

1. Alignment and Adjustments

1-1 Adjustments

1-1-1 General Alignment Instructions

Usually, a color TV needs only slight touch-up adjustment upon installation. Check the basic characteristics such as vertical size, horizontal size, and focus. Observe the picture and check for good black and white details. There must be no objectionable color shading: If color shading is present, demagnetize the receiver. If color shading persists, re-do purity and convergence adjustments.

Note :

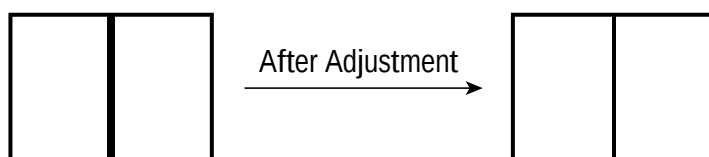
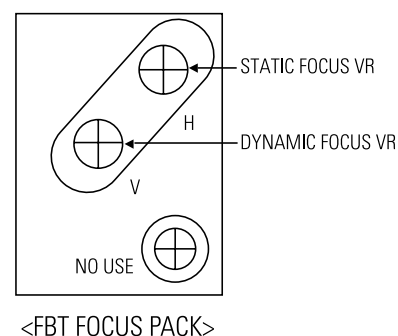
1. This '4. Alignment and Adjustments' applies to K55A chassis applications.
2. AC Power Supply: 160~300V or 100~240V, 50Hz
3. This service manual has been written on the basis of domestic remote-control model adopting K55A chassis. Depending on sales location and product specifications, some of specifications herein may be changed.

1-1-2 Focus Adjustment

K55A contains a dynamic focus circuit. When CRT PCB, FBT or CRT is replaced, be sure to adjust in the following sequence:

Dynamic Focus Adjustment

1. Input a crosshatch pattern.
2. Select "Standard" from the menu,
3. Turn the Static Focus VR clockwise to set it to its maximum.
4. Turn the Dynamic Focus VR counterclockwise to set it to its maximum.
5. Turn the Static Focus VR counterclockwise slowly for the clearest center vertical line.



6. Turn the Dynamic Focus VR clockwise slowly for the clearest third line.



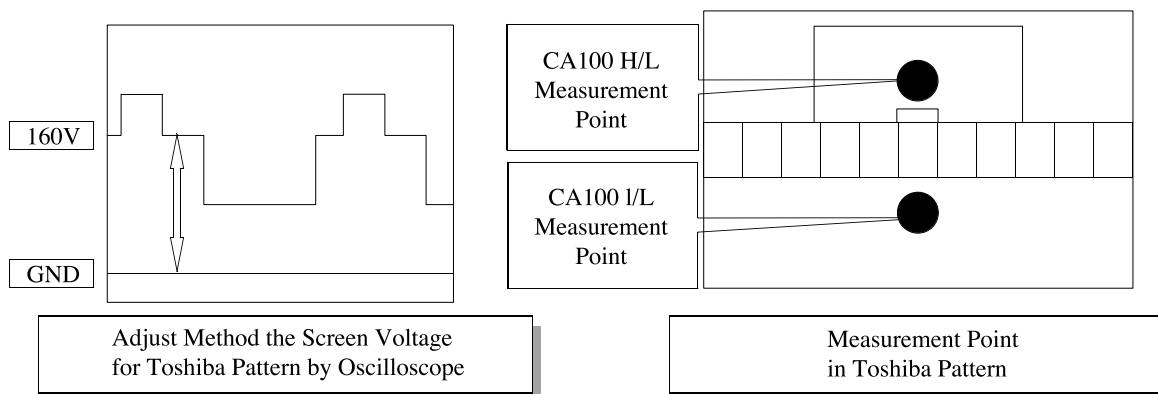
7. Check for the FOCUS of entire screen. If necessary, re-do adjustments 3~6.

1-1-3 Screen Voltage Adjustment

1. Input a Toshiba pattern.
2. Use an oscilloscope to identify RK, BK, GK. And then adjust FBT Screen VR so that the voltage of pedestal level doesn't exceed 160V.
 If a Toshiba pattern is not available, cancel the blue screen and input "No Signal" to AV IN so the voltage of pedestal level doesn't exceed 175V.
 If an oscilloscope is not available, use a DC multi-meter in No Signal (black screen) to adjust RK, BK, GK so that the highest voltage becomes 160Vp-p.

1-1-4 White Balance Adjustment

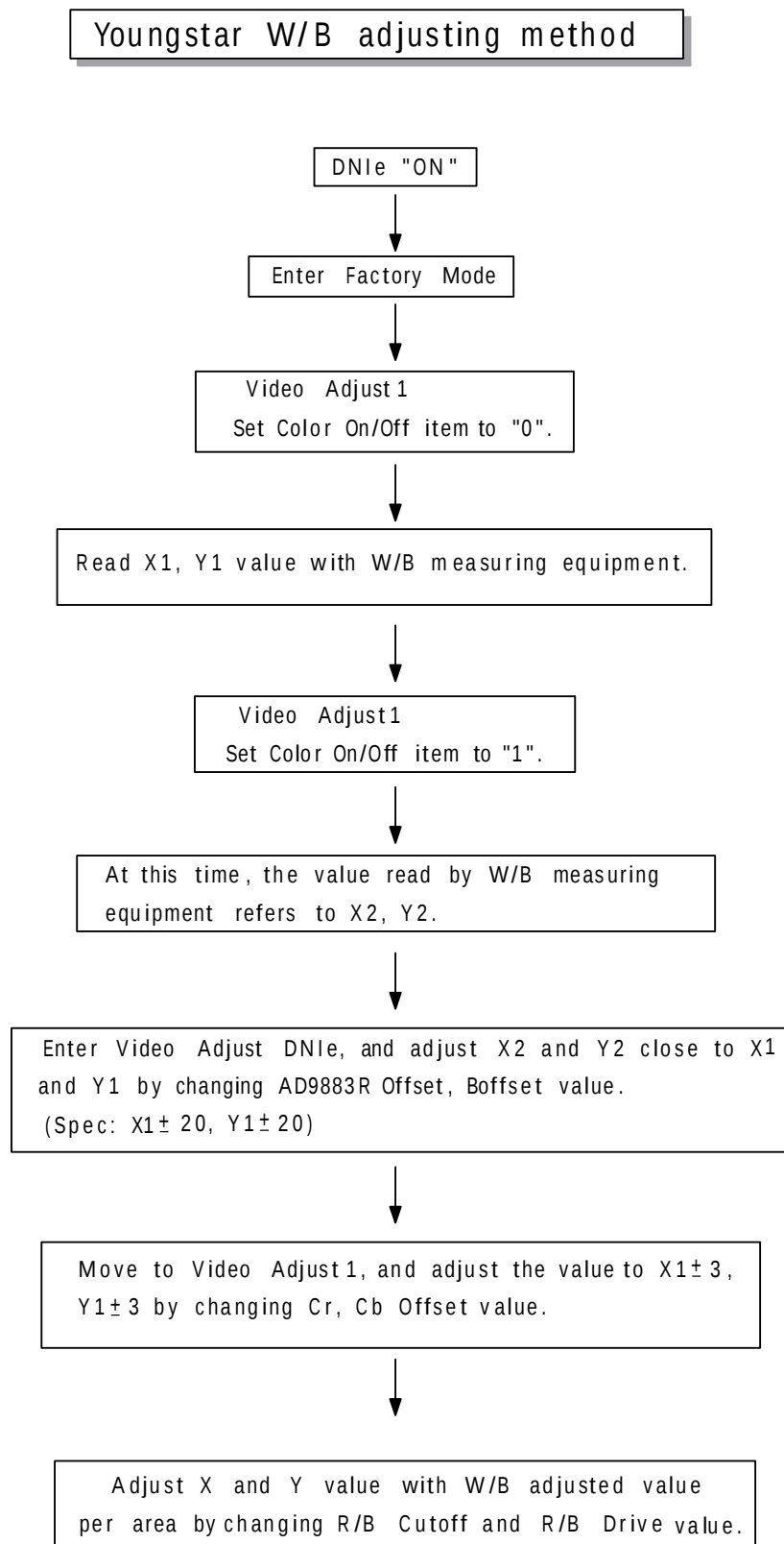
1. Warm up the TV set for at least 30 minutes.
2. Enter the Service Mode by pressing the remote control keys in the following sequence:
 Power Off → Display → Menu → Mute → Power On
3. Initialize all set data.
4. Input a Toshiba pattern.
5. Using a probe(CA100), do the White Balance adjustments.
 - (1) Adjust Low-Light.
 - Adjust Sub Brightness to set Y.
 - Adjust B Cutoff to set y.
 - Adjust R Cutoff to set x.
 - (2) Adjust High-Light.
 - Adjust Sub Contrast to set Y.
 - Adjust B Drive to set y.
 - Adjust R Drive to set x.
 - (3) Check the value of Low-Light. If necessary, readjust Low-Light.
 - (4) Check the value of High-Light. If necessary, readjust High-Light.15



1-1-5 When adjusting Screen Voltage and White Balance

1. Screen Voltage and White Balance are related each other. Make sure both adjustments are correct.
2. Adjust Screen Voltage before White Balance Adjustments. Make sure Screen Voltage is correct.
3. If White Balance has been readjusted, re-check Screen Voltage.
4. After adjustments are complete, check the following.
 - If spots appear on the screen after pressing the Power On / Off key, readjust Screen Voltage.
 - If flyback lines appear on the screen, readjust Screen Voltage.

1-1-6 White Balance Adjustment.



1-2 MICOM PORT

PIN	FUNCTION	FIRST STATE	ASSIGNMENT														
1	W-PORT	HIGH	RESET Control jack during E ² PROM latch UP(Function:Low)SERIAL H														
2	ROM SDA	SERIAL H	E ² PROM only SDA LINE														
3	ROM SCL	SERIAL H	E ² PROM only SDA LINE														
4	BUS-STOP	HIGH	Automation and after-sales service related BUS STOP(STOP : LOW)														
5	MAIN SDA	SERIAL H	CXA2165 /CXA2151Q/VSP940X/BA7654F/MSP34XX/TUNER Control jack														
6	MAIN SCL	SERIAL H	CXA2165 /CXA2151Q/VSP940X/BA7654F/MSP34XX/TUNER Control jack														
7	S-RESET	HIGH	Reset when MSP34XX IC(SOUND PROCESS IC)has an error(Active : LOW)														
8	V-RESET	HIGH	Reset when VSP940X IC(1-chip IC)has an error														
9	VDD 2.5V	HIGH															
10	GND		Analog GND														
11	VDD3.3V	HIGH															
12	CVBS IN	IV p-p	TTX and USA Caption Input source line(1V p-p)														
13	VDD2.5V	HIGH															
14	GND																
15	AFT		Main AFT Control jack(0 ~ 3.3V)														
16	SC1-ID		<table><tr><th></th><th>TV MODE</th><th colspan="2">AV MODE</th></tr><tr><td></td><td></td><th>16 : 9 MODE</th><th>4 : 3 MODE</th></tr><tr><td>17</td><td>SC2-ID</td><td>RANGE</td><td>0 ~ 2V</td><td>4.5 ~ 7V</td><td>9.5 ~ 12V</td></tr></table>		TV MODE	AV MODE				16 : 9 MODE	4 : 3 MODE	17	SC2-ID	RANGE	0 ~ 2V	4.5 ~ 7V	9.5 ~ 12V
	TV MODE	AV MODE															
		16 : 9 MODE	4 : 3 MODE														
17	SC2-ID	RANGE	0 ~ 2V	4.5 ~ 7V	9.5 ~ 12V												
18	KEY-1	HIGH	<table><tr><th>16 : 9 MODE</th><th>MEMU</th><th>VOL-</th><th>VOL+</th><th>CH-</th><th>CH+</th></tr><tr><td>0 ~ 2V</td><td>0~0.1V</td><td>0.1~0.7V</td><td>07~13V</td><td>1.3~1.9V</td><td>0.9~2.4V</td></tr></table>	16 : 9 MODE	MEMU	VOL-	VOL+	CH-	CH+	0 ~ 2V	0~0.1V	0.1~0.7V	07~13V	1.3~1.9V	0.9~2.4V		
16 : 9 MODE	MEMU	VOL-	VOL+	CH-	CH+												
0 ~ 2V	0~0.1V	0.1~0.7V	07~13V	1.3~1.9V	0.9~2.4V												
19	H-SYNC	POSITIVE	MICOM “H-SYNC” Input, POSITIVE Input(3.3V p-p)														
20	V-SYNC	POSITIVE	MICOM “V-SYNC” Input, POSITIVE Input(3.3V p-p)														
21	KEY-3	HIGH	OPEN														
22	KEY-2	HIGH	TV/VIDEO switching control jack														
23	X-RAY	HIGH	Function : LOW														
24	IR-IN		Remote Control Input Jack														
25	STD-LED	HIGH	STAND BY : Hight, OFF : LOW														
26	TIM-LED	LOW	TIME ON : H TIME OFF : L														
27	RELAY		DEGAUSSIGN COIL CONTROL:Based on standard specifications														
28	SW1	HIGH	H : IN1, L : IN2(BA7657F) PIN(#16) Control jack														
29	GND																
30	VDD 3.3V	HIGH															
33	RESET	LOW															
34	X-IN		Reset active : HIGH														
35	X-OUT		Crystal oscillation input jack														

PIN	FUNCTION	FIRST STATE	ASSIGNMENT									
36	GND											
37	VDD 2.5V	HIGH										
38	OSD-R	1.2V p-p	OSD R-OUT Output jack (0.38V p-p), half tone : 0.9V p-p									
39	OSD-G	1.2V p-p	OSD G-OUT Output jack (0.38V p-p), half tone : 0.9V p-p									
40	OSD-B	1.2V p-p	OSD B-OUT Output jack (0.38V p-p), half tone : 0.9V p-p									
41	CPRE	0.9V p-p	OSD F/B-OUT Output jack (Clamped at STAND PULSE, Half Tone : LOW)									
42	VDD 2.5V	HIGH										
43	GND											
44	VDD 3.3V	HIGH										
45	PX, Y	HIGH										
46	PX, Y	HIGH										
47	SW3	H	<table><tr><th>F1</th><th>F0</th><th>fH</th></tr><tr><td>L</td><td>M</td><td>1.75KHz (480i/480P)</td></tr><tr><td>M</td><td>L</td><td>33.75KHz (1080i)</td></tr></table>	F1	F0	fH	L	M	1.75KHz (480i/480P)	M	L	33.75KHz (1080i)
F1	F0	fH										
L	M	1.75KHz (480i/480P)										
M	L	33.75KHz (1080i)										
48	SW2	L	LOW : GNDHIGH : OPEN STATUS Initially, these pins select an input source at LOW state									
49	S-MUTE		System (NTSC/PAL) MUST be separated									
50	POWER		Active “LOW”									
51	H,P-ID		1080i control jack : 1080i (LOW), RF (Hight)									
52	TILT	HIGH	Magnetic field control									

1-3 Factory Adjustment

1-3-1 Factory Adjustment values

SERVICE
Deflection
VGE offset
Video Adjust1
Video Adjust2
Video Adjust3
VGE Adujust
Video Adujust DNle
Option
YC Delay
EEPROM
Reset

1-3-2 Factory Data



DEFLECTION : PAL

* CIS W/B Angular

*EUROPE W/B Angular

H/L:285/285 45(+,-5)FT

L/L:285/285 1.5(+,- 0.3FT)

H/L:290/290 35FT

L/L:290/290 1.5FT

ITEMS	CIS			EUROPE		REMARK
	29"	32"	34"	29"	32"	
V-AMP	27	30	40	25	34	Vertical AMP adj(Gain Control)
V-SHIFT	22	23	23	24	21	Vertical Position adj (DC bias adj)
H-EW	20	16	40	43	24	Horizontal AMP adj(Gain Control)
H-SHIFT	15	12	25	13	7	Horizontal Position adj (DC bias adj)
V-LIN	9	9	9	7	9	Vertical Linearity adj(TOP/Bottom adj)
UP-LIN(Fix)	9	9	9	9	9	Vertical Linearity adj(TOP adj)
LOW-LIN(Fix)	4	3	2	4	3	Vertical Linearity adj(Bottom adj)
V-SC(Fix)	3	1	3	5	1	Vertical S correction adj
H-PAR	45	23	37	49	33	Horizontal pin distortion adj
UP-COR	35	35	34	36	30	Horizontal pin distortion up adj
LOW-COR	36	34	37	36	34	Horizontal pin distortion low adj
H-TRA	40	40	25	31	25	Horizontal Trapezium distortion adj
BOW	32	32	32	29	33	Vertical line slope adj(parabola)
ANGLE	30	30	32	27	30	Vertical Linearity adj(sawtooth)
V-POS(Fix)	40	40	40	40	40	V-POSITION ADJ as to CRT INCH

 DEFLECTION : PAL

ITEMS	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
	29"SDI	32"LG	29	29"SDI	32"LG	34"TSB	
V-AMP	25	21	35	33	23	28	Vertical AMP adj(Gain Control)
V-SHIFT	23	23	22	24	25	21	Vertical Position adj (DC bias adj)
H-EW	26	27	46	21	37	44	Horizontal AMP adj(Gain Control)
H-SHIFT	5	11	18	13	8	16	Horizontal Position adj (DC bias adj)
V-LIN	9	9	9	7	9	9	Vertical Linearity adj(TOP/Bottom adj)
UP-LIN(Fix)	9	9	9	9	9	9	Vertical Linearity adj(TOP adj)
LOW-LIN(Fix)	2	3	4	4	3	3	Vertical Linearity adj(Bottom adj)
V-SC(Fix)	4	1	1	1	1	3	Vertical S correction adj
H-PAR	26	22	37	25	23	28	Horizontal pin distortion adj
UP-COR	22	33	17	27	35	30	Horizontal pin distortion up adj
LOW-COR	29	38	25	25	36	38	Horizontal pin distortion low adj
H-TRA	50	31	55	50	38	18	Horizontal Trapezium distortion adj
BOW	32	30	32	32	30	33	Vertical line slope adj(parabola)
ANGLE	33	30	31	30	31	28	Vertical Linearity adj(sawtooth)
V-POSI(Fix)	40	40	40	40	40	40	V-POSITION ADJ as to CRT INCH
CXA2151SUB01	E8	E8	E8	E8	E8	E8	
CXA2151SUB02	61	61	61	61	61	61	

 DEFLECTION : NTSC

CIS W/B Angular

H/L:285/285 50(+,-5)FT

L/L:285/285 2.5(+,- 0.3FT)

ITEMS	CIS			EUROPE		REMARK
	29"	32"	34"	29"	32"	
V-AMP	-2	3	2	4	2	Vertical AMP adj(Gain Control)
V-SHIFT	-3	-2	-1	-2	-3	Vertical Position adj (DC bias adj)
H-EW	-2	-2	-3	2	0	Horizontal AMP adj(Gain Control)
H-SHIFT	10	11	11	10	15	Horizontal Position adj (DC bias adj)
V-LIN	-4	-4	-4	-4	-4	Vertical Linearity adj(TOP/Bottom adj)
UP-LIN(Fix)	-1	-1	1	-1	-1	Vertical Linearity adj(TOP adj)
LOW-LIN(Fix)	3	3	3	3	3	Vertical Linearity adj(Bottom adj)
V-SC(Fix)	0	0	0	0	0	Vertical S correction adj
H-PAR	12	1	-1	8	4	Horizontal pin distortion adj
UP-COR	8	5	-1	7	8	Horizontal pin distortion up adj
LOW-COR	3	-2	-3	3	1	Horizontal pin distortion low adj
H-TRA	7	5	4	7	10	Horizontal Trapezium distortion adj
BOW	-1	-1	1	-1	-1	Vertical line slope adj(parabola)
ANGLE	-1	0	0	-1	1	Vertical Linearity adj(sawtooth)
V-POSI(Fix)	0	0	0	0	0	V-POSITION ADJ as to CRT INCH

DEFLECTION : NTSC

ITEMS	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
	29"	32"	29	29"	32"	34"	
V-AMP	0	-6	0	1	1	3	Vertical AMP adj(Gain Control)
V-SHIFT	-2	-3	-2	-2	4	-2	Vertical Position adj (DC bias adj)
H-EW	-2	1	-2	-1	-1	0	Horizontal AMP adj(Gain Control)
H-SHIFT	8	9	8	7	11	10	Horizontal Position adj (DC bias adj)
V-LIN	-4	-4	-4	-4	-4	-4	Vertical Linearity adj(TOP/Bottom adj)
UP-LIN(Fix)	-1	-1	-1	-1	-1	-1	Vertical Linearity adj(TOP adj)
LOW-LIN(Fix)	2	3	2	2	3	3	Vertical Linearity adj(Bottom adj)
V-SC(Fix)	0	0	0	0	0	0	Vertical S correction adj
H-PAR	3	5	-8	0	-2	8	Horizontal pin distortion adj
UP-COR	6	10	1	-10	1	7	Horizontal pin distortion up adj
LOW-COR	-1	-2	5	-6	-4	3	Horizontal pin distortion low adj
H-TRA	3	16	27	4	-1	7	Horizontal Trapezium distortion adj
BOW	0	0	0	1	2	-1	Vertical line slope adj(parabola)
ANGLE	0	0	0	0	2	-1	Vertical Linearity adj(sawtooth)
V-POS(Fix)	0	0	0	0	2	0	V-POSITION ADJ as to CRT INCH
CXA2151SUB01	E8	E8	E8	E8	E8	E8	
CXA2151SUB02	61	61	61	61	61	61	

 DEFLECTION : 480P OFFSET

ITEMS	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
	29"	32"	29	29"	32"	34"	
V-AMP	-3	-11	0	-1	-3	-2	Vertical AMP adj(Gain Control)
V-SHIFT	1	0	-2	2	0	2	Vertical Position adj (DC bias adj)
H-EW	2	5	-2	3	2	2	Horizontal AMP adj(Gain Control)
H-SHIFT	8	10	8	8	9	-16	Horizontal Position adj (DC bias adj)
V-LIN	0	0	-4	-1	0	0	Vertical Linearity adj(TOP/Bottom adj)
UP-LIN(Fix)	-1	0	-1	0	0	0	Vertical Linearity adj(TOP adj)
LOW-LIN(Fix)	-3	0	2	0	0	0	Vertical Linearity adj(Bottom adj)
V-SC(Fix)	2	0	0	0	0	0	Vertical S correction adj
H-PAR	6	-1	-8	-2	0	-4	Horizontal pin distortion adj
UP-COR	4	1	1	0	1	0	Horizontal pin distortion up adj
LOW-COR	3	-1	5	0	0	-2	Horizontal pin distortion low adj
H-TRA	-1	10	27	5	6	8	Horizontal Trapezium distortion adj
BOW	2	1	0	1	1	-2	Vertical line slope adj(parabola)
ANGLE	2	0	0	0	-1	0	Vertical Linearity adj(sawtooth)
V-POSI(Fix)	0	0	0	0	0	0	V-POSITION ADJ as to CRT INCH
CXA2151SUB01	E8	E8	E8	E8	E8	E8	
CXA2151SUB02	61	61	61	61	61	61	

**DEFLECTION : 1080i OFFSET**

ITEMS	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
	29"	32"	29	29"	32"	34"	
V-AMP	-4	-16	-20	-11	-20	-11	Vertical AMP adj(Gain Control)
V-SHIFT	-1	-1	0	-2	-2	-1	Vertical Position adj (DC bias adj)
H-EW	-6	-6	14	13	15	10	Horizontal AMP adj(Gain Control)
H-SHIFT	-7	7	6	4	6	6	Horizontal Position adj (DC bias adj)
V-LIN	-1	0	0	1	0	0	Vertical Linearity adj(TOP/Bottom adj)
UP-LIN(Fix)	0	-1	0	0	-1	-1	Vertical Linearity adj(TOP adj)
LOW-LIN(Fix)	-1	-2	-1	-1	-2	-1	Vertical Linearity adj(Bottom adj)
V-SC(Fix)	0	-1	1	1	-1	-1	Vertical S correction adj
H-PAR	-4	2	-5	-5	1	-4	Horizontal pin distortion adj
UP-COR	0	7	-7	-18	0	-4	Horizontal pin distortion up adj
LOW-COR	3	-3	-3	-5	-1	-8	Horizontal pin distortion low adj
H-TRA	-10	16	-7	1	0	14	Horizontal Trapezium distortion adj
BOW	0	0	0	0	0	-2	Vertical line slope adj(parabola)
ANGLE	1	0	1	0	0	0	Vertical Linearity adj(sawtooth)
V-POS(Fix)	0	0	0	0	0	0	V-POSITION ADJ as to CRT INCH
CXA2151SUB01	C0	C0	C4	C4	C4	C4	
CXA2151SUB02	61	61	61	61	61	61	

**DEFLECTION : VGA OFFSET**

ITEMS	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
	29"	32"	29	29"	32"	34"	
V-AMP	24	24	24	24	24	24	Vertical AMP adj(Gain Control)
V-SHIFT	22	22	22	22	22	22	Vertical Position adj (DC bias adj)
H-EW	30	30	30	30	30	30	Horizontal AMP adj(Gain Control)
H-SHIFT	25	25	25	25	25	25	Horizontal Position adj (DC bias adj)
V-LIN	7	7	7	7	7	7	Vertical Linearity adj(TOP/Bottom adj)
UP-LIN(Fix)	9	9	9	9	9	9	Vertical Linearity adj(TOP adj)
LOW-LIN(Fix)	4	4	4	4	4	4	Vertical Linearity adj(Bottom adj)
V-SC(Fix)	3	3	3	3	3	3	Vertical S correction adj
H-PAR	38	38	38	38	38	38	Horizontal pin distortion adj
UP-COR	25	25	25	25	25	25	Horizontal pin distortion up adj
LOW-COR	29	29	29	29	29	29	Horizontal pin distortion low adj
H-TRA	53	53	53	53	53	53	Horizontal Trapezium distortion adj
BOW	32	32	32	32	32	32	Vertical line slope adj(parabola)
ANGLE	32	32	32	32	32	32	Vertical Linearity adj(sawtooth)
V-POSI(Fix)	40	40	40	40	40	40	V-POSITION ADJ as to CRT INCH
CXA2151SUB01	68	68	68	68	68	68	
CXA2151SUB02	61	61	61	61	61	61	



Video Adjust 1

ITEMS	CIS			EUROPE		REMARK
	29"	32"	34"	29"	32"	
R-Cutoff	39	31	32	41	37	R-cutoff control adj
G-Cutoff	30	32	34	32	32	G-cutoff control adj
B-Cutoff	33	35	32	28	43	B-cutoff control adj
Color on/off	1	1	1	1	1	Initial Value : "0"--> 1
CR offset	32	32	37	32	30	DC-offset canceling
CB offset	32	32	32	32	30	DC-offset canceling
R-Drive	30	32	41	37	35	R-Drive control adj
G-Drive	30	25	32	32	25	G-Drive control adj
B-Drive	34	30	33	32	30	B-Drive control adj
Sub-Bright	31	26	36	32	33	Sub-Bright control
Sub-Contrast	7	7	6	7	10	Sub-Contrast control
Sub-Color	15	15	15	12	12	color gain control(PAL SETTING AGAIN)
Sub-Tint	28	28	28	28	28	HUE control
CTI-Level	1	1	1	1	1	Chrominance Transient Improvement
COL AXIS	1	1	1	1	1	color detection axis setting(NTSC/USA)
LTI-Level	1	1	1	1	1	Luminance Transient Improvement
VSU	2	2	3	2	2	vertical osd position
Merody Volume	7	7	7	7	7	Volume gain control

Video Adjust 1

ITEMS	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
	29"SDI	32"LG	29"SDI	29"SDI	32"LG	34"TSB	
R-Cutoff	31	31	41	41	31	34	R-cutoff control adj
G-Cutoff	25	25	32	32	32	25	G-cutoff control adj
B-Cutoff	41	43	28	28	43	35	B-cutoff control adj
Color on/off	1	1	1	1	1	1	Initial Value : "0"--> 1
CR offset	35	32	32	32	32	32	DC-offset canceling
CB offset	34	32	32	32	32	32	DC-offset canceling
R-Drive	35	37	37	37	37	43	R-Drive control adj
G-Drive	32	32	32	32	32	32	G-Drive control adj
B-Drive	37	43	32	32	43	36	B-Drive control adj
Sub-Bright	29	33	32	32	33	34	Sub-Bright control
Sub-Contrast	7	7	7	7	7	7	Sub-Contrast control
Sub-Color	15	15	15	15	15	15	color gain control(PAL SETTING AGAIN)
Sub-Tint	28	28	28	28	28	28	HUE control
CTI-Level	1	1	1	1	1	1	Chrominance Transient Improvement
COL AXIS	1	1	1	1	1	1	color detection axis setting(NTSC/USA)
LTI-Level	1	1	1	1	1	1	Luminance Transient Improvement
VSU	3	3	3	3	3	3	vertical osd position
Merody Volume	7	7	7	7	7	7	Volume gain control

Video Adjust 2

ITEMS	CIS			EUROPE		REMARK
	29"	32"	34"	29"	32"	
ABL Mode	3	3	3	3	3	picture/bright ABL gain control(PAL SETTING AGAIN)
Gamma	2	2	2	2	2	RGB output correction control(PAL SETTING AGAIN)
DPIC Level	2	2	2	3	3	Dynamic picture black expansion control (PAL SETTING AGAIN)
DC Trans	2	2	2	3	3	Y-System DC transmission ratio(PAL SETTING AGAIN)
ABL-TH	14	15	14	14	14	Threshold voltage adj ABL-IN(PAL SETTING AGAIN)
VM-Level	1	1	1	1	1	VM-OUT Level control
VM-Coring	2	2	2	2	2	VM-OUT coring control
VM-f0	2	2	2	2	2	VM-f0 control
VM-Limit	2	2	2	2	2	VM-Limit level control
VM-Delay	3	3	3	3	3	VM-OUT phase control(reference to R-OUT)
SHP CD	1	1	1	1	1	Sharpness gain control(color satuation)
SHP f0	0	0	0	0	0	Sharpness f0 control (3Mhz)
SHP f1&p/o	8	8	8	8	8	Sharpness gain control(PAL SETTING AGAIN)
AKB Time	13	13	13	13	13	AKB Bch reference pulse time control (PAL SETTING AGAIN)
Bandpass 9407	16	16	16	20h	20h	VSP9407 Band/High pass filter(Peaking)
Highpass 9407	23	23	23	23h	23h	VSP9407 High pass filter

Video Adjust 3

ITEMS	CIS			EUROPE		REMARK
	29"	32"	34"	29"	32"	
H comp	7	8	4	7	7	H-EHT compensation setting(PAL SETTING AGAIN)
V comp	4	5	4	4	4	V-EHT compensation setting(PAL SETTING AGAIN)
PIN comp	2	2	7	2	2	PIN-EHT compensation setting (PAL SETTING AGAIN)
AFC comp	0	0	0	0	0	AFC-EHT compensation
Sync phase	0	0	0	0	0	WHEN USED 74HC123
NR Off Value	6	6	6	6	6	Not used
Sync phase(VGA)	0	0	0	0	0	Sync phase control of VGE mode

Video Adjust 2

ITEMS	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
	29"SDI	32"LG	29"SDI	29"SDI	32"LG	35"TSB	
ABL Mode	3	3	3	3	3	3	picture/bright ABL gain control(PAL SETTING AGAIN)
Gamma	2	2	2	2	2	2	RGB output correction control(PAL SETTING AGAIN)
DPIC Level	3	3	3	3	3	3	Dynamic picture black expansion control (PAL SETTING AGAIN)
DC Trans	2	2	2	2	2	2	Y-System DC transmission ratio(PAL SETTING AGAIN)
ABL-TH	14	15	14	14	15	14	Threshold voltage adj ABL-IN(PAL SETTING AGAIN)
VM-Level	1	1	1	1	1	1	VM-OUT Level control
VM-Coring	2	2	2	2	2	2	VM-OUT coring control
VM-f0	2	2	2	2	2	2	VM-f0 control
VM-Limit	2	2	2	2	2	2	VM-Limit level control
VM-Delay	3	3	3	3	3	3	VM-OUT phase control(reference to R-OUT)
SHP CD	1	1	1	1	1	1	Sharpness gain control(color satuation)
SHP f0	0	0	0	0	0	0	Sharpness f0 control (3Mhz)
SHP f1&p/o	8	8	8	8	8	8	Sharpness gain control(PAL SETTING AGAIN)
AKB Time	13	13	13	13	13	13	AKB Bch reference pulse time control (PAL SETTING AGAIN)
Bandpass 9407	16	16	16	16	16	16	VSP9407 Band/High pass filter(Peaking)
Highpass 9407	42	42	42	42	42	42	VSP9407 High pass filter

Video Adjust 3

ITEMS	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
	29"SDI	32"LG	29"SDI	29"SDI	32"LG	35"TSB	
H comp	4	4	4	4	4	4	H-EHT compensation setting(PAL SETTING AGAIN)
V comp	2	2	2	2	2	4	V-EHT compensation setting(PAL SETTING AGAIN)
PIN comp	2	2	2	2	2	7	PIN-EHT compensation setting (PAL SETTING AGAIN)
AFC comp	0	0	0	0	0	0	AFC-EHT compensation
Sync phase	0	0	0	0	0	0	WHEN USED 74HC123
NR Off Value	6	6	6	6	6	6	Not used
Sync phase(480)	0	0	0	0	0	0	Sync phase control of VGE mode
Sync phase(1080)	0	0	0	0	0	0	
Sync phase(VGA)	1	1	1	1	1	1	

VGA Adjust

ITEMS	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
	29"SDI	32"LG	29"SDI	29"SDI	32"LG	35"TSB	
Sub-Bright	20	20	20	20	20	20	
Sub-Contrast	7	7	7	7	7	7	
Sub-Color	15	15	15	15	15	15	
Sub-Tint	28	28	28	28	28	28	
COL AXIS	1	1	1	1	1	1	
LTI-Level	1	1	1	1	1	1	
VM-Level	1	1	1	1	1	1	
VM-Coring	2	2	2	2	2	2	
VM-f0	2	2	2	2	2	2	
VM-Limit	2	2	2	2	2	2	
VM-Delay	3	3	3	3	3	3	
SHP CD	1	1	1	1	1	1	
SHP f0	1	1	1	1	1	1	
SHP f1&p/o	8	8	8	8	8	8	

DTV Adjust (480)

ITEMS	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
	29"SDI	32"LG	29"SDI	29"SDI	32"LG	35"TSB	
Sub-Bright	19	19	19	19	19	19	
Sub-Contrast	7	7	7	7	7	7	
Sub-Color	15	15	15	15	15	15	
Sub-Tint	28	28	28	28	28	28	
COL AXIS	1	1	1	1	1	1	
LTI-Level	1	2	1	1	2	2	
VM-Level	1	1	1	1	1	1	
VM-Coring	2	2	2	2	2	2	
VM-f0	2	2	2	2	2	2	
VM-Limit	2	2	2	2	2	2	
VM-Delay	3	3	3	3	3	3	
SHP CD	1	1	1	1	1	1	
SHP f0	1	0	1	1	0	0	
SHP f1&p/o	8	8	8	8	8	8	

DTV Adjust (1080)

ITEMS	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
	29"SDI	32"LG	29"SDI	29"SDI	32"LG	35"TSB	
Sub-Bright	38	38	38	38	38	38	
Sub-Contrast	7	7	7	7	7	7	
Sub-Color	15	15	15	15	15	15	
Sub-Tint	28	28	28	28	28	28	
COL AXIS	1	1	1	1	1	1	
LTI-Level	1	2	1	1	2	2	
VM-Level	1	1	1	1	1	1	
VM-Coring	2	2	2	2	2	2	
VM-f0	2	2	2	2	2	2	
VM-Limit	2	2	2	2	2	2	
VM-Delay	3	3	3	3	3	3	
SHP CD	1	1	1	1	1	1	
SHP f0	1	1	1	1	1	1	
SHP f1&p/o	8	8	8	8	8	8	

VIDEO ADJUST DNIe

ITEMS	CIS						REMARK
	29"	32"	34"				
AD9883 R Gain	185	185	185				H-EHT compensation setting(PAL SETTING AGAIN)
AD9883 G Gain	185	185	185				V-EHT compensation setting(PAL SETTING AGAIN)
AD9883 B Gain	185	185	185				PIN-EHT compensation setting
AD9883 R Offset	60	60	60				AFC-EHT compensation
AD9883 G Offset	64	64	64				WHEN USED 74HC123
AD9883 B Offset	60	60	60				Not used
DNIe On/Off/Demo	On/Off	Demo	On/Off	Demo	On/Off	Demo	
SNI OVG H	20	20	20	20	20	20	SNI Horizontal overgain control
SNI OVG V	8	10	8	10	8	10	SNI Vertical overgain control
SNI HPF	30	30	30	30	30	30	SNI High pass filtering
SNI COR	3	3	3	3	3	3	SNI Corring control
SNI CLIP	30	30	30	30	30	30	SNI Clipping control
SNI LPF/DIF	9	9	9	9	9	9	SNI LPF/DIF control

ITEMS	EUROPE				REMARK
	29"	32"			
AD9883 R Gain	185	185			H-EHT compensation setting(PAL SETTING AGAIN)
AD9883 G Gain	185	185			V-EHT compensation setting(PAL SETTING AGAIN)
AD9883 B Gain	185	185			PIN-EHT compensation setting
AD9883 R Offset	60	60			AFC-EHT compensation
AD9883 G Offset	64	64			WHEN USED 74HC123
AD9883 B Offset	60	60			Not used
DNIe On/Off/Demo	On/Off	Demo	On/Off	Demo	
SNI OVG H	20	20	20	20	SNI Horizontal overgain control
SNI OVG V	5	8	5	8	SNI Vertical overgain control
SNI HPF	25	30	25	30	SNI High pass filtering
SNI COR	3	3	3	3	SNI Corring control
SNI CLIP	30	30	30	30	SNI Clipping control
SNI LPF/DIF	9	9	9	9	SNI LPF/DIF control

DNIe On/Off/Demo How to set up :
Please set up the DNIe:On/Off on the OSD screen and than change.

VIDEO ADJUST DNIe

ITEMS	Australia			S.Asia			REMARK		
	29"SDI		32"LG	29"SDI					
AD9883 R Gain	185		185	185			H-EHT compensation setting(PAL SETTING AGAIN)		
AD9883 G Gain	185		185	185			V-EHT compensation setting(PAL SETTING AGAIN)		
AD9883 B Gain	185		185	185			PIN-EHT compensation setting		
AD9883 R Offset	60		60	60			AFC-EHT compensation		
AD9883 G Offset	64		64	64			WHEN USED 74HC123		
AD9883 B Offset	60		60	60			Not used		
DNIe On/Off/Demo	On/Off	Demo	DTV	Demo	On/Off	DTV	Demo	On/Off	DTV
SNI OVG H	20	20	20	20	20	20	20	20	20
SNI OVG V	8	10	10	10	8	10	10	8	10
SNI HPF	30	30	20	30	30	20	30	30	20
SNI COR	3	3	3	3	3	3	3	3	3
SNI CLIP	30	30	15	30	30	15	30	30	15
SNI LPF/DIF	9	9	1	9	9	1	9	9	1

ITEMS	Southeast Asia/Hongkong									REMARK
	29"SDI		32"LG		34"TSB					
AD9883 R Gain	185		185		185					H-EHT compensation setting(PAL SETTING AGAIN)
AD9883 G Gain	185		185		185					V-EHT compensation setting(PAL SETTING AGAIN)
AD9883 B Gain	185		185		185					PIN-EHT compensation setting
AD9883 R Offset	60		60		60					AFC-EHT compensation
AD9883 G Offset	64		64		64					WHEN USED 74HC123
AD9883 B Offset	60		60		60					Not used
DNIe On/Off/Demo	On/Off	Demo	DTV	Demo	On/Off	DTV	Demo	On/Off	DTV	
SNI OVG H	20	20	20	20	20	20	20	20	20	SNI Horizontal overgain control
SNI OVG V	8	10	10	10	8	10	10	8	10	SNI Vertical overgain control
SNI HPF	30	30	20	30	30	20	30	30	20	SNI High pass filtering
SNI COR	3	3	3	3	3	3	3	3	3	SNI Corring control
SNI CLIP	30	30	15	30	30	15	30	30	15	SNI Clipping control
SNI LPF/DIF	9	9	1	9	9	1	9	9	1	SNI LPF/DIF control



Option Byte(CIS Model)

ITEMS	CIS				EUROPE		REMARK
	29"	32"Z7	32"A10	34"TSB	29"	32"	
Language	CIS				-		CIS/ARAB
SOUND	V-DOLBY				V-DOLBY		V-DOLBY/A2-NICAM
CRT	4:3	Wide	Wide	4:3	4:3	Wide	4:3,WIDE
AV JACK	SCART				SCART+S		SCART(CIS,EUROPE)
AUTO FM	ON				ON		ON/OFF
PIP	2-Tuner				OFF/ON	ON	CS29A6HM/WS32Z6HM/CS34Z6HM MODEL: OFF
TXT LANGUAGE	Russian				OSD Language		RUSSIAN/GREEK-TURKEY/ARABIC/FARSI/ ARAB-HEBREW/WEST EUROPE/EAST EUROPE
LNA	ON				ON		ON/OFF(1 TUNER)
High Deviate	OFF						OFF/ON(INDIA)
AV BY CH KEY	OFF				OFF		OFF/ON
VGA	OFF						OFF/ON
AGC	OFF				OFF		OFF/ON
WOOFER	ON/OFF	ON	OFF	ON/OFF	OFF		Z7 MODEL : "ON", A10/Z6 MODEL : "OFF"
DNle Demo	ON				ON		
*DNle Funtion	Young star/Hercules						
6th Remocon	OFF/ON						
Speaker					Non Dome spk		
TTX TOP					OFF		
Help					OFF		
DNle DEMO					ON		

* is different according to the model.

 Option Byte(AUSTRALIA & S.ASIA)

ITEMS	Australia		S.Asia			S.Asia/ Hongkong	REMARK
	29"	32"	29"A10	29"	32"	34"29"	
SOUND	V-DOLBY		V-DOLBY			V-DOLBY	
CRT	4:3	Wide	4:3	4:3	Wide	4:3	
AV JACK	RCA		RCA			RCA	
AUTO FM	ON		ON			ON	
PIP	2-Tuner		2-Tuner			2-Tuner	
TXT LANGUAGE	West Europe		West Europe			West Europe	
LNA	ON		ON			ON	
High Deviate	OFF		OFF			OFF	
TTX ON/OFF	ON		ON			ON	
AV BY CH KEY	OFF		OFF			OFF	
DTV	ON		ON			ON	
VGA	OFF		ON	OFF	OFF	OFF	
AGC	OFF		OFF			OFF	
TTX List Fri	ON		ON			OFF	
WOOFER	ON		ON	OFF	ON	ON	
DNle Demo	ON		ON			ON	
DNle Function	Youngstar		Youngstar			Youngstar	
6th Remocon	ON		ON			ON	



ITEMS	CIS			EUROPE		REMARK
	29"	32"	34"	29"	32"	
P.YC(AV) DELAY	1	1	1	2	2	
S.YC(AV) DELAY	-5	-5	-5	-5	-5	
N.YC(AV) DELAY	2	2	2	4	4	
P.BG.YC DELAY	0	0	0	4	4	
P.DK.YC DELAY	-2	-2	-2	2	2	
P.I.YC DELAY	-1	-1	-1	1	1	
P.M.YC DELAY	0	0	0	0	0	
P.L.YC DELAY	0	0	0	0	0	
S.BG.YC DELAY	-6	-6	-6	-2	-2	
S.DK.YC DELAY	-9	-9	-9	-7	-7	
S.I.YC DELAY	-9	-9	-9	-9	-9	
S.M.YC DELAY	0	0	0	0	0	
S.L.YC DELAY	0	0	0	-5	-5	
N.M.YC DELAY	0	0	0	0	0	



EUROPE & CIS EEPROM Data

ITEMS	Range	CIS			EUROPE		REMARK
		29"	32"	34"	29"	32"	
0	0~3	1	0	0	0	0	UP-UCG(up corner semi control)
1	0~3	1	0	0	0	0	LO-UCG(low corner semi control)
2	0~3	2	2	2	1	1	LTI Mode
3	0~3	1	1	1	2	2	System
4		6	5	13	6	5	50Hz Progressive Trapezium
5		7	7	11	7	7	50Hz Progressive Trapezium
6	0~100	80	80	80	70	80	Dynamic Contrast
7	0~100	50	50	50	50	50	Dynamic Brightness
8	0~100	60	60	45	50	50	Dynamic Sharpness
9	0~100	60	60	50	50	50	Dynamic Color
10	0~100	50	50	50	50	50	Dynamic ColorTone
11	0~100	50	70	60	50	50	Dynamic Tint
12	0~100	70	70	70	57	52	Standard Contrast
13	0~100	50	50	50	50	50	Standard Brightness
14	0~100	50	50	50	50	50	Standard Sharpness
15	0~100	50	50	50	45	45	Standard Color
16	0~100	50	50	50	50	50	Standard ColorTone
17	0~100	50	50	50	50	50	Standard Tint
18	0~100	40	40	40	43	38	Movie Contrast
19	0~100	50	50	50	50	50	Movie Brightness
20	0~100	40	40	40	50	50	Movie Sharpness
21	0~100	45	45	45	40	40	Movie Color
22	0~100	50	50	50	50	50	Movie ColorTone
23	0~100	50	50	50	50	50	Movie Tint
24	0~100	76	78	76	76	76	
25	0~100	186	187	184	186	186	
26	0~100	255	255	255	255	255	
27	0~100	255	255	255	255	255	
28	0~100	255	255	255	255	255	
29	0~100	255	255	255	255	255	
30	0~255	0	0	0	0	0	Brightness(RGB/DVD)
31	0~255	124	124	124	124	124	Cinrast(RGB/DVD)
32	0~255	125	125	125	125	125	U Saturation(RGB/DVD)

ITEMS	Range	CIS			EUROPE		REMARK
		29"	32"	34"	29"	32"	
33	0~255	248	248	248	248	248	V Saturation(RGB/DVD)
34	0~255	93	93	93	80	80	9407 Y Gain
35	0~255	83	83	83	71	71	9407 U Gain
36	0~255	8	8	8	8	8	Luminance Delay
37	0~255	82	82	82	70	70	9407 V Gain
38	0~255	255	255	255	255	255	Start Value of Lum LUT(Main)-NR_ON
39	0~255	102	102	102	102	102	Noise Reduction(Main)-NR_ON
40	0~255	255	255	255	255	255	Start Value of Lum LUT(PIP)-NR_ON
41	0~255	102	102	102	102	102	Noise Reduction(PIIP)-NR_ON
42	0~255	28	28	28	28	28	Vertical End of Clamping Pulse
43	0~255	28	28	28	28	28	SECAM Color Sensitivity(Main)
44	0~255	28	28	28	28	28	Vertical End of Clamping Pulse
45	0~255	28	28	28	28	28	SECAM Color Sensitivity(PIIP)
46	0~255	147	147	147	147	147	Left Blanking
47	0~255	153	153	153	153	153	Right Blanking
48	0~3	0	0	0	0	0	S-ABL
49	0~255	96	96	96	48	48	P-ABL
50	0~255	255	255	255	255	255	Start Value of Lum LUT(Main)-NR_OFF
51	0~255	255	255	255	255	255	Noise Reduction(Main)-NR_OFF
52	0~255	255	255	255	255	255	Start Value of Lum LUT(PIP)-NR_OFF
53	0~255	255	255	255	255	255	Noise Reduction(PIP)-NR_OFF
54	0~3	3	3	3	3	3	Picture Limit Level
55	0~15	10	7	7	5	7	OSD Bright adjustment(LRGB2_LEV)
56	0~15	5	0	0	3	5	TTX Bright adjustment(LRGB2_LEV)
57	0~255	195	195	195	0	0	Left Blanking(480p)
58	0~255	165	165	165	0	0	Right Blanking(480p)
59	0~255	167	167	167	0	0	Left Blanking(1080i)
60	0~255	125	125	125	0	0	Right Blanking(1080i)
61	0~3	1	1	1	0	0	System(480p)
62	0~3	1	1	1	0	0	System(1080i)
63	0~255	119	119	119	0	0	Crcb Gain(480p)
64	0~255	119	119	119	0	0	Crcb Gain(1080i)
65	0~3	1	1	1	0	0	LTI Mode(480p)

ITEMS	Range	CIS			EUROPE		REMARK
		29"	32"	34"	29"	32"	
66	0~3	1	1	1	0	0	LTI Mode(1080i)
67	0~255	36	37	35	37	38	TTX V Position
68	0~255	186	188	180	186	190	TTX H Position
69	0~255	2	4	3	2	4	16PIP UPPER CORNER OFF SET
70	0~255	1	0	3	1	0	16PIP UPPER CORNER OFF SET
71	0~255	0	0	0	0	0	4:3 Nomal Paraboia


AUSTRALIA & S.ASIA EEPROM Data

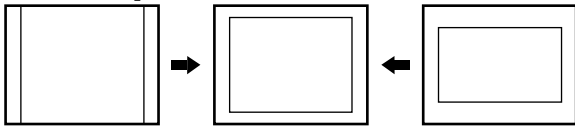
ITEMS	Range	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
		29"SDI	32"LG	29"SDI	29"SDI	32"LG	34"TSB	
0	0~3	0	0	0	0	0	0	UP-UCG(up corner semi control)
1	0~3	0	0	0	0	0	0	LO-UCG(low corner semi control)
2	0~3	2	2	2	2	2	2	LTI Mode
3	0~3	1	1	1	1	1	1	System
4		6	5	6	6	5	13	50Hz Progressive Trapezium
5		7	7	7	7	7	11	50Hz Progressive Trapezium
6	0~100	100	90	100	100	90	100	Dynamic Contrast
7	0~100	50	40	50	50	40	40	Dynamic Brightness
8	0~100	50	60	50	50	60	60	Dynamic Sharpness
9	0~100	60	60	60	60	60	60	Dynamic Color
10	0~100	50	50	50	50	50	50	Dynamic ColorTone
11	0~100	50	50	50	50	50	50	Dynamic Tint
12	0~100	70	50	70	70	50	60	Standard Contrast
13	0~100	50	40	50	50	40	42	Standard Brightness
14	0~100	50	50	50	50	50	50	Standard Sharpness
15	0~100	50	60	50	50	60	50	Standard Color
16	0~100	50	50	50	50	50	50	Standard ColorTone
17	0~100	50	50	50	50	50	50	Standard Tint
18	0~100	50	35	50	50	35	40	Movie Contrast
19	0~100	50	40	50	50	40	40	Movie Brightness
20	0~100	50	50	50	50	50	50	Movie Sharpness
21	0~100	45	55	45	45	55	45	Movie Color
22	0~100	50	50	50	50	50	50	Movie ColorTone
23	0~100	50	50	50	50	50	50	Movie Tint
24	0~100	76	78	76	76	78	76	
25	0~100	186	187	186	186	187	187	
26	0~100	32	32	32	32	32	32	
27	0~100	255	255	255	255	255	255	
28	0~100	32	32	32	32	32	32	
29	0~100	184	184	184	184	184	184	
30	0~255	0	0	0	0	0	0	Brightness(RGB/DVD)
31	0~255	124	124	124	124	124	124	Cinrast(RGB/DVD)
32	0~255	125	125	125	125	125	125	U Saturation(RGB/DVD)

ITEMS	Range	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
		29"SDI	32"LG	29"SDI	29"SDI	32"LG	34"TSB	
33	0~255	248	248	248	248	248	248	V Saturation(RGB/DVD)
34	0~255	93	93	93	80	80	80	9407 Y Gian
35	0~255	82	83	83	71	71	71	9407 U Gian
36	0~255	8	8	8	8	8	8	Luminance Delay
37	0~255	82	82	82	70	70	70	9407 V Gain
38	0~255	255	255	255	255	255	255	Start Value of Lum LUT(Main)-NR_ ON
39	0~255	102	102	102	102	102	102	Noise Reduction(Main)-NR_ ON
40	0~255	255	255	255	255	255	255	Start Value of Lum LUT(PIP)-NR_ ON
41	0~255	102	102	102	102	102	102	Noise Reduction(PIIP)-NR_ ON
42	0~255	28	28	28	28	28	28	Vertical End of Clamping Pulse
43	0~255	28	28	28	28	28	28	SECAM Color Sensitivity(Main)
44	0~255	28	28	28	28	28	28	Vertical End of Clamping Pulse
45	0~255	28	28	28	28	28	28	SECAM Color Sensitivity(PIIP)
46	0~255	147	147	147	147	179	147	Left Blanking
47	0~255	153	153	153	153	153	153	Right Blanking
48	0~3	0	0	0	0	0	0	S-ABL
49	0~255	96	96	96	48	48	48	P-ABL
50	0~255	255	255	255	255	255	255	Start Value of Lum LUT(Main)-NR_ OFF
51	0~255	255	255	255	255	255	255	Noise Reduction(Main)-NR_ OFF
52	0~255	255	255	255	255	255	255	Start Value of Lum LUT(PIP)-NR_ OFF
53	0~255	255	255	255	255	255	255	Noise Reduction(PIP)-NR_ OFF
54	0~3	3	3	3	3	3	3	Picture Limit Level
55	0~15	9	9	9	9	9	9	OSD Bright adjustment(LRGB2_LEV)
56	0~15	7	7	7	7	7	7	TTX Bright adjustment(LRGB2_LEV)
57	0~255	195	195	195	195	195	195	Left Blanking(480p)
58	0~255	165	165	165	165	165	165	Right Blanking(480p)
59	0~255	167	167	167	167	195	167	Left Blanking(1080i)
60	0~255	125	125	125	125	153	125	Right Blanking(1080i)
61	0~3	1	1	1	1	1	1	System(480p)
62	0~3	1	1	1	1	1	1	System(1080i)
63	0~255	119	119	119	119	119	119	Crcb Gain(480p)
64	0~255	119	119	119	119	119	119	Crcb Gain(1080i)
65	0~3	1	1	1	1	1	1	LTI Mode(480p)

ITEMS	Range	Australia		S.Asia	Southeast Asia/Hongkong			REMARK
		29"SDI	32"LG	29"SDI	29"SDI	32"LG	34"TSB	
66	0~3	1	1	1	1	1	1	LTI Mode(1080i)
67	0~255	35	35	35	35	35	35	TTX V Position
68	0~255	186	186	186	186	186	186	TTX H Position
69	0~255	4	4	4	4	4	3	16PIP UPPER CORNER OFF SET
70	0~255	1	0	1	1	0	3	16PIP UPPER CORNER OFF SET
71	0~255	0	0	0	0	0	0	4:3 Nomal Paraboia
72	0~255	235	235	235	235	235	235	TTX Sub Brightness
73	0~255	255	255	255	255	255	255	
74	0~255	3	3	3	3	3	3	VGA SYSTEM
75	0~255	3	3	3	3	3	3	VGA LTI MODE
76	0~255	157	157	157	157	157	157	VGA LEFT BLANK
77	0~255	101	101	101	101	101	101	VGA RIGHT BLANK
78	0~255	35	35	35	35	35	35	VGA Standard Contrast
79	0~255	30	30	30	30	30	30	VGA Standard Bright
80	0~255	50	50	50	50	50	50	VGA Standard Sharpness
81	0~255	50	50	50	50	50	50	VGA Standard Corlor
82	0~255	50	50	50	50	50	50	VGA Standard Colortone
83	0~255	81	81	81	81	81	81	PAL VSP9407 h'BA High Byte
84	0~255	73	73	73	73	73	73	PAL VSP9407 h'BA Low Byte
85	0~255	81	81	81	81	81	81	NTSC VSP9407 h'BA High Byte
86	0~255	74	74	74	74	74	74	NTSC VSP9407 h'BA Low Byte
87	0~255	1	1	1	1	1	1	Letter Box Operation (ON: "1", OFF: "0")
88	0~255	1	1	1	1	1	1	Sub Title Operation (ON: "1", OFF: "0")

1-5 Screen Change(I²C Bus Geometric Adjustment)

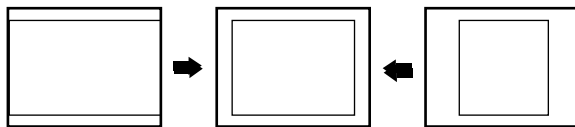
0 V - Amp



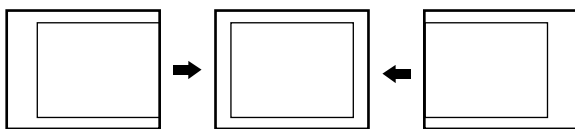
1 V-Shift



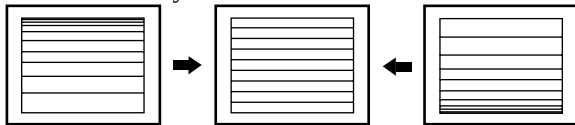
2 H-EW



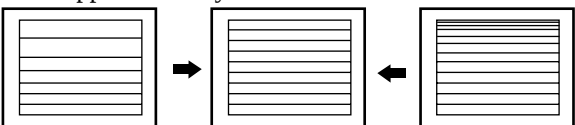
3 H-Shift



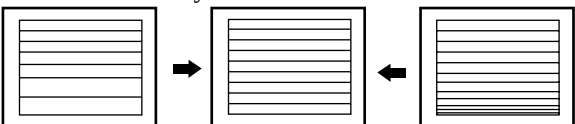
4 V-Linearity



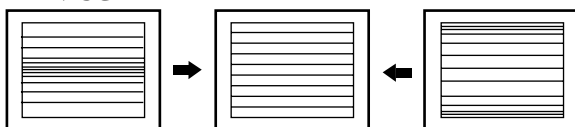
5 Upper Linearity



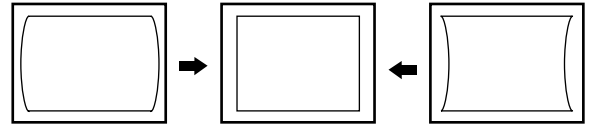
6 Low Linearity



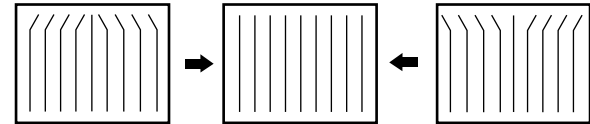
7 V SC



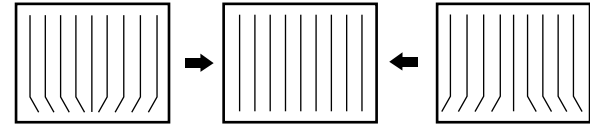
8 H-Parabola



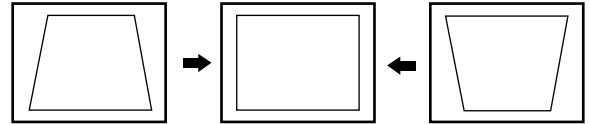
9 Upper Coner



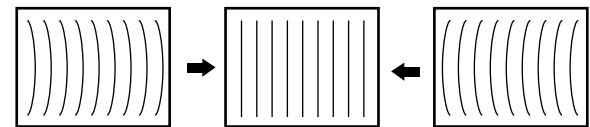
10 Low Coner



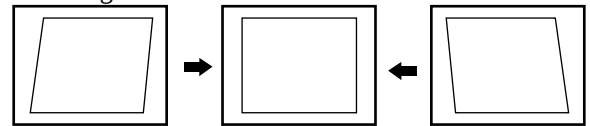
11 H- Trapezuim



12 Bow



13 Angle



14 V Position

