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## **RS-232 Command Reference Manual** For **PIONEER PDP-505CMX** Plasma Display Panel

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Product specifications and functions subject to change. Please check with your authorized Pioneer dealer or distributor.

This display panel has an RS-232C terminal. It is possible to use a PC to make adjustments and settings.

#### 1.1 About the RS-232C Adjustment Mode

1) Adjustments in the RS-232C adjustment mode:

• The adjustments are written to the same memory area as for the integrator mode. Refer to section 5.4.4, "PICTURE, White Balance and SCREEN Position Adjustment Values Memory Area Tables" (pg. 211).

#### 2) Display screen in the RS-232C adjustment mode:

• The screen appears as shown to the right. The set ID is display in the '--' area in the upper left corner of the screen.

	1280X1024@60Hz
ADJUSTMENT	

#### Notes

- Always assign an ID before using the RS-232C adjustment mode. Also, include the ID for the set to be controlled or adjusted in the RS-232C command. For details, refer to section 5.5.2, "Interface" (pg. 217).
- (2) There are some RS-232C commands that can be used in the normal-operation mode. For details refer to section, 5.5.5, "List of RS-232C Commands" (pg. 221).
- (3) Some adjustment values and items set by RS-232C commands are stored in memory while other values sand settings are not. For details, refer to section 5.5.5, "List of RS-232C Commands" (pg. 221). Also, when storing final values in memory, the conditions described in section 5.1.5, "Last Memory" (pg. 152), must be satisfied.
- (4) <DIN>/<DIY> (OSD display disable/enable setting)

The following items can be displayed regardless of the setting:

- Menu display (menu mode, integrator mode)
- Warnings before Auto Power OFF or Power Management operation
- Warning of high temperature inside the set
- Display announcing that the FUNCTIONAL LOCK is set, and the FUNCTIONAL LOCK setting display
- Display call (including holding a button down)
- (5) The RS-232C adjustment mode is automatically cancelled in the following cases:
   When the [STANDBY/ON] or [MENU] button is pressed
- (6) Cancel the Integrator mode before entering the RS-232C adjustment mode.
- (6) When controling the panel using RS-232C commands, control both the input signal and the power. If the power is ON when there is no signal, the display continues to have a weak discharge. A discharge could affect the life of the display.

#### 1.2 Interface

- 1) Connector
  - D-sub 9 pins (male)

#### 2) Pin layout

Pin No.	Signal	Pin No.	Signal
1	NC (not connected)	6	NC (not connected)
2	TxD (Transmit Data)	7	NC (not connected)
3	RxD (Receive Data)	8	RTS (Request To Send)
4	NC (not connected)	9	NC (not connected)
5	GND		



3) Baud Rate

9600 bps (standard) (switch-able to 1200, 2400, 4800, 19200, 38400 bps)

#### Note

The panel's baud rate should be set to match the computer's baud rate. Also, when extending the RS-232C cable over a long distance, lower the baud rate.

4) Data format

Start: 1 bit Data: 8 bit Parity: 0 (no parity) Stop: 1 bit

5) Connection



STX (02 hex)	ID (2 Byte)	COMMAND (3 Byte or 6 Byte)	ETX (03 hex)

(2) When numerical direct commands are possible:

STX (02 hex)	ID (2 Byte)	COMMAND (3 Byte)	ARGUMENT (3 Byte)	ETX (03 hex)
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COMMAND: 3 Byte (ASCII) ARGUMERNT: 3 Byte (ASCII)

(3) Echo back

STX (02 hex)	COMMAND (3 Byte or 6 Byte)	ETX (03 hex)

When the received command is a numerical direct effect command, numerical data is returned.

When the received command is invalid, 'ERR' is returned.

STX (02 hex)	ERR (3 Byte)	ETX (03 hex)

When the received command cannot be processed (when PON is received, when the power is already ON, etc.), 'XXX' is returned.

STX (02 hex)	XXX (3 Byte)	ETX (03 hex)
	. , .	

#### 1.3 ID Assignment

After connecting to a computer, the PC can assign an ID for each plasma display panel.

Commands: <IDC> (ID CLEAR) ...... Clears the assigned ID

<IDS> (ID SET) ..... Assigns an ID

IDS is only effective when an ID is not assigned.

Also, IDs are set starting from the set closest to the PC.

Example: Case of 4 displays (assigning IDs with the PC for the first time)

#### Connect each unit as shown below.

Refer to section 5.5.4, "Combination Connection" (pg. 219).



By sending RS-232C commands in this order, it is possible to assign an ID for each unit.

Units for which an ID has been set can only receive commands with an ID attached. Attach an ID before sending a command.

ID characters can include 0 - 9 and A - F (there is no distinction between upper and lower case letters).

An \* (asterisk) can be used as follows:

<\*\*IDC>: Clear the IDs assigned for all sets

<\*1AJY>: Only a set with the second digit as 1 enters the RS-232C adjustment mode

<2\*IN1>: Only input of a set with the first digit as 2 is set to INPUT1

#### Precautions when assigning IDs

Units that were connected after a set whose ID was cleared cannot be operated with RS-232C commands. After assigning a setting as shown in the figure above and <\*\*AJY>  $\rightarrow$  <\*IDC> is performed, the IDs for all the sets from Set #1 to Set #4 are cleared. Only the one set (Set #1) that is directly connected to the PC can be controlled. Furthermore, by performing <\*\* AJY>  $\rightarrow$  <01 IDS>, it again becomes possible to control the second set (Set #2). By setting IDs in the same way for the other sets, it again becomes possible to control the sets connected in succession.

#### Note

When the IDs are set and one or both of the IDs before a command are sent from the PC as a \*, there is no echo back. When sending more commands, wait 6 seconds before sending the next command.

Example) When \*\*OOO and \*1000 or 1\*OOO (OOO is the command) are sent from the PC, operation is performed but there is no echo back.

#### **1.4 Combination Connection**

When performing control and adjustment, it is easiest to connect several panels to one PC.

By performing a combination connection and assigning IDs to the displays, it is possible to control and adjust several panels at the same time or separately.

#### **Connection method:**

Connect the panels as shown below. Control and adjust the units with the PC.



#### Note

Only the combination IN terminal or RS-232C terminal can be used at the same time on one panel. Connecting them at the same time could cause errors or cause other problems so do not connect them at the same time. Also, do not connect pairs of combination IN terminals or combination OUT terminals. Doing so could cause errors or other problems.

It is possible to use a general-purpose mini DIN 6-pin (straight) cable for the combination cable.

### Note

To output RS-232C signals from the combination OUT terminal, an ID must be assigned. For details, refer to section, 5.5.3, "ID Assignment" (pg. 218).

Under the connection conditions shown below, up to 16 panels can be controlled and operated.

Conditions: ① Length of RS-232C cable connecting PC to PDP-505CMX/PDP-50MXE10/PDP-50MXE11/PDP-504CMX/

- PDP-50MXE1/PDP-50MXE1-S/PDP-434CMX/PDP-43MXE1/PDP-43MXE1-S: 5 m
- 2 Combination cable length: 5 m each
- ③ Wire specifications for linking cable: Mini Din 6-pin straight (7 strand cable)





#### Note

For details about the number of displays that can be connected in series using the video OUT terminal (INPUT1, 4), refer to section 2.3, "Controls and Connectors" (pg. 16).

#### 1.5 List of RS-232C Commands

#### How to read this Table

- RS-232C adjustment validity : Indicates whether the RS-232C adjustment mode can be used
- Normal validityNumerical direct validity

: Indicates whether the normal-operation mode can be used : With a 3-digit number attached to the end of a command, the

command directly sets that adjustment value

● O or ●: Valid, No mark: Invalid

(NOTE)  ${ullet}$  values are not stored in the last memory.

Command name	AJY (232C integrator) Display	Remarks	RS-232C Adjustment Validity	Normal Validity	Numerical Direct Validity
[A]	1	-			
AJN	-	Terminates the 232C integrator adjustment mode.			
AJY	ADJUST: ON	Starts the 232C integrator adjustment mode.			
AMN	AUDIO MUTING: OFF	Turns OFF the audio mute.			
AMY	AUDIO MUTING: ON	Turns ON the audio mute.		•	1
AST	AUTO SET UP	Executes AUTO SETUP.		0	1
[B]	L		I	1	
BHI	B HIGH: ***	Adjusts B. HIGH.	0		0
BLW	B LOW: ***	Adjusts B. LOW.	0		0
BRA	BAUD RATE: #####-232C	Displays the current baud rate.			1
BRAS01	BAUD RATE: 1200-232C	Sets the UART setting to 232C (1200BPS).			
BRAS02	BAUD RATE: 2400-232C	Sets the UART setting to 232C (2400BPS).			
BRAS03	BAUD RATE: 4800-232C	Sets the UART setting to 232C (4800BPS).			
BRAS04	BAUD RATE: 9600-232C	Sets the UART setting to 232C (9600BPS).			
BRAS05	BAUD RATE: 19200-232C	Sets the UART setting to 232C (19200BPS).			
BRAS06		Sets the UART setting to 232C (38400BPS).			
BRT	L	Adjusts the brightness.	-		
	L	Adjusts the BLUE side mask.	-		
[C]		.,			1
CFR	CLOCK: ***	Adjusts the CLOCK (PLL frequency).	0		0
CGB	COLOR DETAIL BLUE: ***	Adjusts color detail BLUE.	0		0
CGC	COLOR DETAIL CYAN: ***	Adjusts color detail CIAN	0		0
CGG	COLOR DETAIL GREEN: ***	Adjusts color detail GREEN	0		0
CGM	COLOR DETAIL MAGENTA: ***	Adjusts color detail MAGENTA	0		0
CGB	COLOR DETAIL RED: ***	Adjusts color detail RED	0		
CGY	COLOR DETAIL YELLOW: ***	Adjusts color detail YELLOW	0		
	COLOB SYSTEM: #####	Displays the current color system			
		Sets the color system to ALITO			
		Sets the color system to NTSC	-		
		Sate the color system to PAL	-		
		Sets the color system to SECAM	-		
		Sets the color system to 4 43NTSC	-		
			-		
CL3307		Sets the color system to FAL N.		0	
CM2		Sets the color mode to STUDIO		0	
CIVIZ		Adjusts the CONTRAST			+
		Adjusts the contrast.			+
COFSON		Displays the current COLOR OFF setting.			
COL					+
COL					+
		Aujusts the PHASE (PLL phase).			+
		Displays the current COLOR TEMP.			
		Sets the COLOR IEMP. to LOW.			
CIPS02	COLOR TEMP.: MID LOW	Sets the COLOR IEMP. to MID LOW.			
CTPS03	COLOR TEMP.: MIDDLE	Sets the COLOR TEMP. to MIDDLE.			
CTPS04		Sets the COLOR TEMP. to MID HIGH.	_		L
CTPS05	I COLOR TEMP.: HIGH	Sets the COLOR TEMP, to HIGH.			

CIT         End #         Displays the current CTI saturing.         Image: CTIRS00         CIT. OFF         O           CTRES01         CIT. OFF         Sets CTI to ON         O         Image: CTIL STITE Sets CTIL TO ON         O         Image: CTIL STITE Sets CTIL TO ON         O         Image: CTIL STITE Sets SETS CTIL STITE SETS CTIL STITE SETS CTIL STITE SETS CTIL STITE SETS SETS CTIL STITE SETS SETS SETS SETS SETS SETS SET	Command name	AJY (232C integrator) Display	Remarks	RS-232C Adjustment Validity	Normal Validity	Numerical Direct Validity
CITRSO0         CTI: DFF         Sens CTI to OFF         O         Image: CTI to ON           CITRSO1         CTI: DN         Sens CTI to ON         O         O           DIN         Turns OFF she OSD display.         O         O         O           DIN         OSD. ON         Turns ON the OSD display.         O         O         O           DNR         DNR. OFF         Sens digital NR to INR         O         O         O           DNRS00         DNR. Field         Sens digital NR to INR         O         O         O           DNRS10         DNR. Field         Sens digital NR to INR         O         O         O           DNRS10         DNR. Field         Sens digital NR to INR         O         O         O           DNR 0FF         Cover and digital NR to INR         O         O         O         O           DNR 0FF         Reduces the adjustment value by 1n         O         O         O         O           DWN         #         Reduces the adjustment value by 1n         10         O         O           DWN         #         Reduces the adjustment value to the minimum value.         O         O           DIS01         DV1 SELECTIPC         Sets the DN SELECT setting DVD	CTR	CTI: ###	Displays the current CTI setting.	•		
CITESO1         CTI: ON         See CTI to ON.         O         Image: CTI: ON           DI         Turns OFF the OSD display.         O         O         O           DNR         DMR: 2007.00         Turns ON the OSD display.         O         O         O           DNR         DMR: 5000.00         Turns ON the OSD display.         O         O         D           DNRS: DMR: CMP         Sea digital NR to ON.         O         C         C         C           DNRS: DMR: FIGH         Sea digital NR to INDLE.         O         C         C         C           DNRS: DMR: FIGH         Sea digital NR to INDLE.         O         O         C         C         C           DNRS: DMR: FIGH         Reduces the adjustment value by 10.         O	CTRS00	CTI: OFF	Sets CTI to OFF.	0		
IDI         Turns OFF the OSD display.         O         O           DY         OSD-ON         Turns ON the OSD display.         O         O           DNR         DRR #####         Displays the current DNR setting.         O         O           DNRSOD         DNR: OFF         Sets digital NR to DNR.         O         O           DNRSOT         DNR: MIDDLE         Sets digital NR to MIDDLE.         O         O           DNRSOT         DNR: MIDDLE         Sets digital NR to MIDLE.         O         O           DNRSOT         DNR: MIDDLE         Sets digital NR to MIDLE.         O         O           DNRSOT         DNR: MIDDLE         Sets digital NR to MIDLE.         O         O           DVR         -         Clears the currentry displayed OSD display.         O         O           DVR         -         Resets the adjustment value by 1n         O         O         O           DVWN         #         Reduces the adjustment value by 1n         O         O         O           DVR         #         Sets the DVI SELECT setting to VIDEO.         O         I         E           DSS01         DVI SELECTRE         Settine the NRERGY SAVE setting on MODO.         O         O           ENHARY	CTRS01	CTI: ON	Sets CTI to ON.	0		
DN         Construct         Tume OFF the OSD display.         O         O           DNY         OSD. ON         Tumes Off the OSD display.         O         O           DNR         DNR. CFF         Sent digital NR to DNR.         O         Image: CFF           DNRSD0         DNR. COW         Sent digital NR to DNR.         O         Image: CFF           DNRSD2         DNR. HIGH         Sent digital NR to HIGH.         O         Image: CFF           DNRSD2         DNR. HIGH         Sent digital NR to HIGH.         O         O           DNRSD2         DNR. HIGH         Sent digital NR to HIGH.         O         O           DOF         -         Clears the currently displayed OSD display.         O         O           DVM         #         Reduces the adjustment value to 10.         O         O           DWM         #         Reduces the adjustment value to 10.         O         O           DWF         #         Reduces the adjustment value to 10.         O         O           DWF         #         Reduces the adjustment value to 10.         O         O           DWF         #         Reduces the adjustment value to 10.         O         O           DWF         #         Reduces the	[D]					
DIV         OSD: ON         Turns ON the OSD display.         O         O           DNR         DDRR: #####         Displays the current DNR soting.         O         Image: Construction of the current DNR soting.         O           DNRS00         DNR: OFF         Sets digital NR to ON.         O         Image: Construction of the current DNR soting.         O           DNRS01         DNR: MIDDLE         Sets digital NR to MIDDLE.         O         Image: Construction of the current DNR soting.         O           DNRS03         DNR: HIGH         Sets digital NR to MIDLE.         O         O         O           DNRS03         DNR: HIGH         Sets digital NR to MIDLE.         O         O         O           DVR         PR         Resets the solit image repeat function.         O         O         O           DWM         #         Reduces the digitament value to the minimum value.         O         O         O           DWN         #         Sets the DVI SELECT setting to VED.         O         O         O           DWN         #         Resets the NERGY SAVE setting to VED.         O         O         O           EDIS01         DVI SELECT PC         Sets the DVI SELECT setting to VED.         O         O         O           ENH </td <td>DIN</td> <td></td> <td>Turns OFF the OSD display.</td> <td>0</td> <td>0</td> <td></td>	DIN		Turns OFF the OSD display.	0	0	
DNR         DNR: 0FF         Displays the current DNR setting.         Image: Non-Setting the constraint of the setting.         Image: Non-Setting the current DNR setting to PC.         Image: Non-Setting to PC.         Image: Non-Seting to PC.         Image:	DIY	OSD: ON	Turns ON the OSD display.	0	0	
ENRSO         DNR: DOW         Sets digital NR to DAI.         O           DNRSOZ         DNR: LOW         Sets digital NR to LOW         O           DNRSOZ         DNR: MIDDLE         Sets digital NR to MIDDLE.         O           DNRSOZ         DNR: MIDDLE         Sets digital NR to MIDDLE.         O           DNRSOZ         DNR: MIGDLE         Sets digital NR to MIDDLE.         O           DOP         —         Clores the currently displayed OSD display.         O         O           DVR         PR         Rescues the adjustment value by 10.         O         O           DWN         #         Reduces the adjustment value by 10.         O         O           DWN         #         Reduces the adjustment value by 10.         O         O           DWN         #         Reduces the adjustment value by 10.         O         O           DWN         #         Reduces the adjustment value by 10.         O         O           DWN         #         Reduces the adjustment value to the minimum value.         O         O           EIST         DVI SELECT+PC         Sets the DVI SELECT setting to PC.         O         O           ENH         H. ENHANCE:         O         O         O <td< td=""><td>DNR</td><td>DNR: ######</td><td>Displays the current DNR setting.</td><td>•</td><td></td><td></td></td<>	DNR	DNR: ######	Displays the current DNR setting.	•		
ENREG1         DNR: LOW         Sets digital NR to LOW.         O           DNRS02         DNR: MIDDLE         O         O           DNRS03         DNR: HIGH         Sets digital NR to MIDDLE.         O           DOR	DNRS00	DNR: OFF	Sets digital NR to ON.	0		
ENREG2         DNR. MIDDLE         Seis digital NR to MIDDLE.         O           DNRS02         DNR. HIGH         Seis digital NR to MIDLE.         O         O           DOF         -         Clears the currently displayed OSD display.         O         O           DPR         DPR         Reduces the adjustment value by 10.         O         O           DW0         #         Reduces the adjustment value by 10.         O         O           DW1         #         Reduces the adjustment value by 10.         O         O           DW1         #         Reduces the adjustment value by 10.         O         O           DW1         #         Reduces the adjustment value by 10.         O         O           DWF         #         Beats the DWI SELECT setting to VIDEO.         O         E           EB         E         Display the current ENREGY SAVE setting.         O         O           ENH         H. ENHANCE: ***         Adjusts Y ENHANCE.         O         O         O           ESV         ENRERGY SAVE: STANDARD         Sate the ENREGY SAVE setting to MODE 1 lenargy sening L         O         E           ESVS00         ENRERGY SAVE: MODE3         Sets the ENREGY SAVE setting to MODE 3 lenargy sening L         O         E	DNRS01	DNR: LOW	Sets digital NR to LOW.	0		
DNRS03         DNR: HIGH         Sets digital NT b HIGH.         O         O           DOF	DNRS02	DNR: MIDDLE	Sets digital NR to MIDDLE.	0		
DOF         -         Clears the currently displayed OSD display.         O         O           DPR         DPR         Reduces the still image repeat function.         O         O           DW0         #         Reduces the adjustment value by in n = 1 to 91.         O         O           DWF         #         Sets the adjustment value by in n = 1 to 91.         O         O           DWF         #         Sets the adjustment value by in n = 1 to 91.         O         O           DWF         #         Sets the adjustment value by in n = 1 to 91.         O         O           EDIS01         DVI SELECT.PC         Sets the DVI SELECT setting to PC.         O         O           EDIS02         DVI SELECT.WDEO         Sets the DVI SELECT setting to VDEO.         O         O           ENR RY SAVE.EXTVDEO         Sets the ENREGY SAVE setting to STANDARD.         O         O         O           ESV         ENREGY SAVE.STANDARD         Sets the ENREGY SAVE setting to MODE 1 denegy savingl.         O         ESVS00         ENREGY SAVE.MODE3         Sets the ENREGY SAVE setting to MODE 1 denegy savingl.         O         ESVS03         ENREGY SAVE.MODE3         Sets the ENREGY SAVE setting to AUTO.         O         ESVS04         ENREGY SAVE.MODE3         Sets the ENREGY SAVE setting to AUTO.         O <t< td=""><td>DNRS03</td><td>DNR: HIGH</td><td>Sets digital NR to HIGH.</td><td>0</td><td> </td><td></td></t<>	DNRS03	DNR: HIGH	Sets digital NR to HIGH.	0		
DPR         DPR         Results the still image repeat function.         O         O           DW0         #         Reduces the adjustment value by 10.         O         O           DW0         #         Reduces the adjustment value by 10.         O         O           DWF         #         Sets the adjustment value to the minimum value.         O         O           DWF         #         Sets the DVI SELECT setting to PC.         O         O           EDIS01         DVI SELECT:VDEO         Sets the DVI SELECT setting to VDEO.         O         O           ENH         H. ENHANCE:         O         O         O         O           ESV0         ENERGY SAVE: STANDARD         Sets the ENERGY SAVE setting.         •         E           ESVS01         ENERGY SAVE: MODE1         Sets the ENERGY SAVE setting to STANDARD.         O         E           ESVS02         ENERGY SAVE: MODE1         Sets the ENERGY SAVE setting to AUTO.         O         E           ESVS031         ENERGY SAVE: MODE2         Sets the ENERGY SAVE setting to AUTO.         O         E           ESVS04         ENERGY SAVE: AUTO         Sets the fan pm control to AUTO.         O         E           FCLS01         BUTTONSERUEX.         Displays the current VENCTIONAL LOC	DOF	-	Clears the currently displayed OSD display.	0	0	
DW0         #         Reduces the adjustment value by 10.         O         O           DWn         #         Reduces the adjustment value by 6 (n = 1 to 9).         O         O           DWF         #         Stats the adjustment value by 6 (n = 1 to 9).         O         O           EDIS01         DVI SELECT.PC         Sets the DVI SELECT setting to VDEO.         O         O           EDIS02         DVI SELECT.VIDEO         Sets the DVI SELECT setting to VDEO.         O         O           ENH         H. ENHANCE: ***         Adjusts HENHANCE.         O         O           ESV         ENERGY SAVE: STANDARD         Sets the ENERGY SAVE setting to STANDARD.         O           ESVS00         ENERGY SAVE: MODE1         Sets the ENERGY SAVE setting to MODE1 (nergy saving).         O           ESVS03         ENERGY SAVE: MODE2         Sets the ENERGY SAVE setting to MODE1 (nergy saving).         O           ESVS03         ENERGY SAVE: MODE3         Sets the ENERGY SAVE setting to AUTO.         O           FCL         #########         Displays the current FUNCTIONAL LOCK setting.         O           FCLS00         LOCK OFF         Clears the functional parter built on control.         O           FCLS03         BUTTONS LOCK         Inhibits theman-control parter builton control.         O<	DPR	DPR	Resets the still image repeat function.	0	0	
DWn     #     Reduces the adjustment value by n (n = 1 to 9).     O     O       DWF     #     Sets the adjustment value to the minimum value.     O     O       EDIS01     DVI SELECT.PC     Sets the DVI SELECT setting to VDEO.     O     O       EDIS02     DVI SELECT.VDEO     Sets the DVI SELECT setting to VDEO.     O     O       ENH     H. ENHANCE: ***     Adjusts H ENHANCE.     O     O     O       ESV     ENERGY SAVE: *****     Adjusts V ENHANCE.     O     O     O       ESVS01     ENERGY SAVE: *****     Adjusts V ENHANCE.     O     O     O       ESVS01     ENERGY SAVE: STANDARD     Sets the ENERGY SAVE setting to MODE 2 (nergity saving).     O     ESVS02     ENERGY SAVE: MODE1     Sets the ENERGY SAVE setting to MODE 2 (nergity saving).     O     ESVS03     ENERGY SAVE: MODE2     Sets the ENERGY SAVE setting to MODE 3 (nor gifte).     O     ESVS04     ENERGY SAVE: MODE3     Sets the ENERGY SAVE setting to MODE 3 (nor gifte).     O     ESVS04     ENERGY SAVE: MODE3     Sets the ENERGY SAVE setting to MODE 3 (nor gifte).     O     ESVS04     ENERGY SAVE: MODE3     Sets the ENERGY SAVE setting to MODE 3 (nor gifte).     O     ESVS04     ENERGY SAVE: SAVE SAVE.     O     I     ESVS04     ENERGY SAVE setting to MODE 3 (nor gifte).     O     ESVS03     ENERGY SAVE: SAVE SAVE.     O <td>DW0</td> <td>#</td> <td>Reduces the adjustment value by 10.</td> <td>0</td> <td>0</td> <td></td>	DW0	#	Reduces the adjustment value by 10.	0	0	
DWF         #         Sets the adjustment value to the minimum value.         O         O           IEI	DWn	#	Reduces the adjustment value by $n (n = 1 \text{ to } 9)$ .	0	0	
IE         Sets the DVI SELECT PC         Sets the DVI SELECT setting to PC.         O           EDIS01         DVI SELECT.VIDEO         Sets the DVI SELECT setting to VIDEO.         O           ENH         H. ENHANCE: ***         Adjusts Y ENHANCE.         O         O           ENW         V. ENHANCE: ***         Adjusts V ENHANCE.         O         O           ESV         ENERGY SAVE: STANDARD         Sets the ENERGY SAVE setting to STANDARD.         O           ESVS01         ENERGY SAVE: MODE1         Sets the ENERGY SAVE setting to MODE 1 (nergy saving).         O           ESVS02         ENERGY SAVE: MODE2         Sets the ENERGY SAVE setting to MODE 1 (nergy saving).         O           ESVS03         ENERGY SAVE: MODE3         Sets the ENERGY SAVE setting to MODE 3 (non life).         O           ESVS04         ENERGY SAVE: AUTO         Sets the ENERGY SAVE setting to MODE 3 (non life).         O           FCL         ####################################	DWF	#	Sets the adjustment value to the minimum value.	0	0	
EDIS01       DVI SELECT.PC       Sets the DVI SELECT setting to VIDEO.       O         EDIS02       DVI SELECT.VIDEO       Sets the DVI SELECT setting to VIDEO.       O         ENH       H. ENHANCE: ***       Adjusts H ENHANCE.       O       O         ENV       V. ENHANCE: ***       Adjusts V ENHANCE.       O       O         ESV       ENERGY SAVE: STANDARD       Sets the ENERGY SAVE setting to STANDARD.       O         ESVS00       ENERGY SAVE: MODE1       Sets the ENERGY SAVE setting to MODE 1 lenergy savingl.       O         ESVS02       ENERGY SAVE: MODE2       Sets the ENERGY SAVE setting to MODE 2 lenergy savingl.       O         ESVS03       ENERGY SAVE: MODE3       Sets the ENERGY SAVE setting to MODE 2 lenergy savingl.       O         ESVS03       ENERGY SAVE: MODE3       Sets the ENERGY SAVE setting to MODE 2 lenergy savingl.       O         FCL       INTON SAVE: MODE3       Sets the ENERGY SAVE setting to MODE 1 long lifel.       O         FCL       INTON SAVE: MUTO       Sets the ENERGY SAVE setting to MUTO.       O       I         FCL       INTONS LOCK       Inhibits the main-control panel button control.       O       I         FCLS00       LOCK OFF       Clears the FUNCTIONAL LOCK.       O       I         FCLS01       BUTTONS& LOCK	(E)		,	I	I	
EDIS02       DVI SELECT VIDEO       Sets the DVI SELECT setting to VIDEO.       O         ENH       H. ENHANCE: ***       Adjusts H ENHANCE:       O       O         ENV       V. ENHANCE: ***       Adjusts V ENHANCE:       O       O         ESV       ENERGY SAVE: ****       Displays the current ENERGY SAVE setting.       O       O         ESV500       ENERGY SAVE: STANDARD       Sets the ENERGY SAVE setting to STANDARD.       O         ESV501       ENERGY SAVE: MODE1       Sets the ENERGY SAVE setting to MODE1 (nergy swing).       O         ESV503       ENERGY SAVE: MODE2       Sets the ENERGY SAVE setting to MODE1 (nergy swing).       O         ESV504       ENERGY SAVE: MODE3       Sets the ENERGY SAVE setting to MODE 1 (nergy swing).       O         FCL       #H########       Displays the current FUNCTIONAL LOCK setting.       O         FCL       ################       Displays the current FUNCTIONAL LOCK setting.       O         FCLS01       IBUTTONS LOCK       Inhibits the main-control button control.       O       O         FCLS02       IR LOCK       Inhibits the main-control button control.       O       O       C         FCLS03       BUTTONS&IR LOCK       Inhibits the main-control button control.       O       C       C	EDIS01	DVI SELECT:PC	Sets the DVI SELECT setting to PC.	0		
ENH       H. ENHANCE: ***       Adjusts H ENHANCE.       O       O         ENV       V. ENHANCE: ***       Adjusts V ENHANCE.       O       O         ESV       ENERGY SAVE: STANDARD       Displays the current ENERGY SAVE setting.       •       •         ESVS01       ENERGY SAVE: STANDARD       Sets the ENERGY SAVE setting to STANDARD.       0       •         ESVS02       ENERGY SAVE: MODE1       Sets the ENERGY SAVE setting to MODE 1 (energy saving).       0       •         ESVS03       ENERGY SAVE: MODE3       Sets the ENERGY SAVE setting to MODE 3 (ong life).       0       •         ESVS04       ENERGY SAVE: MODE3       Sets the ENERGY SAVE setting to MODE 3 (ong life).       0       •         FCL       ************************************	EDIS02		Sets the DVI SELECT setting to VIDEO	0		
ENV       V. ENHANCE: ***       Adjusts V ENHANCE.       O       O         ESV       ENERGY SAVE: *******       Displays the current ENERGY SAVE setting.       •         ESVS00       ENERGY SAVE: MODE1       Sets the ENERGY SAVE setting to STANDARD.       O         ESVS01       ENERGY SAVE: MODE1       Sets the ENERGY SAVE setting to MODE1 (energy saving).       O         ESVS02       ENERGY SAVE: MODE3       Sets the ENERGY SAVE setting to MODE1 (energy saving).       O         ESVS03       ENERGY SAVE: MODE3       Sets the ENERGY SAVE setting to AUTO.       O         IF       O       ENERGY SAVE: AUTO       Sets the ENERGY SAVE setting to AUTO.       O         FCL       ####################################	FNH	H ENHANCE: ***	Adjusts H ENHANCE	0		0
ESV       ENERGY SAVE: *******       Displays the current ENERGY SAVE setting.       Image: Content of Cont	ENV	V ENHANCE: ***	Adjusts V ENHANCE	0		0
Editors of View Save:       Displays and outputs the United View Satting to STANDARD.       Image: Constraint of Standard Statting to Statting to Standard Statting to Statting to Statting to Statting to Statting to Statting to Statti	FSV		Displays the current ENERGY SAVE setting	•		
ECKNOD       ENERGY SAVE: MODE1       Sets the ENERGY SAVE setting to MODE 1 (energy saving).       O         ESVS01       ENERGY SAVE: MODE2       Sets the ENERGY SAVE setting to MODE 2 (energy saving).       O         ESVS03       ENERGY SAVE: MODE3       Sets the ENERGY SAVE setting to MODE 3 (long life).       O         ESVS04       ENERGY SAVE: MODE3       Sets the ENERGY SAVE setting to AUTO.       O         IFI       FCA       FAN: AUTO       Sets the ENERGY SAVE setting to AUTO.       O         FCL ###########       Displays the current FUNCTIONAL LOCK setting.       O       O         FCLS00       LOCK OFF       Clears the FUNCTIONAL LOCK.       O       O         FCLS01       BUTTONS LOCK       Inhibits the main-control panel button control.       O       O         FCLS02       IR LOCK       Inhibits the main-control panel button control.       O       O         FCLS03       BUTTONS&R LOCK       Inhibits the name control panel button control.       O       O         FCLS03       BUTTONS&R LOCK       Inhibits the main-control panel button control.       O       O         FCLS04       FAN: MAX       Sets the ENERGY SAVE setting.       O       O         FMKS00       SCREEN MASK: INVERSE       Sets the SCREEN MASK tono       O       O <t< td=""><td>ESV ESV/S00</td><td></td><td>Sets the ENERGY SAVE setting to STANDARD</td><td>0</td><td></td><td></td></t<>	ESV ESV/S00		Sets the ENERGY SAVE setting to STANDARD	0		
ESVS02       ENERGY SAVE: MODE2       Sets the ENERGY SAVE setting to MODE 2 (nergy saving).       O         ESVS03       ENERGY SAVE: MODE3       Sets the ENERGY SAVE setting to MODE 2 (nergy saving).       O         ESVS04       ENERGY SAVE: AUTO       Sets the ENERGY SAVE setting to MODE 3 (long life).       O         IF       FCA       FAN: AUTO       Sets the ENERGY SAVE setting to AUTO.       O         IF       FCA       FAN: AUTO       Sets the fan rpm control to AUTO.       O         FCL #########       Displays the current FUNCTIONAL LOCK setting.       O       O         FCLS03       BUTTONS LOCK       Inhibits the main-control band control.       O       O         FCLS03       BUTTONSAIR LOCK       Inhibits remote-control button control.       O       O         FCLS03       BUTTONSAIR LOCK       Inhibits both main-control panel and remote-control.       O       O         FCLS04       MEMORY LOCK       Sets the fan rpm control to maximum.       O       O         FDT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       ●         FMKS04       SCREEN MASK: OFF       Sets the SCREEN MASK to OFF.       O       O         FMKS03       SCREEN MASK: RED       Turns ON the RED mask.       O       O       FMKS04       SCREEN MASK: RED<	ESV500		Sets the ENERGY SAVE setting to MODE 1 (energy saving)	0		
EDV002       ENERGY SAVE: MODE3       Sets the ENERGY SAVE setting to MODE 3 (long life).       O         ESVS03       ENERGY SAVE: AUTO       Sets the ENERGY SAVE setting to AUTO.       O         FCA       FAN: AUTO       Sets the ENERGY SAVE setting to AUTO.       O         FCL       #########       Displays the current FUNCTIONAL LOCK setting.       O         FCLS00       LOCK OFF       Clears the FUNCTIONAL LOCK.       O         FCLS01       BUTTONS LOCK       Inhibits the main-control panel button control.       O         FCLS02       IR LOCK       Inhibits the main-control panel button control.       O         FCLS03       BUTTONS&IR LOCK       Inhibits the main-control panel button control.       O         FCLS04       MEMORY LOCK       Ishibits to main-control panel and remote-control button control.       O         FCLS04       MEMORY LOCK       Sets the fan rpm control to maximum.       O         FDT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       •         FMK S00       SCREEN MASK: WHITE       Turns ON the RED mask.       O         FMKS03       SCREEN MASK: WHITE       Turns ON the RED mask.       O         FMKS04       SCREEN MASK: BLUE       Turns ON the RED mask.       O         FMKS05       SCREEN MASK: SILE	ESVS01		Sets the ENERGY SAVE setting to MODE 1 (energy saving).	0		
ESVS04       ENERGY SAVE: MICES       Dets the ENERGY SAVE setting to AUTO.       O         IF       FCA       FAN: AUTO       Sets the ENERGY SAVE setting to AUTO.       O         FCL       #########       Displays the current FUNCTIONAL LOCK setting.       O         FCLS00       LOCK OFF       Clears the FUNCTIONAL LOCK.       O         FCLS01       BUTTONS LOCK       Inhibits the main-control panel button control.       O         FCLS02       IR LOCK       Inhibits the main-control panel button control.       O         FCLS03       BUTTONS LOCK       Inhibits the main-control panel and remote-control button control.       O         FCLS04       MEMORY LOCK       Sets the fan rpm control to maximum.       O         FCM       FAN: MAX       Sets the SCREEN MASK to OFF.       O         FDT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       ●         FMKS03       SCREEN MASK: WHITE       Turns ON the SCREEN MASK to INFRESE (negative-positive inversion).       O         FMKS04       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O       O         FMKS04       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O       O         FMKS05       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O       O       O <td>ESVS02</td> <td></td> <td>Sets the ENERGY SAVE setting to MODE 2 (energy saving).</td> <td>0</td> <td></td> <td></td>	ESVS02		Sets the ENERGY SAVE setting to MODE 2 (energy saving).	0		
ESISTAGE       PERSIMPLE SAVE, ACTO       Desis the Encline SAVE setting to ACTO.       Desis the Encline SAVE setting to ACTO.         FCA       FAN: AUTO       Sets the fan rpm control to AUTO.       O         FCL       ##########       Displays the current FUNCTIONAL LOCK setting.       O         FCLS00       LOCK OFF       Clears the FUNCTIONAL LOCK.       O         FCLS01       BUTTONS LOCK       Inhibits the main-control panel button control.       O         FCLS02       IR LOCK       Inhibits the main-control panel and remote-control button control.       O         FCLS03       BUTTONS&IR LOCK       Inhibits to main-control panel and remote-control button control.       O         FCLS04       MEMORY LOCK       Sets the MEMORY LOCK.       O       O         FOT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       O       O         FMK       SCREEN MASK: MAX       Sets the SCREEN MASK to OFF.       O       O         FMKS00       SCREEN MASK: WHITE       Turns ON the WHITE mask.       O       O         FMKS03       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O       O         FMKS05       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O       O         FMKS06       SCREEN MASK: BLUE       Turns ON the GR	ESVS03		Sets the ENERGY SAVE setting to MODE 3 (long me).	0		
FCA       FAN: AUTO       Sets the fan rpm control to AUTO.       O         FCL       ########       Displays the current FUNCTIONAL LOCK setting.       O         FCLS00       LOCK OFF       Clears the FUNCTIONAL LOCK.       O         FCLS01       BUTTONS LOCK       Inhibits the main-control panel button control.       O         FCLS02       IR LOCK       Inhibits the main-control panel button control.       O         FCLS03       BUTTONS&IR LOCK       Inhibits the main-control panel button control.       O         FCLS04       IR LOCK       Inhibits the main-control panel and remote-control button control.       O         FCLS04       FAN: MAX       Sets the fan rpm control to maximum.       O         FCM       FAN: MAX       Sets the fan rpm control to maximum.       O         FDT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       ●         FMKS02       SCREEN MASK: OFF       Sets the SCREEN MASK to OFF.       O         FMKS03       SCREEN MASK: OFF       Sets the SCREEN MASK to INVERSE inegative positive inversion.       O         FMKS04       SCREEN MASK: BLUE       Turns ON the WHITE mask.       O       O         FMKS05       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O       O         FMKS06	[57304	ENERGY SAVE. A010	Sets the LIVENOT SAVE setting to A010.	0		
FCA       TAX. A010       Sets the antiplin Control Note O.       C         FCL       ############       Displays the current FUNCTIONAL LOCK.       O         FCLS00       LOCK OFF       Clears the FUNCTIONAL LOCK.       O         FCLS01       BUTTONS LOCK       Inhibits the main-control panel button control.       O         FCLS02       IR LOCK       Inhibits the main-control panel and remote-control.       O         FCLS03       BUTTONS&IR LOCK       Inhibits the main-control panel and remote-control.       O         FCLS04       MEMORY LOCK       Sets the MEMORY LOCK.       O         FCM       FAN: MAX       Sets the fan rpm control to maximum.       O         FDT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       ●         FMK S00       SCREEN MASK: OFF       Sets the SCREEN MASK to OFF.       O         FMKS03       SCREEN MASK: OFF       Sets the SCREEN MASK to OFF.       O         FMKS04       SCREEN MASK: RED       Turns ON the RED mask.       O         FMKS05       SCREEN MASK: RED       Turns ON the RED mask.       O         FMKS06       SCREEN MASK: GREEN       Turns ON the RED mask.       O         FMKS06       SCREEN MASK: GREEN       Turns ON the BLUE mask.       O         FMKS			Sate the fap rom control to ALITO	0		
FCLS       Imminimum       Displays the content of NAL LOCK setting.         FCLS01       LOCK OFF       Clears the FUNCTIONAL LOCK.       O         FCLS02       IR LOCK       Inhibits the main-control panel button control.       O         FCLS03       BUTTONS LOCK       Inhibits the main-control panel button control.       O         FCLS04       MEMORY LOCK       Sets the MEMORY LOCK.       O         FCLS04       MEMORY LOCK       Sets the fan rpm control to maximum.       O         FCM       FAN: MAX       Sets the fan rpm control to maximum.       O         FDT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       ●         FMK S00       SCREEN MASK: 0FF       Sets the SCREEN MASK to OFF.       O         FMKS02       SCREEN MASK: INVERSE       Sets the SCREEN MASK to OFF.       O         FMKS03       SCREEN MASK: WHITE       Turns ON the WHITE mask.       O       O         FMKS04       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O       FMKS05       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O         FMKS05       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O       O       FMKS06       SCREEN MASK: GREEN       O         FMKS06       SCREEN MASK: BLUE       Turns ON the PLU	FCA		Displays the surrent EUNCTIONAL LOCK setting			
FCLS00       EDGR. OFF       EDGR. OFF       Collars in Fronce nontrol Doubtion control.       O         FCLS01       IR LOCK       Inhibits the main-control panel button control.       O         FCLS03       BUTTONS&IR LOCK       Inhibits the main-control panel and remote-control button control.       O         FCLS04       MEMORY LOCK       Sets the MEMORY LOCK.       O         FCM       FAN: MAX       Sets the fan rpm control to maximum.       O         FDT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       •         FMK       SCREEN MASK: #####       Displays the current SCREEN MASK to OFF.       O         FMKS00       SCREEN MASK: INVERSE       Sets the SCREEN MASK to OFF.       O         FMKS03       SCREEN MASK: WHITE       Turns ON the RED mask.       O         FMKS04       SCREEN MASK: GREEN       Turns ON the RED mask.       O         FMKS05       SCREEN MASK: BLUE       Turns ON the BLUE mask.       O         FMKS06       SCREEN MASK: STELD       Turns ON the BLUE mask.       O         FMKS07       SCREEN MASK: BLUE       Turns ON the BLUE mask.       O         FMKS06       SCREEN MASK: STELD       Turns ON the BLUE mask.       O       O         FMKS06       SCREEN MASK: STELD       Turns ON the						
FCLS00       BOTTONS LOCK       Immousting memory building panel building control.       O         FCLS02       IR LOCK       Inhibits remote-control button control.       O         FCLS03       BUTTONS&IR LOCK       Inhibits remote-control button control.       O         FCLS04       MEMORY LOCK       Sets the MEMORY LOCK.       O         FCM       FAN: MAX       Sets the fan rpm control to maximum.       O         FDT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       •         FMK       SCREEN MASK: #####       Displays the current SCREEN MASK to OFF.       O         FMKS02       SCREEN MASK: INVERSE       Sets the SCREEN MASK to OFF.       O         FMKS03       SCREEN MASK: RED       Turns ON the RED mask.       O         FMKS04       SCREEN MASK: RED       Turns ON the RED mask.       O         FMKS05       SCREEN MASK: BLUE       Turns ON the RED mask.       O         FMKS06       SCREEN MASK: PELLOW       Turns ON the RED mask.       O         FMKS07       SCREEN MASK: BLUE       Turns ON the RED mask.       O         FMKS06       SCREEN MASK: PELLOW       Turns ON the RED mask.       O         FMKS07       SCREEN MASK: PELLOW       Turns ON the PELLOW mask.       O       O			clears the FUNCTIONAL LOCK.			
FCLS02       Int LOCK       Inhibits remote-control button control.       O         FCLS03       BUTTONS&IR LOCK       Inhibits both main-control panel and remote-control button control.       O         FCLS04       MEMORY LOCK       Sets the MEMORY LOCK.       O         FCLS04       MEMORY LOCK       Sets the MEMORY LOCK.       O         FCCM       FAN: MAX       Sets the fan rpm control to maximum.       O         FDT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       ●         FMK       SCREEN MASK: #####       Displays the current SCREEN MASK setting.       ●         FMKS02       SCREEN MASK: INVERSE       Sets the SCREEN MASK to OFF.       O         FMKS03       SCREEN MASK: WHITE       Turns ON the KED mask.       O         FMKS04       SCREEN MASK: RED       Turns ON the RED mask.       O         FMKS05       SCREEN MASK: BLUE       Turns ON the RED mask.       O         FMKS06       SCREEN MASK: VELLOW       Turns ON the RELD mask.       O         FMKS07       SCREEN MASK: VELLOW       Turns ON the RELD mask.       O         FMKS06       SCREEN MASK: VELLOW       Turns ON the RELD mask.       O       O         FMKS06       SCREEN MASK: TELLOW       Turns ON the VELLOW mask.       O       O<			Inhibits the main-control panel button control.			
FCLS03       BUTTONS&IR LOCK       Innibits both main-control panel and remote-control button control.       O         FCLS04       MEMORY LOCK       Sets the MEMORY LOCK.       O         FCM       FAN: MAX       Sets the fan rpm control to maximum.       O         FDT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       •         FMK       SCREEN MASK: OFF       Sets the SCREEN MASK to OFF.       O         FMKS02       SCREEN MASK: INVERSE       Sets the SCREEN MASK to INVERSE Ingative positive inversionl.       O         FMKS03       SCREEN MASK: WHITE       Turns ON the WHITE mask.       O         FMKS04       SCREEN MASK: GREEN       Turns ON the RED mask.       O         FMKS05       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O         FMKS06       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O         FMKS07       SCREEN MASK: BLUE       Turns ON the VELIOW mask.       O         FMKS06       SCREEN MASK: PELIOW       Turns ON the VELIOW mask.       O         FMKS07       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O       O         FMKS06       SCREEN MASK: PELIOW       Turns ON the VELIOW mask.       O       O         FMKS06       SCREEN MASK: PELIOW       Turns ON the						
FCLS04       MEMORY LOCK       Sets the MEMORY LOCK.       O         FCM       FAN: MAX       Sets the fan rpm control to maximum.       O         FDT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       •         FMK       SCREEN MASK: #####       Displays the current SCREEN MASK setting.       •         FMKS00       SCREEN MASK: OFF       Sets the SCREEN MASK to OFF.       O         FMKS01       SCREEN MASK: WHITE       Turns ON the WHITE mask.       O         FMKS03       SCREEN MASK: RED       Turns ON the RED mask.       O         FMKS04       SCREEN MASK: BLUE       Turns ON the RED mask.       O         FMKS05       SCREEN MASK: BLUE       Turns ON the BLUE mask.       O         FMKS06       SCREEN MASK: YELLOW       Turns ON the BLUE mask.       O         FMKS07       SCREEN MASK: YELLOW       Turns ON the YELLOW mask.       O         FRC       FRC: MODE1       Sets FRC to MODE 1.       O         FRCS02       FRC: MODE3       Sets FRC to MODE 3.       O         FRCS03       FRC: MODE3       Sets FRC to MODE 3.       O         FRCS03       FRC: MODE3       Sets FRC to MODE 3.       O         FRCS03       FRC: MODE3       Sets FRC to MODE 3.       O			Inhibits both main-control panel and remote-control button control.			
FCM       FAN: MAX       Sets the fan rpm control to maximum.       O         FDT       FUNCTION DEFAULT       Executes FUCNTION DEFAULT.       •         FMK       SCREEN MASK: #####       Displays the current SCREEN MASK setting.       •         FMKS00       SCREEN MASK: OFF       Sets the SCREEN MASK to OFF.       O         FMKS02       SCREEN MASK: INVERSE       Sets the SCREEN MASK to INVERSE (negative-positive inversion).       O         FMKS03       SCREEN MASK: WHITE       Turns ON the WHITE mask.       O       O         FMKS04       SCREEN MASK: GREEN       Turns ON the RED mask.       O       O         FMKS05       SCREEN MASK: BED       Turns ON the RED mask.       O       O         FMKS06       SCREEN MASK: BLUE       Turns ON the BLUE mask.       O       O         FMKS07       SCREEN MASK: YELLOW       Turns ON the VELLOW mask.       O       O         FRC       FRC: ####       Displays the current FRC setting.       •       FRCS01       FRC: MODE1       Sets FRC to MODE 1.       O       O         FRCS01       FRC: MODE2       Sets FRC to MODE 3.       O       O       O       FRCS03       FRC: MODE3       O       FRC SetSing.       O       O       FRCS03       FRC: MODE3       Sets FRC	FCLS04	MEMORY LOCK	Sets the MEMORY LOCK.	0		
FD1       FUNCTION DEFAULT       Executes FUCNION DEFAULT.       •         FMK       SCREEN MASK: #####       Displays the current SCREEN MASK setting.       •         FMKS00       SCREEN MASK: OFF       Sets the SCREEN MASK to OFF.       O         FMKS02       SCREEN MASK: INVERSE       Sets the SCREEN MASK to INVERSE (negative-positive inversion).       O         FMKS03       SCREEN MASK: WHITE       Turns ON the WHITE mask.       O         FMKS04       SCREEN MASK: RED       Turns ON the RED mask.       O         FMKS05       SCREEN MASK: GREEN       Turns ON the GREEN mask.       O         FMKS06       SCREEN MASK: BLUE       Turns ON the GREEN mask.       O         FMKS06       SCREEN MASK: YELLOW       Turns ON the RED mask.       O         FMKS07       SCREEN MASK: YELLOW       Turns ON the VELLOW mask.       O         FRC       FRC: #####       Displays the current FRC setting.       •         FRCS01       FRC: MODE1       Sets FRC to MODE 1.       O         FRCS02       FRC: MODE2       Sets FRC to MODE 3.       O         FRC: MODE3       Sets FRC to MODE 3.       O       F         FRP       FRESH POSITION       Initializes the integrator and SCREEN adjustment values.       O         FXO	FCM	FAN: MAX	Sets the fan rpm control to maximum.	0		
FMK       SCREEN MASK: #####       Displays the current SCREEN MASK setting.       •         FMKS00       SCREEN MASK: OFF       Sets the SCREEN MASK to OFF.       O         FMKS02       SCREEN MASK: INVERSE       Sets the SCREEN MASK to INVERSE (negative-positive inversion).       O         FMKS03       SCREEN MASK: WHITE       Turns ON the WHITE mask.       O         FMKS04       SCREEN MASK: GREEN       Turns ON the RED mask.       O         FMKS05       SCREEN MASK: GREEN       Turns ON the GREEN mask.       O         FMKS06       SCREEN MASK: BLUE       Turns ON the BLUE mask.       O         FMKS07       SCREEN MASK: YELLOW       Turns ON the BLUE mask.       O         FMCS01       FRC: #####       Displays the current FRC setting.       O         FRCS01       FRC: MODE1       Sets FRC to MODE 1.       O         FRCS02       FRC: MODE3       Sets FRC to MODE 3.       O         FRC       FRESH POSITION       Initializes the integrator and SCREEN adjustment values.       O         FXO       AUDIO OUT: FIX       Selects fixed audio output.       O       O         GL       ## GET commands are valid in any state including STB (except for [GPI], [GPS], [GSS], [GWB]).       GHI       G HIGH: ***       Adjusts G HIGH.       O       O </td <td>FDT</td> <td>FUNCTION DEFAULT</td> <td>Executes FUCNTION DEFAULT.</td> <td>•</td> <td></td> <td></td>	FDT	FUNCTION DEFAULT	Executes FUCNTION DEFAULT.	•		
FMKS00       SCREEN MASK: OFF       Sets the SCREEN MASK to OFF.       O         FMKS02       SCREEN MASK: INVERSE       Sets the SCREEN MASK to INVERSE (negative-positive inversion).       O         FMKS03       SCREEN MASK: WHITE       Turns ON the WHITE mask.       O         FMKS04       SCREEN MASK: RED       Turns ON the RED mask.       O         FMKS05       SCREEN MASK: GREEN       Turns ON the GREEN mask.       O         FMKS06       SCREEN MASK: BLUE       Turns ON the BLUE mask.       O         FMKS07       SCREEN MASK: YELLOW       Turns ON the BLUE mask.       O         FMKS07       SCREEN MASK: YELLOW       Turns ON the YELLOW mask.       O         FRC       FRC: ####       Displays the current FRC setting.       •         FRCS01       FRC: MODE1       Sets FRC to MODE 1.       O         FRCS02       FRC: MODE2       Sets FRC to MODE 2.       O         FRCS03       FRC: MODE3       Sets FRC to MODE 3.       O         FRP       FRESH POSITION       Initializes the integrator and SCREEN adjustment values.       O         FXO       AUDIO OUT: FIX       Selects fixed audio output.       O       FXO         GI       ## GET commands are valid in any state including STB (except for [GPI], [GPS], [GSS], [GWB]).       O <td>FMK</td> <td>  SCREEN MASK: #####</td> <td>Displays the current SCREEN MASK setting.</td> <td></td> <td> </td> <td></td>	FMK	SCREEN MASK: #####	Displays the current SCREEN MASK setting.			
FMKS02       SCREEN MASK: INVERSE       Sets the SCREEN MASK to INVERSE (negative-positive inversion).       O         FMKS03       SCREEN MASK: WHITE       Turns ON the WHITE mask.       O         FMKS04       SCREEN MASK: RED       Turns ON the RED mask.       O         FMKS05       SCREEN MASK: GREEN       Turns ON the GREEN mask.       O         FMKS06       SCREEN MASK: BLUE       Turns ON the BLUE mask.       O         FMKS07       SCREEN MASK: YELLOW       Turns ON the YELLOW mask.       O         FRC       FRC: #####       Displays the current FRC setting.       O         FRCS01       FRC: MODE1       Sets FRC to MODE 1.       O         FRCS02       FRC: MODE2       Sets FRC to MODE 2.       O         FRCS03       FRC: MODE3       Sets FRC to MODE 3.       O         FRP       FRESH POSITION       Initializes the integrator and SCREEN adjustment values.       O         FXO       AUDIO OUT: FIX       Selects fixed audio output.       O       O         GHI       G HIGH: ***       Adjusts G HIGH.       O       O       O         GLW       G LOW: ***       Adjusts G LOW.       O       O       O		SCREEN MASK: OFF  -	Sets the SCREEN MASK to OFF.	0		
FMKS03SCREEN MASK: WHITETurns ON the WHITE mask.OFMKS04SCREEN MASK: REDTurns ON the RED mask.OFMKS05SCREEN MASK: GREENTurns ON the GREEN mask.OFMKS06SCREEN MASK: BLUETurns ON the BLUE mask.OFMKS07SCREEN MASK: YELLOWTurns ON the YELLOW mask.OFMCS07SCREEN MASK: YELLOWTurns ON the YELLOW mask.OFRCFRC: #####Displays the current FRC setting.•FRCS01FRC: MODE1Sets FRC to MODE 1.OFRCS02FRC: MODE2Sets FRC to MODE 2.OFRCS03FRC: MODE3Sets FRC to MODE 3.OFRPFRESH POSITIONInitializes the integrator and SCREEN adjustment values.OFXOAUDIO OUT: FIXSelects fixed audio output.OGHIG HIGH: ***Adjusts G HIGH.OOGLWG LOW: ***Adjusts G HIGH.OOOOOOO	FMKS02		Sets the SCREEN MASK to INVERSE (negative-positive inversion).			
FMKS04SCREEN MASK: REDTurns ON the RED mask.OFMKS05SCREEN MASK: GREENTurns ON the GREEN mask.OFMKS06SCREEN MASK: BLUETurns ON the BLUE mask.OFMKS07SCREEN MASK: YELLOWTurns ON the YELLOW mask.OFRCFRC: #####Displays the current FRC setting.•FRCS01FRC: MODE1Sets FRC to MODE 1.OFRCS02FRC: MODE2Sets FRC to MODE 2.OFRCS03FRC: MODE3Sets FRC to MODE 3.OFRPFRESH POSITIONInitializes the integrator and SCREEN adjustment values.OFXOAUDIO OUT: FIXSelects fixed audio output.OGHIG HIGH: ***Adjusts G HIGH.OOGLWG LOW: ***Adjusts G LOW.OO	FMKS03		Turns ON the WHITE mask.			
FMKS05       SCREEN MASK: GREEN       Turns ON the GREEN mask.       O         FMKS06       SCREEN MASK: BLUE       Turns ON the BLUE mask.       O         FMKS07       SCREEN MASK: YELLOW       Turns ON the YELLOW mask.       O         FRC       FRC: #####       Displays the current FRC setting.       •         FRCS01       FRC: MODE1       Sets FRC to MODE 1.       O         FRCS02       FRC: MODE2       Sets FRC to MODE 2.       O         FRCS03       FRC: MODE3       Sets FRC to MODE 3.       O         FRP       FRESH POSITION       Initializes the integrator and SCREEN adjustment values.       O         FXO       AUDIO OUT: FIX       Selects fixed audio output.       O       O         GHI       G HIGH: ***       Adjusts G HIGH.       O       O         GLW       G LOW: ***       Adjusts G LOW.       O       O	FMKS04		Turns ON the RED mask.			
FMKS06       SCREEN MASK: BLUE       Turns ON the BLUE mask.       O         FMKS07       SCREEN MASK: YELLOW       Turns ON the YELLOW mask.       O         FRC       FRC: #####       Displays the current FRC setting.       •         FRCS01       FRC: MODE1       Sets FRC to MODE 1.       O         FRCS02       FRC: MODE3       Sets FRC to MODE 3.       O         FRP       FRESH POSITION       Initializes the integrator and SCREEN adjustment values.       O         FXO       AUDIO OUT: FIX       Selects fixed audio output.       O       O         GHI       G HIGH: ***       Adjusts G LOW.       O       O         GRUW       G LOW: ***       Adjusts G LOW.       O       O	FMKS05		Turns ON the GREEN mask.			
FMKS07       SCREEN MASK: YELLOW       Turns ON the YELLOW mask.       O         FRC       FRC: #####       Displays the current FRC setting.       •         FRCS01       FRC: MODE1       Sets FRC to MODE 1.       O         FRCS02       FRC: MODE2       Sets FRC to MODE 2.       O         FRCS03       FRC: MODE3       Sets FRC to MODE 3.       O         FRP       FRESH POSITION       Initializes the integrator and SCREEN adjustment values.       O         FXO       AUDIO OUT: FIX       Selects fixed audio output.       O       O         GHI       G HIGH: ***       Adjusts G HIGH.       O       O         GLW       G LOW: ***       Adjusts G LOW.       O       O	FMKS06		Turns ON the BLUE mask.			
FRC       FRC: #####       Displays the current FRC setting.       Image: Constraint of the constraint of the current free setting.         FRCS01       FRC: MODE1       Sets FRC to MODE 1.       O         FRCS02       FRC: MODE2       Sets FRC to MODE 2.       O         FRCS03       FRC: MODE3       Sets FRC to MODE 3.       O         FRP       FRESH POSITION       Initializes the integrator and SCREEN adjustment values.       O         FXO       AUDIO OUT: FIX       Selects fixed audio output.       O       O         IGI       ## GET commands are valid in any state including STB (except for [GPI], [GPS], [GSS], [GWB]).       GHI       G HIGH: ***       Adjusts G HIGH.       O       O         GLW       G LOW: ***       Adjusts G LOW.       O       O       O	FMKS07	SCREEN MASK: YELLOW	Turns ON the YELLOW mask.	0		
FRCS01       FRC: MODE1       Sets FRC to MODE 1.       O         FRCS02       FRC: MODE2       Sets FRC to MODE 2.       O         FRCS03       FRC: MODE3       Sets FRC to MODE 3.       O         FRP       FRESH POSITION       Initializes the integrator and SCREEN adjustment values.       O         FXO       AUDIO OUT: FIX       Selects fixed audio output.       O         IGI       ## GET commands are valid in any state including STB (except for [GPI], [GPS], [GSS], [GWB]).         GHI       G HIGH: ***       Adjusts G HIGH.       O       O         GLW       G LOW: ***       Adjusts G LOW.       O       O       O	FRC	FRC: #####	Displays the current FRC setting.			
FRCS02       FRC: MODE2       Sets FRC to MODE 2.       O         FRCS03       FRC: MODE3       Sets FRC to MODE 3.       O         FRP       FRESH POSITION       Initializes the integrator and SCREEN adjustment values.       O         FXO       AUDIO OUT: FIX       Selects fixed audio output.       O         IGI       ## GET commands are valid in any state including STB (except for [GPI], [GPS], [GSS], [GWB]).         GHI       G HIGH: ***       Adjusts G HIGH.       O       O         GLW       G LOW: ***       Adjusts G LOW.       O       O	FRCS01	FRC: MODE1	Sets FRC to MODE 1.	0		
FRCS03       FRC: MODE3       Sets FRC to MODE 3.       O         FRP       FRESH POSITION       Initializes the integrator and SCREEN adjustment values.       O         FXO       AUDIO OUT: FIX       Selects fixed audio output.       O       O         IGI       ## GET commands are valid in any state including STB (except for [GPI], [GPS], [GSS], [GWB]).       GHI       G HIGH: ***       Adjusts G HIGH.       O       O         GLW       G LOW: ***       Adjusts G LOW.       O       O       O	FRCS02	FRC: MODE2	Sets FRC to MODE 2.	0		
FRP       FRESH POSITION       Initializes the integrator and SCREEN adjustment values.       O         FXO       AUDIO OUT: FIX       Selects fixed audio output.       O       Image: Comparison of the comparison of	FRCS03	FRC: MODE3	Sets FRC to MODE 3.	0		
FXO       AUDIO OUT: FIX       Selects fixed audio output.       O         IGI       ## GET commands are valid in any state including STB (except for [GPI], [GPS], [GSS], [GWB]).         GHI       G HIGH: ***       Adjusts G HIGH.       O       O         GLW       G LOW: ***       Adjusts G LOW.       O       O       O	FRP	FRESH POSITION	Initializes the integrator and SCREEN adjustment values.	0		
[G]       ## GET commands are valid in any state including STB (except for [GPI], [GPS], [GSS], [GWB]).         GHI       G HIGH: ***       Adjusts G HIGH.       O       O         GLW       G LOW: ***       Adjusts G LOW.       O       O	FXO	AUDIO OUT: FIX	Selects fixed audio output.	0		
GHI     G HIGH: ***     Adjusts G HIGH.     O     O       GLW     G LOW: ***     Adjusts G LOW.     O     O	[G]	## GET commands are valid in any state i	ncluding STB (except for [GPI], [GPS], [GSS], [GWB]).			
GLW     G LOW: ***     Adjusts G LOW.     O     O       GDL     (GET DICTURE DATA)     0 visition of DICTURE Line     0     0	GHI	G HIGH: ***	Adjusts G HIGH.	0		0
	GLW	G LOW: ***	Adjusts G LOW.	0		0
GPI (GET PICTUKE DATA)   Gets integrator PICTUKE data.   • • •	GPI	(GET PICTURE DATA)	Gets integrator PICTURE data.	•	•	
GPS (GET POSITION DATA) Gets integrator SCREEN data.	GPS	(GET POSITION DATA)	Gets integrator SCREEN data.	•	•	

GRA         GRADATION         GRADATION         Common State GRADATION is "GAMMA 20".         O         I           GRASDI         GRADATION is GAMMA 20".         Serie GRADATION is "GAMMA 20".         O         I         I           GRASSI         GRADATION is GAMMA 20".         Serie GRADATION is "GAMMA 20".         O         I         I           GRASSI         GRADATION IS MAMA 20         Serie GRADATION is "GAMMA 20".         O         I         I           GRASSI         GRADATION IS MEMBIN         Serie GRADATION IS "GAMMA 20".         O         I         I           GRASSI         GRADATION IS MEMBIN         Serie GRADATION IS TOPE HIGH.         O         I         O         I         O         I         O         I         O         I         O         I         O         I         O         I         O         I         O         I         O         I         O         I         O         I         O         I         O         I         O         I         O         I         I         I         I         I         I         I         O         I         I         I         I         I         I         I         I         I         I         I	Command name	AJY (232C integrator) Display	Remarks	RS-232C Adjustment Validity	Normal Validity	Numerical Direct Validity
GRASD1         GRADATION: GAMMA 2.0         Sets GRADATION: to GAMMA 2.0         O         Image: Comparison of	GRA	GRADATION: #######	Displays the current GRADATION setting			
GRASS2         GRADATION CAMMA 19         Sets GRADATION to GAMMA 23:         O           GRASS34         GRADATION COMMA 22         O         O           GRASS44         GRADATION COMMA 22         O         O           GRASS45         GRADATION COMMA 22         O         O           GRASS45         GRADATION COME MID         Suite GRADATION to DRE HIGH         O           GRASS7         GRADATION COME HIGH         Suite GRADATION to TO BE HIGH         O           GRASS7         GRADATION FIGH LINT         Sets GRADATION to TO BE HIGH         O           GRASS7         GRADATION FIGH LINT         Sets GRADATION TO THICH CONTRAST         O         O           GRASS         GRADATION FIGH LINT         Sets GRADATION TO THICH CONTRAST         O         O           GRASS         GRET STATUS OPTIONDATA)         Gets Setting The GREN of mask         O         O           GSS         (GET STATUS OPTIONDATA)         Gets STATUS.         G         O         O           HI         CONTRASTATUS OPTIONDATA         Gets Status.         O         O         O           HI         HOSTION.         A         O         O         O         O           HI         HOSTION.         A         D         O	GRAS01	GRADATION: GAMMA 2.0	Sets GRADATION to 'GAMMA 2.0'.	0		
GRASS         GRADATION IC ANMA 2.2         Seti GRADATION IC DREINIC         O           GRASS4         GRADATION IC RE MID         Seti GRADATION IC DREINIC         O           GRASS5         GRADATION IC RE MID         Seti GRADATION IC DREINIC         O           GRASS6         GRADATION IC DRE HIGH         Seti GRADATION IC DREINIC         O           GRASS7         GRADATION IC DREINIC         Seti GRADATION IC DREINIC         O           GSL         GSIDE MASK LEVEL +**         Adjusts the GREEN also mask.         O         O           GSS         IGET STATUS OFTONDATAJ         Gets STATUS.         O         O         O           GSS         IGET STATUS OFTONDATAJ         Gets STATUS.         O         O         O           GWB         IGET STATUS OFTONDATAJ         Gets STATUS.         O         O         O           HPS         H POSITION ***         Adjusts the HORIZONTAL POSITION.         O         O         O           HPS         H POSITION ***         Adjusts the HORIZONTAL POSITION.         O         O         O           IDC         ID CLEAR         Clears the ID.         O         O         O         O           IN         INPUT1         Switches the main screen to INPUT2.         O <t< td=""><td>GRAS02</td><td>GRADATION: GAMMA 1.8</td><td>Sets GRADATION to 'GAMMA 1.8'.</td><td>0</td><td></td><td></td></t<>	GRAS02	GRADATION: GAMMA 1.8	Sets GRADATION to 'GAMMA 1.8'.	0		
GRASSA         GRADATION DEP MIG         Sets GRADATION TO DEF MIG:         O           GRASSA         GRADATION DE MIGI         Sats GRADATION TO THE ICHIPI'         O           GRASSA         GRADATION DE DEF LOW         Sats GRADATION TO THE ICHIPI'         O           GRASSA         GRADATION DE DEF LOW         Sats GRADATION TO THE ICHIPI'         O         O           GRASSA         GRADATION HIGH CHIT         Sats GRADATION TO THE ICHIPI'         O         O           GRASSA         GRADATION HIGH CHIT         Sats GRADATION TO THE MALL         O         O           GSS         IGET STATUS CPTIONDATA)         Gets STATUS.         O         O           GSS         IGET STATUS CPTIONDATA)         Gets STATUS.         O         O           GWB         IGET WITE BALLDATA         Gets STATUS.         O         O           HP         IGET STATUS SETUP DATAJ         Gets STATUS.         O         O           HIT         HUTE BALLDATA         Gets STATUS.         O         O         O           HIT         HIT         Adjusts the HORIZONTAL POSITION.         O         O         O           INT         INPUTI         Switches the main screen to INPUTI.         O         O           INT         INPUTI	GRAS03	GRADATION: GAMMA 2.2	Sets GRADATION to 'GAMMA 2.2'.	0		
GRASOB         GRADATION DRE HIGH         Sets GRADATION to 'DRE HIGH'.         O           GRASOB         GRADATION DRE LOW         Sets GRADATION to 'DRE LOW'.         O           GRASOB         GRADATION DRE LOW         Sets GRADATION to 'THIGH CONT.         Sets GRADATION to 'THIGH CONT.           GSL         GIST STATUS OPTIONDATA         Gets GETION data.         O         O           GSS         (GET STATUS SETUP DATA)         Gets SETUP data.         O         O           GSS         (GET STATUS SETUP DATA)         Gets SETUP data.         O         O           GWB         (GET STATUS SETUP DATA)         Gets SETUP data.         O         O         O           GWB         (GET STATUS SETUP DATA)         Gets integrator WHITE BALANCE data.         O         O         O           HPS         H. POSITION: ***         Adjusts the HORIZONTAL POSITION.         O         O         O           HS         H. POSITION: ***         Adjusts the HORIZONTAL POSITION.         O         O         O           IN         INPUT3         Set the ID.         O         O         O         O           IN         INPUT3         Switches the main screen to INPUT4.         O         O         O           IN         INPUT3	GRAS04	GRADATION: DRE MID	Sets GRADATION to 'DRE MID'.	0		
GRASOB         GRADATION LORE LOW         Sate GRADATION to 'DRE LOW'.         O         Image: Constraint of Constraints'.         O         Image: Constraints'.         Ima	GRAS05	GRADATION: DRE HIGH	Sets GRADATION to 'DRE HIGH'.			
GRASOT         GRADATION: HIGH CNT.         Sate GRADATION to 'HIGH CONTRAST:         O         O           GSL         G SDE MASSL EVELT: ***         Adjusts the GREEN adia mask.         O         O           GSS         (GET STATUS SETUP DATA)         Gets OPTION data.         ●         ●           GSS         (GET STATUS SETUP DATA)         Gets SETUP data.         ●         ●           GWB         (GET WHITE BALDATA)         Gets STATUS.         ●         ●           IM          H. SETUP DATA         Gets STATUS.         0         O           IM         (GET WHITE BALDATA)         Gets integrator WHITE BALANCE data.         ●         ●           IM         INPUT         Adjusts the HORIZONTAL POSITION.         O         IO           IM         INPUT3         Adjusts the HORIZONTAL POSITION.         O         IO           IN         INPUT3         Switches the main screen to INPUT1.         O         O           IN         INPUT3         Switches the main screen to INPUT3.         O         O           INA         INPUT4         Switches the main screen to INPUT3.         O         O           INA         INPUT3         Switches the main screen to INPUT3.         O         O	GRAS06	GRADATION: DRE LOW	Sets GRADATION to 'DRE LOW'.	0		
GSL         G SIDE MASK LEVEL: ***         Adjusts the GREEN aide mask.         O         O         O           GSO         (GET STATU SOPTONDATA)         Gats STIUP data.         ●         ●         ●           GST         (GET STATUS)         Gats STIUS.         ●         ●         ●         ●           GST         (GET STATUS)         Gats STATUS.         ●	GRAS07	GRADATION: HIGH CNT.	Sets GRADATION to 'HIGH CONTRAST'.	0		
GSD         (IGET STATUS OPTION DATA)         Gets DFTUD data.         Image: Constraint of the state of the st	GSL	G SIDE MASK LEVEL: ***	Adjusts the GREEN side mask.	0		0
GSS         Idel F STATUS SETUP DATA)         Gets SETUP data.         Image: Constraint of the set of t	GSO	(GET STATUS OPTIONDATA)	Gets OPTION data.		•	
GST         (IGET STATUS)         Gets STATUS.         Image: Control of the status of the s	GSS	(GET STATUS SETUP DATA)	Gets SETUP data.		•	
GWB         IGET WHITE BALDATA)         Gets integrator WHITE BALANCE data.         Image: Constraint of the second seco	GST	(GET STATUS)	Gets STATUS.		•	
IH         H         POSITION: ***         Adjusts the HORIZONTAL POSITION.         O         O           HSI         H. SIZE: ***         Adjusts the HORIZONTAL SIZE.         O         O           ID         ID         ID         ID         O         O           ID         D CLEAR         Gears the ID.         O         O         O           INI         INPUT1         Switches the main screen to INPUT2.         O         O         IN           IN2         INPUT3         Switches the main screen to INPUT3.         O         O         INPUT3.         O         O           INS         INPUT4         Switches the main screen to INPUT4.         O         O         INPUT4.         O         O         INPUT3.         O         O         INPUT3.         O         O         INPSC         INPUT4.         O         O         INPSC         INPSC         O         O         INPSC         O         O         INPSC         INPSC         INPSC         INPUT3.         Switches the main screen to INPUT3.         O         O         INPSC         INPSC         O         O         INPSC         INPSC         O         O         INPSC         INPSC         O         O         INPSC	GWB	(GET WHITE BAL.DATA)	Gets integrator WHITE BALANCE data.			
HPS         H. POSITION: ***         Adjusts the HORIZONTAL POSITION.         O         O           HSI         H. SIZE:***         Adjusts the HORIZONTAL SIZE.         O         O           ID         ID         ID         Clears the ID.         O         O           IDC         ID         CLEAR         Clears the ID.         O         O           IN1         INPUT1         Switches the main screen to INPUT2.         O         O           IN2         INPUT3         Switches the main screen to INPUT3.         O         O           IN3         INPUT4         Switches the main screen to INPUT3.         O         O           IN5         INPUT5         Switches the main screen to INPUT3.         O         O           INP         INPUT4         Switches the main screen to INPUT3.         O         O           INPS01         INPUT4         Switches the main screen to INPUT3.         O         O           INPS02         INPUT3         Switches the main screen to INPUT3.         O         O           INPS03         INPUT4         Switches the main screen to INPUT3.         O         O           INPS04         INPUT5         Switches the main screen to INPUT4.         O         O         O	[H]	1	1			
HSI       H.SIZE***       Adjusts the HORIZONTAL SIZE.       O       O         ID	HPS	H. POSITION: ***	Adjusts the HORIZONTAL POSITION.	0		0
III           ID C         ID CLEAR         Clears the ID.         O         O           DS         ID No.: **         Sets the ID.         O         O           INI         INPUT1         Switches the main screen to INPUT1.         O         O           IN2         INPUT2         Switches the main screen to INPUT3.         O         O           IN3         INPUT3         Switches the main screen to INPUT4.         O         O           IN4         INPUT4         Switches the main screen to INPUT5.         O         O           INP         INPUT4         Switches the main screen to INPUT5.         O         O           INPS01         INPUT4         Switches the main screen to INPUT3.         O         O           INPS02         INPUT5         Switches the main screen to INPUT3.         O         O           INPS03         INPUT5         Switches the main screen to INPUT3.         O         O         O           INPS04         INPUT5         Switches the main screen to INPUT3.         O         O         O         O         O           INPS05         INPUT5         Switches the main screen to INPUT4.         O         O         O         O         O         O         O	HSI	H. SIZE:***	Adjusts the HORIZONTAL SIZE.	0		0
IDC         ID LEAR         Clears the ID.         O           DS         ID No:**         Sets the ID.         O         O           IN1         INPUT1         Switches the main screen to INPUT1.         O         O           IN2         INPUT2         Switches the main screen to INPUT3.         O         O           IN3         INPUT4         Switches the main screen to INPUT4.         O         O           IN4         INPUT5         Switches the main screen to INPUT5.         O         O           INP         INPUT4         Switches the main screen to INPUT3.         O         O           INP         INPUT5         Switches the main screen to INPUT1.         O         O           INPS01         INPUT5         Switches the main screen to INPUT1.         O         O           INPS02         INPUT3         Switches the main screen to INPUT3.         O         O           INPS03         INPUT3         Switches the main screen to INPUT4.         O         O         O           INPS05         INPUT5         Switches the main screen to INPUT4.         O         O         O           INPS06         INPUT5         Switches the continidicator.         O         O         O           LP </td <td>[1]</td> <td>1</td> <td>1</td> <td>1</td> <td></td> <td></td>	[1]	1	1	1		
DS         ID No.: **         Sets the ID.         O         O         O           N1         INPUT1         Switches the main screen to INPUT1.         O         O           IN2         INPUT3         Switches the main screen to INPUT3.         O         O           IN4         INPUT3         Switches the main screen to INPUT4.         O         O           IN5         INPUT5         Switches the main screen to INPUT5.         O         O           IN5         INPUT4         Displays the current input function for the main screen.         O         O           INPS01         INPUT4         Displays the current input function for the main screen.         O         O           INPS03         INPUT3         Switches the main screen to INPUT3.         O         O           INPS04         INPUT4         Switches the main screen to INPUT3.         O         O           INPS04         INPUT6         Switches the main screen to INPUT4.         O         O         O           INPS04         INPUT6         Switches the main screen to INPUT4.         O         O         O           INPS05         INPUT6         Switches the main screen to INPUT4.         O         O         O           INN         LOUDNESS:	IDC	ID CLEAR	Clears the ID.	0		
IN1         INPUT1         Switches the main screen to INPUT1.         O         O           IN2         INPUT2         Switches the main screen to INPUT3.         O         O           IN3         INPUT3         Switches the main screen to INPUT3.         O         O           IN4         INPUT4         Switches the main screen to INPUT3.         O         O           IN5         INPUT4         Displays the current input function for the main screen.         ●         ●           INPS01         INPUT4         Displays the current input function for the main screen.         ●         ●           INPS02         INPUT2         Switches the main screen to INPUT3.         O         O           INPS03         INPUT4         Switches the main screen to INPUT4.         O         O           INPS04         INPUT5         Switches the main screen to INPUT4.         O         O           INPS05         INPUT5         Switches the main screen to INPUT4.         O         O         O           INPS05         INPUT5         Switches the main screen to INPUT4.         O         O         O           INPS05         INPUT5         Switches the main screen to INPUT5.         O         O         O           LEY         FRONT INDICATOR: OFF<	DS	ID No.: **	Sets the ID.	0		0
IN2       INPUT2       Switches the main screen to INPUT3.       O       O         IN3       INPUT3       Switches the main screen to INPUT3.       O       O         IN4       INPUT4       Switches the main screen to INPUT4.       O       O         IN5       INPUT6       Switches the main screen to INPUT4.       O       O         INPS01       INPUT6       Displays the current input function for the main screen.       ●         INPS02       INPUT6       Switches the main screen to INPUT1.       O       O         INPS03       INPUT3       Switches the main screen to INPUT3.       O       O         INPS04       INPUT5       Switches the main screen to INPUT3.       O       O         INPS05       INPUT5       Switches the main screen to INPUT4.       O       O       O         INPS05       INPUT5       Switches the main screen to INPUT5.       O       O       O       O         INPS05       INPUT5       Switches the main screen to INPUT5.       O       D <td>IN1</td> <td>INPUT1</td> <td>Switches the main screen to INPUT1.</td> <td>0</td> <td>0</td> <td></td>	IN1	INPUT1	Switches the main screen to INPUT1.	0	0	
IN3       INPUT3       Switches the main screen to INPUT3.       O       O         IN4       INPUT4       Switches the main screen to INPUT5.       O       O         IN5       INPUT5       Switches the main screen to INPUT5.       O       O         INP       INPUT1       Displays the current input function for the main screen.       ●       ●         INPS01       INPUT1       Switches the main screen to INPUT3.       O       O       O         INPS03       INPUT3       Switches the main screen to INPUT3.       O       O       O         INPS04       INPUT3       Switches the main screen to INPUT3.       O       O       O       O         INPS04       INPUT3       Switches the main screen to INPUT3.       O	IN2	INPUT2	Switches the main screen to INPUT2.	0	0	
INA       INPUT4       Switches the main screen to INPUT4.       O       O         IN5       INPUT5       Switches the main screen to INPUT5.       O       O         INPS01       INPUT1       Displays the current input function for the main screen.       ●       ●         INPS01       INPUT1       Switches the main screen to INPUT2.       O       O       O         INPS02       INPUT2       Switches the main screen to INPUT3.       O       O       O         INPS03       INPUT4       Switches the main screen to INPUT3.       O       O       O         INPS04       INPUT5       Switches the main screen to INPUT4.       O       O       O       O         INPS05       INPUT5       Switches the main screen to INPUT4.       O	IN3	INPUT3	Switches the main screen to INPUT3.	0	0	
INS       INPUT5       Switches the main screen to INPUT5.       O       O         INP       INPUT#       Displays the current input function for the main screen.       ●       ●         INPS02       INPUT3       Switches the main screen to INPUT3.       O       O       O         INPS03       INPUT3       Switches the main screen to INPUT3.       O       O       O         INPS04       INPUT3       Switches the main screen to INPUT3.       O       O       O         INPS05       INPUT5       Switches the main screen to INPUT3.       O       O       O         INPS05       INPUT5       Switches the main screen to INPUT4.       O       O       O       O         INPS05       INPUT5       Switches the main screen to INPUT4.       O	IN4	INPUT4	Switches the main screen to INPUT4.	0	0	
INP       INPUT#       Displays the current input function for the main screen.       ●         INPS01       INPUT1       Switches the main screen to INPUT1.       O       O         INPS03       INPUT2       Switches the main screen to INPUT2.       O       O       O         INPS04       INPUT4       Switches the main screen to INPUT4.       O	IN5	INPUT5	Switches the main screen to INPUT5.	0	0	
INPS01       INPUT1       Switches the main screen to INPUT1.       O       O         INPS02       INPUT2       Switches the main screen to INPUT3.       O       O         INPS04       INPUT4       Switches the main screen to INPUT3.       O       O         INPS05       INPUT4       Switches the main screen to INPUT4.       O       O       O         INPS05       INPUT5       Switches the main screen to INPUT3.       O       O       O         ILI        Vitches the main screen to INPUT5.       O       O       O       O         LEN       FRONT INDICATOR: OFF       Turns OFF the front indicator.       O <td< td=""><td>_ INP</td><td>  INPUT# +</td><td>Displays the current input function for the main screen.</td><td></td><td>•</td><td></td></td<>	_ INP	INPUT# +	Displays the current input function for the main screen.		•	
INPS02       INPUT2       Switches the main screen to INPUT2.       O       O         INPS03       INPUT3       Switches the main screen to INPUT3.       O       O         INPS04       INPUT4       Switches the main screen to INPUT4.       O       O       O         INPS05       INPUT5       Switches the main screen to INPUT4.       O       O       O       O         ILJ       LEN       FRONT INDICATOR: OFF       Turns OFF the front indicator.       O       D	INPS01	INPUT1 +	Switches the main screen to INPUT1.		0	
INPS03       INPUT3       Switches the main screen to INPUT3.       O       O         INPS04       INPUT4       Switches the main screen to INPUT4.       O       O         INPS05       INPUT5       Switches the main screen to INPUT5.       O       O       O         LEN       FRONT INDICATOR: OFF       Turns OFF the front indicator.       O       O       O         LEY       FRONT INDICATOR: ON       Turns ON the front indicator.       O       O       O         LNN       LOUDNESS: OFF       Disables LOUDNESS.       O       O       O         IMY       LOUDNESS: ON       Enables LOUDNESS.       O       O       O         IMPS03       COLOR DECODING: *****       Displays the current COLOR DECODING.       O       O       O         MCDS01       COLOR DECODING: COMPONENT1       Sets COLOR DECODING to COMPONENT1 (Y CbCr).       O       O       O       O         MCDS03       COLOR DECODING: COMPONENT2       Sets COLOR DECODING to COMPONENT2 (Y PbPr).       O       O       O       O         MCN       MASK CONTROL: OFF       Turns OFF MASK CONTROL.       O       O       O       O       O       O       O       O       O       O       O       O       O <td< td=""><td>INPS02</td><td>INPUT2</td><td>Switches the main screen to INPUT2.</td><td></td><td>0</td><td></td></td<>	INPS02	INPUT2	Switches the main screen to INPUT2.		0	
INPS04       INPUT4       Switches the main screen to INPUT4.       O       O         INPS05       INPUT5       Switches the main screen to INPUT5.       O       O         IL       Switches the main screen to INPUT5.       O       O       O         LEN       FRONT INDICATOR: OFF       Turns OFF the front indicator.       O       O       O         LEY       FRONT INDICATOR: ON       Turns ON the front indicator.       O       O       O         LNN       LOUDNESS: OFF       Disables LOUDNESS.       O       O       O         IMT       COLOR DECODING: ******       Displays the current COLOR DECODING.       O       O       O         MCDS       COLOR DECODING: COMPONENT1       Sets COLOR DECODING to COMPONENT1 (Y CbCr).       O       O       O         MCDS01       COLOR DECODING: COMPONENT2       Sets COLOR DECODING to COMPONENT1 (Y CbCr).       O       O       O         MCDS03       COLOR DECODING: COMPONENT2       Sets COLOR DECODING to COMPONENT1 (Y CbCr).       O       O       O       O         MCN       MASK CONTROL: OFF       Turns OFF MASK CONTROL.       O       O       O       O       O       O       O       O       O       O       O       O       O       O </td <td>INPS03</td> <td>  INPUT3  </td> <td>Switches the main screen to INPUT3.</td> <td></td> <td>0</td> <td></td>	INPS03	INPUT3 	Switches the main screen to INPUT3.		0	
INPS05       INPU15       Switches the main screen to INPU15.       O       O         ILJ         LEN       FRONT INDICATOR: OFF       Turns OFF the front indicator.       O       O         LEY       FRONT INDICATOR: ON       Turns ON the front indicator.       O       O         LNY       LOUDNESS: OFF       Disables LOUDNESS.       O       O         INY       LOUDNESS: ON       Enables LOUDNESS.       O       O         IMCD       COLOR DECODING: *****       Displays the current COLOR DECODING.       O       O         MCDS       COLOR DECODING: COMPONENT1       Sets COLOR DECODING to RGB (VIDEO).       O       O         MCDS01       COLOR DECODING: COMPONENT2       Sets COLOR DECODING to COMPONENT1 (Y CbCr).       O       O         MCDS03       COLOR DECODING: COMPONENT2       Sets COLOR DECODING to COMPONENT2 (Y Pbr).       O       O         MCN       MASK CONTROL: OFF       Turns ON FMASK CONTROL.       O       O       O         MCY       MASK CONTROL: ON       Turns OFF 4 2 x 2 (A-screen multi).       O       O       O         MGF501       2 x 2: OFF       Turns OFF 2 x 2 (4-screen multi).       O       O       O       O         MGFS01       2 x 2: NORMAL UP LEFT	INPS04	INPUT4   = = = = = = = = = = = = = = = =	Switches the main screen to INPUT4.			
ILI         LEN       FRONT INDICATOR: OFF       Turns OFF the front indicator.       O         LEY       FRONT INDICATOR: ON       Turns ON the front indicator.       O         LIN       LOUDNESS: OFF       Disables LOUDNESS.       O       O         LNY       LOUDNESS: ON       Enables LOUDNESS.       O       O         IMI       MCD       COLOR DECODING: *****       Displays the current COLOR DECODING.       •         MCDS01       COLOR DECODING: COMPONENT1       Sets COLOR DECODING to COMPONENT1 (Y CbCr).       O       O         MCDS03       COLOR DECODING: COMPONENT1       Sets COLOR DECODING to COMPONENT1 (Y CbCr).       O       O         MCN       MASK CONTROL: OFF       Turns OFF MASK CONTROL.       O       O         MCY       MASK CONTROL: ON       Turns OFF MASK CONTROL.       O       O         MGF       ####################################	INPS05	INPUI5	Switches the main screen to INPU15.	0	0	
LEN       FRONT INDICATOR: OFF       Turns OFF the front indicator.       O         LEY       FRONT INDICATOR: ON       Turns ON the front indicator.       O         LNN       LOUDNESS: OFF       Disables LOUDNESS.       O       O         LNY       LOUDNESS: ON       Enables LOUDNESS.       O       O         IMI       COLOR DECODING: ******       Displays the current COLOR DECODING.       O       O         MCD       COLOR DECODING: RGB       Sets COLOR DECODING to RGB (VIDEO).       O       O         MCDS02       COLOR DECODING: COMPONENT1       Sets COLOR DECODING to COMPONENT1 (Y CbCr).       O       O         MCDS03       COLOR DECODING: COMPONENT2       Sets COLOR DECODING to COMPONENT2 (Y PbP).       O       O         MCN       MASK CONTROL: OFF       Turns OFF MASK CONTROL.       O       O       O         MCY       MASK CONTROL: ON       Turns OFF 2 x 2 (4-screen multi).       O       O       O         MGFS01       2 x 2: OFF       Turns OFF 2 x 2 (4-screen multi).       O       O       O         MGPS01       2 x 2 NORMAL UP LEFT       Sets 2 x 2 to upper left (no seam consideration).       O       O       O         MGFS01       2 x 2 NORMAL UP LEFT       Sets 2 x 2 to upper right (no seam consideration).						
LEY       FRONT INDICATOR: ON       Turns ON the front indicator.       O       O         LNN       LOUDNESS: OFF       Disables LOUDNESS.       O       O         LNY       LOUDNESS: ON       Enables LOUDNESS.       O       O         IMI       MCD       COLOR DECODING: ******       Displays the current COLOR DECODING.       •       •         MCDS01       COLOR DECODING: COMPONENT1       Sets COLOR DECODING to COMPONENT1 (Y CbCr).       O       •         MCDS03       COLOR DECODING: COMPONENT2       Sets COLOR DECODING to COMPONENT2 (Y PbPr).       O       •         MCN       MASK CONTROL: OFF       Turns ON MASK CONTROL.       O       •       •         MCY       MASK CONTROL: ON       Turns ON MASK CONTROL.       O       •       •         MGF       ####################################			Turns OFF the front indicator.	0		
LNNLOUDNESS: OFFDisables LOUDNESS.OOLNYLOUDNESS: ONEnables LOUDNESS.OOIM1Im1Im1Im1Im1Im1MCDCOLOR DECODING: ******Displays the current COLOR DECODING.OOMCDS01COLOR DECODING: COMPONENT1Sets COLOR DECODING to RGB (VIDEO).OOMCDS02COLOR DECODING: COMPONENT2Sets COLOR DECODING to COMPONENT1 (Y CbCr).OOMCNMASK CONTROL: OFFTurns OFF MASK CONTROL.OOMCYMASK CONTROL: ONTurns ON MASK CONTROL.OOMGF#################################	LEY		Turns ON the front indicator.	0		
LNYLOUDNESS: ONEnables LOUDNESS.OOIMIMCDCOLOR DECODING: ******Displays the current COLOR DECODING.•MCDS01COLOR DECODING: RGBSets COLOR DECODING to RGB (VIDEO).OMCDS02COLOR DECODING: COMPONENT1Sets COLOR DECODING to COMPONENT1 (Y CbCr).OMCDS03COLOR DECODING: COMPONENT2Sets COLOR DECODING to COMPONENT2 (Y PbPr).OMCNMASK CONTROL: OFFTurns OFF MASK CONTROL.OMCYMASK CONTROL: ONTurns ON MASK CONTROL.OMGF#################################		LOUDNESS: OFF		0	0	
IMJMCDCOLOR DECODING: ******Displays the current COLOR DECODING.•MCDS01COLOR DECODING: COMPONENT1Sets COLOR DECODING to RGB (VIDEO).•MCDS02COLOR DECODING: COMPONENT1Sets COLOR DECODING to COMPONENT1 (Y CbCr).•MCDS03COLOR DECODING: COMPONENT2Sets COLOR DECODING to COMPONENT2 (Y PbPr).•MCNMASK CONTROL: OFFTurns OFF MASK CONTROL.•MCYMASK CONTROL: ONTurns ON MASK CONTROL.•MGF#################################		LOUDNESS: ON	Enables LOUDNESS.	0	0	
MCDCOLOR DECODING: #*****Displays the current COLOR DECODING.Image: Color of the color of th					1	1
Image: Sets Color Decoding: COMPONENT1       Sets Color Decoding to RGB (rideo).       O         Image: Sets Color Decoding: ComPonent1       Sets Color Decoding to Component1 (Y CbCr).       O         Image: Sets Color Decoding: ComPonent2       Sets Color Decoding to Component2 (Y PbPr).       O         Image: Sets Color Decoding to Component2       Sets Color Decoding to Component2 (Y PbPr).       O         Image: Sets Color Decoding to Component2       Sets Color Decoding to Component2 (Y PbPr).       O         Image: Sets Color Decoding to Component2       Sets Color Decoding to Component2 (Y PbPr).       O         Image: Sets Color Decoding to Component2       Sets Color Decoding to Component2 (Y PbPr).       O         Image: Sets Color Decoding to Component2       Sets Color Decoding to Component2 (Y PbPr).       O         Image: Sets Color Decoding to Component (Y PbPr).       O       O       O         Image: Sets Color Decoding to Component (Y PbPr).       O       O       O         Image: Sets Color Decoding to Component (Y PbPr).       O       O       O         Image: Sets Color Decoding to Component (Y PbPr).       O       O       O         Image: Sets Color Decoding to Component (Y PbPr).       O       O       O         Image: Sets Color Decoding to Component (Y PbPr).       O       O       O         Image: Sets						
IMCDS02       COLOR DECODING: COMPONENT1       Sets COLOR DECODING to COMPONENT1 (* CbCr).       O         IMCDS03       COLOR DECODING: COMPONENT2       Sets COLOR DECODING to COMPONENT2 (* PbPr).       O         IMCN       MASK CONTROL: OFF       Turns OFF MASK CONTROL.       O         IMCY       MASK CONTROL: ON       Turns ON MASK CONTROL.       O         IMGF       ####################################						
MCDS03       COLOR DECODING: COMPONENT2       Sets COLOR DECODING to COMPONENT2 (1 PDP)).       O         MCN       MASK CONTROL: OFF       Turns OFF MASK CONTROL.       O         MCY       MASK CONTROL: ON       Turns ON MASK CONTROL.       O         MGF       ####################################			Sets COLOR DECODING to COMPONENT I (Y CbCr).			
MCNMASK CONTROL: OFFTurns OFF MASK CONTROL.OMCYMASK CONTROL: ONTurns ON MASK CONTROL.OMGF#################################	MCDS03		Sets COLOR DECODING to COMPONENTZ (Y PDPT).			
IMET       IMASK CONTROLLON       Initial on MASK CONTROLL       O         MGF       ####################################						
IMGI       ####################################	MGE		Diaplays the 2 x 2 ON/OEE status			
IMIGPS00       2 x 2. OFF       Inits OFF 2 x 2 (4-screen multi).       O       O         MGFS01       2 x 2: ON       Turns ON 2 x 2 (4-screen multi).       O       O         MGP       ####################################		####################################				
INITE SOLV       2 x 2 to Initiation in the solve x 2 (4-scheen multip).       O       O         MGP       ####################################						
MGP       ####################################	MCP	2 X Z. ON	Pioplave the surrent 2 x 2 coord consideration/magnification position			
MGPS01       2 x 2 NORMAL DOWN LEFT       Sets 2 x 2 to lower left (no seam consideration).       O         MGPS02       2 x 2 NORMAL DOWN LEFT       Sets 2 x 2 to lower left (no seam consideration).       O         MGPS03       2 x 2 NORMAL UP RIGHT       Sets 2 x 2 to lower right (no seam consideration).       O         MGPS04       2 x 2 NORMAL DOWN RIGHT       Sets 2 x 2 to lower right (no seam consideration).       O         MGPS05       2 x 2 ADJUSTED UP LEFT       Sets 2 x 2 to lower right (seam consideration).       O         MGPS06       2 x 2 ADJUSTED DOWN LEFT       Sets 2 x 2 to lower left (seam consideration).       O         MGPS07       2 x 2 ADJUSTED UP RIGHT       Sets 2 x 2 to upper right (seam consideration).       O         MGPS08       2 x 2 ADJUSTED DOWN LEFT       Sets 2 x 2 to upper right (seam consideration).       O         MGPS07       2 x 2 ADJUSTED UP RIGHT       Sets 2 x 2 to upper right (seam consideration).       O         MGPS08       2 x 2 ADJUSTED UP RIGHT       Sets 2 x 2 to upper right (seam consideration).       O			Sete 2 x 2 to upper left (so seem consideration/magnification position.			+
MGPS02       2 x 2 NORMAL UP RIGHT       Sets 2 x 2 to lower left (no seam consideration).       O         MGPS03       2 x 2 NORMAL UP RIGHT       Sets 2 x 2 to upper right (no seam consideration).       O         MGPS04       2 x 2 NORMAL DOWN RIGHT       Sets 2 x 2 to lower right (no seam consideration).       O         MGPS05       2 x 2 ADJUSTED UP LEFT       Sets 2 x 2 to upper left (seam consideration).       O         MGPS06       2 x 2 ADJUSTED DOWN LEFT       Sets 2 x 2 to lower left (seam consideration).       O         MGPS07       2 x 2 ADJUSTED UP RIGHT       Sets 2 x 2 to upper right (seam consideration).       O         MGPS08       2 x 2 ADJUSTED UP RIGHT       Sets 2 x 2 to upper right (seam consideration).       O			$2 = 2 \times 2$ to upper left (no searn consideration).			
MGPS04       2 x 2 NORMAL DOWN RIGHT       Sets 2 x 2 to upper light (no seam consideration).       O         MGPS05       2 x 2 ADJUSTED UP LEFT       Sets 2 x 2 to lower right (no seam consideration).       O         MGPS06       2 x 2 ADJUSTED DOWN LEFT       Sets 2 x 2 to lower left (seam consideration).       O         MGPS07       2 x 2 ADJUSTED UP RIGHT       Sets 2 x 2 to upper left (seam consideration).       O         MGPS08       2 x 2 ADJUSTED DOWN LEFT       Sets 2 x 2 to upper right (seam consideration).       O         MGPS07       2 x 2 ADJUSTED DOWN RIGHT       Sets 2 x 2 to upper right (seam consideration).       O         MGPS08       2 x 2 ADJUSTED DOWN LEFT       Sets 2 x 2 to upper right (seam consideration).       O			Sets 2 x 2 to upper right (no seam consideration).			+
INGP S04       2 x 2 NOMINIAL DOWIN RIGHT       Sets 2 x 2 to lower right (no seam consideration).       O         MGPS05       2 x 2 ADJUSTED UP LEFT       Sets 2 x 2 to upper left (seam consideration).       O         MGPS06       2 x 2 ADJUSTED DOWN LEFT       Sets 2 x 2 to lower left (seam consideration).       O         MGPS07       2 x 2 ADJUSTED UP RIGHT       Sets 2 x 2 to upper right (seam consideration).       O         MGPS08       2 x 2 ADJUSTED UP RIGHT       Sets 2 x 2 to upper right (seam consideration).       O         MGPS09       2 x 2 ADJUSTED UP RIGHT       Sets 2 x 2 to upper right (seam consideration).       O			Sets 2 x 2 to upper right (no seam consideration).			
INGESSO     I 2 x 2 ADJUSTED OF LEFT     Sets 2 x 2 to upper left (seam consideration).     O       MGPS06     2 x 2 ADJUSTED DOWN LEFT     Sets 2 x 2 to lower left (seam consideration).     O       MGPS07     2 x 2 ADJUSTED UP RIGHT     Sets 2 x 2 to upper right (seam consideration).     O       MGPS07     2 x 2 ADJUSTED UP RIGHT     Sets 2 x 2 to upper right (seam consideration).     O			Sets 2 x 2 to lower right (no seam consideration).			+
INGPSUD     I 2 x 2 ADJUSTED DOWIN LEFT     Sets 2 x 2 to lower left (seam consideration).     O       MGPS07     2 x 2 ADJUSTED UP RIGHT     Sets 2 x 2 to upper right (seam consideration).     O			Sets 2 x 2 to upper left (seam consideration).			+
			Sets 2 x 2 to lower left (seam consideration).			+
			Sets 2 x 2 to upper right (seam consideration).			

Command name	AJY (232C integrator) Display	Remarks	RS-232C Adjustment Validity	Normal Validity	Numerical Direct Validity
MIR	MIRROR MODE: ###	Displays the current MIRROR MODE setting.			
MIRS00		Turns the MIRROR MODE OFF (normal display).	0		
MIRS01		Sets the MIRROR MODE to left-right reversal.	0		
MIRS02		Sets the MIRROR MODE to up-down reversal.	0		<b></b>
MIRS03	MIRROR MODE: XY	Sets the MIRROR MODE to up-down, left-right reversal.	0		
MNR	MPEG NR: #####	Displays the current MPEG NR setting.			
MNRS00	MPEG NR: OFF	Turns MPEG NR OFF.	0		
MNRS01	MPEG NR: LOW	Sets MPEG NR to LOW.			
MNRS02	MPEG NR: MIDDLE	Sets MPEG NR to MIDDLE.			
MNRS03	MPEG NR: HIGH	Sets MPEG NR to HIGH.			
MSC	############	Displays multi-screen ON/OFF.	•	•	
MSCS00	MULTISCREEN: OFF	Turns the multi-screen OFF.		-ō-	
MSCS01	MULTISCREEN: ON	Turns the multi-screen ON.		-ō-	
MST	###########	Displays the current multi-screen type.			
MSTS01		Sets multi-screen to 2-SCREEN.		-ō-	
MSTS02		Sets multi-screen to PinP (lower right).		-ō-	
MSTS03		Sets multi-screen to PinP (upper right).		-ō-	
MSTS04	L	Sets multi-screen to PinP (upper left).		- <u></u>	
MSTS05	L	Sets multi-screen to PinP (lower left).		- <u></u>	
MSTS06	– – – – – – – – – – – – – – – – – – –	Sets multi-screen to PoutP.		- <u></u>	
MTN	VIDEO MUTING: OFF	Turns OFF video muting.	•	•	
MTY		Turns ON video muting	•	•	
101		Turne ert video mating.			
OMN	OBBITER: OFF		0		
OMY	OBBITER: ON		0		
[P]			0		
PIN	BRIGHT ENHANCE: OFF	Turns the center brightness enhancement OFF	0		
PLY		Turns the center brightness enhancement ON	0		
POF		Power OFF	0	0	
PON		Power ON		0	
PLIC	PUBECINEMA: ######	Displays the current PLIBECINEMA setting			
IB1	T ONECINEINA. ADVANCE	Sets FORECINE NA TO ADVANCED.			
ВНІ	R HIGH: ***	Adjusts R. HIGH	0		
RI W	BLOW: ***	Adjusts R. LOW			0
RSI		Adjusts the BED side mask			0
	N SIDE MASK LEVEL. ***	Aujusts the NED side mask.			
SET	SIGNAL FORMAT: ####	Displays the surrant SIGNAL FORMAT			
SETSO1	SIGNAL FORMAT:				
3F1301	VGAorYGAorSYGAor720PC	V/CA or VCA or SVCA or 720PC)			
3F1302					
351303		Sets the Signal Forivial to video 525p of video 750p.			
SF1504		Sets the SIGNAL FORMAT to PC AUTO.	0		
SHP		Aujusts the SHARPNESS.			
		Displays the current side mask setting.			
		Sets the side mask setting to normal.			
		Sets the side mask setting to UVERLAY1.			
SIIVISU3	SIDE WASK WODE: OVERLAY2	Sets the side mask setting to UVERLAY2.			
SLN					
SLY	STILL	I urns the STILL setting to ON.			

Command name	AJY (232C integrator) Display	Remarks		Normal Validity	Numerical Direct Validity
SSI	#########	Displays the current sub screen input function.		•	
SSIS01	INPUT1(SUB)	Switches the sub screen to INPUT1.	0	-ō-	
SSIS02	INPUT2(SUB)	Switches the sub screen to INPUT2.	0	-ō-	
SSIS03	INPUT3(SUB)	Switches the sub screen to INPUT3.	0	-ō-	
SSIS04	INPUT4(SUB)	Switches the sub screen to INPUT4.	0	-ō-	
SSIS05	INPUT5(SUB)	Switches the sub screen to INPUT5.	0	-ō-	
STD	STANDARD W/B	Returns the integrator PICTURE and WHITE	0		
		BALANCE to the factory settings.			
SVL	SUB VOLUME: ***	Adjusts the sub volume.	0		0
SZM	########	Displays the current screen size setting.	•		
SZMS00	Dot by Dot or PARTIAL	Sets the screen size to Dot by Dot or PARTIAL.	0	-ō-	
SZMS01	4:3	Sets the screen size to 4:3.	0	-ō-	
SZMS02	FULL or FULL1080i	Sets the screen size to FULL or FULL1080i.	0	-ō-	
SZMS03	ZOOM	Sets the screen size to ZOOM.	0	-ō-	
SZMS04		Sets the screen size to CINEMA.	0	-ō-	
SZMS05		Sets the screen size to WIDE.	0	-ō-	
SZMS08	FULL1035i	Sets the screen size to FULL1035i.	0	-ō-	
SZMS09	UNDERSCAN	Sets the screen size to UNDERSCAN.	0		
(T)					
TNT	TINT: ***	Adjusts the TINT.	0		0
[U]					
UP0	#	Adds 10 to the adjustment value.	0	0	
UPn	#	Adds n to the adjustment value (n = 1 to 9).	0	0	
UPF	#	Sets the adjustment value to maximum.	0	0	
USC	UNDERSCAN: ***	Displays the current UNDERSCAN setting.	0		
USCS00	UNDERSCAN: OFF	Turns the UNDERSCAN setting OFF.	0		
USCS01	UNDERSCAN: ON	Turns the UNDERSCAN setting ON.	0		
[V]					
VOL	VOLUME: ***	Adjusts the audio volume.	0	0	0
VPS	V. POSITION: ***	Adjusts the V POSITION.	0		0
VRO	AUDIO OUT VARIABLE	Selects variable audio output.	0		
VSI	V. SIZE: ***	Adjusts V. SIZE.	0		0

#### 1.6 GET Commands

What are GET commands?

- GET commands are for outputting TXD such as adjustment data from the internal microcomputer of the plasma display to a PC.
- Adjustment data and other information is output as ASCII code.

Note Command names are given inside brackets < >.

• Data output format

STX (02hex)	Data	Data		Data	Checksum	ETX (03hex)
-------------	------	------	--	------	----------	-------------

#### Notes

- A GET command is invalid when no ID is assigned to the set.
- A GET command is invalid when a wildcard (\*) is used as par of the ID when sending the command.

#### 1) <GST> (GET STATUS)

Order	Data Contents	Size	Remarks
1	Display data	3 Byte	See below
2	Power data	3 Byte	See below (The third character is sub input.)
3	Input function data (main)	3 Byte	Input data when GST is received (INPUT1 to 5 is displayed as IN1 to 5.)
4	Input function data (sub)	3 Byte	Sub input data when GST is received Note 3)
			(INPUT 1 to 5 is displayed as IN1 to 5.)
5	Screen size data	1 Byte	See below
6	2-screen display	1 Byte	0: OFF (1 screen) 1: 2-SCREEN 2: PinP (lower right)
			3: PinP (upper right) 4: PinP (upper left) 5: PinP (lower left)
			6: PoutP
7	FUNCTIONAL LOCK data	1 Byte	0: LOCK OFF 1: BUTTONS LOCK 2: IR LOCK
			3: IR&BUTTONS LOCK 4: MEMORY LOCK
8	Dummy data	3 Byte	(3-digit number)
9	Temperature data 2	3 Byte	(Internal temperature: Reference value) °C Note 1)
10	Temperature data 3	3 Byte	(External temperature: Reference value) °C Note 1)
11	Serial	15 Byte	
12	Dummy data	3 Byte	(3-digit number)
13	Dummy data	3 Byte	
14	HOURMETER	5 Byte	Displays the time.
15	Check sum	2 Byte	

Display data	First character	Generation data: 4 (fixed)
	Second character	Inch data: 4 (43 inch), 5 (50 inch)
	Third character	Destination data: M (fixed)
Power data	First character	Power state & signal state
	Second character	PN (POWER ON & normal signal input)
		PL (POWER ON & no input)
		PO (POWER ON & OUT OF RANGE signal input)
		SN (Normal standby)
		SW (Standby by POWER MANAGMENT)
		SS (Standby by SD or PD)
	Third character	Sub input signal state during multi-screen display Note 2)
		N (Normal signal input) L (No input)
		O (OUT OF RANGE signal input)
Screen size data	First character	0; Dot by Dot or PARTIAL 1; 4 : 3 2; FULL or FULL1080i
		3; ZOOM 4;CINEMA 5;WIDE 8;FULL1035i 9; UNDERSCAN

NOTE 1) During Standby and immediately after POWER ON, the proper value is not output. If this occurs, wait a moment after POWER ON then 'get' the data. The temperature data is output as a reference (the values are not guaranteed values). Normally, refer to temperature data 3.

NOTE 2) During Standby and during 1-screen display, the unit outputs dummy data (symbol).

NOTE 3) During Standby and during 1-screen display the unit outputs values stored in the product's memory.

Order	Data contents	Size	Remarks
1	CONTRAST	3 Byte	#
2	BRIGHTNESS	3 Byte	#
3	C. DETAIL R (RED)	3 Byte	#
4	C. DETAIL Y (YELLOW)	3 Byte	#
5	C. DETAIL G (GREEN)	3 Byte	#
6	C. DETAIL C (CYAN)	3 Byte	#
7	C. DETAIL B (BLUE)	3 Byte	#
8	C. DETAIL M (MAGENTA)	3 Byte	#
9	H.ENHANCE	3 Byte	Outputs dummy data for a video signal. #
10	V.ENHANCE	3 Byte	Outputs dummy data for a video signal. #
11	COLOR	3 Byte	Outputs dummy data for a PC signal. #
12	TINT	3 Byte	Outputs dummy data for a PC signal. #
13	SHARPNESS	3 Byte	Outputs dummy data for a PC signal. #
14	Input function data (main)	3 Byte	
15	Screen size data	1 Byte	
16	Check sum	2 Byte	

#### 2) <GPI> (GET PICTURE DATA: Gets integrator/PICTURE data.)

• 7 and 8 output the same contents as GST items 3 and 5.

• When the type of # signal is not set, dummy data is output.

#### 3) <GWB> (GET WHITE BAL. DATA: Gets integrator/WHITE BAL. data.)

Order	Data contents	Size	Remarks
1	R.HIGH	3 Byte	#
2	G.HIGH	3 Byte	#
3	B.HIGH	3 Byte	#
4	R.LOW	3 Byte	#
5	G.LOW	3 Byte	#
6	B.LOW	3 Byte	#
7	Input function data (main)	3 Byte	
8	Screen size data	1 Byte	
9	Check sum	2 Byte	

 $\bullet$  7 and 8 output the same contents as GST items 3 and 5.

• When the type of # signal is not set, dummy data is output.

#### 4) <GPS> (GET POSITION DATA: Gets integrator/SCREEN data.)

Order	Data contents	Size	Remarks
1	H.POSITION	3 Byte	#
2	V.POSITION	3 Byte	#
3	H.SIZE	3 Byte	#
4	V.SIZE	3 Byte	#
5	CLOCK	3 Byte	Outputs dummy data for PC digital and Video signal. #
6	PHASE	3 Byte	Outputs dummy data for PC digital and Video signal. #
7	Input function data (main)	3 Byte	
8	Screen size data	1 Byte	
9	Check sum	2 Byte	

 $\bullet$  7 and 8 output the same contents as GST items 3 and 5.

• When the type of # signal is not set, dummy data is output.

Order	Data contents	Size	Output	Remarks
1	GRADATION	1 Byte	1: GAMMA 2.0 2: GAMMA 1.8	#
			3: GAMMA 2.2 4: DRE MID	
			5: DRE HIGH 6: DRE LOW	
			7: HIGH CNT.	
2	BRT.ENHANCE	1 Byte	0: OFF 1: ON	#
3	SUB VOLUME	2 Byte	00 to 20	
4	COLOR TEMP.	1 Byte	1: LOW 2: MID LOW	#
			3: MIDDLE 4: MID HIGH	
			5: HIGH	
5	DNR	1 Byte	0: OFF 1: LOW	#
			2: MIDDLE 3: HIGH	
6	MPEG NR	1 Byte	0: OFF 1: LOW	#
			2: MIDDLE 3: HIGH	
7	CTI	1 Byte	0: OFF 1: ON	#
8	PURECINEMA	1 Byte	0: OFF 1: STANDARD	#
			2: ADVANCE	
9	COLOR DECODING	1 Byte	1: RGB 2: COMPONENT1	#
			3: COMPONENT2	
10	COLOR SYSTEM	1 Byte	1: AUTO 2: NTSC 3: PAL	#
			4: SECAM 5: 4.43NTSC	
			6: PAL M 7: PAL N	
11	SIGNAL FORMAT	3 Byte		# See below
12	Dummy data	3 Byte		
13	Input function data (main)	3 Byte		
14	Screen size data	1 Byte		
15	Check sum	2 Byte		

#### 5) <GSS> (GET STATUS SETUP: Gets menu and integrator SETUP data.)

SIGNAL FORMAT	S01	VGA or XGA or SXGA or 720-PC
		(720-PC can be selected only when a video card is installed)
	S02	WVGA or WXGA or SXGA+
	S03	525p or 750p (either can be selected when a video card is
		installed) or PC AUTO
	* * *	Dummy data is output if other than those above.

• 13 and 14 output the same contents as GST items 3 and 5.

• Dummy data is sent if the signal type is incorrect. This command depends upon the type of # signal.

Order	Data contents	Size	Output	Remarks
1	ENERGY SAVE	1 Byte	1: STANDARD 2: MODE 1	
			3: MODE 2 4: MODE 3	
			5: AUTO	
2	ORBITER	1 Byte	0: OFF 1: ON	
3	MASK CONTROL	1 Byte	0: OFF 1: ON	
4	AUDIO OUT	1 Byte	1: FIXED 2: VARIABLE	
5	SCREEN MASK	1 Byte	0: OFF	
			2: INVERSE 3: WHITE	
			4: RED 5: GREEN	
			6: BLUE 7: YELLOW	
6	SIDE MASK MODE	1 Byte	1: NORMAL 2: OVERLAY1	
			3: OVERLAY2	
7	R SIDE MASK LEVEL	3 Byte	000 to 255	
8	G SIDE MASK LEVEL	3 Byte	000 to 255	
9	B SIDE MASK LEVEL	3 Byte	000 to 255	
10	2 x 2	1 Byte	0: OFF 1: ON	
11	2 x 2 LAYOUT & TYPE	1 Byte	1: NORMAL&UP LEFT	
			2: NORMAL&DOWN LEFT	
			3: NORMAL&UP RIGHT	
			4: NORMAL&DOWN RIGHT	
			5: ADJUSTED&UP LEFT	
			6: ADJUSTED&DOWN LEFT	
			7: ADJUSTED&UP RIGHT	
			8: ADJUSTED&DOWN RIGHT	
12	MIRROR MODE	1 Byte	0: OFF 1: X 2: Y 3: XY	
13	OSD	1 Byte	0: OFF 1: ON	
14	FRONT INDICATOR	1 Byte	0: OFF 1: ON	
15	FAN CONTROL	1 Byte	1: AUTO 2: MAX	
16	COLOR MODE	1 Byte	1: NORMAL 2: STUDIO	
17	PRO USE UNDERSCAN	1 Byte	0: OFF 1: ON	
18	PRO USE COLOR OFF	1 Byte	0: DISABLE 1: ENABLE	
19	FRC	1 Byte	1: MODE1 2: MODE2	
			3: MODE3	
20	Dummy data	3 Byte		
21	Input function data (main)	3 Byte		
22	Screen size data	1 Byte		
23	Check sum	2 Byte		
	Total	34 Byte		

6) <GSO> (GET STATUS OPTION: Gets menu and integrator OPTION data.)

• 21 and 22 output the same contents as GST items 3 and 5.

#### Check Sum

The Check Sum is data to which 2-Byte ASCII code is added to a data group that is returned by a GET command.



Example) Check Sum value that is added when the GET command [GAA] returns the following 6-Byte data



## \*The returned data group is in capital English letters. Please keep this in mind when introducing it into the binary code.

#### Examples of check sum applications

Example 1) When the data is missing 1 Byte



Example 2) When 1 Byte of data in the data is unreadable

STX	GET command	Data	Check sum	ETX		
02 (hex)	GAA	100328	0B	03 (hex)		
data group when	47 41 is calculated ac these values are	31 30 33 30 32 38 ccording to rules by a PC applic added, the result is 1F7 (hex)	ation			
		+				
value xx, v	value xx, where xx is 09 (hex), is added to 1F7 such that the last two digits are 00 (in this case 200)					
	↓					
check sum [OB (hex)] and the calculated [09 (hex)] do not match.						
Ļ						
Since they do not match, the PC application repeats the GET command and retrieves the data again						

## 2.0 Screen Burning

When the same image is shown for a long time (still image, telop, etc.), the image is burned into to screen and may not be able to be removed. Manage this situation by making necessary changes in the video software, projection method, system configuration, etc.

This display panel has a function to reduce and/or prevent this issue.

#### Menu mode

 Mask Control Setting (refer to section 5.3.4, "Adjustment and setting in the Menu Mode; 15) Mask Control Setting" (pg. 174).

When the power is turned ON, the internal microcomputer moves the screen border or screen display position horizontally and vertically.

- Note Limited to 4:3 screen mode, DOT BY DOT mode, or multi-screen (2-screen mode, PinP mode, PoutP mode).
- ② ENERGY SAVE setting (Refer to section 5.3.4, "Adjustment and setting in the Menu Mode; 12) Energy saving Setting" (pg. 170).

The screen brightness is controlled by a combination of the input signal and the brightness of the room.

③ ORBITER Setting (Refer to section 5.3.4, "Adjustment and setting in the Menu Mode; 14) Orbiter Setting" (pg. 174).

The display position of the screen is moved horizontally and vertically approximately every eight (8) minutes.

#### Integrator Mode

 SCREEN MASK Setting (refer to section 5.4.3, "Adjustment and setting in the Integrator Mode; 8) SCREEN MASK Setting" (pg. 193).

An inverse or full mask signal is display on the screen.

When edging is properly performed beforehand using a full mask, it becomes more difficult for the screen to eperience burning.

Using an inverse signal may be an emergency measure when the screen is burned while displaying a still image; however, it is not possible to remove the burned image completely.

② SIDE MASK Setting (refer to section 5.4.3, "Adjustment and setting in the Integrator Mode; 9) SIDE MASK Setting" (pg. 194).

This setting adjusts the displaying method and the signal level of the SIDE MASK signal

#### Menu Mode and Integrator Mode

 SCREEN MANAGEMENT Setting (refer to section 5.3.4, "Adjustment and setting in the Menu Mode; 13) Screen Management Setting" (pg. 172) and section 5.4.3, "Adjustment and setting in the Integrator Mode; 7) SCREEN MANAGEMENT Setting" (pg. 190).

The content of the screen display changes on a 24-hour cycle, according to the conditions.

#### Standard Functions (Settings cannot be changed)

① Auto Brightness Adjustment (still image detection)

When an image that has little or no motion, such as a photograph or computer screen, is displayed for a long time, the screen may seem to dim. This is a function to protect the plasma panel display. The dsplay automatically adjusts the brightness and protects the screen when an image with little motion is detected. This adjustment triggers after an image with little to no motion has been detected for three (3) minutes.

Note) The setting is a built-in feature and is not found in the menu. The setting cannot be changed.

## 3.0 Precautions on Connecting Camera Images

Connecting and using moving images that are nearly still, such as images from a surveillance camera, could damage the panel, reduce the life, or be the cause of other malfunctions.

In this case, it is necessary to set the image quality beforehand.

For instructions on setting the image quality, contact your PIONEER representative.

Pioneer recommends that the 'ENERGY SAVE' mode be set to 'MODE2' or 'MODE3'.

## 4.0 Precautions

1) If the power shuts down and stays OFF for a long period of time, an internal problem may have occurred (broken part, etc.).

Turn OFF the main power switch on the plasma display then wait 1 to 2 minutes and try turning the power ON again. If the power goes OFF again, the display requires service. If the display operates normally, continue to use it.

If the display operates normally, continue to use it.

- 2) When an image (still image, telop, etc.) is shown on the screen for a long period, there is a possibility that the image could be burned in (not able to be removed). Manage this situation by making necessary changes in the video software, projection method, system configuration, etc.
- 3) The following kinds of input signals could cause inferior image quality.
  - Video signal that has been dubbed (copied) repeatedly
  - Copyright-protected video signals
  - Scrambled cable TV signals
  - Signals with a sync signal and video signal that are extremely out of phase
- 4) The fan starts operating when the surrounding temperature is greater than 35 °C. The fan's rpm becomes faster as the temperature increases; this is normal.

#### 5) Screen-saver function (still image detection)

When an image having little to no motion such as a photograph or PC screen is displayed continuously, the brightness slightly drops. To protect the plasma panel, the screen-saver function detects images with little to no motion then automatically adjusts the brightness. This dimming is not an indication that the panel is failing. Time until the screen-saver function operates:

• Normal-operation mode/menu mode: Approximate 3 minutes after the power is turned ON or after the input is switched.

#### Self-diagnosis Function

When there is an connection or operation error, a message displays on the screen. After reading the contents of the error message, refer to the chart below before checking the unit.

Error Message	Remedy
CAUTION OUT OF RANGE or CAUTION UNSUPPORTED SIGNAL or SIGNAL NG	<ul> <li>The current signal input is not supported by the unit. Check the table of supported input signals on pages 140 - 145 and change the output signal setting.</li> <li>The current signal input is not supported when FRC is set to MODE2 or MODE3. Check the FRC settings on page 208.</li> </ul>
WARNING THERMAL ALERT SHUT DOWN (**)	<ul> <li>Turn OFF the main power.</li> <li>Check whether the surrounding temperature is high.</li> <li>If the cooling vents on the display are blocked, remove the obstacles blocking the vents.</li> </ul>
WARNING FAN FAILURE SHUT DOWN (**)	• There is a problem with the fan. Immediately turn OFF the power and contact the Pioneer service center or dealer.
ERROR INVALID KEY ENTRY	<ul> <li>An invalid operation was attempted. Check the input signals, connections and settings.</li> </ul>
SHUT DOWN (**)	• Turn the main power OFF, wait 1 or 2 minutes and turn the power ON again. If the problem still persists, remove the power plug from the outlet and contact a Pioneer service center or dealer.

(\*\*): Numbers are displayed here.

#### 1) Always unplug the power cord from the power outlet before performing maintenance.

#### 2) Cabinet and Remote-control Unit

Never use solvents such as benzene or thinner to clean the unit. Using such solvents could cause the cabinet and remote control coating to degrade and peal.

Wipe the cabinet and remote control with a soft cloth. If there is heavy soiling, dip a soft cloth in clean water mixed with a mild detergent. Ring out the water well then wipe soiled areas. Finish by absorbing any moisture with a soft, dry cloth.

#### 3) Screen (front protection panel)

The screen (front protection panel) is treated with a special coating to prevent glare and is very delicate. To clean it, gently wipe with a soft cloth to remove any dust. Do not clean the front screen with a tissue or rough cloth. Also, absolutely do NOT use solvents such as benzene or thinner to clean the screen. The front panel could become transparent or discolored.

Name	Part Number
Cleaning cloth: Wiping cloth	AED1197
Cleaning cloth: Minimax	GED-009
Cleaning liquid: B4	GEM1004

The following cleaning cloths and cleaning liquid are recommended.

In the case of light soiling, remove the dust then gently wipe with a Minimax cloth. In the case of heavy soiling, remove the dust then apply a small amount of B4 cleaning liquid to a small area of the Minimax cloth and clean again. If the B4 is left on the screen, the surface may become uneven. After the B4 has dried, wipe the screen with a dry Minimax cloth.

#### 4) Vents

Dust should be removed from the cooling vents on the sides and rear of the unit and in the fan installation area once a month with a vacuum cleaner set on LOW. The main power switch must be turned OFF before cleaning the vents. Using the unit with accumulated dust causes the internal temperature to rise and could cause fire or other electrical problems.

#### 5) Readjustment of the White Balance

This unit uses phosphor elements as in a CRT display. Phosphor degrades over time, reducing the brightness. Since, green and blue phosphor elements degrade faster than red, Pioneer recommends readjusting the white balance every 1000 hours.

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## **RS-232 Command Reference Manual** For **PIONEER PDP-505CMX** Plasma Display Panel

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