#### Quick Reference upon Service Visit 1) Notes, PD/SD diagnosis, and methods for various settings

#### Notes when visiting for service

#### 1. Notes when disassembling/reassembling

1 Rear case

When reassembling the rear case, the screws must be tightened in a specific order. Be careful not to tighten them in the wrong order forcibly. For details, see "Rear Case" in "7. DISASSEMBLY".

2 Attaching screws for the HDMI connector

When attaching the HDMI connector after replacing the Main Assy, secure the HDMI connector manually with a screwdriver, but not with an electric screwdriver. If you tighten the screws too tightly with an electric screwdriver, the screw heads may be damaged, in which case the screws cannot be untightened/tightened any more.

#### 2. On parts replacement

1) How to discharge before replacing the Assys

A charge of significant voltage remains in the Plasma Panel even after the power is turned off. Safely discharge the panel before replacement of parts, in either manner indicated below: A: Let the panel sit at least for 3 minutes after the power is turned off.

B: Turn the Large Signal System off before the power is turned off then, after 1 minute, turn the power off.

For details, see "5.6.1 PANEL DRIVE-POWER ON/OFF FUNCTION".

2 On the settings after replacement of the Assys Some boards need settings made after replacement of the Assys. For details, see "8. EACH SETTING AND ADJUSTMENT".

#### 3. On various settings

1 Setting in Factory mode

After a Mask indication into the panel is performed, be sure to set the Mask setting to "OFF" then exit Factory mode.

	PD/SD					
	Item		LEDs ng Blue	LED Display Information  ① TRAP SW		
<u></u>	SQ LSI	Red	Blue 1			
읋	Communication with the module IIC		Blue 2	② Rewriting software		
Panel section	DIGITAL-RST2		Blue 3	*******		
ane	Panel high temperature		Blue 4	③ PD (2-15)		
F	Audio/ Short-circuit SP terminal		Blue 5	•• ••		
	Communication with the Module UCOM		Blue 6	④ SD (1-15)		
	Main 3-wire serial communication		Blue 7			
=	Main IIC communication		Blue 8	No backup		
뜮	Communication with the Main UCOM		Blue 9			
se	FAN		Blue 10	This indication does not display all		
MTB section	Unit high temperature	<del>                                     </del>	Blue 11	III		
-	Digital Tuner communication		Blue 12	For details, please refer to 5.1.1 LED		
	MTB-RST2/RST4		Blue 13	DISPLAY INFORMATION.		
	Home Media Gallery		Blue 14			
	Main EEPROM		Blue 15			
PC	OWER	Red 2				
_	CAN	Red 3				
	N-5V	Red 4				
	DRIVE	Red 5				
	OCDC	Red 6				
	Y-SUS					
	ADRS					
	X-DRIVE					
	X-DCDC					
	X-SUS					
_	DIG-DCDC					
	IKNOWN	Red 12 Red 15				
UN	IKNUVVN	Red 15				

#### How to locate several items on the Factory menu

: Item on the Factory menu Key on the remote control unit Screen indication

#### 1. Confirmation of accumulated power-on time and power-on count

Select {INFORMATION} then {HOUR METER}. (After entering Factory mode, press [♣] five times.)

#### 2. Confirmation of the Power-down and Shutdown histories

1 Panel system

PD: Select {PANEL FACTORY} then {POWER DOWN}. (After entering Factory mode, press [MUTING] once, press [ENTER/SET], then press [♣] three times.)

SD: Select {PANEL FACTORY} then {SHUT DOWN}. (After entering Factory mode, press [MUTING] once, press [ENTER/SET], then press [♣] four times.)

② MTB section

Select {INFORMATION} then {MAIN NG}. (After entering Factory mode, press [♣] three times.)

#### 3. How to display the Mask indication

1) Mask indication in the panel side

1. Select {PANEL FACTORY} then {RASTER MASK SETUP}. (After entering Factory mode, press [MUTING] once, press [ENTER/SET], then press [\$\\$] 8 times.)

2. Press [ENTER/SET], then select a Mask indication, using [↑] or [↓].

#### Adjustments and Settings after replacement of the Assys (Procedures in Factory mode)

1. Digital Video Assy: Transfer of backup data

Select (PANEL FACTORY), (ETC), then (BACKUP DATA). (After entering Factory mode, press [MUTING] once, press [ENTER/SET], press [\$\] seven times, then press [ENTER/SET].)

- ② Select {TRANSFER}, using [→], then hold [ENTER/SET] pressed for at least 5 seconds.
- 3 After transfer of backup data is completed, {ETC} is automatically selected, and the LED on the front panel returns to normal lighting.

- 2. MAIN Assy: Execution of FINAL SETUP.

  ① Select (INITIALIZE) then (FINAL SETUP), then press [ENTER/SET]. (After entering Factory mode, press [MUTING] three times, then press [♣] four times.)

  ② Select "YES", using [➡]. Then hold [ENTER/SET] pressed for at least 5 seconds.

  ③ After "FINAL SETUP IS COMPLETE" is displayed on the screen, turn the POWER

  - switch of the main unit off.

#### 3. POWER SUPPLY Unit: Clearance of the accumulated power-on count and maximum temperature value

- ① Select {PANEL FACTORY}, {ETC}, then {P COUNT INFO}. (After entering Factory
- where the complete is the same manner.

  Select (FAME PACTOR), (ETD), (Left), (Left),

#### 4. Other Assys: Clearance of the maximum temperature value

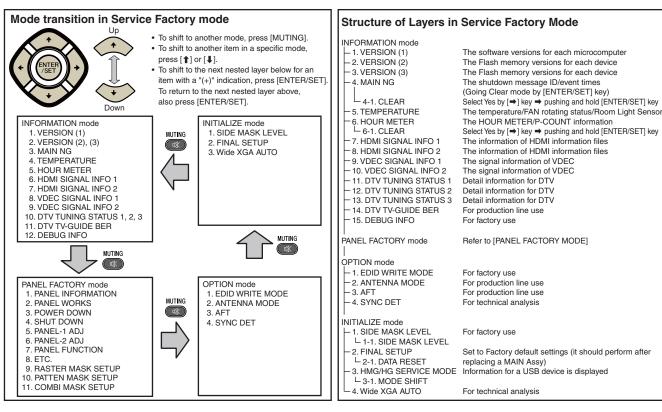
- ① Select {PANEL FACTORY}, {ETC}, then {MAX TEMP}. (After entering Factory mode, press [MUTING] once, press [ENTER], press [♣] seven times, press [ENTER/SET], then press [ ] seven times.)
- ② Press (→) to select "CLEAR". Hold [ENTER/SET] pressed for at least 5 seconds. After clearance is completed, "ETC" is automatically selected.

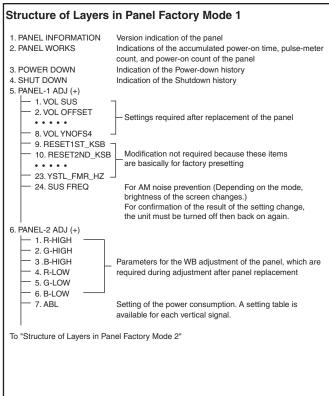
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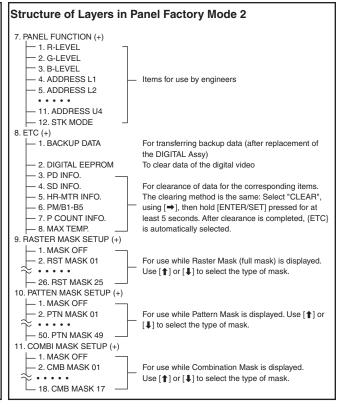
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# Quick Reference upon Service Visit ② Mode transition and structure of layers in Service Factory mode







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# **5. DIAGNOSIS**

## **5.1 POWER SUPPLY OPERATION**

## **5.1.1 LED DISPLAY INFORMATION**

## ■ LED Pattern



State	LED			LED Pat	tern / Rema	arks		
	Blue					Lightins out		
AC OFF or Main power switch OFF	Red					Lightins out		
maiii ponoi omion oi i	Orange					Lightins out		
	Blue					Lightins out		
Standby power management	Red					Always lighting		
management	Orange					Lightins out		
	Blue					Always lighting		
Power ON	Red					Lightins out		
	Orange					Lightins out		
	Blue	Once	Twice	n times			On	се
Power-down	Red	500 mS				2.5 S		
	Orange				_	Lightins out		
	Blue	500 mS				2.5 S		
Shutdown	Red	Once	Twice	n times			On	ce
	Orange		•			Lightins out		
	Blue	200 mS						
No digital adjustment data copied for backup	Red					Always lighting		
data dopica for backap	Orange					Lightins out		
In the process of	Blue	100 mS			ш			
rewriting the program	Red	100 mS	Ш					ш
of the microcomputer	Orange					Lightins out		
	Blue							
During factory	Red							
operation	Orange							
During DTV Module	Blue	100 mS						
software downloading	Red	100 mS	ш					ш
	Orange							
Downloading of DTV	Blue							
Module software is finished	Red	500 mS	500 mS	500 mS	500 mS	500 mS	500 mS	500 mS
normally.	Orange							
Downloading of DTV	Blue							
Module software is	Red							
abnormally finished.	Orange	500 mS	500 mS	500 mS	500 mS	500 mS	500 mS	500 mS
	Blue					Always lighting		
Trap switch	Red					Always lighting		
·	Orange					Lightins out		

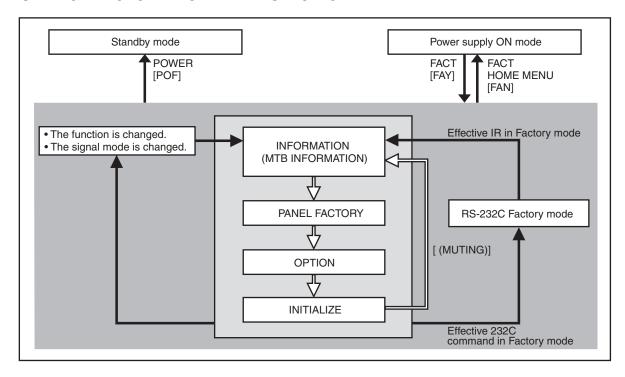
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# 6. SERVICE FACTORY MODE 6.1 OUTLINE OF THE SERVICE FACTORY MODE

Operations during Service Factory mode are described here.

#### 6.1.1 SERVICE FACTORY MODE TRANSITION CHART



#### 6.1.2 HOW TO ENTER/EXIT SERVICE FACTORY MODE

#### ■ How to enter Service Factory Mode

By using a PDP service remote control)

- PDP service remote control : Press [FACTORY] key.
- By issuing RS-232C commands )
- During normal Standby mode : Issue [PON] then [FAY].
- During normal operation mode : Issue [FAY].

## ■ How to exit Service Factory Mode

By using a PDP service remote control)

- PDP service remote control : press [FACTORY] key.
- Supplied remote control unit : press [HOME MENU] key.
- By issuing RS-232C commands)
- Issue [FAN].

- How to enter Service Factory Mode by Using the supplied Remote Control Unit
- Same as previous model. Please refer to the technical document (Service Know-how).

## 6.1.3 FUNCTIONS WHEN ENTERING THE SERVICE FACTORY MODE

#### ■ Fuctions whose setting are set to OFF

The settings for the following functions are set to OFF when Service Factory mode is entered (including when the "FAY" command is received):

Function	Remarks
2-Screen Operation	Input function set on the main side is selected.
FREEZE	
Auto size, Side Mask	It is not performed during Factory mode.
ORBITER, Mask control	Central value operation (ORBITER)
Sleep Timer	Cancel the operation.
Room light sensor	Turn off the detecting operation (Setting data will be retained.)
Blue LED dimmer	Turn off the operation (Setting data will be retained.)
Detection of the TRAP switch	The detection operation is stopped.
TRAP history	To a possible turning on though the memory is maintained.
Display of TV guide	Finish the TV-GUIDE function.
Setting of Parental Control	When this is turned off, the block of the screen is released.
Power Control	Turn off the operation (However, the setting maintains it.)
Image Position	Central value operation

Note: Enter the factory after cancelling ACI because the ACI operation setting OFF and not done.

#### User data

User data will be treated as follows:

- User data on picture-quality and audio-quality adjustments are not reflected, and factory-preset data are output (user data will be retained in memory). When the unit enters Service Factory mode, the current audio-quality adjustment data will be still be retained in memory.
- User-setting data will be applied to the various settings (items on the menus), signal formats, and the items that are associated with path change (HDMI settings, etc.).
- Data on screen (i.e., screen position; meaning clock dividers, and not including data on screen size).
   Are reset to the default values (data stored in memory will be retained).
   Screen size will be retained.

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## 6.1.4 REMOTE CONTROL CODE IN SERVICE FACTORY MODE

Remote Control Keys	Basic Functions	Remarks
MUTING	Switching the main items.	Shifting to the next main item (top).
<b>↓</b> (DOWN)	Switching the subtitled items.	Shifting downward to the next subtitiled item.
<b>1</b> (UP)	Switching the subtitled items.	Shifting upward to the next upper layer.
← (LEFT)	Decreasing the adjustment value.	Decreasing the adjustment value.
→ (RIGHT)	Increasing the adjustment value.	Increasing the adjustment value.
ENTER/SET	Switching the layers.	Shifting downward or upward to the next lower or upper layer.
INPUT	Selecting INPUT.	Shifting the INPUT to the next function.
INPUTxx	Selecting INPUT.	Switching the INPUT to xx. (xx=1 to 7 etc)
CH+/P+	Increasing the channel number.	
CH-/P-	Decreasing the channel number.	
Numeric Keys	Function: TV	Function: TV (previously selected channel number is selected)
POWER	Power OFF.	Turning the power off.
FACTORY	Factory OFF (Factory mode)	In Factory mode, turning Factory mode off.
FACTORY	Factory ON (Non-Factory mode).	In Non-Factory mode, turn Fuctory mode on.
HOME MENU	Menu ON.	In Factory mode, turn Factory mode off.
VOLUME+	Volume UP.	Increasing 10 the adjustment value. (PANEL FACTORY)
VOLUME-	Volume DOWN.	Decreasing 10 the adjustment value. (PANEL FACTORY)
DRIVE OFF (Note1)	Drive Mode OFF.	Turning Drive mode off.
INTEGRATOR	INTEGRATOR MENU ON.	Enter INTEGRATOR MODE.

(Note 1) When ten seconds have passed since the [DRIVE OFF] key was pressed at the standby, it becomes invalid.

Please press [POWER] key from the [DRIVE OFF] key pressing within ten seconds when you do power supply ON while driven OFF.



PDP service remote control





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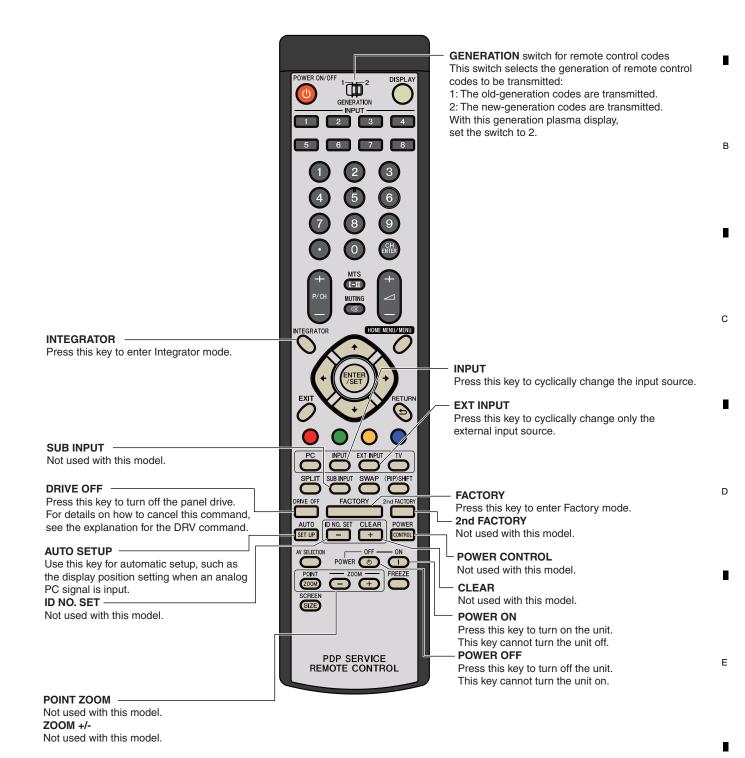
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#### 6.1.5 PDP SERVICE REMOTE CONTROL

- The keys labeled with the same names on the service remote control unit have the same functions as those of the supplied remote control unit. (See "2.3 PANEL FACILITIES.")
- For the keys not provided on the supplied remote control unit, see the explanations below:



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Large Iter					
	Middle Item		Variable / Adjustment Range	Remarks	
		Small Item	,		
6.2.1 INFO		T			
	6.2.1.1 VERSION (1)				
	6.2.1.2 VERSION (2)				
	6.2.1.3 VERSION (3) 6.2.1.4 MAIN NG	CLEAR <=>	NO <=> YES		
	6.2.1.5 TEMPERATURE	OLEAN <=>	110 <=> 1E3		
	6.2.1.6 HOUR METER	MTB HOUR METER CLEAR	NO <=> YES		
	6.2.1.7 HDMI SIGNAL INFO 1	INTO THOUT WE TENT CEEP WIT	110 (=> 120		
	6.2.1.8 HDMI SIGNAL INFO 2				
	6.2.1.9 VDEC SIGNAL INFO 1				
	6.2.1.10 VDEC SIGNAL INFO 2				
	6.2.1.11 DTV TUNING STATUS 1				
	6.2.1.12 DTV TUNING STATUS 2				
	6.2.1.13 DTV TUNING STATUS 3				
	6.2.1.14 DTV TV-GUIDE BER			for the technical analysis	
	6.2.1.15 DEBUG INFO			for the technical analysis	
6.2.2 PAN	EL FACTORY (+)				
I	6.2.2.1 PANEL INFORMATION				
	6.2.2.2 PANEL WORKS				
	6.2.2.3 POWER DOWN				
	6.2.2.4 SHUT DOWN				
	6.2.2.5 PANEL-1 ADJ (+)	VOL SUS <=>	000 to 255	Equivalent to VSU (Setting value: Factory adjustment value)	
		VOL OFFSET <=>	000 to 255	Equivalent to VOF (Setting value: Factory adjustment value)	
		VOL RST P <=>	000 to 255	Equivalent to VRP (Setting value: Factory adjustment value)	
		VOL XPOFS1 <=>	000 to 255	Equivalent to VX1 (Setting value: Factory adjustment value)	
		VOL XPOFS2 <=>	000 to 255	Equivalent to VX2 (Setting value: Factory adjustment value)	
		VOL YNOFS1 <=>	000 to 255	Equivalent to VY1 (Setting value: Factory adjustment value)	
		VOL YNOFS3 <=>	000 to 255	Equivalent to VY3 (Setting value: Factory adjustment value)	
		VOL YNOFS4 <=>	000 to 255	Equivalent to VY4 (Setting value: Factory adjustment value)	
		RESET1ST_KSB <=>	112 to 144	Equivalent to R1K (Setting value: 128 fixed)	
		RESET2ND_KSB <=>	112 to 144	Equivalent to R2K (Setting value: 128 fixed)	
		YSTL_1SF_KSB <=>	112 to 144	Equivalent to Y1K (Setting value: 128 fixed)	
		YSTL_1SF_HZ <=>	112 to 144	Equivalent to Y1Z (Setting value: 128 fixed)	
		XSUS_1ST_B <=>	112 to 144	Equivalent to X1B (Setting value: 128 fixed)	
		YSUS_2ND_B <=>	112 to 144	Equivalent to Y2B (Setting value: 128 fixed)	
		XSUS_3RD_B <=>	112 to 144	Equivalent to X3B (Setting value: 128 fixed)	
		YSUS_B <=>	112 to 144	Equivalent to YSB (Setting value: 128 fixed)	
		XSUS_B <=>	112 to 144	Equivalent to XSB (Setting value: 128 fixed)	
		YSTL_KSB <=>	112 to 144	Equivalent to YTK (Setting value: 128 fixed)	
		YSTL_HZ <=>	112 to 144	Equivalent to YTZ (Setting value: 128 fixed)	
		YSTL_2SF_KSB <=>	112 to 144	Equivalent to Y2K (Setting value: 128 fixed)	
		YSTL_2SF_HZ <=>	112 to 144	Equivalent to Y2Z (Setting value: 128 fixed)	
		YSTL_FMR_KSB <=>	112 to 144	Equivalent to YNK (Setting value: 128 fixed)	
		YSTL_FMR_HZ <=>	112 to 144	Equivalent to YNZ (Setting value: 128 fixed)	
	DOOD PANEL O 151/1	SUS FREQ. <=>	MODE 1 to MODE 8	Equivalent to SFR (Setting value: MODE1)	
	6.2.2.6 PANEL-2 ADJ (+)	R-HIGH <=>	000 to 511	Equivalent to PRH (Setting value: Factory adjustment value)	
		G-HIGH <=>	000 to 511	Equivalent to PGH (Setting value: Factory adjustment value)	
		B-HIGH <=>	000 to 511	Equivalent to PBH (Setting value: Factory adjustment value)	
		R-LOW <=>	000 to 999	Equivalent to PRL (Setting value: 512 fixed)	
		G-LOW <=>	000 to 999	Equivalent to PGL (Setting value: 512 fixed)	
		B-LOW <=> ABL <=>	000 to 999 000 to 255	Equivalent to ABI (Setting value: 512 fixed)	
	6.2.2.7 PANEL FUNCTION (+)		LV-0 to LV-7	Equivalent to ABL (Setting value: Factory adjustment value)	
	U.Z.Z./ FAINEL FUINCTION (+)	R-LEVEL <=> G-LEVEL <=>	LV-0 to LV-7	Equivalent to RRL (Setting value: Lv-2) Equivalent to RGL (Setting value: Lv-1)	
		B-LEVEL <=>	LV-0 to LV-7	Equivalent to RBL (Setting value: Lv-1)  Equivalent to RBL (Setting value: Lv-0)	
		ADDRESS L1 <=>	PH0 to PH9	Equivalent to AP0S*- (Setting value: LV-0)	
		ADDRESS L1 <=>	PH0 to PH9	Equivalent to AP0S - (Setting value: PH0)  Equivalent to AP0S-* (Setting value: PH1)	
		ADDRESS L3 <=>	PH0 to PH9	Equivalent to AP1S*- (Setting value: PH1)	
		ADDRESS L3 <=>	PH0 to PH9	Equivalent to AP1S - (Setting value: PH2)  Equivalent to AP1S-* (Setting value: PH0)	
		ADDRESS U1 <=>	PH0 to PH9	Equivalent to AP2S*- (Setting value: PH0)	
		ADDRESS U2 <=>	PH0 to PH9	Equivalent to AP25 - (Setting value: PH0)	
1	1			, , ,	
		ADDRESS H3			
		ADDRESS U3 <=> ADDRESS U4 <=>	PH0 to PH9 PH0 to PH9	Equivalent to AP3S*- (Setting value: PH2) Equivalent to AP3S-* (Setting value: PH0)	

\*: Setting value

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_	Middle Item		Variable / Adjustment Range	Remarks	
		Small Item			
6.2.2 PA	NEL FACTORY (+)				
	6.2.2.8 ETC. (+)	BACKUP DATA <=>	NO OPRT <=> TRANSFER or ERR	Equivalent to BCP	
		DIGITAL EEPROM <=>	NO OPRT <=> DELETE/REPAIR	Equivalent to FAJ/UAJ	
		PD INFO. <=>	NO OPRT <=> CLEAR	Equivalent to CPD	
		SD INFO. <=>	NO OPRT <=> CLEAR	Equivalent to CSD	
		HR-MTR INFO. <=>	NO OPRT <=> CLEAR	Equivalent to CHM	
		PM/B1-B5 <=>	NO OPRT <=> CLEAR	Equivalent to CPM	
		P COUNT INFO. <=>	NO OPRT <=> CLEAR	Equivalent to CPC	
		MAX TEMP. <=>	NO OPRT <=> CLEAR	Equivalent to CMT	
	6.2.2.9 RASTER MASK SETUP (+)	MASK OFF		Equivalent to MKS+S00	
		RST MASK 01 <=>	<=> 48V <=> 50V <=> 60V <=> 72V <=>	Equivalent to MKS+S51	
		• • •	75V <=> 60P <=>	• • •	
		RST MASK 25 <=>		Equivalent to MKS+S75	
	6.2.2.10 PATTERN MASK SETUP (+)	MASK OFF		Equivalent to MKS+S00	
		PTN MASK 01 <=>	<=> 48V <=> 50V <=> 60V <=> 72V <=>	Equivalent to MKS+S01	
		• • •	75V <=> 60P <=>	• • •	
		PTN MASK 49 <=>		Equivalent to MKS+S49	
	6.2.2.11 COMBI MASK SETUP (+)	MASK OFF		Equivalent to MKC+S00	
		CMB MASK 01 <=>			
		• • •	75V <=> 60P <=>	•••	
		CMB MASK 17 <=>		Equivalent to MKC+S17	
6.2.3 OP	TION				
	6.2.3.1 EDID WRITE MODE <=>		DISABLE <=> ENABLE		
	6.2.3.2 ANTENNA MODE <=>		CABLE <=> AIR	Exclusively used for production line	
	6.2.3.3 AFT <=>		DISABLE <=> ENABLE	production line	
	6.2.3.4 SYNC DET (+)			for the technical analysis	
	6.2.3.5 CC (+)			for the technical analysis	
6.2.4 INI	TIALIZE		•	•	
	6.2.4.1 SIDE MASK LEVEL (+)	SIDE MASK LEVEL <=>			
	6.2.4.2 FINAL SETUP	DATA RESET <=>	NO <=> YES		
	6.2.4.3 HMG/HG SERVICE MODE	MODE SHIFT <=>	NO <=> YES		
	6.2.4.4 Wide XGA AUTO <=>		DISABLE <=> ENABLE	Exclusively used for technical analysis (details omitted)	

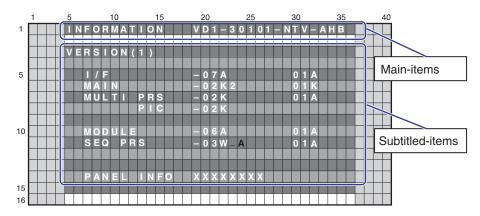
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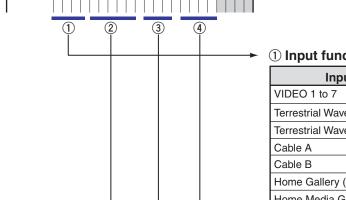
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## 6.1.7 INDICATIONS IN SERVICE FACTORY MODE



## **■** Main-item indications



## 1 Input function

Input Functions	OSD
VIDEO 1 to 7	VD 1 to 7
Terrestrial Wave A	ARA
Terrestrial Wave B	ARB
Cable A	CBA
Cable B	CBB
Home Gallery (Regular model only)	HG
Home Media Gallery (ELITE model only)	HMG
PC	PC

## 2 SIG mode and Screen size

Note: See SIG-Mode Tables. (See next page.)

#### **③ Color system and Signal type**

Color System and S	OSD		
NTSC	ITSC Composite input		
	S-connector input		
Y/CB/CR	CBR		
Y/PB/PR	PBR		
RGB	RGB		
Digital Video signal		DIG	

#### 4 Option (Destination, Panel Generation, etc.)

Options	OSD
Regular model	ATB
ELITE model	AHB

#### 2 SIG Mode and Screen size (by User is displayed)

1st and 2nd characters: Resolution of the input signal3rd and 4th characters: Refresh rate of the input signal5th character: Selection of the screen size

#### ■ Input signal mode table for video signals (resolutions and V frequencies)

1st to 4th	Character	Signal Type	Fv (Hz)	Fh (kHz)
10	60	SDTV*525i	60.000	15.750
20	60	SDTV*525p	60.000	31.500
30	60	HDTV*1125i	60.000	33.750
40	60	HDTV*750p	60.000	45.000
50	24	HDTV*1125p	24.000	27.000
50	60	HDTV*1125p	60.000	67.500

Fv: Vertical Frequency, Fh: Horizontal Frequency

#### ■ Input signal mode table for PC signals (resolutions and V frequencies)

1st to 4th Character		Signal Type	Fv (Hz)	Fh (kHz)
C1	70	720 x 400	70.087	31.469
C2	60	640 x 480	59.940	31.469
C4	60	800 x 600	60.317	37.879
C6	60	1280 x 720	60.000	44.800
C7	60	1024 x 768	60.004	48.363
C9	60	1360 x 768	60.015	47.712
D6	60	1280 x 1024	60.000	64.000

Fv: Vertical Frequency, Fh: Horizontal Frequency

#### ■ Current selection of the screen size

5th Character	GUI Notation	VIDEO	PC	Remarks
0	DOT BY DOT	• (*)	_	
1	4:3	•	•	
2	FULL	•	•	
3	ZOOM	•	-	
4	CINEMA	•	_	
5	WIDE	•	_	

●: supported, -: unsupported

Note (\*): It is effective only with models having the Full HD panel.

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# 6.2 DETAILS OF FACTORY MENU 6.2.1 INFORMATION

## ■ Operation items

No.	Function/Display	Context	RS-232C Command
6.2.1.1	VERSION (1)	The Flash memory versions for each device are displayed. (Common part)	QS1
6.2.1.2	VERSION (2)	The Fleeh memory versions for each device are displayed (Individual part)	005
6.2.1.3	VERSION (3)	The Flash memory versions for each device are displayed. (Individual part)	QSE
6.2.1.4	MAIN NG	The Shutdown Message ID/Event Times in Main Microcomputer are displayed.	QNG
6.2.1.5	TEMPERATURE	The Temperature/FAN rotating status in Main Microcomputer are displayed.	QMT
6.2.1.6	HOUR METER	The HOUR METER/P-COUNT information are displayed.	QS3
6.2.1.7	HDMI SIGNAL INFO 1	The Information of HDMI information files are displayed.	
6.2.1.8	HDMI SIGNAL INFO 2	The mornation of ribini mornation lies are displayed.	_
6.2.1.9	VDEC SIGNAL INFO 1	Display the Signal Information on VDEC.	
6.2.1.10	VDEC SIGNAL INFO 2	Display the Signal Information on VDEC.	_
6.2.1.11	DTV TUNING STATUS 1		
6.2.1.12	DTV TUNING STATUS 2	Digital broadcast information and status is displayed upon receiving digital broadcast signal.	_
6.2.1.13	DTV TUNING STATUS 3	- Signal	
6.2.1.14	DTV TV-GUIDE BER	TV-Guide Bit Error Rate information	_
6.2.1.15	DEBUG INFO	Debug information	_

## 6.2.1.1 VERSION (1)

	1		5					10					15				20					25				30					35			40
1				Ν	F	0	R	М	Α	Т	П	0	Ν			٧	D	1		3	0	1	0	1	Ν	Т	٧		Α	Н	В		П	
			٧	E	R	S		0	N	(	1	)																						
5						1	F										0	7	Α							0		Α						
					М	Α	П	Ν									0	2	Κ	2						0		K						
					М	U	L	Т			P	R	S				0	2	Κ							0		Α						
											P		С					2	K															
																																	П	
10					М	0	D	U	Ш	В								6	Α							0		Α					П	
					s	Е	Q		P	R	s						0	3	w	_	Α					0		Α						
																																	П	
					P	Α	Ν	B			П	Ν	F	0		Х	Х	Х	Х	Х	Х	Х	Х											
15																																		
16																																		

Microcomputer	Item Name	Display Example (Execution program block)	Display Example (Boot block)
I/F microcomputer	I/F	-07A	01A
Main microcomputer	MAIN	-02K2	01K
Multi processor	MULTI PRS	-02K	01A
Multi processor	MULTI PIC	-02K	
Module microcomputer	MODULE	-06A	01A
Sequence processor	SEQ PRS	-03W A	01A

**Note:** In the 29-32 rows, the Boot version information on each device is displayed. In the 19-24 rows, the version of the execution program is displayed.

• PANEL INFO: It displays the generation of the panel, inchage and the type of the panel. For details on display values and settings, see "10: Panel Information" in "9.3.1. QS1 (PANEL STATUS)."

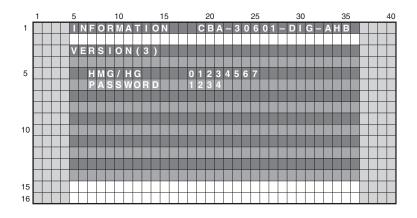
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## 6.2.1.2 VERSION (2)

	1		5					10	)				15				20	1				25					30					35			4	0
1				N	E	C	E	1	1 4	Ī	П	0	Ν			С	В	Α		3	0	6	0	1		D		G		Α	н	В			I	
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			٧	Ε	R	S	П	C	1	1 (	2	)																								
						L	L	L	L	L	L	L																							4	
5					D	Ū	V	-	L	L	L	L																							4	4
							Œ	4	VE	E	W	Α	R	Ξ	Х	Х	Х	Х	Х	Х	Х	Х														1
							S	E	E	П	Α	L			0	1	2	3	4	5	6	7														
							E	U	П	П	П	V	Ξ		Х	Х	Х	Х	Х	Х	Х	Х														ı
							С	E	E						Н	Н	Н	Н	Н	Н	Н	Н														
10							K	Œ	E	N	E	Ш			Н	Н	Н	Н	Н	Н	Н	Н														
							Œ	C	O	lī	S				Н	Н	Η	H	H	H	Н	H														
						Г	G	П	Δ	G	S	П			н	1	W			(	Υ	)												П	Т	1
							П	П	П	П	П	П			D	٧	R			(	Υ	)		F	0	N	Т	s	(	Υ				П	Т	1
							П			П		П			D	F	Α	S		(	Υ	)		P	Ш	0	G		(	Υ	)			П	Т	1
15			Г	Г	Г	Γ	Г	Т	Т	Т	Г	Г	Г			Г	Г		Г					Г	Г							Г	Г		Т	1
16																																				

Meaning	Item Name	Display Example
DTV Hardware Version	HARDWARE	XXXXXXXX
DTV Hardware Serial	SERIAL	01234567
DTV Runtime Version	RUNTIME	ННННННН
CFE Version	CFE	ННННННН
KERNEL Version	KERNEL	ННННННН
ROOTS Version	ROOTS	ННННННН
		H/W (Y)
FLAGS	FLAGS	DVR (Y) FONTS(Y)
		DFAST(Y) PLOG (Y)

## 6.2.1.3 VERSION (3)



Meaning	Item Name	Display Example
HMG/HG module Version	HMG/HG	01234567
User Password	PASSWORD	1234

6.2.1.4 MAIN NG

## MTB side's Shutdown NG information

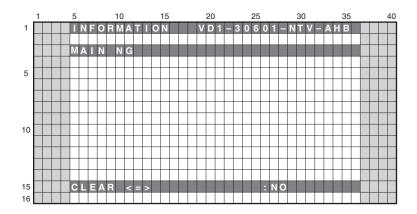
OSD: MAIN	OSD: SUB	Cause of Shutdown
AUDIO		Short-circuit of the speaker terminal or failure of audio amplifier.
MODULE		Failure of communication to Module microcomputer.
MA-3L		3-wire Serial Communication of Main microcomputer.
	IF	Communication failure of IF microcomputer
	MULTI	Multi Processor communication failure
MA-IIC		IIC Communication failure of Main microcomputer
	FE1	Analog Tuner 1
	FE2	Analog Tuner 2
	MSPMAP	MSP/MAP
	AV-SW	AV Switch
	RGB-SW	RGB Switch
	VDEC	VDEC
	SDRAM	VDEC - SDRAM
	ADC	AD/PLL
	HDMI	НОМІ
	US-MSP	MSP
MAIN		Communication failure of Main microcomputer
FAN	FAN1	Fan stopped
	FAN2	Fan stopped (Only with models having the Full HD panel)
TEMP2		Abnormally high temperature at MTB.
DTUNER		Failure of Digital Tuner
	PS/RST	Failure to DTV Starting
	RETRY	DTV communication error
	DE-BCM	Abnormally in BCM7038
	DE-FE	Tuner 1 or 2
	DE-CAS	Card I/F IC
	DE-VBI	VBI Slicer
	DE-EPI	EEPROM
	TV-G	TV-Guide Error
	HOME-G	Failure at Home Gallery
	DTVMID	Middleware
	DTVAPP	Application
RST-MA	M-DCDC	Abnormally in RST2 of MAIN Assy. (power decrease of DC-DC converter)
	RELAY	Abnormally in RST4 of MAIN Assy. (power decrease of Relay power)
HMG		Failure at Home Media Gallery
	HMG	Home Media Gallery startup error
MA-EEP		IIC communication line between EEPROM and MAIN.

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## Operation:

Even if [ $\Leftarrow$ ] key or [ $\Rightarrow$ ] key is pressed, {CLEAR <=> :YES}  $\Leftrightarrow$  {CLEAR <=> :NO} is repeated. If the [ENTER/SET] key is kept on pressing for 5 second when the status of this menu is <YES>, clear process will begin.

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С

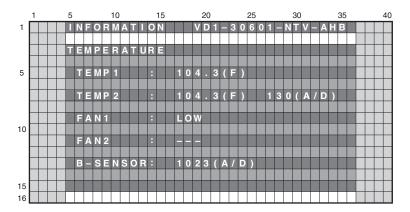
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#### 6.2.1.5 TEMPERATURE

A present temperature and the FAN rotation are displayed.

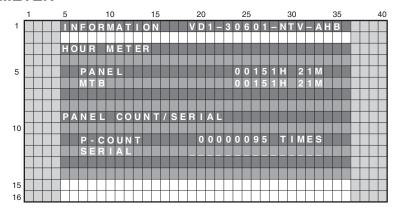
If either [←] key or [→] key is pressed, the display data is refreshed.



#### • Display/Meaning

- TEMP1: The temperature of the sensor on the panel side is displayed by the Fahrenheit (F).
- TEMP2: The temperature conversion display is done with 10 bit the A/D input value of IF uCOM 90 pin (AN4). It is displayed by both the Fahrenheit (F) and 8 bit A/D value.
  - (Remark: When temperature (F) of the sensor becomes more than a specified temperature, the shutdown start of processing.)
- FAN1 : The value of the FAN rotating state is displayed.
  - STOP: stopped, LOW: slow speed, HIGH: high speed.
- FAN2 : The value of the rotation state of FAN is displayed.
  - During a rotation of FAN, 8bit D/A value output from 2 pin (DA0) of IF uCOM is displayed.
  - It is displayed with OFF during a stop (only for the FHD model).
- B-SENSOR: The value that indicated the degree of brightness input into an Room light sensor is displayed.
  - AD value when the output of the Room light sensor was input into 89 pin (AN5) of IF uCOM is displayed.

#### **6.2.1.6 HOUR METER**



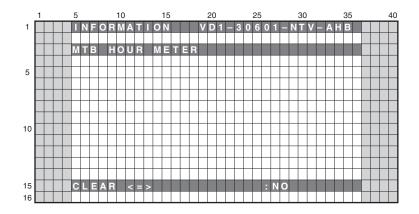
#### • Display/Meaning

Meaning	Item Name	Display Example	Corresponding RS-232C Command
HOUR METER (PANEL)	PANEL	00151H 21M	QS3
HOUR METER (MTB)	МТВ	00151H 21M	QS3
POWER ON COUNTER	P-COUNT	00000095 TIMES	QS3
SYSTEM SERIAL	SERIAL		QS3

Note: The PANEL-side's HOUR METER/P-COUNT acquires information from the PANEL-side.

#### • MTB HOUR METER

In HOUR METER screen on Factory Menu, press the [ENTER] key, and then it moves to the screnn to clear MTB HOUR METER. (MTB HOUR METER is cleared only.)



#### Operation:

Even if  $[\leftarrow]$  key or  $[\rightarrow]$  key is pressed, {CLEAR <=> :YES}  $\Leftrightarrow$  {CLEAR <=> :NO} is repeated. If the [ENTER/SET] key is kept on pressing for 5 second when the status of this menu is <YES>, clear process will begin.

MTB HOUR METER is cleared only. PANEL HOUR METER is not cleared.

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## 6.2.1.7 HDMI SIGNAL INFO 1

## Displays the input signal information of HDMI terminal

Item	Meaning
PWR5V	+5 V power detection (18 pin of HDMI terminal)
VSYNC	VSYNC detection
CKDT	Clock detection
SCDT	SYNC detection
DCRPT	HDCP decryption status
AUTHEN	HDCP authentication status
MODE	HDMI mode status
BIST	
NVAL	N value
CTSVAL	CTS value
AKSV	Shadow AKSV value
BKSV	Shadow BKSV value
IT CNT	IT content (AVI info)
EXTCOL	Extension calorimetry (AVI info)
RGV QR	RGB range (AVI info)
PIXDEP	Number of pixel/bit

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## 6.2.1.8 HDMI SIGNAL INFO 2

	1			5					10					15					20					25					30					35	,		4	0
1				П	N	3	0	R	M	Α	П	П	0	Ν				٧	D	1		1	0	6	0	1		Ν		٧		A		В			Т	
				Œ	D	М	П		S	П	G	Ν	Α	L		П	Ν	F	0		2																	
																																					Т	
5					П		н		R	Е	S		2	2	0	0				С	0	L		s	P		4	2	2								Т	1
							٧		R	Е	S	8	0	5	6	3				С	0	L	М	Е	П	:	7	0	9									
							Η		D	Ε			1	9	2	0				Α	S	Р	Е	С	П	В	1	6	:	9								
						П	٧		D	固		В	0	5	4	0				Α	С	П		٧	囯	П							П				Т	
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						П	Α	U	D	П	0	П	4	8	k					P	П	Х		R	Р	П	0	0										1
	Г	Т	Г										Р	С	М					S	0	U	R	С	囯	П	P		O	Ν	囯	囯	R	П		П	$\top$	1
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15																																		Г			$\top$	
16																																						

#### Displays input signal status of HDMI terminal

Display Item	Meaning
H RES	Number of horizontal pixels (decimal)
V RES	Number of vertical lines (decimal)
H DE	Number of effectively horizontal pixels (decimal)
V DE	Number of effectively vertical lines (decimal)
INTRL	Interlace (=INT) or progressive (=PRG)
V POL	VSYNC polarity
H POL	HSYNC polarity
AUDIO (first line)	Sampling frequency. (ex. DVD: 48kHz, CD: 44.1kHz) *1
AUDIO (second line)	PCM (PCM) or No PCM (=no PCM)
AUDIO (third line)	Quantization bit
COL SP	Color space (AVI Info) (422 or 444 or RGB) *2
COLMET	N/A
ASPECT	Aspect (AVI Info)
ACTIVE	Video active format (AVI Info)
V FMT	Video identification code (AVI Info)
PIX RP	N/A
SOURCE (first line)	Vendor name of the emission device
SOURCE (second line)	Model name of the emission device

<sup>\*1:</sup> Confirm if this item is displayed when the audio is not outputted.

**Display of HDMI FACTORY and correspondence of resolution**Please confirm the following 5 items when the picture doesn't come out.

Input			FACTORY	/ Display	
Signal	H RES	V RES	H DE	V DE	V FMT
480i (525i) @ 60	858	262 or 263	720	240	720x480i @ 60
480p (525p) @ 60	858	525	720	480	720x480p @60
1080i (1125i) @ 60	2200	562 or 563	1920	540	1920x1080i @ 60
720p (750p) @ 60	1650	750	1280	720	1280x720p @ 60
1080p (1125p) @ 60	2200	1125	1920	1080	1920x1080p @ 60
1080p (1125p) @ 24	2750	1125	1920	1080	1920x1080p @ 24

<sup>\*2:</sup> If may not match to the state of source devices when the color is abnormal.

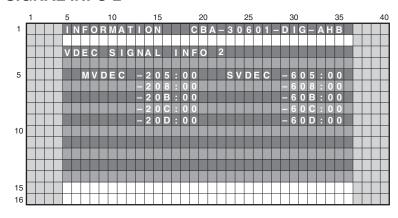
## 6.2.1.9 VDEC SIGNAL INFO 1

	1		5					10	1				15					20				25				30					35			4	40
1			П	Ν	F	0	R	М	Α	П	П	0	Ν				٧	D	1	3	0	6	0	1	Ν	Т	٧		Α	Н	В		П	П	П
																																	П	П	
			٧	D	Е	С		s		G	Ν	Α	L		П	Ν	F	0															П	П	
																																		П	
5					М	٧	D	Ε	С			0	0	0		0	0			S	٧	D	Е	С		4	0	0		0	0				
												0	0	1	В	0	0									4	0	1	1	0	0		П	П	
												0	9	4		0	0									4	9	4	:	0	0			П	
												0	9	5	8	0	0									4	9	5	:	0	0		П	П	
												0	9	6		0	0									4	9	6		0	0		П	П	
10												0	9	8	8	0	0												:				П	П	П
													В	5		0	0									5	В	5		0	0		П	П	
												1	В	6		0	0								=	5	В	6	8	0	0		П	П	
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## Displays signal status that is input to VDEC.

Device	Sub Address (Main screen)	Sub Address (Sub screen)	Meaning
	000h	400h	Line system distinction result
	001h	401h	VTR distinction result
	094h	494h	Slot number
VDEC	095h	495h	Color system distinction result
	096h	496h	ACC coefficient
	098h		3D YC flag
	1B5h	5B5h	MV detection 1
	1B6h	5B6h	MV detection 2
	1B7h	5B7h	MV detection 3

## **6.2.1.10 VDEC SIGNAL INFO 2**



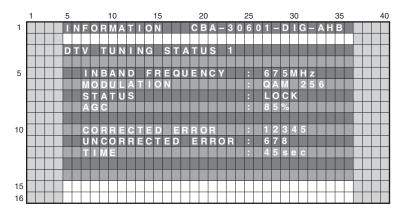
## Displays signal status that is input to VDEC.

Device	Sub Address (Main screen)	Sub Address (Sub screen)	Meaning
	205h	605h	CC detection 1
	208h	608h	CC detection 2
VDEC	20Bh	60Bh	CC-CRI detection
	20Ch	60Ch	XDS content advisor 0
	20Dh	60Dh	XDS content advisor 1

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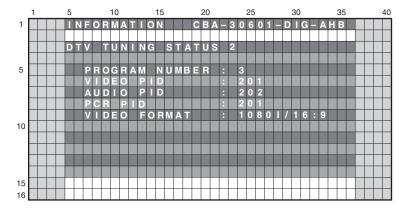
#### **6.2.1.11 DTV TUNING STATUS 1**

Displays digital broadcast signal information and status upon receiving digital signal.



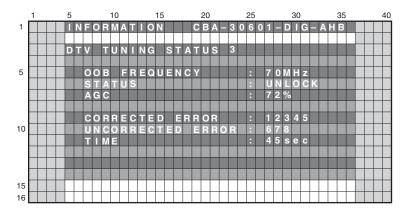
#### **6.2.1.12 DTV TUNING STATUS 2**

Displays digital broadcast signal information and status upon receiving digital signal.



#### **6.2.1.13 DTV TUNING STATUS 3**

Displays digital broadcast signal information and status upon receiving digital signal.



### **6.2.1.14 DTV TV-GUIDE BER**

Exclusively used for production line. TV-Guide error bit ratio information is displayed.

#### 6.2.1.15 **DEBUG INFO**

Exclusively used for technical analysis. Debug information for development use is displayed.

## 6.2.2 PANEL FACTORY (+)

## **■** Operation Items

This is the menu screen for the adjustment of the panel. Data acquisition and value adjustment can be performed for the following items:

No.	Indication	Description of functions
6.2.2.1	PANEL INFORMATION	Data, such as the version of the microcomputer of the panel, product serial number, and statuses of memories for adjustment values for the main unit and for backup, are displayed.
6.2.2.2	PANEL WORKS	Operation data, such as accumulated pulse-meter count, accumulated hour-meter count, accumulated power-on count, and the temperature detected by the sensor, are displayed.
6.2.2.3	POWER DOWN	The power-down history is displayed, with the hour-meter values that indicate the hour values when power-downs occurred.
6.2.2.4	SHUT DOWN	The shutdown history is displayed, with the hour-meter values that indicate the hour values when shutdowns occurred.
6.2.2.5	PANEL-1 ADJ (+)	Settings of the driving pulse timing and driving voltage can be performed.
6.2.2.6	PANEL-2 ADJ (+)	White balance and ABL (power consumption) for the panel can be set.
6.2.2.7	PANEL FUNCTION (+)	Perform panel-degradation correction-level setting, phase adjustment of the address, and the streaking-correction setting.
6.2.2.8	ETC. (+)	Copying of backup data and clearance of various data can be performed.
6.2.2.9	RASTER MASK SETUP (+)	The mask indication (RASTER) can be set and indicated.
6.2.2.10	PATTERN MASK SETUP (+)	The mask indication (PATTERN) can be set and indicated.
6.2.2.11	COMBI MASK SETUP (+)	The mask indication (COMBI) can be set and indicated.

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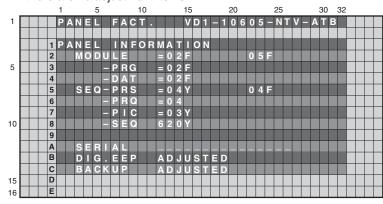
С

#### ■ Details of indications in each layer

• In the following examples, GUI images for a 50-inch and 60-inch models are indicated.

#### 6.2.2.1 PANEL INFORMATION

• Data, such as the version of the microcomputer of the panel, product serial number, and statuses of memories for adjustment values for the main unit and for backup, are displayed. No other layers are nested below this layer, and there are no adjustment items.



#### ■ Key operation

<DOWN> : Shifting to PANEL WORKS <UP> : Shifting to COMBI MASK SETUP

(+)

<L/R> : Updating displayed information

#### ■ Display items:

MODULE: The version of data written in the Module microcomputer (IC3601) is indicated.

-PRG : The program version of the Module microcomputer is indicated.

-DAT : The data version of the Module microcomputer is indicated.

SEQ-PRG: The version of data written in the Sequence LSI (IC3301) is indicated.

-PRG : The program version of the Sequence LSI is indicated.
-PIC : The Picture-data version of the Sequence LSI is indicated.
-SEQ : The sequence-data version of the Sequence LSI is indicated.

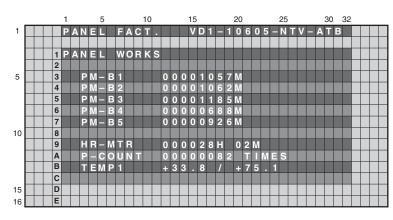
SERIAL : The serial number of the module is indicated.

DIG.EEP : The adjusted status of the EEPROM that is mounted on the DIGITAL Assy is indicated.

BACKUP : The adjusted status of the EEPROM for backup that is mounted on the SENSOR Assy is indicated.

#### 6.2.2.2 PANEL WORKS

• Data on operations, such as the accumulated pulse-meter counts, hour-meter count, power-on count, and temperature detected by the sensor, are sent back. No other layers are nested below this layer, and there are no adjustment items.



#### ■ Key operation

<DOWN> : Shifting to POWER DOWN <UP> : Shifting to PANEL INFORMATION <L/R> : Updating displayed information

— Temperature unit is " °C (Centigrade) ".

#### ■ Contents of the Display item

- PM-B1 to B5: The accumulated pulse-meter counts for the 5 blocks on the screen are indicated. (the lowest-order digit represents millions of pulses.)
- HR-MTR: The hour-meter value (accumulated power-on hours) is indicated.
- P-COUNT: The accumulated power-on count is indicated.
- TEMP1: The current panel temperature and the historical maximum temperature recorded in memory are indicated. The range of temperature indication is from -50.0 to +99.9. (The temperature unit is " °C (Centigrade) ".)

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#### 6.2.2.3 POWER DOWN

• The power-down history is displayed. The last most 8 power-down histories are displayed with the hour-meter values that indicate the hours when power-downs occurred. No other layers are nested below this layer, and there are no adjustment items.

							J					10			10					20					20					50		عد				_
1			Р	Α	Ν	Е	L		E	Α	С	Т			٧	D	1			0	6	0	5		Ν	Т	٧		Α	П	В			П	Т	1
					П																												П	П	Т	1
		1	Р	o	W	Е	R		D	0	w	Ν																						I	П	1
		2					1	S							2	Ν	D					0	0	0	3	2	8	3		0	4	М	П	П	Т	1
5		3																																П	П	1
		4		1			Х		D	R	٧											0	0	0	1	7	7	3		1	6	М		П	Т	1
		5		2			Υ		S	U	S			S	С	Α	Ν					0	0	0	0	4		н		4	4	М		П	П	1
		6		3			S	С	Α	Ν												0	0	0	0	4	1	3		3	2	М				1
		7		4			Р	0	W	Ε	R			s	С	Α	Ν					0	0	0	0	4		Н		2	9	М			П	]
10		8		5			Α	D	R	S												0	0	0	0	1	3	н			2	М				
		9		6			S	С	Α	Ν	5	٧		X		D	С	D	С			0	0	0	0	1	2	Н		1		М			П	
		Α		7			Υ		D	С	D	С										0	0	0	0	0	0	н		5	1	М				
		В		8																								Н				М				
		С																																		1
15		D																																		
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#### ■ Key operation

<DOWN> : Shifting to SHUT DOWN <UP> : Shifting to PANEL WORKS <L/R> : Updating displayed information

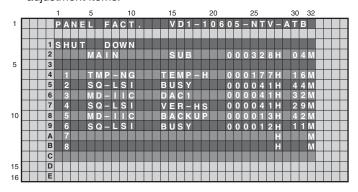
#### <Causes of power-down and corresponding OSD indications>

Cause of power-down	OSD Indication	Cause of power-down	OSD Indication
POWER SUPPLY Unit	P-PWR	ADDRESS Assy	ADRS
SCAN Assy	SCAN	X DRIVE Assy	XDRV
5 V power for SCAN Assy	SCAN5V	DC/DC converter for X drive	X-DCDC
Y DRIVE Assy	Y-DRV	X-drive SUS circuit	X-SUS
DC/DC converter for Y drive	Y-DCDC	Digital DC/DC converter	D-DCDC
Y-drive SUS circuit	Y-SUS	Unknown	UNKNOWN

- \* When power-down is confirmed, the factor is displayed as "1st", "2nd", according to the accuracy order.
- \* The power-down history is not recorded when the power-down occurred at the same place and same time.

#### **6.2.2.4 SHUT DOWN**

• The shutdown history is displayed. The last most 8 shutdown histories are displayed with the hour-meter values that indicate the hours when shutdowns occurred. No other layers are nested below this layer, and there are no adjustment items.



#### ■ Key operation

<DOWN> : Shifting to PANEL-1 ADJ (+) <UP> : Shifting to POWER DOWN <L/R> : Updating displayed information

\* When there is detail information when shutdown occurred, the possible defective part is displayed as Sub information.

#### <Cause of shut-down and corresponding OSD Indication >

Cause of shut-dow	n (MAIN)	Cause of shut-down (	SUB)
Item	OSD Indication	Item	OSD Indication
Drive Processing IC	SQ_LSI	Communication Error	RTRY
ů.		Drive Stop	SQ-NON
		Communication Busy	BUSY
		Version mismatching (H/S) (M/S)	VER-HS, VER-MS
MDU-IIC	MD-IIC	MAIN EEPROM Communication Error	EEPROM
WIDO-IIC	IVID-IIC	BACKUP EEPROM Communication Error	BACKUP
		DAC1 Communication Error	DAC1
		DAC2 Communication Error	DAC2
Abnormally in RST2 power supply	RST2	-	-
Panel temperature	TMD NO	High temperature of the panel	TEMP-H
ranei temperature	TMP-NG	Low temperature of the panel	TEMP-L

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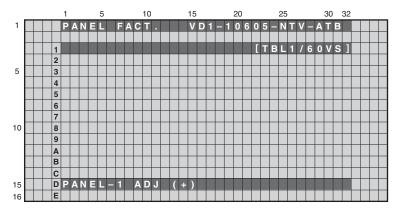
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#### 6.2.2.5 PANEL-1 ADJ (+)

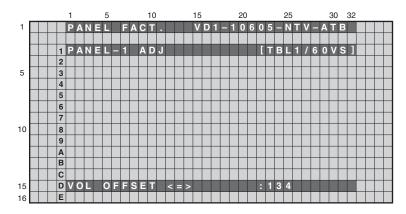
• Timing and voltage for the driving pulse are set. At third line of the screen, the WB (White Balance) table and frequency table indicating operation status are displayed, and at fifteenth line of the screen, the item for the upper nested layer (PANEL-1 ADJ [+]) is displayed. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.



#### ■ Key operation

<DOWN> : Shifting to PANEL-2 ADJ (+) <UP> : Shifting to POWER DOWN <SET> : Shifting to the next nested layer

- When the screen is shifted to the next nested layer below, the item of the layer above is indicated at third line of the screen, and the item of the layer below is indicated at fifteenth line.
- The configuration of the menu screen is the same for any adjustment item that has lower layers.
- To confirm that the change in the SUS FREQ. setting has resulted in diminishing of AM radio interference in this layer, after changing the setting, turn the unit off then back on.



#### ■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<PIGHT> : Adding by one to the adjustment

<RIGHT> : Adding by one to the adjustment/

setting value

<LEFT> : Subtracting by one from the adjustment/setting value

<VOL+> : Adding by 10 to the adjustment/

setting value

<VOL-> : Subtracting by 10 from the

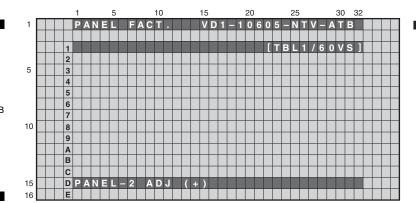
adjustment/setting value

<SET> : Determining the adjustment/setting value and shifting to the upper layer

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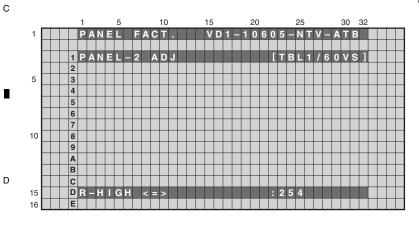
#### 6.2.2.6 PANEL-2 ADJ (+)

• White balance can be adjusted by adjusting R, G, and B gain. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.



#### ■ Key operation

<DOWN> : Shifting to PANEL FUNCTION (+) <UP> : Shifting to PANEL-1 ADJ (+) <SET> : Shifting to the next nested layer



#### ■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment/

setting value

<LEFT> : Subtracting by one from the

adjustment/setting value

<VOL+> : Adding by 10 to the adjustment/

setting value

<VOL-> : Subtracting by 10 from the

adjustment/setting value

<SET> : Determining the adjustment/setting

value and shifting to the upper layer

The ABL/WB adjustment values are grouped into up to four tables, depending on the drive sequences. The adjustment value for the actually driven table is displayed. The number of the adjustment table and the drive sequence currently selected are displayed on the right side of the third line as the On-Screen display.

#### Drive sequence and adjustment table

Sequence Name	Video50	Video60	Video72	Video75	PC60
Adjustment Value Table	TBL2	TBL1	TBL1	TBL3	TBL4

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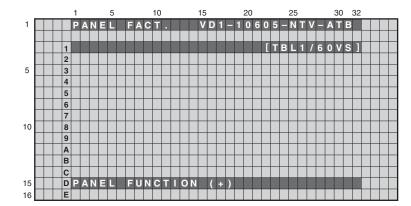
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#### 6.2.2.7 PANEL FUNCTION (+)

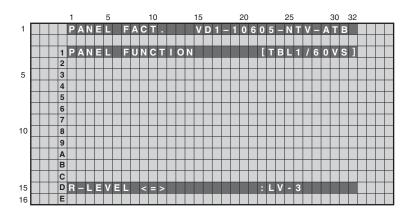
• A setting for panel degradation correction can be made. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.



#### ■ Key operation

<DOWN> : Shifting to ETC.(+)

<UP> : Shifting to PANEL-2 ADJ (+) <SET> : Shifting to the next nested layer



#### ■ Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item <RIGHT> : Adding by one to the adjustment/

setting value

<LEFT> : Subtracting by one from the

adjustment/setting value

<SET> : Determining the adjustment/setting

value and shifting to the upper layer

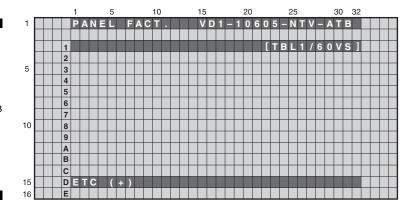
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## 6.2.2.8 ETC. (+)

• The setting about the backup of panel adjusting value and various data on panel operational information can be cleared. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.

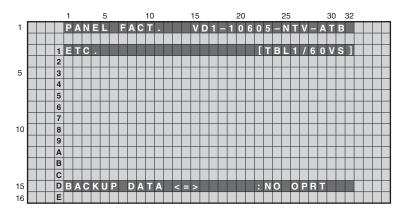


#### ■ Key operation

<DOWN> : Shifting to RASTER MASK SETUP

(+)

<UP> : Shifting to PANEL FUNCTION (+) <SET> : Shifting to the next nested layer



## ■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment/

setting value

<LEFT> : Subtracting by one from the

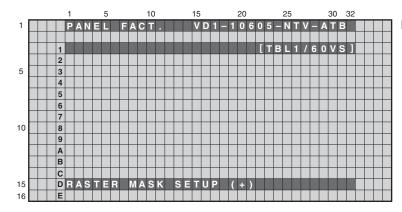
adjustment/setting value

<SET> : Determining the adjustment/setting

value and shifting to the upper layer

## 6.2.2.9 RASTER MASK SETUP (+)

• This menu set the RASTER MASK and the drive sequence at RASTER MASK state. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.

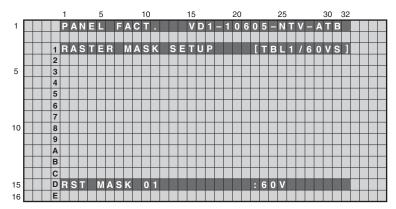


#### ■ Key operation

<DOWN> : Shifting to PATTERN MASK SETUP

<UP> : Shifting to ETC. (+)

<SET> : Shifting to the next nested layer



#### ■ Key operation

<DOWN> : Shifting to the next MASK : Shifting to the previous MASK <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET>

: Determining the adjustment/setting

value and shifting to the upper layer

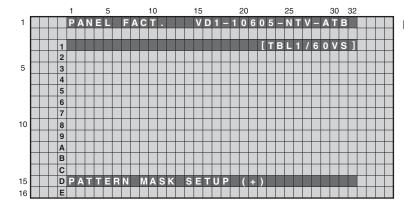
• The MASK indication sequence can be changed among 48V, 50V, 60V, 72V, 75V and 60P using the Right or Left key. The selected sequence and the ABL/WB table are retained until the mask is turned off.

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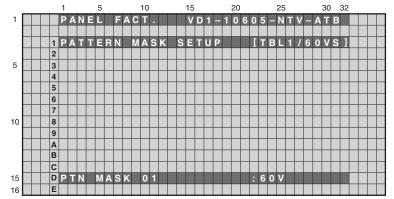
#### 6.2.2.10 PATTERN MASK SETUP (+)

• This menu set the PATTERN MASK and the drive sequence at PATTERN MASK state. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.



## ■ Key operation

<DOWN> : Shifting to COMBI MASK SETUP (+) <UP> : Shifting to RASTER MASK SETUP (+) <SET> : Shifting to the next nested layer



## ■ Key operation

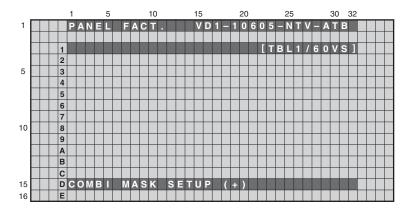
<DOWN> : Shifting to the next MASK
<UP> : Shifting to the previous MASK<RIGHT> : Changing MASK sequence (+)<LEFT> : Changing MASK sequence (-)<SET> : Determining the adjustment/setting value and shifting to the upper layer

• The MASK indication sequence can be changed among 48V, 50V, 60V, 72V, 75V and 60P using the Right or Left key. The selected sequence and the ABL/WB table are retained until the mask is turned off.

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#### 6.2.2.11 COMBI MASK SETUP (+)

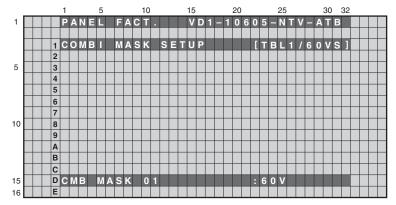
• This menu set the COMBI MASK and the drive sequence at COMBI MASK state. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.



#### ■ Key operation

<DOWN> : Shifting to PANEL INFORMATION : Shifting to PATTERN MASK SETUP <UP> (+)

<SET> : Shifting to the next nested layer



#### ■ Key operation

<DOWN> : Shifting to the next MASK : Shifting to the previous MASK <UP> <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET> : Determining the adjustment/setting

value and shifting to the upper layer

• The MASK indication sequence can be changed among 48V, 50V, 60V, 72V, 75V and 60P using the Right or Left key. The selected sequence and the ABL/WB table are retained until the mask is turned off.

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## **6.2.3 OPTION**

#### Operation item

No.	Function	Content	RS-232C
6.2.3.1	EDID WRITE MODE <=>	DISABLE <=> ENABLE	
6.2.3.2	ANTENNA MODE <=>	CABLE <=> AIR	
6.2.3.3	AFT <=>	OFF <=> ON (Controls AFT action)	
6.2.3.4	SYNC DET (+)	Exclusively used for technical analysis	
6.2.3.5	CC (+)	Exclusively used for technical analysis	

#### 6.2.3.1 EDID WRITE MODE <=>

Exclusively used for production line.

#### 6.2.3.2 ANTENNA MODE <=>

Exclusively used for production line.

#### 6.2.3.3 AFT <=>

Exclusively used for production line.

#### 6.2.3.4 SYNC DET (+)

Exclusively used for technical analysis (details omitted).

## 6.2.3.5 CC (+)

Exclusively used for technical analysis (details omitted).

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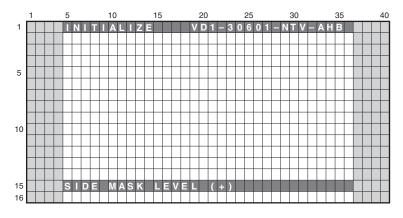
#### 6.2.4 INITIALIZE

#### Operation item

No.	Function	Content	RS-232C
6.2.4.1	SIDE MASK LEVEL (+)	Configure the color of the side mask.	SML
6.2.4.2	FINAL SETUP (+)	Initialize flash memorys on virgin product status	FST
6.2.4.3	HMG/HG SERVICE MODE	Enter HMG/HG SERVICE MODE	
6.2.4.4	Wide XGA AUTO <=>	Exclusively used for technical analsyis.	

**Note:** When there is an altered history due to an open TRAP SW, if the "DISPLAY" key is held for at least 5 seconds on the above menu, the altered history will be cleared and the unit will be back to normal.

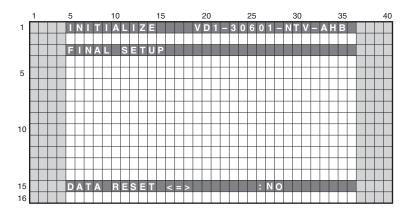
#### 6.2.4.1 SIDE MASK LEVEL (+)



To configure sidemask level (To adjust the values, input signal is required).

Display	Content	RS-232C
SIDE MASK LEVEL <=>	Adjust Side Mask level (Adjustable range: 000 to 255)	SML

#### 6.2.4.2 FINAL SETUP (+)



- To reset each memory values to factory default values. Factory command is "FST".
- When the configuration is set to <NO> and the [ENTER/SET] key is pressed, no action is taken and the menu returns to previous screen.
- When the configuration is set to <YES> and the [ENTER/SET] key is pressed for 5 seconds, the reset action executes.

Be sure to disconnect and connect the AC cable after FINAL SETUP. When replacing the MAIN Assy, the FINAL SETUP is required.

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#### 6.2.4.3 HMG/HG SERVICE MODE

The value of all memorized data are set to shipment status.

If the [ENTER] key is kept on pressing for 5 second when the status of this menu is <YES>, HMG/HG SERVICE mode will be done.

#### For ELITE model

Be sure to do above procedure at input fuction except HMG.

For details, refer to the service manual for the ELITE model.

#### ☐ HG (Home Gallery) SERVICE MODE (Regular model)

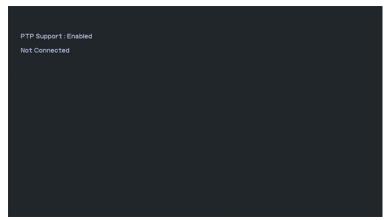
#### 1. Home Gallery Screen

(1) When the USB device is connected

```
PTP Support: Enabled

T: Bus=01Lev=01Prnt=01Port=00 Cnt=01Dev#= 3 Spd=12 MxCh= 0
D: Ver= 1:10 Cls=00(-ifc) Sub=00 Prot=00 MxPS= 8 #Cfgs= 1
P: Vendor=0540 ProdID=0048 Rev= 1:50
S: Manufacturer=36ny
S: Product=36ny PTP
C: # iffs= 1 Cfg#= 1 Atr=c0 MxPwr= 2mA
I: If#= 0 Alt= 0 #EPs= 3 Cls=06(still) Sub=01 Prot=01Driver=(none)
E: Ad=0(0) Atr=02(Bulk) MxPS= 64 IvI=0ms
E: Ad=82(i) Atr=02(Bulk) MxPS= 84 IvI=0ms
E: Ad=83(i) Atr=03(Int.) MXPS= 8 IVI=10ms
```

#### (2) When the USB device is not connected



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#### (3) Each item explanation (Example)

#### 1 PTP Support

-	5 Gabbe		
	Disable	PTP Non-Support	String
	Enable	PTP Support	String

#### ② T (Topology info)

Bus	Bus Number	Decimal
Lev	Level in topology for this bus	Decimal
Prnt	Parent Device Number	Decimal
Port	Connector/Port on Parent for this device	Decimal

Cnt	Count of devices at this level	Decimal
	Device Number	Decimal
Spd	Device Speed in Mbps	Decimal
	Max Children	Decimal

#### 3 D (Device descriptor info)

Ver	Device USB version	Hexadecimal
Cls	Device Class	Hexadecimal
Sub	Device Sub Class	Hexadecimal
Prot	Device Protocol	Hexadecimal
MxPS	Max Packet Size of Default Endpoint	Decimal
#Cfqs	Number Configurations	Decimal

#### 4 P (Product ID info)

Vendor	Vendor ID code	Hexadecimal
ProdID	Product ID code	Hexadecimal
Rev	Product revision number	Hexadecimal

#### **⑤** S (String descriptor info - 1)

Manufacturer	Strina

#### 6 S (String descriptor info - 2)

Product	· · · · · · · · · · · · · · · · · · ·	String

## ② S (String descriptor info - 3)

SerialNumber		String
--------------	--	--------

#### 2. End method

It is the same as the case that Home Gallery displays.

#### 6.2.4.4 Wide XGA AUTO <=>

Exclusively used for technical analysis (details omitted).

**8** C (Configuration descriptor info)

#Ifs	Number of Interfaces	Decimal
#Cfg	Configuration Number	Decimal
Atr	Attributes	Hexadecimal
MxPwr	MaxPower in mA	Decimal

#### 9 I (Interface descriptor info)

If#	Interface Number	Decimal
Alt	Alternate Setting Number	Decimal
#Eps	Number of Endpoints	Decimal
Cls	Interface Class	Hexadecimal(String)
Sub	Interface Sub Class	Hexadecimal
Prot	Interface Protocol Hexadecimal	
Driver	Driver name String	

#### 10 E (Endpoint descriptor info)

#### 11) E (Endpoint descriptor info)

Ad	Endpoint Address (I=In, O=Out)	Hexadecimal(String)
Atr	Attributes	Hexadecimal(String)
MxPS	Endpoint Max Packet Size	Decimal
lvl	Interval (max) between transfers	Decimal

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## 8. EACH SETTING AND ADJUSTMENT



- 1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.
- 2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
- 3. Use a stable AC power supply.

## 8.1 ADJUSTMENT REQUIRED WHEN THE UNIT IS REPAIRED OR REPLACED

## ■ When any of the following assemblies is replaced

POWER SUPPLY Unit	Refer to "8.3 HOW TO CLEAR HISTORY DATA" and "8.6 PRECAUTION ON REPLACEMENT OF THE POWER SUPPLY UNIT".
DIGITAL Assy	Writing of backup data is required. Refer to the "8.2 BACKUP OF THE EEPROM (DIGITAL ASSY)".
X DRIVE Assy	No adjustment required
Y DRIVE Assy	No adjustment required
Service Panel Assy	Refer to "8.3 HOW TO CLEAR HISTORY DATA" and "8.4 ADJUSTMENTS WHEN THE SERVICE PANEL ASSY IS REPLACED".
MAIN Assy (*)	No adjustment required
PANEL SENSOR Assy	Writing of backup data is required. Refer to the "8.2 BACKUP OF THE EEPROM (DIGITAL ASSY)".
Other assemblies	No adjustment required

#### Note: Checking the Cable Card ID

The PDP has a slot for a cable card that is used for managing your information by the cable TV company. The following procedure allows you to check your Cable Card ID and the Host ID.

- 1. Press HOME MENU.
- 2. Select "Tuner Setup". (♠/♦ then ENTER)
- 3. Select "Channel Setup". ( ←/ → then ENTER)
- 4. Select "POD ID". (♠/♦)
  - The Host ID and Cable Card ID appear.
- 5. Press HOME MENU to exit the menu.

(\*): When replacing the MAIN Assy, be sure to perform the FINAL SETUP.

#### Notes on replacing parts

For the parts described in the list below, replacement is required for the whole Assy, not only the defective part. If any part listed below is identified as defective and needs replacement, replace the whole Assy, and make necessary adjustments after replacement.

**Reason:** The whole Assy must be replaced, because adjustments and data rewriting for the Assy at the level of production line are required.

DOD 4 N		Parts that Require Whole-Assy Replacement		
PCB Assy No.	Assy Name	Ref No.	Function Name	Part No.
		IC4601	AV switch	R2S11006FT
		IC4701	RGB switch	R2S11001FT
		IC4703	EEPROM	BR24L01AFJ-W
		IC4801	MAIN VDEC	CM0048BF
AWV2457	MAIN Assy	IC5001	A/D Converter	AD9985KSTZ-110
		IC5102	EEPROM	BR24L02FV-W
		IC5103	EEPROM	BR24L02FV-W
		IC5104	EEPROM	BR24L02FV-W
		IC5203	EEPROM	BR24L02FV-W
		IC6401	SYSTEM IC	BCM7038KPB1G-B2
		IC6602	DDR SDRAM	K4H561638H-UCB3
		IC6603	DDR SDRAM	K4H561638H-UCB3
		IC6604	DDR SDRAM	K4H561638H-UCB3
		IC6605	DDR SDRAM	K4H561638H-UCB3
		IC6902	Flash ROM	AGC1057
		IC8204	Flash ROM	AGC1049
		IC8301	Flash UCOM	AGC1037
		IC8602	Flash ROM	AGC1039
AWV2505	60F X DRIVE Assy	Parts of X D-D CON BLOCK		
AWV2506	60F Y DRIVE Assy	Parts of Y MAIN D-D CON BLOCK 1     Parts of Y MAIN D-D CON BLOCK 2		

	POWER SUPPLY Unit	<b>→</b>	The assembly must be replaced as a unit, and no part replacement is allowed.
	MAIN Assy	<b>=</b>	No adjustment is required after replacement of parts other than those mentioned above.
E	DIGITAL Assy	<b>=</b>	No adjustment is required after replacement of parts other than those mentioned above.
	X DRIVE Assy	<b>→</b>	No adjustment is required after replacement of parts other than those shown in "8.5 ADJUSTMENTS WHEN THE DRIVE ASSYS ARE REPLACED.
	Y DRIVE Assy	<b>→</b>	No adjustment is required after replacement of parts other than those shown in "8.5 ADJUSTMENTS WHEN THE DRIVE ASSYS ARE REPLACED.
	ADDRESS Assy	<b>=</b>	No adjustment required
F	PANEL SENSOR Assy	$\Rightarrow$	No adjustment is required after replacement of parts other than those mentioned above.
	TANSHI Assy	$\rightarrow$	No adjustment required
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## 8.2 BACKUP OF THE EEPROM (DIGITAL ASSY)

#### Outline

Adjustment data are stored in the EEPROM (4K) on the DIGITAL Assy in the production process. Those adjustment data are also automatically stored in the EEPROM (for backup) on the PANEL SENSOR Assy.

If the DIGITAL Assy is replaced, those adjustment data for backup can be copied from the EEPROM on the PANEL SENSOR Assy to a new DIGITAL Assy.

## ■ Backed up data

- Drive voltage adjustment value
- Hour-meter count
- Pulse-meter count
- Panel white balance adjustment value

- · Serial No.
- Drive waveform adjustment value
- P-ON counter value
- PD/SD histories

## ■ How to copy backup data

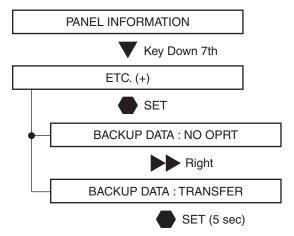
#### 1. When the DIGITAL Assy is replaced with one for service (usual service)

Adjustment data can be restored by copying the data backed up in the PANEL SENSOR Assy to the EEPROM on a new DIGITAL Assy.

The EEPROM on the new DIGITAL Assy has no adjustment data, and the EEPROM for backup in the PANEL SENSOR Assy has adjustment data. After replacing the DIGITAL Assy, enter PANEL FACT. mode, display the PANEL INFORMATION page, then check if "NO DATA!" is set for "DIG. EEP" and "ADJUSTED" is set for "BACKUP". Then, proceed in the following steps:

#### (1) Copying, using the Factory menu

- ① Plug in the AC cord, press the Power switch on the unit to set it to ON, then enter Standby mode.
- ② Turn on the power, using the remote control unit, then enter Panel Factory mode. Copy the backup data, as shown in the figure below.



- 3 Turn the power off.
- After the DIGITAL Assy is replaced with one for service, be sure to check if "NO DATA!" is set for "DIG. EEP" on the PANEL INFORMATION page of the PANEL FACT. mode.
- If copying of the backup data fails in the above procedure, the red LED lights, and the blue LED flashes, as a warning that no backup data were copied.
- If both the DIGITAL and PANEL SENSOR Assys are to be replaced, first replace the PANEL SENSOR Assy, turn the unit on and back off again, then replace the DIGITAL Assy.

#### (2) Copying, using the RS-232C commands

- ① Turn on the unit, using the remote control unit or by issuing the PON command. Then issue the FAY command.
- ② Issue the BCP command to transfer the data stored in the EEPROM for backup.
- 3 Turn the power off.

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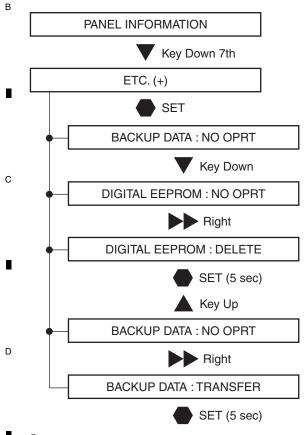
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# 2. When a secondhand DIGITAL Assy that had been mounted in another product is to be reused

As adjustment data for another product are already stored in the secondhand DIGITAL Assy, first delete those data then copy the backup data stored in the EEPROM on the PANEL SENSOR Assy.

#### (1) Copying, using the Factory menu

- ① Plug in the AC cord, press the Power switch on the unit to set it to ON, then enter Standby mode.
- ② Turn on the power, using the remote control unit, then enter Panel Factory mode. Copy the backup data, as shown in the figure below.



#### 3 Turn the power off.

#### Note:

If the secondhand DIGITAL Assy is mounted in the product then the unit is turned on then back off again, the data in the EEPROM on the DIGITAL Assy are copied over the EEPROM in the PANEL SENSOR Assy. Thus the backup data can never be restored. During the first power-on after the DIGITAL Assy is replaced, be sure to enter Factory mode to copy the backup data. Or, before removing the secondhand DIGITAL Assy from the original product, delete the adjustment data on it, using the Factory mode (DIGITAL EEPROM: DELETE), mount it to the product to be repaired, then copy the data from the backup EEPROM.

#### (2) Copying, using the RS-232C commands

- ① Turn on the unit, using the remote control unit or by issuing the PON command. Then issue the FAY command.
  - ② Issue the UAJ command to delete data stored in the EEPROM on the DIGITAL Assy.
  - ③ Issue the BCP command to transfer the data stored in the EEPROM for backup.
  - 4 Turn the power off.

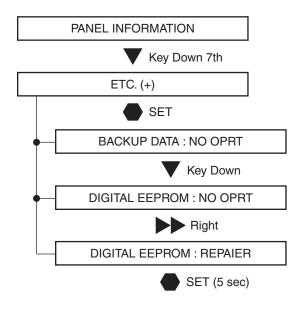
124

3. In a case where normal backup data are not stored in the backup EEPROM because the EEPROM on the DIGITAL Assy is defective, etc., and where manually adjusted values are to be applied to the product

**Note:** In this section, it is assumed that settings for various items have been completed, using Factory menu or RS-232C commands.

#### (1) Method using the Factory menu

- ① Set various setting/adjustment values.
- ② Proceed in the following steps.



3 Turn the power off.

#### Note:

When a DIGITAL Assy with an EEPROM in which adjustment data are stored is mounted, this step is not required after manual adjustment. ("DIGITAL EEPROM: REPAIR" is not indicated.)

**(2) Method using the RS-232C commands** Issue the FAJ command.

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## 8.3 HOW TO CLEAR HISTORY DATA

## Clearance of various logs after the Assys are replaced

Besides adjustment data, data on accumulated power-on time and logs on defective parts of the product are backed up. Some of those data must be cleared after the Assys are replaced for service.

#### (1) Clearance of logs, using the RS-232C commands

Item	Content	When the Panel is replaced	When the POWER SUPPLY Unit is replaced	When the Other parts is replaced	RS-232C Commands
Hour-meter	Accumulated power-on time	Must be cleared	No need to be cleared	No need to be cleared	СНМ
Pulse-meter	Accumulated number of pulses emitted	Must be cleared (mandatory)	No need to be cleared	No need to be cleared	СРМ
Shutdown history	Cause of an SD and hour-meter count	Must be cleared	No need to be cleared	No need to be cleared	CSD
Power-down history	Cause of an PD and hour-meter count	Must be cleared	No need to be cleared	No need to be cleared	CPD
Power-on counter	Relay-on count	No need to be cleared	Must be cleared (mandatory)	No need to be cleared	CPC
MAX TEMP	Historical max. temperature	Must be cleared	Must be cleared	Must be cleared	CMT

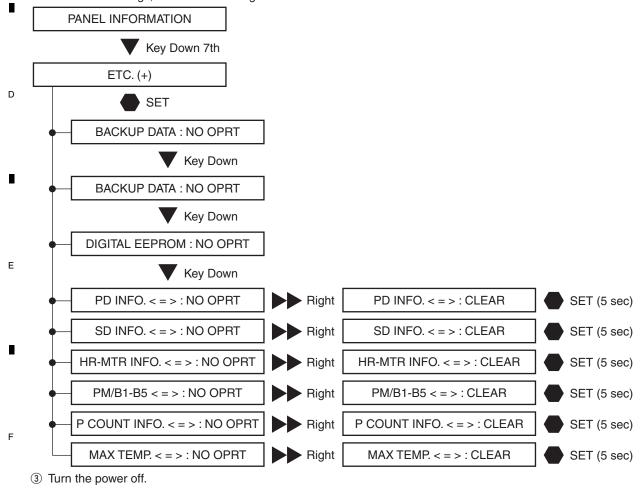
**Notes:** • As the pulse-meter count is used for each correction function, it must be cleared when an Assy relevant to correction functions is replaced.

• When clearing logs, using the RS-232C commands, first enter Factory mode (by issuing FAY or PFY), then issue the corresponding command.

#### (2) Clearance of logs, using the Factory menu

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- ① Plug in the AC cord, press the Power switch on the unit to set it to ON, then enter Standby mode.
- ② Turn on the power, using the remote control unit, then enter Panel Factory mode. Delete various logs, as shown in the figure below.



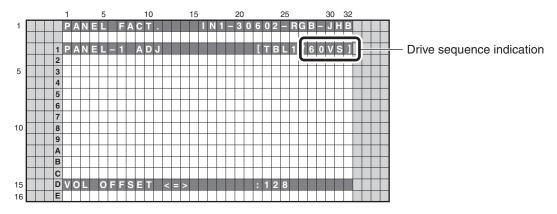
## 8.4 ADJUSTMENT WHEN THE SERVICE PANEL ASSY IS REPLACED

After the panel is replaced with one for service, voltage margin adjustment is required.

#### [Preparation]

Basically, voltage margin adjustment is performed using the Panel Factory menu. After the panel is replaced and the unit is turned on, clear the pulse meter first. For details on how to clear the pulse meter, see "8.3 HOW TO CLEAR HISTORY DATA".

- \*1: As various corrections are made referring to the pulse-meter count to calculate how long the panel has been used, if adjustment of the panel for service is performed without clearing the pulse-meter count, proper adjustments will not be performed.
- \*2: The drive sequence for 60-Hz video is used for adjustment. When adjustment is made using the Panel Factory menu, the current drive sequence is displayed on the screen, as shown in the figure below. Make sure that 60VS is always indicated during adjustment.



Example of the On-Screen display during Panel Factory mode

#### [Supplement]

In the "PANEL-1ADJ" layer, the Panel White Balance value is reset to default, Panel Gamma is set to Straight, Noise is set to OFF, LUT mode is set to ON and Reset active control is set to OFF.

In this case, "- - - - /\*\*\*\*" (\*\*\*\* represents the current drive sequence) is displayed on the third line of the On-Screen display during Panel Factory mode.

If adjustment is performed using RS-232C commands, the following commands must be transmitted for preparation:

[PAV S00] : To set panel drive mode to Factory
[VFQ S03] : To set Drive Sequence to Video 60-Hz

[WBI S01] : To temporarily reset the Panel WB adjustment value to default (WBI S00 cancels this setting.)

[PGR S00]: To set the gamma R value to that for Factory mode[PGG S00]: To set the gamma G value to that for Factory mode[PGB S00]: To set the gamma B value to that for Factory mode

[DIZ \$03] : Dither ON, L dither ON, noise OFF.

[\$180000001] : LUT mode ON

[\$1000003F00] : Reset active control OFF.

\*: If the unit is shut down during the above adjustment flow, resend the above commands from the beginning.

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