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### The system setting in the factory mode:

The way to enter factory mode: 1)one method:Press “ MUTE ” button and “DISPLAY” button by turns on RC three times. 2)another method: press“ SERVICE MODE ” key on RC to enter the factory mode directly. Then press “7”key to enter the “FAC ADJ” menu.

Adjustable items	Default setting	Remark
POWER ON MODE	LAST	Power on/standby switch
LOGO	ON/OFF	LOGO switch
VIDEO MUTE	FREEZE	Picture freeze setting when change channel
BACKGROUND	BLUE	Blue background switch when no signal
SUB BRI	0(5 for hd29v88)	Sub-brightness adjusting
BG	1	BG switch
DK	1	DK switch
I	1	I switch
M	0(UR、SG)、1 (HK)	M switch(choose 1 in Hong Kong machine)
DEFAULT	I(HK)、DK(UR)、BG(SG)	Default sound system
SCREEN	4:3	Choose tube
IF	38.9MHZ(UR、SG)38.0MHZ(HK)	intermediate frequency ( choose 38MHZ in Hong Kong machine )
TUNER	PHILPS(UR、SG)ALPS(HK)	Choose tuner(choose ALPS in Hong Kong machine)

Please choose “FAC” in the item” POWER ON MODE” before aging the machine, and choose “LAST” at the last working procedure.

### 5.Function setting:

Because different customers need the TV set contain different functions, so we must set the TV function.

Press “5” key to set.

Adjustable items	Default setting	Remark
P50P	√	PAL 50Hz progressive mode
P75P	√	PAL 75Hz progressive mode
P75I	√	PAL 75Hz interleaved mode

P100I	√	PAL100Hz interleaved mode
N120I	√	NTSC 120Hz interleaved mode
HDTV	√	YpbPr input
PC	√ ( X for hd29v88 )	VGA input
HDMI	-	HDMI input
GUIDE	-	Guide function switch
IDTV	-	IDTV input
ENGLISH	√	English OSD
CHINESE	-	Chinese OSD (choose this in Hong Kong machine)
RUSSIA	-	Russia OSD(choose this in Russia machine)
TURKIA	-	Turkish OSD

### 6.Geometry adjustment of PAL and NTSC in TV mode:

Input PAL signal and NTSC signal (PHILIPS test card) separately, and then adjust below items:

Enter the factory mode, and press “1” key on RC to enter the “V ADJ” menu.

VSLOP	Based on request	Vertical Liner Correction
VCENT	Based on request	Vertical center
VSIZE	Based on request	Vertical size
VSCOR	Based on request	Vertical S Correction
VZOOM	25	Nonadjustable ( Vertical zoom size )
VSCRO	30	Nonadjustable ( vertical picture position )
VWAIT	25	Nonadjustable ( vertical scan start )
D6	227	Nonadjustable ( horizontal frequency glancing adjustment)
D7	54	Nonadjustable ( horizontal frequency glancing adjustment )

Instruction: the adjustable items in TV mode: PAL: PAL 60P,PAL 75P,PAL 75Hz900L,PAL 100Hz;NTSC: NTSC 60P,NTSC 120I.

The default setting of D6,D7 in TV every scan mode:in the table (x) for hd29v88 model

	60P	75P	75I	100I	50P	NTSC60P	NTSC120I
D6	227(166)	227(166)	227(82)	227(83)	227(166)	227(161)	227(79)
D7	54	54	27	27	54	54	27

\*\*note: The standard that VSLOPE adjustment is make the test card level center line can't see at the right moment.

Enter the factory mode, and press “2” key on RC to enter the “H ADJ” menu.

HCENT	Based on request	Horizontal center
HSIZE	Based on request	Horizontal size
HPARA	Based on request	Parallelogram correction
HTRAP	Based on request	Trapezium correction
HPARA	Based on request	Parabola correction
HBOW	Based on request	Bow correction
HUPCN	Based on request	Horizontal Top Corner Correction
HLOWCN	Based on request	Horizontal Bottom Corner Correction
E-W EHT	40	nonadjustable (E-W EHT)
HTIMING	7	nonadjustable (Horizontal timing)
SCANMODE	***	Scan mode
AUTO OFFSET	***	Geometry auto offset

### 7. Geometry adjustment in PC, HDTV mode:

Input the PC test signal or HDTV test signal in the PC or HDTV mode, then enter the factory mode, press “2” or “1” key to adjust the H and V as above. The adjustable items in PC mode: 640×480/60Hz, 800×600/60Hz, 1024X768/60HZ.

The below table is the default value of D6 and D7 in the HDTV and PC mode: in the table (x) for hd29v88 model and without VGA mode

	HDTV										PC		
	1080I/60HZ		525P	1080I/50HZ		720P		625P	1080P/60HZ		640X 480 /60HZ	800X 600 /60HZ	1024 X768 /60HZ
	4:3	16:9	4:3	4:3	16:9	4:3	16:9	4:3	4:3	16:9			
D6	230 (172)	230 (172)	230 (163)	230 (172)	230 (172)	230 (172)	230 (172)	230 (169)	230 (167)	230 (167)	230	230	230
D7	54	54	54	54	54	54	54	54	54	54	54	54	54

### 8. Geometry adjustment of blue background and the OSD position:

These model does not need to adjust the Geometry adjustment of blue background and the OSD position.

### 9.TXT and brightness delay adjustment:

In the factory mode, press “6” key to enter this item:

Adjustable items	Default setting	Remark
TXT-ON	1	TXT(diagram text)switch

TXT-SPLIT	0	TXT display on two pages
TXT-H-POS	11	TXT Horizontal position
TXT-H-POSA	21	The position of "A" page when TXT display on two pages
TXT-H-POSB	3	The position of "B" page when TXT display on two pages
TXT-H-BOXB	73	The anti-white position when TXT display on two pages
YSECAM	15 (UR、SG) 15 (HK)	SECAM Y signal position adjustment
YNTSC	0 (UR、SG) 7 (HK)	NTSC Y signal position adjustment
YPAL	12 (UR、SG) 9 (HK)	PAL Y signal position adjustment
YAV1	12 (UR、SG) 15 (HK)	AV1 Y signal position adjustment
INIT TV	0	EEPROM reset, "1" is reset

#### 10. Adjustment of Color Temperature:

White Balance Coordinator: X=0.284,Y=0.297

Input the white field signal , in the factory mode, press "3" key to enter the "WHITE TONE" adjustment. Adjust the WPR, WPG, BLOR, BLOG four items when fix the WPB at 40.

The below mode adjust separately: TV(60P); 640X480/60HZ,800X600/60HZ,1024X768/60HZ in PC mode;1920X1080I/60Hz,1920X1080I/50Hz,1280X720P/60Hz,1920X1080P/60Hz,525P,625P in HDTV mode.

Please adjust White Balance at the standard picture and color temperature mode.

WPR	***	Based on request ( red gun gain )
WPG	***	Based on request ( green gun gain )
WPB	40	Based on request ( blue gun gain )
BLOR	***	Based on request ( red gun black )
BLOG	***	Based on request ( green gun black )
PWL	8	nonadjustable ( peak white limited )
AUTO OFFSET	***	White balance auto offset

#### 11.contrast, brightness, chroma, tone, sharpness curve adjustment:

This machine contrast, brightness, chroma, tone, sharpness have four kinds of modes saving, TV, HDTV, PC, YUV. The factory can't adjust. Press "4" key to enter the "CURVE ADJ" item in the factory mode. The default setting as below table:

TV	BRI	CON	SAT	TINT	SHARP	YUV	BRI	CON	SAT	TINT	SHARP
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0	9	9	3	0	0		9	9	0	0	0
30	16	23	17	16	22		16	23	13	16	22
50	24	29	26	32	32		24	29	23	32	32
80	35	36	35	48	34		35	40	30	48	34
100	40	50	45	58	38		40	50	35	58	38

HDTV	BRI	CON	SAT	TINT	SHARP	VGA	BRI	CON	SAT	TINT	SHARP
0	9	9	0	0	0		9	9	0	0	0
30	16	15	15	16	22		17	17	10	16	22
50	28	25	25	32	32		25	28	25	32	32
80	32	35	30	48	34		32	33	30	48	34
100	35	50	38	58	38		38	38	38	58	38

**12.the SVM adjustment:**

In the factory mode, press “8” key on RC to enter the “SVM ADJ” item.

SVM is only effective for TV/AV/YUV/S-video. The factory can't adjust this item.

	60P	75P	75I	100I	50P	N60P	N120I	
SVM PW	1	1	1	1	1	1	1	SVM switch
SVM	20	20	20	20	20	20	20	SVM intensity
SVM DL	7	7	7	7	7	7	7	SVM position

**13.UOC3 setting:**

U-BRI	32	UOC3 output signal brightness adjust
U-CON	50	UOC3 output signal contrast adjust
AGC SPEED	1	UOC3 AGC speed
AGC TAKEOVER	22(16)	UOC3 AGC takeover( ALPS TUNER)
COMBFILE	1	Comb filter switch

**14.soft version and factory switch:**

In the factory mode, press “ display” key on RC to enter the “DISPLAY MENU” item, as below table:

SW VERSION	***	Soft version
FACTORY	OFF	Factory mode switch, set “OFF” at the last working procedure
HOTEL SW	OFF	Hotel switch, nonadjustable

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AUTO OFFSET	OFF	Auto offset switch, auto offset is effective when it is "ON".
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### **15. Designer's menu:**

In the factory mode, press “-/-/---“ key on RC to enter “IIC CONTROL” item. The factory can't adjust this item.

### **16. An elucidation for adding items concerning factory menu:**

Two more items at the ninth page:

#### **DCXO**

#### **DCXO AUTO**

Adjust DCXO before PE making seed. Adjust DCXO method: choose a PAL B/ G channel with NICAM ,then choose DCXO AUTO at the factory menu ninth page, software will adjust the crystal frequency automatically.

*Note:This adjustment must be done for every set on the line.*

(1) PE adjust white balance and geometry each mode in advance, then enter the "Designer's menu", choose "INIT AUTOOFFSET" to save the offset. So seed has been completed.

(2) In the factory, just adjust the white balance and geometry in the TV60P mode, then set the "AUTO OFFSET" switch "ON" as the above 14 description, after that choose the "AUTO OFFSET" at the 2nd and 3rd page separately in the factory menu, so the offset will be saved to each mode.

### **17. Initial setting:**

Last working procedure need to set the initial setting, method is: Enter the factory menu, press the geometry reset key on RC to set the initial setting. After that, the machine will be standby.

### **18.Important notice:**

On the digital board, UD3(13-00M24C-32P) must be burned EDID before surface mount.