759551772400	IC OPTOKOPPLER FOD817C300W			
IC2203	759551434500	IC-SMD ZTL431AFFTA SOT23F			
IC2204	△ 759551772400	IC OPTOKOPPLER FOD817C300W			
IC2401	759551739100	IC-SMD FAN7631SJX SOP			
IC2402	△ 759551772400	IC OPTOKOPPLER FOD817C300W			
IC2403	759551434500	IC-SMD ZTL431AFFTA SOT23F			
IC2405	759551434500	IC-SMD ZTL431AFFTA SOT23F			

L2003	△ 759551772500	TRF SMT SHEKOU JEWEL
L2004	△ 759551772500	TRF SMT SHEKOU JEWEL
L2201	759551739300	BOB 3.3UH 6.3A 9.3*7.8MM R:5
L2203	759551562600	SMD SPULE 10UH 200MA

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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CHASSISMODUL / CHASSIS BOARD TY

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