

5. Adjusting Procedure (VE710s-2/VE710b-2/VA721)

5.1. ADJUSTMENT CONDITIONS AND PRECAUTIONS

- 1. Approximately 30 minutes should be allowed for warm up before proceeding.
- 2. Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.
- 3. ESD protection is needed before adjustment.

5.2. MAIN ADJUSTMENTS

NO.	FUNCTION	DESIGNATION
1.	White Balance	Function Key
2.	GEOMETRY	Function Key

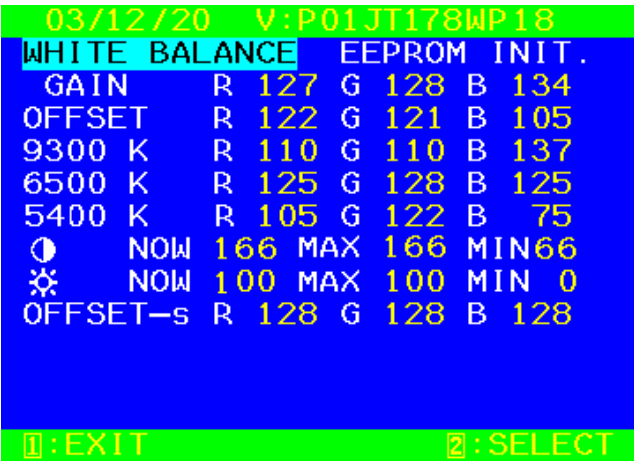
5.3. ALIGNMENT PROCEDURES

Adjustment Conditions and Precautions:

- (A). Power supply voltage:
AC 110/120V±10% 60 Hz±5%, AC 220/240V±10% 50 Hz ±5%.
- (B). Warm up time:
The display must be power ON for at least 30 minutes at full white pattern before starting alignments.
This is especially critical in color temperature and white balance adjustments.
- (C). Signals: reference the front detail specifications and timing table.
Video : reference the front detail specifications.

1. Adjustment of White Balance:

- A. TIMING: 1280x1024 64KHz/60Hz.
- B. PATTERN: 5 Blocks.
- C. LCD MONITOR set to 1280x1024 80K/75Hz BURN IN and warm up over 30 minutes.
- D. CA110 color analyzer at the center of screen and along a perpendicular to the screen at 20cm from the display.
- E. Power turn off, Press “▲” and “ 2 ” and turn on power at the same time after power LED is on, release “▲” and “ 2 ” key, Then press “ 1 ” key go to factory mode. (Fig.1)



(Fig.1)

- F. Adjust Color Temperature:
 - (1) EEPROM INIT (5 BLOCKS):
Press “▼” key move cursor to EEPROM INIT, Press “ 2 ” key then monitor will INIT ADC value.
 - (2) Press “▲” key move cursor to “White Balance”, Press “ 2 ” key do white balance adjustment.
 - (3) Press “▼” key move cursor to “Color Temerature Adjust”, Press “ 2 ” key, Then OSD will display Fig.2



(Fig.2)

(4) 9300K verify: move cursor to 9300K Press 2 key.

Press “▼”, “▲” key adjust R.G.B value

$$x=0.283 \pm 0.02$$

$$y=0.298 \pm 0.02$$

Press 1 key return to Fig.2

(5) 6500K verify: Repeat (4) press “▼”, “▲” move cursor to 6500K press 2 key

$$x=0.313 \pm 0.02$$

$$y=0.329 \pm 0.02$$

$$Y \geq 240 \text{ cd/m}^2$$

(6) 5400K verify: Repeat (4) press “▼”, “▲” move cursor to 5400K press 2 key

$$x=0.332 \pm 0.02$$

$$y=0.348 \pm 0.02$$

(7) Press 1 key go back to Fig.2, Then press 1 key return to Fig.1, Power key OFF/ON quit factory mode.

G. Color Temperature & Luminance Verify:

BRIGHTNESS MAX, CONTRAST MAX

$$9300K: x=0.283 \pm 0.02 \quad y=0.298 \pm 0.02$$

$$6500K: x=0.313 \pm 0.02 \quad y=0.329 \pm 0.02 \quad Y \geq 240 \text{ cd/m}^2$$

$$5400K: x=0.332 \pm 0.02 \quad y=0.348 \pm 0.02$$

2. Geometry:

- Set cross-hatch pattern and preset timing as timing table listed.
- Change to each mode in turn and wait for the monitor finish auto-alignment and save process before change to next mode.
- Until all of modes are agjusted, exit OSD menu and press PWR OFF to exit factory mode.