# 6 Service Mode

## 6.1. How to enter into Service Mode

### 6.1.1. Purpose

After exchange parts, check and adjust the contents of adjustment mode.

While pressing [VOLUME ( - )] button of the main unit, press [0] button of the remote control three times within 2 seconds. **Note:** 

Service Mode can not be entered when 3D signal input.

Input 2D signal to enter Service Mode.





### 6.1.2. Key command

[1] button...Main items Selection in forward direction

[2] button...Main items Selection in reverse direction

[3] button...Sub items Selection in forward direction

[4] button...Sub items Selection in reverse direction

[RED] button...All Sub items Selection in reverse direction

[GREEN] button...All Sub items Selection in forward direction

[VOL] button...Value of sub items change in forward direction (+), in reverse direction (-)

### 6.1.3. How to exit

Switch off the power with the [POWER] button on the main unit or the [POWER] button on the remote control.

### 6.1.4. Contents of adjustment mode

- Value is shown as a hexadecimal number.
- Preset value differs depending on models.
- After entering the adjustment mode, take note of the value in each item before starting adjustment.

Main item	Sub item	Sample Data	Remark	
ADJUST	CONTRAST	277		
	COLOR	36		
	TINT	00		
	SUB-BRT	800		
	H-POS	0		
	H-AMP	0		
	V-POS	0		
	V-AMP	0		
WB-ADJ	R-CUT	80		
	G-CUT	80		
	B-CUT	80		
	R-DRV	EE		
	G-DRV	FF		
	B-DRV	86		
	ALL-CUT	80	—	
	ALL-DRV	FF		
OPTION	Panel-Type	42FHD	Factory Preset	
	Boot	ROM		
	STBY-SET	00		
	EMERGENCY	ON		
	Y/C Delay			
	OPT 1	00010100		
	OPT 2	11101110		
	OPT 3	0000001		
	OPT 4	00010000		
	EDID-CLK	MID		
	MIRROR	00 (See Option-Mirror)		
	AMR-SFLECT	OFF		
VSUS		LOW	See Vsus selection	
AGING			Built-in test patterns can be	
	ALL BLUE WITH WHITE OUTSIDE FRAME		displayed.	
	ALL GREEN			
	ALL RED			
	LOW STEP WHITE			
	LOW STEP BLUE			
	LOW STEP GREEN			
	LOW STEP RED			
	WHITE DIAGONAL STRIPE			
	RED DIAGONAL STRIPE			
	GREEN DIAGONAL STRIPE			
	BLUE DIAGONAL STRIPE			
	A-ZONE & B-ZONE			
	1% WINDOW			
	COLOR BAR			
	9 POINTS BRIGHT MEASURE			
	2 DOT OUTSIDE FRAME			
	ALL BLUE			
	DOUBLE FIXED 1% WINDOW			
			-	
	ON/OFF OR WHITE			
	R/G/B/W ROTATION			
SRV-TOOL			See Service tool mode	
UNV-TOOL				

Destination	В	Y
Check sum	a7a1	a7b0

## 6.2. Option - Mirror

Picture can be reversed left and right or up and down.

- 00 : Default (Normal picture is displayed)
- 01 : Picture is reversed left and right.
- 02 : Picture is reversed up and down.



01





Hint : If the defective symptom (e.g. Vertical bar or Horizontal bar) is moved by selection of this mirror, the possible cause is in A-board.

### 6.3. Service tool mode

### 6.3.1. How to access

- 1. Select [SRV-TOOL] in Service Mode.
- 2. Press [OK] button on the remote control.



### 6.3.2. Display of SOS History

SOS History (Number of LED blinking) indication.

From left side; Last SOS, before Last, three occurrence before, 2nd occurrence after shipment, 1st occurrence after shipment. This indication will be cleared by [Self-check indication and forced to factory shipment setting].

### 6.3.3. POWER ON Time, On/Off

Note : To display TIME/COUNT menu, highlight position, then press MUTE for 3 sec.

Time : Cumulative power on time, indicated hour : minute by decimal

On/Off : Number of On/Off switching by decimal

Note : This indication will not be cleared by either of the self-checks or any other command.

### 6.3.4. Exit

1. Disconnect the AC cord from wall outlet or switch off the power with [ Power ] button on the main unit.

## 6.4. Hotel mode

- 1. Purpose
  - Restrict a function for hotels.
- Access command to the Hotel mode setup menu In order to display the Hotel mode setup menu: While pressing [VOLUME (-)] button of the main unit, press [AV] button of the remote control three times within 2 seconds.

Then, the Hotel mode setup menu is displayed.

Hotel Mode	
Hotel Mode	Off
Initial INPUT	Off
Initial POS	Off
Initial VOL Level	Off
Maximum VOL Level	100
Button Lock	Off
Remote Lock	Off
Private Information	Кеер
Select ChangeOEXIT	

3. To exit the Hotel mode setup menu Disconnect AC power cord from wall outlet.

4. Explain the Hotel mode setup menu

Itom	Function
Hotel Mode	Select hotel mode On/Off
	Select input signal modes.
	Set the input, when each time power is switched
	Solaction :
	Off(Applogue/D)/P/P)/D)/P C/V)/D)/P T/V)/A)/1/
	• Off: give priority to a last memory. However
	Euro model is compulsorily set to TV
	AVnS/AVnC: only Euro model selectable
Initial POS	Select programme number
	• Off: give priority to a last memory
	Adjust the volume when each time power is
	switched on
	Selection/Pange :
	Off/0 to 100
	Off: give priority to a last memory
Maximum VOI	
l evel	Range ·
2010.	0 to 100
Button Lock	Select local key conditions
Dutton Look	Selection :
	Off/SETUP/MENU/ALL
	Off: altogether valid
	SETUP: only F-key is invalid
	(Tuning guide (menu) can not be selected.)
	MENU: only F-key is invalid
	(only Volume/Mute can be selected.)
	ALL: altogether invalid.
Remote Lock	Select remote control key conditions.
	Selection :
	Off/SETUP/MENU
	<ul> <li>Off: altogether valid</li> </ul>
	<ul> <li>SETUP: only Setup menu is invalid</li> </ul>
	MENU: Picture/Sound/Setup menu are invalid
Private Information	Select private information for VIERA Cast is Keep
	or Reset if Hotel mode is set to [On] when TV
	power on.
	Selection :
	Keep/Reset
	Keep: private information for VIERA Cast is
	keep
	Reset: private information for VIERA Cast is
1	reset

## 6.5. Data Copy by SD Card

### 6.5.1. Purpose

#### (a) Board replacement (Copy the data when exchanging A-board):

When exchanging A-board, the data in original A-board can be copied to SD card and then copy to new A-board.



Following data can be copied. User setting data (incl. Hotel mode setting data) Channel scan data Adjustment and factory preset data

#### (b) Hotel (Copy the data when installing a number of units in hotel or any facility):

When installing a number of units in hotel or any facility, the data in master TV can be copied to SD card and then copy to other TVs.



Following data can be copied. User setting data (incl. Hotel mode setting data) Channel scan data

### 6.5.2. Preparation

Make pwd file as startup file for (a) or (b) in a empty SD card.

- 1. Insert a empty SD card to your PC.
- 2. Right-click a blank area in a SD card window, point to New, and then click text document. A new file is created by default (New Text Document.txt).
- 3. Right-click the new text document that you just created and select rename, and then change the name and extension of the file to the following file name for (a) or (b) and press ENTER.

#### File name:

- (a) For Board replacement : boardreplace.pwd
- (b) For Hotel : hotel.pwd

#### Note:

Please make only one file to prevent the operation error.

No any other file should not be in SD card.

### 6.5.3. Data copy from TV set to SD Card

- 1. Turn on the TV set.
- Insert SD card with a startup file (pwd file) to SD slot.
   On-screen Display will be appeared according to the startup file automatically.
- 3. Input a following password for (a) or (b) by using remote control.
  - (a) For Board replacement : 2770
    - (b) For Hotel : 4850

Data will be copied from TV set to SD card.

- It takes around 2 to 6 minutes maximum for copying.
- 4. After the completion of copying to SD card, remove SD card from TV set.
- 5. Turn off the TV set.

#### Note:

Following new folder will be created in SD card for data from TV set.

- (a) For Board replacement : user\_setup
- (b) For Hotel : hotel



### 6.5.4. Data copy from SD Card to TV set

- 1. Turn on the TV set.
- Insert SD card with Data to SD slot.
   On-screen Display will be appeared according to the Data folder automatically.
- 3. Input a following password for (a) or (b) by using remote control.
  - (a) For Board replacement : 2771
  - (b) For Hotel : 4851
  - Data will be copied from SD card to TV set.
- 4. After the completion of copying to SD card, remove SD card from TV set.
  - (a) For Board replacement : Data will be deleted after copying (Limited one copy).
    - (b) For Hotel : Data will not be deleted and can be used for other TVs.
- 5. Turn off the TV set.

#### Note:

- 1. Depending on the failure of boards, function of Data copy for board replacement does not work.
- 2. This function can be effective among the same model numbers.



# 7 Troubleshooting Guide

Use the self-check function to test the unit.

- 1. Checking the IIC bus lines
- 2. Power LED Blinking timing

## 7.1. Check of the IIC bus lines

### 7.1.1. How to access

### 7.1.1.1. Self-check indication only:

Produce TV reception screen, and while pressing [VOLUME ( - )] button on the main unit, press [OK] button on the remote control for more than 3 seconds.

### 7.1.1.2. Self-check indication and forced to factory shipment setting:

Produce TV reception screen, and while pressing [VOLUME ( - )] button on the main unit, press [MENU] button on the remote control for more than 3 seconds.

### 7.1.2. Screen display



### 7.1.3. Check Point

Confirm the following parts if NG was displayed.

DISPLAY	Check Ref. No.	Description	Check P.C.B.
TUN	TU4801	TUNER	A-BOARD
STBY	IC8000	PEAKS-LDA3(STM)	A-BOARD
MEM1	IC8902	PEAKS EEPROM	A-BOARD
MEM2	IC8901	STM EEPROM	A-BOARD
AVSW	IC3001	AUDIO/VIDEO SW	A-BOARD
TEMP	IC2001	TEMP SENSOR	A-BOARD
LAN	IC8601	ETHERPHY	A-BOARD
FE	IC6700	OFDM	A-BOARD
ID2			A-BOARD
LP1	IC9300	LP1	A-BOARD
IRDRV	IC5901	IR LED DRIVER	A-BOARD

### 7.1.4. Exit

Disconnect the AC cord from wall outlet or switch off the power with [ Power ] button on the main unit.

## 7.2. Power LED Blinking timing chart

### 1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinks of the Power LED on the front panel of the unit.

Blinking Times	Contents	Check point
1	Panel information SOS	-
	PD5 Start SOS	
3	P+ 3.3V SOS	A-Board
4	Power SOS	P-Board
5	P+ 5V SOS	A-Board
6	Driver SOS1	SN-Board
	(SN Energy recovery circuit)	A-SN FPC
	(A-SN FPC DET)	
7	Driver SOS2	SN-Board
	(SN Connector DET)	
	(SN Scan and Logic IC)	
8	Driver SOS3	SS-Board
	(SS FPC DET)	SS FPC
	(SS Energy recovery circuit)	
9	Discharge Control SOS	A-Board
10	Sub 5V SOS	A-Board
	Sub 3.3V SOS	SN-Board
	Tuner power SOS	SS-Board
		P-Board
12	Sound SOS	A-Board
		Speaker
13	Emergency SOS	A-Board
14	IROM SOS (ROM in Peaks IC)	A-Board
		P-Board

## 7.3. No Power

First check point

There are following 3 states of No Power indication by power LED.

- 1. No lit.
- 2. Green is lit then turns red blinking a few seconds later. (See 7.2.)
- 3. Only red is lit.

