

# SHARP

## PN-LA862

## PN-LA752

## PN-LA652

### INTERACTIVE DISPLAY

**OPERATION MANUAL for S-Format command**

PN-LA862-LA752-LA652 OM1 EN(2)

# Controlling the Monitor with a computer (RS-232C)

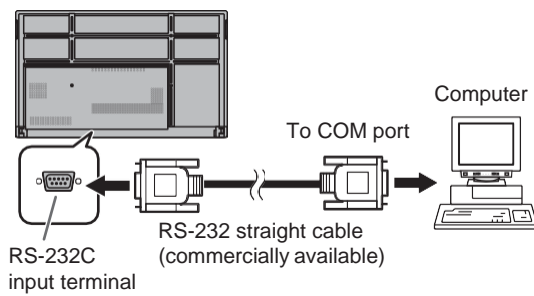
You can control this monitor from a computer via RS-232C (COM port) on the computer.

## TIPS

- Set "COMMAND (RS-232C)" to ON in "ADMIN" > "CONTROL FUNCTION" on the Setting menu.

## Computer connection

Connect with RS-232 straight cable between the computer's COM port (RS-232C connector) and the RS-232C input terminal on the monitor.



## Communication conditions

Set the RS-232C communication settings on the computer to match the monitor's communication settings as follows:

Baud rate	9600 bps
Data length	8 bits
Parity bit	None

Stop bit	1 bit
Flow control	None

# Controlling the Monitor with a computer (LAN)

You can control this monitor from a computer via network.

## TIPS

- This monitor must be connected to a network.
- Set "LAN Port" to ON in "ADMIN" > "COMMUNICATION SETTING" on the Setting menu and configure network settings in "LAN SETUP".
- Set "COMMAND (LAN)" to ON in "ADMIN" > "CONTROL FUNCTION" on the Setting menu.
- The settings for the commands are set in "NETWORK - COMMAND" on the web page.

## Command-based control

You can control the monitor using S-Format commands (see page 5) via terminal software and other appropriate applications.

Read the manual for the terminal software for detailed instructions.

## Command setting for normal communication

You can control user access by setting a login name and password.

- (1) Set "ADMIN" > "CONTROL FUNCTION" > "HTTP SERVER" to ON.
- (2) Press the INFORMATION button and check the IP address of the monitor in Product Information 2.
- (3) Input the address in the Web browser, then login page is displayed.
- (4) Login as Administrator. USER NAME: admin / PASSWORD: {default: Value registered when the power was turned on for the first time}
- (5) Select "NETWORK-COMMAND" in the side menu.
- (6) Set "COMMAND-CONTROL" to ENABLE
- (7) Set "SECURE PROTOCOL" to DISABLE (default).
- (8) Set "LOGIN AUTHENTICATION (S-FORMAT)" to ENABLE (default).
- (9) Press "APPLY" button.

## Command control via normal communication.

### (1) Connect the computer to the monitor.

1. Specify the IP address and data port number (Default setting: 10008) and connect the computer to the monitor.

When connection has been established

successfully, [Login: ] is returned as response.

2. Send the user name.

- Send [user name] + [ ].

- When the transmission is successful,

[ ] Password: ] is returned as response.

3. Send the password.

- Send [password] + [ ].

- If the password is not set, send [ ].

- When the transmission is successful, [OK

[ ] ] is returned as response.

### (2) Send commands to control the monitor.

- The commands used are the same as those for RS-232C. Refer to the communication procedure (see page 4) for operation.

- Usable commands are provided in S-Format command table (see page 5).

### (3) Disconnect the connection with the monitor and quit the function.

1. Send [BYE ]].

When the transmission is successful, [Goodbye

[ ] ] is returned and the connection is disconnected.

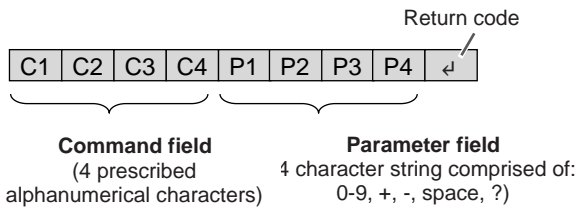
## TIPS

- You can access by settings of user name and password registered in USER NAME / PASSWORD. Default user name are "user1" or "user2". Default password is the value that registered when the power was turned on for the first time.
- When access control is not used, set [LOGIN AUTHENTICATION (S-FORMAT)] to DISABLE. In this case send [blank] + [ ] as user name and password.
- If "AUTO LOGOUT" is on, the connection will be disconnected after 15 minutes of no command communication.
- Up to 3 connections can be used at the same time.

# Communication Procedure

## ■ Command format

When a command is sent from the computer to monitor, the monitor operates according to the received command and sends a response message to the computer.



Example: VOLM0030  
VOLM 30

\* Be sure to input 4 characters for the parameter. Pad with spaces (" ") if necessary. ("␣" is a return code (0DH, 0AH or 0DH))

Right : VOLM␣␣30␣

If a command has "R" listed for "Direction" in the S-Format command table on page 5, the current value can be returned by using "?" as the parameter.

Example:

VOLM???? ← From computer to monitor (How much is current volume setting?).

30 ← From monitor to computer (Current volume setting: 30).

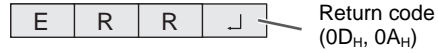
## ■ Response code format

### When a command has been executed correctly



A response is returned after a command is executed.

### When a command has not been executed



#### TIPS

- "ERR" is returned when there is no relevant command or when the command cannot be used in the current state of the monitor.
- If use only lower case characters in the command field, nothing is returned (not even ERR)
- If communication has not been established for reasons such as a bad connection between the computer and monitor, nothing is returned (not even ERR).
- "ERR" may be returned when a command cannot be received correctly due to interference from the surrounding environment. Please ensure that the system or software resends the command if this occurs.

### If execution of the command is taking some time

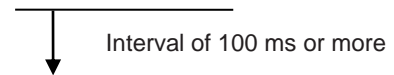


When "WAIT" is returned, a value will be returned if you wait a while. Do not send any command during this period.

## ■ Communication interval

- To set a timeout for the command response, specify 10 seconds or longer.
- Provide an interval of 100 ms or more between the command response and the transmission of the next command.

VOLM0020  
OK



INPS0001  
WAIT  
OK

#### TIPS

- When "ALL RESET" is executed, this monitor will restart. Wait at least 1 minute before sending the next command.
- Before sending a power "On" or "Off" command, it is recommended that you perform buffer clear at the sending application side.
- After executing a power "On" or "Off" command, wait at least 1 minute before sending the next command.

# S-Format Command table

## Command table

### How to read the command table

- Command: Command field (See page 4.)  
 Direction: W When the "Parameter" is set in the parameter field (see page 3), the command functions as described under "Control/Response Contents".  
 R The returned value indicated under "Reply" can be obtained by setting "???" or "\_\_\_?" in the parameter field. (See page 4.)  
 Parameter: Parameter field (See page 4.)  
 Reply: Response (Returned value)  
 \* : "●" : Indicates a command which can be used in standby state, input signal waiting state or when the power is on.  
 "○" : Indicates a command which can be used in input signal waiting state or when the power is on.  
 "△" : Indicates a command which can be used in standby state or when power is on.  
 "—" : Indicates a command which can be used when the power is on.

## Power control / Input mode selection

Function	Command	Direction	Parameter	Reply	Control/Response contents	*
Power control	POWR	W	0		Switches to standby state.	
			1		Resume from standby state	
		R	0		Standby state	
			1		Normal mode	
			2		Input signal waiting state	
Input mode selection	INPS	W	0		Toggle change for input mode.	●
		WR	10	10	HDMI1	
			13	13	HDMI2	
			14	14	DisplayPort	
			21	21	OPTION	
			27	27	USB-C	

## PICTURE menu

Function	Command	Direction	Parameter	Reply	Control/Response contents	*							
PICTURE MODE	BMOD	WR	0	0	STD								
			2	2	VIVID								
			3	3	sRGB								
			4	4	HIGH BRIGHT								
			8	8	CUSTOM								
			20	20	CONFRENCING								
			21	21	SIGNAGE								
BRIGHT	VLMP	WR	0-31	0-31		●							
BACKLIGHT DIMMING	BADI	WR	0~1	0~1	0: OFF, 1: ON								
BACKLIGHT OFF	BOMD	WR	0~1	0~1	0: Backlight OFF, 1: Backlight ON								
CONTRAST	CONT	WR	0~60	0~60									
BLACK LEVEL	BLVL	WR	0~60	0~60									
TINT	TINT	WR	0~60	0~60									
COLORS	COLR	WR	0~60	0~60									
SHARPNESS	SHRP	WR	0~24	0~24									
COLOR TEMPERATURE	WHBL	WR	0~2	0~2	0: THRU, 1: PRESET, 2: USER								
PRESET	CTMP	WR	1~28	1~28	1: 3000K ~ 15: 10000K (500K step), 16: 5600K, 17 9300K, 18: 3200K, 19: 10500K ~ 28: 15000K (500 step) ERR if the Color Temperature is not set to PRESET.								
					USER			R-CONTRAST	CRTR	WR	0~256	0~256	The contrast and offset value when the Color Temperature is set to USER. Error if the Color Temperature is not set to USER.
								G-CONTRAST	CRTG	WR	0~256	0~256	
								B-CONTRAST	CRTB	WR	0~256	0~256	
						R-OFFSET		OFSR	WR	-127~127	-127~127		
						G-OFFSET		OFSG	WR	-127~127	-127~127		
B-OFFSET	OFSB	WR	-127~127	-127~127									
COPY TO USER	CPTU	W	0		Copies the value set for PRESET to the USER setting.								
GAMMA	GAMM	WR	1	1	2.2	●							
			2	2	2.4								
			3	3	DICOM SIMULATION								
			10	10	NATIVE								
COLOR CONTROL - TINT -R	CMHR	WR	-10~10	-10~10	Increasing value, be Y(yellow). Decreasing value, be M(magenta).	●							
COLOR CONTROL - TINT -Y	CMHY	WR	-10~10	-10~10	Increasing value, be B(blue). Decreasing value, be G(green).								
COLOR CONTROL - TINT -G	CMHG	WR	-10~10	-10~10	Increasing value, be C(cyan). Decreasing value, be Y(yellow).								

Function	Command	Direction	Parameter	Reply	Control/Response contents	*
COLOR CONTROL - TINT -C	CMHC	WR	-10~10	-10~10	Increasing value, be B(blue). Decreasing value, be G(green).	
COLOR CONTROL - TINT -B	CMHB	WR	-10~10	-10~10	Increasing value, be M(magenta). Decreasing value, be C(cyan).	
COLOR CONTROL - TINT -M	CMHM	WR	-10~10	-10~10	Increasing value, be R(red). Decreasing value, be B(blue).	
COLOR CONTROL - COLORS -R	CMSR	WR	-10~10	-10~10	Increasing value, increase saturation of R(red). Decreasing value, decrease saturation of R(red).	
COLOR CONTROL - COLORS -Y	CMSY	WR	-10~10	-10~10	Increasing value, increase saturation of Y(yellow). Decreasing value, decrease saturation of Y(yellow).	●
COLOR CONTROL - COLORS -G	CMSG	WR	-10~10	-10~10	Increasing value, increase saturation of G(green). Decreasing value, decrease saturation of G(green).	
COLOR CONTROL - COLORS -C	CMSC	WR	-10~10	-10~10	Increasing value, increase saturation of C(cyan). Decreasing value, decrease saturation of C(cyan).	
COLOR CONTROL - COLORS -B	CMSB	WR	-10~10	-10~10	Increasing value, increase saturation of B(blue). Decreasing value, decrease saturation of B(blue).	
COLOR CONTROL - COLORS -M	CMSM	WR	-10~10	-10~10	Increasing value, increase saturation of M(magenta). Decreasing value, decrease saturation of M(magenta).	
Reset COLOR CONTROL	CRST	W	1		Reset COLOR CONTROL - TINT setting.	●*1
			2		Reset COLOR CONTROL - COLORS setting.	
NR	TDNR	WR	0~2	0~2	0: OFF, 1: LOW, 2: HIGH	●
RGB INPUT RANGE	INPR	WR	0~2	0~2	0: AUTO, 1: FULL, 2: LIMITED	●
DisplayPort STREAM	DPST	WR	0,2	0,2	0: SST1(DP Ver1.1), 2: SST2(DP Ver1.2)	
HDMI MODES-HDMI1	HD1M	WR	0~1	0~1	0: MODE1, 1: MODE2	
HDMI MODES-HDMI2	HD2M	WR	0~1	0~1	0: MODE1, 1: MODE2	
HDMI MODES-OPTION	OPTM	WR	0~1	0~1	0: MODE1, 1: MODE2	
HDR	HDRS	WR	0~1	0~1	0: OFF, 1: ON	○
PQ LUMINANCE	PQLU	WR	0~2	0~2	0: LOW, 1: MIDDLE, 2: HIGH	
AMBIENT LIGHT SENSING -MODE	ALSM	WR	0~1	0~1	0: OFF, 1: ON	
AMBIENT LIGHT SENSING - MAX AMBIENT LIGHT	AIBI	WR	0~100	0~100		
AMBIENT LIGHT SENSING - MAX DISPLAY BRIGHT	AIBB	WR	0~31	0~31		
AMBIENT LIGHT SENSING - MIN AMBIENT LIGHT	AIDI	WR	0~100	0~100		●
AMBIENT LIGHT SENSING - MIN DISPLAY BRIGHT	AIDB	WR	0~31	0~31		
AMBIENT LIGHT SENSING - STATUS AMBIENT LIGHT	ASIL	R		0~100		
AMBIENT LIGHT SENSING - STATUS DISPLAY BRIGHT	ASBR	R		0~31		
MOTION SENSOR - MODE	HUSM	WR	0~1	0~1	0: OFF, 1: ON	
MOTION SENSOR -AUTO OFF	HAOT	WR	1~4	1~4	1: 1 hour, 2: 2 hours, 3: 3 hours, 4: 4 hours	
DISPLAY COLOR PATTERN	PTDF	WR	0~4, 99	0~4, 99	0: OFF, 1: WHITE, 2: RED, 3: GREEN, 4: BLUE, 99: USER	○
DISPLAY COLOR PATTERN - USER - R	PTDR	WR	0~255	0~255	Red level of color pattern Respond ERR excluding if DISPLAY COLOR PATTERN is USER.	
DISPLAY COLOR PATTERN - USER - G	PTDG	WR	0~255	0~255	Green level of color pattern Respond ERR excluding if DISPLAY COLOR PATTERN is USER.	
DISPLAY COLOR PATTERN - USER - B	PTDB	WR	0~255	0~255	Blue level of color pattern Respond ERR excluding if DISPLAY COLOR PATTERN is USER.	
DISPLAY COLOR PATTERN - LEVEL	PTDL	WR	0~255	0~255	Level of color pattern Respond ERR excluding if DISPLAY COLOR PATTERN is WHITE, RED, GREEN, or BLUE.	
USB-C SETTING	USBC	WR	0~1	0~1	0: DP 2 Lane (Recommended), 1: DP 4 Lane / USB2.0	●
RESET	ARST	W	2		PICTURE RESET	—

\*1 These commands can't use in standby state when "POWER SAVE MODE" is "ON".

## AUDIO menu

Function	Command	Direction	Parameter	Reply	Control/Response contents	*
AUDIO MODE	AUMO	WR	0~3	0~3	0: STD, 1: CONFERENCING, 2: SIGNAGE, 3: CUSTOM	
VOLUME	VOLM	WR	0~31	0~31		●
TREBLE	AUTR	WR	-5~5	-5~5		
BASS	AUBS	WR	-5~5	-5~5		
BALANCE	AUBL	WR	-10~10	-10~10		
MUTE	MUTE	WR	0~1	0~1	0: OFF, 1: ON	○
AUDIO OUTPUT	AOUT	WR	0~2	0~2	0: VARIABLE1, 1: FIXED, 2: VARIABLE2	
MONAURAL AUDIO	MONO	WR	0~1	0~1	0: OFF, 1: ON	●
MUTE WITH FREEZE	FRAO	WR	0~1	0~1	0: OFF, 1: ON	
RESET	ARST	W	3		AUDIO RESET	—

## MULTI / PIP menu

Function		Command	Direction	Parameter	Reply	Control/Response contents	*	
PIP/PbyP	MODES	MWIN	WR	0~3	0~3	0: OFF, 1: PIP, 2: PbyP, 3: PbyP2		
	SIZE	MPSZ	WR	1~64	1~64			
	H-POS	MHPS	WR	0~100	0~100			
	V-POS	MVPS	WR	0~100	0~100			
	Package PIP position	MPOS	WR	xxxxyy	xxxxyy	xxx: : H-POS 0~100, yyy: V-POS 0~100		
	PIP BLEND	MWBL	WR	0~7	0~7			
	PIP SOURCE		MWIP	WR	10	10	HDMI1	
					13	13	HDMI2	
					14	14	DisplayPort	
					21	21	OPTION	
27					27	USB-C		
SOUND CHANGE	MWAD	WR	1~2	1~2	1: MAIN, 2: SUB			
MAIN POS	MWPP	WR	0~1	0~1	0: POS1, 1: POS2			
PbyP2 POS	MW2P	WR	0~2	0~2	0: POS1, 1: POS2, 2: POS3			
QUAD-SCREEN	MODE	MSCS	WR	1,4	1,4	1: OFF, 4: ON	△	
	POSITION1 INPUT SIGNAL	MSP1	WR	0	0	AUTO		
				10	10	HDMI1		
		MSP2	WR	13	13	HDMI2		
				14	14	DisplayPort		
	MSP3	WR	21	21	OPTION			
			27	27	USB-C			
	MSP4	WR						
	AUTO INPUT SEL. DisplayPort	MPDP	WR	0~10	0~10	0: Not applicable, 1~10: priority		
	AUTO INPUT SEL. HDMI1	MPH1	WR	0~10	0~10	0: Not applicable, 1~10: priority		
AUTO INPUT SEL. HDMI2	MPH2	WR	0~10	0~10	0: Not applicable, 1~10: priority			
AUTO INPUT SEL. USB-C	MPUS	WR	0~10	0~10	0: Not applicable, 1~10: priority			
SAVE LAST INPUT CONFIG	MSLI	WR	0~1	0~1	0: OFF, 1: ON			
TARGET : SOUND / INPUT SEL.	MSAO	WR	1~4	1~4	1: POSITION1 INPUT, 2: POSITION2 INPUT, 3: POSITION3 INPUT, 4: POSITION4 INPUT			

## TOUCH PANEL menu

Function		Command	Direction	Parameter	Reply	Control/Response contents	*
TOUCH INPUT SELECT (DisplayPort)		USDP	WR	0~2	0~2	0: Not applicable, 1: TOUCH PANEL, 2: USB-C	
TOUCH INPUT SELECT (HDMI1)		USHD	WR	0~2	0~2	0: Not applicable, 1: TOUCH PANEL, 2: USB-C	
TOUCH INPUT SELECT (HDMI2)		USH2	WR	0~2	0~2	0: Not applicable, 1: TOUCH PANEL, 2: USB-C	
TOUCH INPUT SELECT (USB-C)		USUC	WR	0~2	0~2	0: Not applicable, 1: TOUCH PANEL, 2: USB-C	
TOUCH INPUT SELECT (OPTION)		USOP	WR	0, 3	0, 3	0: Not applicable, 3: OPTION	
TOUCH OUTPUT INVALID ICON		TOPI	WR	0~1	0~1	0: OFF, 1: ON	
TOUCH OUTPUT INVALID ICON POSITION		TOIP	WR	0~3	0~3	0: UPPER RIGHT, 1: UPPER LEFT, 2: LOWER RIGHT, 3: LOWER LEFT	
TOUCH OPERATION MODE		TOMD	WR	0~2	0~2	0: AUTO, 1: TOUCH SCREEN MODE, 2: MOUSE MODE	
TOUCH PANEL MODE		GMDP	WR	0~1	0~1	0: OFF, 1: ON	
TOUCH OPERATION		TPEN	WR	0~1	0~1	0: Touch Panel Disable, 1: Touch Panel Enable	

## Administrator menu

Function		Command	Direction	Parameter	Reply	Control/Response contents	*
LANGUAGE		LANG	WR	1	1	Germany	
				2	2	French	
				3	3	Italian	
				4	4	Spanish	
				6	6	Japanese	
				7	7	Chinese	
				14	14	English	
DATE/TIME SETTING	DATE	WR	YYMMDDhhmm	YYMMDDhhmm	YY: Year, MM: month, DD: Day, hh: Hour, mm: Minute		
TIME ZONE		TIZO	WR	0~48	0~48	0: UTC -12: 00	
						1: UTC -11: 30	
						...	
						23: UTC -0:30	
						24: UTC -0: 00	
						25: UTC +0: 30	
...							
47: UTC +11: 30							
48: UTC +12: 00							
INTERNET TIME SERVER	INTS	WR	0~1	0~1	0: OFF, 1: ON		

Function	Command	Direction	Parameter	Reply	Control/Response contents	*	
INTERNET TIME SERVER ADDRESS	TSAD	WR	ASCII strings up to 128 characters	ASCII strings up to 128 characters	Time server name with a maximum of 128 characters		
DATE FORMAT	DTFT	WR	0~2	0~2	0: YYYY/MM/DD, 1: MM/DD/YYYY, 2: DD/MM/YYYY		
TIME FORMAT	TMFT	WR	0~1	0~1	0: 24-hour clock, 1: 12-hour clock		
DAYLIGHT SAVING	SETTING	DLSA	WR	0~1	0~1	0: OFF, 1: ON	
	BEGIN MONTH	DSBM	WR	1~12	1~12	1: Jan. ... 12: Dec.	
	BEGIN DAY (WEEKS)	DSBW	WR	0~4	0~4	0: FIRST WEEK, 1: SECOND WEEK, 2: THIRD WEEK, 3: 4 <sup>th</sup> WEEK, 4: FINAL WEEK	
	BEGIN DAY OF WEEK	DSBD	WR	0~6	0~6	0: Monday ... 6: Sunday	
	BEGIN TIME	DSBT	WR	0~23	0~23	0: 00:00 ... 23: 23:00	
	END MONTH	DSEM	WR	1~12	1~12	1: Jan. ... 12: Dec.	
	END DAY (WEEKS)	DSEW	WR	0~4	0~4	0: FIRST WEEK, 1: SECOND WEEK, 2: THIRD WEEK, 3: 4 <sup>th</sup> WEEK, 4: FINAL WEEK	
	END DAY OF WEEK	DSED	WR	0~6	0~6	0: Monday ... 6: Sunday	
	END TIME	DSET	WR	0~23	0~23	0: 00:00 ... 23: 23:00	
TIME DIFFERENCE	DSTD	WR	22~26	22~26	22: -1:00, 23: -0:30, 24: 0:00, 25: +0:30, 26: +1:00		
SCHEDULE	SC01 ~ SC08	WR	ABCDEFGFGGH	ABCDEFGFGGH	SC01 No1 schedule ... SC08 No8 schedule A: SCHEDULE Setting 0: OFF, 1: ON B: POWER 0: OFF, 1: ON C: WEEK1 0: one time, 1: every week, 2: everyday D: WEEK2 0: Sunday ... 6: Saturday, 9: no setting E: WEEK3 0: Sunday ... 6: Saturday, 9: no setting F: HOUR 00-23 G: MINUTE 00-59 H: INPUT 0: Current input 1: HDMI1 2: HDMI2 6: DisplayPort 8: OPTION A: USB-C		
BRIGHT OF SCHEDULE	SB01 ~ SB08	WR	0~31,99	0~31,99	SB01 No1 schedule ... SB08 No8 schedule Brightness setting of schedule. 0-31: Brightness value 99: Disable brightness setting		
PORTRAIT/LANDSCAPE INSTALL	STDR	WR	0~1	0~1	0: LANDSCAPE, 1: PORTRAIT		
HORIZONTAL INSTALLATION	MLAY	WR	0~1	0~1	0: OFF, 1: FACE UP		
OSD DISPLAY	LOSD	WR	0~2	0~2	0: OSD ON1, 1: OSD OFF, 2: OSD ON2		
OSD H-POS	OSDH	WR	0~100	0~100			
OSD V-POS	OSDV	WR	0~100	0~100			
POWER INDICATOR	OFLD	WR	0~1	0~1	0: LED ON, 1: LED OFF		
LOGO SCREEN	BTSC	WR	0~1	0~1	0: OFF, 1: ON		
Remote control No.	RCNO	WR	0~9	0~9			
INPUT MODE NAME DisplayPort	INDP	WR	0~30	0~30	0: NO SETTING, 1: PC1, 2: PC2, 3: PC3, 4: TV, 5: VIDEO, 6: DVD, 7: HDD, 8: DVR, 9: BD, 10: CAMERA, 11: DOCUMENT CAMERA, 12: VIDEO CAMERA, 13: VIDEO CONFERENCE, 14: WIRELESS, 15: STB, 16: CONTROLLER, 17: COMPOSITE, 18: COMPONENT, 19: RGB, 20: INPUT1, 21: INPUT2, 22: INPUT3, 23: INPUT4, 24: INPUT5, 25: INPUT6, 26: SATELLITE, 27: CABLE, 28: CAMCODER, 29: TABLET, 30: SURVEILLANCE CAMERA		
INPUT MODE NAME HDMI1	INH1	WR					
INPUT MODE NAME HDMI2	INH2	WR					
INPUT MODE NAME OPTION	INOP	WR					
INPUT MODE NAME USB-C	INUC	WR					
INPUT MODE NAME CUSTOM 1	IN1E	WR	ASCII strings up to 18 characters	ASCII strings up to 18 characters	Valid characters are half-width alphanumeric characters and symbols For setting, write "" before and after the character to be set. Example: "ABCD"		
INPUT MODE NAME CUSTOM 2	IN2E	WR					
INPUT MODE NAME CUSTOM 3	IN3E	WR					
INPUT MODE NAME CUSTOM 4	IN4E	WR					
INPUT MODE NAME CUSTOM 5	IN5E	WR					
INPUT MODE NAME CUSTOM 6	IN6E	WR					
CONNECT AUTO INPUT SELECT	AICO	WR	0~1	0~1	0: OFF, 1: ON		
NO SIGNAL AUTO INPUT SEL.	AINO	WR	0~1	0~1	0: OFF, 1: ON		
AUTO INPUT SELECT PRIORITY DisplayPort	APDP	WR	0~10	0~10	0: Not applicable, 1~10: priority		
AUTO INPUT SELECT PRIORITY HDMI1	APH1	WR	0~10	0~10	0: Not applicable, 1~10: priority		
AUTO INPUT SELECT PRIORITY HDMI2	APH2	WR	0~10	0~10	0: Not applicable, 1~10: priority		
AUTO INPUT SELECT PRIORITY OPTION	APOP	WR	0~10	0~10	0: Not applicable, 1~10: priority		
AUTO INPUT SELECT PRIORITY USB-C	APUC	WR	0~10	0~10	0: Not applicable, 1~10: priority		
HDMI CEC LINK	CELK	WR	0~1	0~1	0: OFF, 1: AUTO		
CEC POWER CONTROL LINK	ATPO	WR	0~1	0~1	0: DISABLE, 1: ENABLE		
CEC AUDIO RECEIVER	AURE	WR	0~1	0~1	0: DISABLE, 1: ENABLE		
START INPUT MODE	SUIM	WR	1~4,10,27	1~4,10,27	1: LAST INPUT, 2: DisplayPort, 3: HDMI1, 4: HDMI2, 10: OPTION, 27: USB-C		
LOCK USB-C SETTING	LKUC	WR	0~1	0~1	0: OFF, 1: ON (Disable changing USB-C SETTING in PICTURE menu.)		
CONTROL FUNCTION COMMAND (LAN)	CFCL	WR	0~1	0~1	0: OFF, 1: ON		
CONTROL FUNCTION COMMAND (RS232-C)	CFCR	WR	0~1	0~1	0: OFF, 1: ON		



Function	Command	Direction	Parameter	Reply	Control/Response contents	*	
CONTROL FUNCTION COMMAND (HTTP SERVER)	CFHS	WR	0~1	0~1	0: OFF, 1: ON		
POWER MANAGEMENT	PMNG	WR	0~1	0~1	0: OFF, 1: ON	●	
POWER SAVE MODE	STBM	WR	0~1	0~1	0: OFF, 1: ON		
QUICK START	QUST	WR	0~1	0~1	0: OFF, 1: ON	●*2	
POWER ON DELAY	PODS	WR	0~1	0~1	0: OFF, 1: ON		
INTERVAL of POWER ON DELAY	PWOD	WR	1~60	1~60	INTERVAL of POWER ON DELAY (second)		
ADJUSTMENT LOCK	ALCK	WR	0~2	0~2	0: OFF, 1: ON1, 2: ON2		
ADJUSTMENT LOCK TARGET	ALTG	WR	0~2	0~2	0: REMOTE CONTROL, 1: MONITOR BUTTON, 2: BOTH		
TEMPERATURE ALERT	TALT	WR	0~2	0~2	0: OFF, 1: OSD & LED, 2: LED	●	
STATUS ALERT	SALT	WR	0~2	0~2	0: OFF, 1: OSD & LED, 2: LED		
USB PORT FOR SERVICE	UPFS	WR	0~1	0~1	0: OFF, 1: ON		
SIGNAL RESPONSE LEVEL	HDUC	WR	1~200	1~200			
MULTIPLE DISPLAY MODE	MPDM	WR	0~1	0~1	0: OFF, 1: ON		
OPTION SLOT	POWER CONTROL	CPOW	WR	0	0	POWER OFF	△
			WR	1	1	POWER ON	
		W	5555		FORCE POWER OFF		
		W	9999		RESET		
	AUTO SHUTDOWN	CCOP	WR	0~1	0~1	0: OFF, 1: ON	
	AUTO DISPLAY OFF	OPAD	WR	0~1	0~1	0: OFF, 1: ON	
	SIGNAL SELECT	OASS	WR	0~2	0~2	0: AUTO, 1: DisplayPort, 2: TMDS	
INTERFACE CAPABILITY	OAIC	R	0~3	0~3	0: NONE, 1: DisplayPort, 2: TMDS, 3: DisplayPort, TMDS	●	
Model	INF1	R		Model name			
Serial no.	SRNO	R		Serial no			

\*2 This command can't use when "POWER SAVE MODE" is "ON"

## Function menu

Function	Command	Direction	Parameter	Reply	Control/Response contents	*
All Reset	RSET	W	0~1		0: All reset 1, 1: All reset 2	

## Others

Function	Command	Direction	Parameter	Reply	Control/Response contents	*
SIZE	WIDE	WR	1~4	1~4	1: WIDE, 2: Normal, 3: Dot by Dot, 4: Zoom	●
FREEZE	FRMD	WR	0~1	0~1	0: OFF, 1: ON	
Check the resolution	PXCK	R		-	Returns current resolution in the form of hhh, vvv.	
TEMPERATURE MONITOR	DSTA	R		0~4	0: Normal, 1: Abnormal (Power OFF), 2: Abnormal (Currently normal, but temperature abnormality occurs during use) 3: Abnormal (Low backlight brightness condition) 4: Temperature sensor abnormal	
TEMPERATURE READ	ERRT	R		Value	Temperature	
LAST POWER OFF REASON	STCA	RW	0	0	Initialize	
		R		1	Power OFF by remote controller or main button	
		R		2	AC OFF	●
		R		3	Power OFF by RS-232C/LAN	
		R		4	Standby by No Signal	
		R		6	Power OFF by temperature abnormal	
		R		8	Power OFF by schedule	
		R		10	Power OFF by HDMI CEC	
		R		11	Power OFF by Crestron	
		R		12	Power OFF by No Signal	
R		21	Auto Backlight Off by Motion sensor			

変更履歴

Revision	Date	
1.0	2023/08/25	Initial Revision
		<ul style="list-style-type: none"> <li>• Modify parameter definition of INTS command</li> <li>• Modify parameter range of PWOD command</li> </ul>