

2. Product Specification

2-1 Product Features

Block	Specification	Major IC	Remark
RF	Tuner	TCLW3001PD32S(H)	SEMCO
Power	Sanken Electric Co. SMPS	50" HD SMPS	
Video	Scaler	SVP-PX	TRIDENT
	Video Decoder		
Sound	Sound Processor	STV8257DSX	ST Microelectronics
	Sound AMP	STA323W	ST Microelectronics
	Audio S/W	MM74HC4052	
PDP Module	Samsung SDI V5.1 Module	50" HD	SAMSUNG SDI
Remocon	TM87B		
Cabinet	C7		

■ Chip Description

- SVP-PX (IC611) : SVPTMPX contains dual-purposed triple 10-bit high-precision and high speed video ADCs for both PC and video inputs, the high speed HDMI could support all HDMI inputs up to 135MHz with HDCP format, the high-performance multi-format 3D digital comb video decoder that supports NTSC, PAL, and SECAM*, a HDTV sync separator, motion adaptive de-interlacing engine, and the video format conversion engine, supporting multi-window display in many different output modes.
- STV8257DSX (IC503) : Digital Audio Decoder/Processor
- STA323W (IC505) : Audio power amplifiers

2-2 Key Features

Model		PS-50C7HR
Dimensions	Display	48.3 (W) x 31.6 (H) x 3.8 (D) inches (Without Stand)
		48.3 (W) x 33.3 (H) x 13.4 (D) inches (With Stand)
Weight	Display	42.6 kg / 93.9 lbs (Without Stand)
		48.3 kg / 106.5 lbs (With Stand)
Voltage		EU : AC 220-240V~, 50Hz CIS : AC 100-240V~, 50/60Hz
Colour System		PAL, SECAM, NT3.58, NT4.43
Sound System		BG, DK, I, L
Power Consumption		440 W
Number of Pixels		1366 (H) x 768 (V)
Screen Size		50 inches
ANTENNA input		VHF, UHF (75Ω unbalanced)
VIDEO input		SCART1, SCART2 AV (Side), S-VIDEO (Side) COMPONENT IN (480i/P, 576i/P, 720P, 1080i) PC IN (MINI D-SUB 15P) HDMI/DVI IN
AUDIO input		SCART1, SCART2 AV (Side), S-VIDEO (Side) Component PC DVI
AV Output		AUDIO OUT Headphone (Side)
Speaker Output		10W + 10W (8Ω) (Headphone Out : 10 mW MAX)
New Function		Blue eye

■ H/W Configuration

- Video : SVP-PX
- Sound : STA8257DSX, STA323W
- Tuner : TCLW3001PD32S (H)

■ S/W Configuration

- Main Micom : M30840SGP (IC202)
- Sub Micom : 3F866BXZZ (IC207)

■ Picture

- System : Video → PAL/SECAM/NTSC4.43, Sound → Analog
- Progressive
- Output resolution : 1366x768
- OSD : Smart user Interface
- Picture Enhancement : FRC
- Still picture, Noise reduction
- Comb Filter : 3D comb filter
- PIP : Large
- Panorama : Wide

■ Sound

- System : Stereo
- Output : 10W + 10W
- Speaker : built-in

■ Feature

- Component Interface (480i/480p/576i/576p/720p/1080i, Y/Pb/Pr)
- Digital Interface : HDMI
- Picture Size : Auto Wide/16:9/Wide4:3/Zoom4:3
- Auto Store
- Sleep Timer : 180 minute
- Clock
- Zoom, Previous channel, Blue Screen, Color Tone, Screen Burn Protection

■ Remocon

- TM87B

■ Power Supply

- EU : AC 220-240V, 50Hz
- CIS : AC 100-240V~, 50/60Hz

■ Power Consumption

- Max Power : 440 W

■ Note



- You can input the DVI signal using the DVI ↔ HDMI conversion cable.
- When connecting HDMI input using the DVI ↔ HDMI conversion cable, connect the sound signal to the DVI Audio IN port using a separate connection cable.

- Both screen position and size will vary, depending on the type of PC monitor and its resolution.
The table below shows all of the display modes that are supported: (N : Negative, P : Positive)






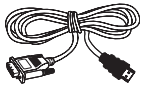





Video Signal	Resolution (Dot X Line)	Vertical Frequency (Hz)	Horizontal Frequency (KHz)	Vertical Polarity	Horizontal Polarity	PS-42C7S	PS-42C7H/ PS-42Q7H	PS-50C7H/ PS-50Q7H/ PS-50C7HR
IBM PC / AT Compatible	640 X 350	70.086	31.469	N	P	√	√	√
	720 X 400	70.087	31.469	P	N	√	√	√
	640 X 480	59.940	31.469	N	N	√	√	√
		70.000	35.000	N/P	N/P	√	√	√
		72.809	37.861	N	N	√	√	√
		75.000	37.500	N	N	√	√	√
	800 X 600	56.250	35.156	N/P	N/P	√	√	√
		60.317	37.879	P	P	√	√	√
		70.000	43.75	N/P	N/P	√	√	√
		72.188	48.077	P	P	√	√	√
		75.000	46.875	P	P	√	√	√
	848 x 480	60.000	31.020	P	P	√	√	
		74.769	37.684	P	N	√	√	
	1024 X 768	60.004	48.363	N	N		√	√
		70.069	56.476	N	N		√	√
		72.000	57.672	N/P	N/P		√	√
		75.029	60.023	P	P		√	√
	1280 X 720	59.855	44.772	P	N			√
	1360 X 768	60.015	47.712	P	P			√

- ▶ The interlace mode is not supported.
- ▶ The TV operates abnormally if a non-standard video format is selected.
- ▶ 480i/p, 576i/p, 720p, or 1080i is not available in PC mode.
- ▶ The PC text quality is optimum in WVGA mode (848 x 480@60Hz). (PS-42C7S)
- ▶ The PC text quality is optimum in XGA mode (1024 x 768@60Hz). (PS-42C7H/PS-42Q7H)
- ▶ The PC text quality is optimum in WXGA mode (1360 x 768@60Hz). (PS-50C7H/PS-50Q7H)

2-3 Specifications Analysis

Model		PS-50C7HR (Audi-50HD)	Puccini(V4)
Design			
Basic	Display Type	PDP TV	PDP TV
	Built-In Tuner	X	O
	Resolution	1366 x 768	1366 x 768
	PDP Module	Samsung SDI V5.1	V4
	Screen Size	50 inches	50 inches
	Aspect Ratio	16 : 9	16 : 9
	Power Consumption	440 W	420 W
	Dimensions	48.3"(W) x 31.6"(H) x 3.8"(D) inches	48.43 (W) x 32.52 (H) x 3.72 (D) inches
	Weight	42.6 Kg / 93.9 lbs	46.8 Kg / 103.17 lbs
Picture	Brightness	1,000 Cd/m2	1,300 Cd/m2
	Contrast Ratio	10,000 : 1	10,000 : 1
	Image Enhancer	DNie FRC	DNie-L
Audio	Equalizer	5 Band	5 Band
	Auto Volume	O	O
	Surround Sound	SRS TruSurround XT Dolby Digital	SRS TruSurround
	Speaker Output	10 W + 10 W	15 W + 15 W
	Speaker	Included	Included
Features	PIP	O	O
	Double Screen	X	O
	TTX	O	O
	Still Image	O	O
	My Color Control	X	O
	Color Weakness	X	O
	Energy Saving	O	O
	Screen Burn Protection	O	O
Connections	Antenna	1 Input	1 Input
	CVBS	1 AV	1 AV
	S-Video	1 Input	1 Input
	Component(Y/PB/PR)	1 Input	1 Input
	PC(D-SUB)	1 Input	1 Input
	DVI	X	X
	HDMI	1 Input	1 Input
	Sub Woofer	X	X
	Optical	X	X
	Coaxial	X	X

2-4 Accessories

Accessories		Item	Item code	Remark
Supplied Accessories		User Manual	BN68-01022J	Samsung Service center
		Remote Control AAA Batteries	BN59-00539A 4301-000103	
		Power Cord	3903-000145	
Accessories that can be purchased additionally		S-VIDEO Cable	-	Internal shopping mall
		HDMI Cable	-	
		HDMI/DVI cable	-	
		Component Cables (RCA)	-	
		PC Cable	-	
		PC Audio Cable	-	
		Scart Cable	-	
		Antenna Cable	-	