LEADER

LV 7800

MULTI RASTERIZER

INSTRUCTION MANUAL
(ETHERNET)

LEADER
ELECTRONIC MEASURING INSTRUMENTS

TABLE OF CONTENTS

1 INTRODUCTION

This manual explains how to control an LV 7800 remotely over an Ethernet. For other explanations and notes, see the main LV 7800 instruction manual.

1.1 Networks

Controlling an LV 7800 remotely through the instrument's Ethernet interface has only been confirmed to work in a local network environment. LEADER does not guarantee that you will be able to control an LV 7800 remotely through the instrument's Ethernet interface in any network environment.

1.2 Trademark Acknowledgments

Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.

2 TELNET

Through the Ethernet port on the rear panel, you can perform operations remotely from a network-connected PC. The operations that you can perform are approximately the same as those that you can perform using the front panel.

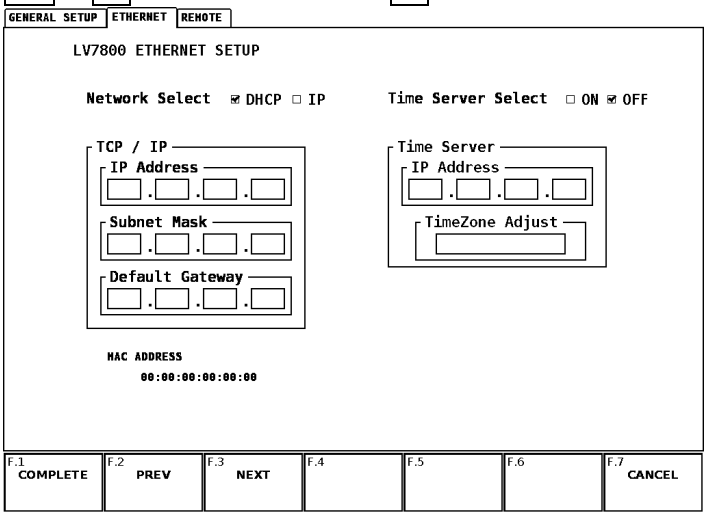
2.1 Procedure

To control an LV 7800 remotely over Telnet, follow the procedure below.

1. **Configure the Ethernet settings on the LV 7800.**

   After you have finished configuring the settings, press F•1 COMPLETE.

   SYS → F•2 PLATFORM SETUP → F•3 NEXT



2. **If you changed any settings in step 1, restart the LV 7800.**

   The new settings become valid after the instrument restarts.

3. **Connect a cable to the LV 7800 Ethernet port.**

   Use a cross cable to connect the LV 7800 to a PC directly. Use a straight cable to connect the LV 7800 to a PC through a hub.

4. **Start Telnet.** (***1**)

   After you start Telnet, the following display appears.

   ```
   LV7800 login:
   ```

5. **Enter the login name, and press Enter.**

   The login name is LV7800. Be sure to use capital letters.
   You cannot change the login name.

   ```
   LV7800 login: LV7800
   ```

6. **Enter the password, and press Enter.**

   The password is LV7800. Be sure to use capital letters.
   You cannot change the password.

   ```
   Password: LV7800 (The password is not actually displayed.)
   ```

7. Enter commands.

After you enter the password, the following command prompt appears.
Enter commands while referring to sections 2.2, “How to Enter Commands,” and 2.3, “Commands.”

```
LV7800>
```

*1 An example of running Telnet on Windows 7:
On the taskbar, click Start, and then click Run.
Type [TELNET] + [Space] + [the IP address of the LV 7800], and click OK.
(To use TELNET, open Control Panel, click Turn Windows features on or off under Program and Features, and select the Telnet Client check box.)

2.2 How to Enter Commands

The command syntax is explained below.

```
LV7800> [Command] + [Space] + [Parameter 1] + [Space] + [Parameter 2]
```

● **Precautions**

- You can enter commands using uppercase or lowercase letters.
- You can enter zero, one, or two parameters.
- You have to specify the unit number for commands that begin with [SYS:UNIT:]. Enter the unit number (1 to 4) in [Parameter 1]. Use the [SYS:UNITn_INFO] command to check which unit is installed in slot number n.
- Measurement display commands that begin with [WFM], [VECT], [PIC], [AUDIO], [STATUS], or [EYE] only apply to the area that is specified by the [DISPLAY] command.
  Entering a command for a mode that is different from the current display mode produces no effect.
- Enable Telnet flow control. If your Telnet client does not support flow control, the LV 7800 may not operate properly when commands are transferred at a high speed.
  If you absolutely can not use flow control, wait approximately 1 second between commands, or send the [REMOTE:REPLY] command to enable return values and perform software handshaking.

● **Command Entry Examples**

- Resetting the status display (no parameters):

```
LV7800> STATUS:RESET
```

- Setting the gain of the video signal waveform to five (one parameter):

```
LV7800> WFM:GAIN:MAG X5
```

- Using the SDI Input on unit 1 to detect level errors (two parameters):

```
LV7800> SYS:UNIT:ERROR:LEVEL 1 ON
```

2.3 Commands

Telnet commands follow the LV 7800 menu structure. For details on how each command works, see the instruction manuals for the LV 7800 and each unit.

2.3.1 LV 7800 Commands

● Front Panel LV 7800 (MULTI RASTERIZER)

Command	Parameter1	Description
DISPLAY	1	Selects first area
	2	Selects second area
	3	Selects third area
	4	Selects fourth area
	?	Queries the selected area
MULTI	ON	Selects multi screen display
	OFF	Selects 1 screen display
	?	Queries the multi screen display
INPUT:UNIT	UNIT1	Selects unit 1
	UNIT2	Selects unit 2
	UNIT3	Selects unit 3
	UNIT4	Selects unit 4
	?	Queries the selected unit
INPUT:CH	A	Selects channel A
	B	Selects channel B
	?	Queries the input channel
MODE	WFM	Selects the video signal waveform
	VECT	Selects vector waveform
	PIC	Selects picture display
	AUDIO	Selects audio display
	STATUS	Selects status display
	EYE	Selects eye pattern display
	?	Queries the display mode
EXT	INT	Selects internal sync signal
	EXT	Selects external sync signal
	?	Queries the sync signal
RCLL	1 to 60	Recall presets
KEYLOCK	ON	Enables the key lock.
	OFF	Disables the key lock.
	?	Queries the key lock status.

● System Settings LV 7800 (MULTI RASTERIZER)

Command	Parameter1	Description
SYS:PLATFORM:SOURCE_MODE	SINGLE	Sets the single input mode.
	MULTI	Sets the multi input mode. (Doesn't interlock with the line selection.)
	MULTI_LINE	Sets the multi input mode. (Interlocks with the line selection.)
	?	Queries the input mode.
SYS:PLATFORM:DISPLAY: MULTI_MODE	2MULTI	Sets the 2 screen display when the multi screen is selected
	4MULTI	Sets the 4 screen display when the multi screen is selected
	?	Queries the multi screen display
SYS:PLATFORM:WINDOW_MARKER	OFF	Sets the selected window to a colorlessness frame.
	BLUE	Sets the selected window to a blue frame.
	WHITE	Sets the selected window to a white frame.
	?	Queries the frame color of selected window.
SYS:PLATFORM:CAPTURE_MODE	SCREEN	Sets the capture mode to screen capture.
	VIDEO_FRAME	Sets the capture mode to frame capture.
	?	Queries the capture mode.
SYS:PLATFORM:DISPLAY:INFO: FORMAT	ON	The format is displayed.
	OFF	The format is not displayed.
	?	Queries the presence of format display setting.
SYS:PLATFORM:DISPLAY:INFO: DATE	OFF	The date is not displayed.
	YMD	Displays the date in order of the year/ month / day.
	MDY	Displays the date in order of the month/ day/ year.
	DMY	Displays the date in order of the day/ month / year.
	?	Queries the presence of date display setting and display type.
SYS:PLATFORM:DISPLAY:INFO:TIME	ON	The time is displayed.
	OFF	Time is not displayed.
	?	Queries the presence of time display setting.
SYS:PLATFORM:DISPLAY:INFO: COLOR	ON	The color system is displayed.
	OFF	The color system is not displayed.
	?	Queries the presence of color system display
SYS:PLATFORM:DISPLAY:INFO:INPUT	ON	Number of input unit and the input channel are displayed.
	OFF	Number of input unit and the input channel are not displayed.
	?	Queries the presence of setting for displaying both the number of input unit and the input channel.
SYS:PLATFORM:REMOTE_MODE	BIT	Recalls the presets from No.1 to 8 by bit.
	BINARY	Recalls the presets from No.1 to 60 by binary code.
	?	Queries the remote mode.
SYS:PLATFORM:ALARM:POLARITY	POSITIVE	High is output at the time of error detection
	NEGATIVE	Low is output at the time of error detection

Command	Parameter1	Description
	?	Queries the output polarity at the time of error detection.
SYS:PLATFORM:ALARM1:UNIT	UNIT1	Outputs the error of unit No.1 to alarm 1.
	UNIT2	Outputs the error of unit No.2 to alarm 1.
	UNIT3	Outputs the error of unit No.3 to alarm 1.
	UNIT4	Outputs the error of unit No.4 to alarm 1.
	ALL	Outputs the error of all units to alarm 1.
	?	Outputs the error of unit from No.1 to 4 to alarm 1.
SYS:PLATFORM:ALARM2:UNIT	UNIT1	Outputs the error of unit No.1 to alarm 2.
	UNIT2	Outputs the error of unit No.2 to alarm 2.
	UNIT3	Outputs the error of unit No.3 to alarm 2.
	UNIT4	Outputs the error of unit No.4 to alarm 2.
	ALL	Outputs the error of unit from No.1 to 4 to alarm 2.
	?	Queries the unit that outputs the error to alarm 2.
SYS:PLATFORM:ALARM3:UNIT	UNIT1	Outputs the error of unit No.1 to alarm 3.
	UNIT2	Outputs the error of unit No.2 to alarm 3.
	UNIT3	Outputs the error of unit No.3 to alarm 3.
	UNIT4	Outputs the error of unit No.4 to alarm 3.
	ALL	Outputs the error of unit from No.1 to 4 to alarm 3.
	?	Queries the unit that outputs the error to alarm 3.
SYS:PLATFORM:ALARM4:UNIT	UNIT1	Outputs the error of unit No.1 to alarm 4.
	UNIT2	Outputs the error of unit No.2 to alarm 4.
	UNIT3	Outputs the error of unit No.3 to alarm 4.
	UNIT4	Outputs the error of unit No.4 to alarm 4.
	ALL	Outputs the error of unit from No.1 to 4 to alarm 4.
	?	Queries the unit that outputs the error to alarm 4.
SYS:PLATFORM:ALARM1:CH	A	Outputs the error of A channel to alarm 1.
	B	Outputs the error of B channel to alarm 1.
	A/B	Outputs the error of A/B channels to alarm 1.
	?	Queries the channel that outputs the error to alarm 1.
SYS:PLATFORM:ALARM2:CH	A	Outputs the error of A channel to alarm 2.
	B	Outputs the error of B channel to alarm 2.
	A/B	Outputs the error of A/B channels to alarm 2.
	?	Queries the channel that outputs the error to alarm 2.
SYS:PLATFORM:ALARM3:CH	A	Outputs the error of A channel to alarm 3.
	B	Outputs the error of B channel to alarm 3.
	A/B	Outputs the error of A/B channels to alarm 3.
	?	Queries the channel that outputs the error to alarm 3.
SYS:PLATFORM:ALARM4:CH	A	Outputs the error of A channel to alarm 4.
	B	Outputs the error of B channel to alarm 4.
	A/B	Outputs the error of A/B channels to alarm 4.
	?	Queries the channel that outputs the error to alarm 4.
SYS:PLATFORM:ERROR_BEEP	ENABLE	Sounds the Beep Alarm when error is detected.
	DISABLE	Does not sound the Beep Alarm when error is detected.
	?	Queries whether to sound Beep Alarm when error is

Command	Parameter1	Description
		detected
SYS:DATE	YYYY/MM/DD, hh:mm:ss	Sets up the date and time.
	?	Queries the date and time
SYS:UNIT1_INFO	-	Queries the unit 1 type
SYS:UNIT2_INFO	-	Queries the unit 2 type
SYS:UNIT3_INFO	-	Queries the unit 3 type
SYS:UNIT4_INFO	-	Queries the unit 4 type
SYS:ASPECT	4:3	Sets the aspect ratio to 4:3.
	16:9	Sets the aspect ratio to 16:9.
	?	Queries the aspect ratio.
SYS:INIT	-	Initializes the LV 7800.

● Miscellaneous LV 7800 (MULTI RASTERIZER)

Command	Parameter1	Description
REMOTE:HELP	-	Displays the list of the commands.
REMOTE:REPLY (*1)	ON	Replies for the command.
	OFF	Does not reply for the command.(Default setting)

*1 When set to ON, the LV 7800 returns a reply to the command as follows:

OK: The command was processed properly.
ERR1: The number of parameters was incorrect.
ERR2: The value of a parameter was outside of its acceptable range.
ERR3: In the LV 7800's current state, the function is not valid.
-rbash:[command]:command not found: The command was incorrect.

2.3.2 LV 58SER01A Commands

● System Settings LV 58SER01A (SDI INPUT)

Command	Parameter1	Parameter2	Description
SYS:UNIT:LINK_FORMAT	1, 2, 3, 4	SINGLE	Sets the link format to single link.
		DUAL	Sets the link format to dual link.
		2K	Sets the link format to 2048 × 1080 (2K) of dual link.
		?	Queries the link format
SYS:UNIT:MANUAL_SELECT	1, 2, 3, 4	AUTO	Sets the format automatically at the time of single link.
		MANUAL	Sets the format manually at the time of single link.
		?	Queries the format at the time of single link.
SYS:UNIT:MANUAL_FORMAT	1, 2, 3, 4	1080I/60	Sets the format to 1080i/60 at the time of single link.
		1080I/59.94	Sets the format to 1080i/59.94 at the time of single link.
		1080I/50	Sets the format to 1080i/50 at the time of single link.
		1080SF/30	Sets the format to 1080PsF/30 at the time of single link.
		1080SF/29.97	Sets the format to 1080PsF/29.97 at the time of single link.
		1080SF/25	Sets the format to 1080PsF/25 at the time of single link.
		1080SF/24	Sets the format to 1080PsF/24 at the time of single link.
		1080SF/23.98	Sets the format to 1080PsF/23.98 at the time of single link.
		1080P/30	Sets the format to 1080p/30 at the time of single link.
		1080P/29.97	Sets the format to 1080p/29.97 at the time of single link.
		1080P/25	Sets the format to 1080p/25 at the time of single link.
		1080P/24	Sets the format to 1080PsF/24 at the time of single link.
		1080P/23.98	Sets the format to 1080PsF/23.98 at the time of single link.
		720P/60	Sets the format to 720p/60 at the time of single link.
		720P/59.94	Sets the format to 720p/59.94 at the time of single link.
		720P/50	Sets the format to 720p/50 at the time of single link.

Command	Parameter1	Parameter2	Description
		720P/30	Sets the format to 720p/30 at the time of single link.
		720P/29.97	Sets the format to 720p/29.97 at the time of single link.
		720P/25	Sets the format to 720p/25 at the time of single link.
		720P/24	Sets the format to 720p/24 at the time of single link.
		720P/23.98	Sets the format to 720p/23.98 at the time of single link.
		525I/59.94	Sets the format to 525i/59.94 at the time of single link.
		625I/50	Sets the format to 625i/50 at the time of single link.
SYS:UNIT:I_PSF	1, 2, 3, 4	INTERLACE	Sets the format display type to the interlace at the time of single link.
		SEG.FRAM	Sets the format display type to the segmented frame at the time of single link.
		?	Queries the format display type at the time of single link.
SYS:UNIT:DUAL:SYSTEM	1, 2, 3, 4	GBR_444	Sets the color system to GBR (4:4:4) at the time of dual link.
		YCBCR_422	Sets the color system to YCbCr (4:2:2) at the time of dual link.
		?	Queries the color system at the time of dual link.
SYS:UNIT:DUAL:DEPTH	1, 2, 3, 4	10B	Sets the number of quantization bits per pixel to 10-bit at the time of dual link.
		12B	Sets the number of quantization bits per pixel to 12-bit at the time of dual link.
		?	Queries the number of quantization bits per pixel at the time of dual link.
SYS:UNIT:DUAL:SCAN	1, 2, 3, 4	1080I	Sets the scan mode to the interlace at the time of dual link.
		1080PSF	Sets the scan mode to the segment-frame at the time of dual link.
		1080P	Sets the scan mode to the progressive at the time of dual link.
		?	Queries the scan mode at the time of dual link.
SYS:UNIT:INFO:TIME_CODE	1, 2, 3, 4	REAL	Use the built-in time function of main frame for the time display.
		LTC	Use the LTC (time code) for the time display.

Command	Parameter1	Parameter2	Description
		VITC	Use the VITC (time code) for the time display.
		D_VITC	Use the D-VITC (time code) for the time display.
		?	Queries the time display mode being displayed.
SYS:UNIT:SELECT_OUTPUT	1, 2, 3, 4	A	OUTPUT SDI A/B becomes the reclock output of A channel during single link.
		A/B	OUTPUT SDI A/B becomes the reclock output of active channel during single link.
		?	Queries the setting of the OUTPUT SDI A/B during single link.
SYS:UNIT:ERROR:TRS	1, 2, 3, 4	ON	Detects the TRS errors.
		OFF	Does not detect the TRS errors.
		?	Queries the presence of TRS error detection.
SYS:UNIT:ERROR:HD_LINE	1, 2, 3, 4	ON	Detects the line number errors.
		OFF	Does not detect the line number errors.
		?	Queries the presence of line number error detection.
SYS:UNIT:ERROR:HD_CRC	1, 2, 3, 4	ON	Detects the CRC errors.
		OFF	Does not detect the CRC errors.
		?	Queries the presence of CRC error detection.
SYS:UNIT:ERROR:SD_EDH	1, 2, 3, 4	ON	Detects the EDH errors.
		OFF	Does not detect the EDH errors.
		?	Queries the existence of EDH error detection function.
SYS:UNIT:ERROR:ILLEGAL_CODE	1, 2, 3, 4	ON	Detects the illegal code errors.
		OFF	Does not detect the illegal code errors.
		?	Queries the presence of illegal code error detection.
SYS:UNIT:ERROR:CABLE	1, 2, 3, 4	ON	Detects the cable errors.
		OFF	Does not detect the cable errors.
		?	Queries the presence of cable error detection.
SYS:UNIT:ERROR:HD_CABLE	1, 2, 3, 4	LS_5CFB	Sets the cable type to FS_5CFB for HD-SDI input.
		1694A	Sets the cable type to 1694A for HD-SDI input.
		L_7CHD	Sets the cable type to L-7CHD for HD-SDI input.
		?	Queries the cable type for HD-SDI input.
SYS:UNIT:ERROR:HD_LENGTH	1, 2, 3, 4	5 to 200	Sets the cable length (m) considered as

Command	Parameter1	Parameter2	Description
			an error for the HD-SDI input.
		?	Queries the cable length considered as an error for HD-SDI input.
SYS:UNIT:ERROR:HD_WARN	1, 2, 3, 4	5 to 200	Sets the cable length (m) considered as a warning for the HD-SDI input.
		?	Queries the cable length considered as a warning for HD-SDI input.
SYS:UNIT:ERROR:SD_CABLE	1, 2, 3, 4	L_5C2V	Sets the cable type to L_5C2V for SD-SDI input.
		8281?	Sets the cable type to 8281 for SD-SDI input.
		1505A	Sets the cable type to 1505A for SD-SDI input.
		?	Queries the cable type for SD-SDI input.
SYS:UNIT:ERROR:SD_LENGTH	1, 2, 3, 4	50 to 300	Sets the cable length (m) considered as an error for the SD-SDI input.
		?	Queries the cable length considered as an error for SD-SDI input.
SYS:UNIT:ERROR:SD_WARN	1, 2, 3, 4	50 to 300	Sets the cable length (m) considered as a warning for the SD-SDI input.
		?	Queries the cable length considered as a warning for SD-SDI input.
SYS:UNIT:ERROR:ANC:PARITY	1, 2, 3, 4	ON	Detects the parity errors in the ancillary data.
		OFF	Does not detect the parity errors in the ancillary data.
		?	Queries the presence of parity error detection in the ancillary data.
SYS:UNIT:ERROR:ANC:CHECKSUM	1, 2, 3, 4	ON	Detects the checksum errors in the ancillary data.
		OFF	Does not detect the checksum errors in the ancillary data.
		?	Queries the presence of checksum error detection in the ancillary data.
SYS:UNIT:ERROR:AUDIO:BCH	1, 2, 3, 4	ON	Detects the BCH errors in the embedded audio.
		OFF	Does not detect the BCH errors in the embedded audio.
		?	Queries the presence of BCH error detection in the embedded audio.
SYS:UNIT:ERROR:AUDIO:DBN	1, 2, 3, 4	ON	Detects the DBN errors in the embedded audio.
		OFF	Does not detect the DBN errors in the embedded audio.
		?	Queries the presence of DBN error

Command	Parameter1	Parameter2	Description
			detection in the embedded audio.
SYS:UNIT:ERROR:AUDIO:PARITY	1, 2, 3, 4	ON	Detects the parity errors in the embedded audio.
		OFF	Does not detect the parity errors in the embedded audio.
		?	Queries the presence of parity error detection in the embedded audio.
SYS:UNIT:ERROR:AUDIO:INHIBIT	1, 2, 3, 4	ON	Detects the inhibit errors in the embedded audio.
		OFF	Does not detect the inhibit errors in the embedded audio.
		?	Queries the presence of inhibit error detection in the embedded audio.
SYS:UNIT:ERROR:GAMUT:LPF	1, 2, 3, 4	HD1M_SD1M	Sets the LPF for gamut error detection to 1 MHz.
		HD2.8M_SD1M	Sets the LPF for gamut error detection to 2.8 MHz as for HD-SDI and to 1 MHz as for SD-SDI.
		OFF	Turns off the LPF for gamut error detection.
		?	Queries the LPF setting for gamut error detection.
SYS:UNIT:ERROR:GAMUT	1, 2, 3, 4	ON	Detects the gamut errors.
		OFF	Does not detect the gamut errors.
		?	Queries the presence of gamut error detection.
SYS:UNIT:ERROR:GAMUT:UPPER	1, 2, 3, 4	90.8 to 109.4	Sets the upper limit (%) of gamut error
		?	Queries the upper limit of the gamut error.
SYS:UNIT:ERROR:GAMUT:LOWER	1, 2, 3, 4	-7.2 to 6.1	Sets the lower limit (%) of gamut error
		?	Queries the lower limit of the gamut error.
SYS:UNIT:ERROR:GAMUT:AREA	1, 2, 3, 4	0.1 to 5.0	Sets the area ratio (%) for gamut error detection.
		?	Queries the area ratio for gamut error detection.
SYS:UNIT:ERROR:GAMUT:DURATION	1, 2, 3, 4	1 to 60	Sets the duration (frames) of detection for gamut error.
		?	Queries the duration of detection for gamut error.
SYS:UNIT:ERROR:C_GAMUT	1, 2, 3, 4	ON	Detects the composite gamut errors.
		OFF	Does not detect the composite gamut errors.
		?	Queries the presence of composite gamut error detection.

Command	Parameter1	Parameter2	Description
SYS:UNIT:ERROR:C_GAMUT:SETUP	1, 2, 3, 4	0P	Sets the setup to exclude when converting the composite.
		7.5P	Sets the setup to 7.5 % when converting the composite.
		?	Queries the setup value when converting the composite.
SYS:UNIT:ERROR:C_GAMUT:UPPER	1, 2, 3, 4	90.0 to 135.0	Sets the upper limit (%) of composite gamut error
		?	Queries the upper limit of the composite gamut error.
SYS:UNIT:ERROR:C_GAMUT:LOWER	1, 2, 3, 4	-40.0 to 20.0	Sets the lower limit (%) of composite gamut error
		?	Queries the lower limit of the composite gamut error.
SYS:UNIT:ERROR:C_GAMUT:AREA	1, 2, 3, 4	0.1 to 5.0	Sets the detection area (%) for composite gamut error.
		?	Queries the detection area (%) for composite gamut error.
SYS:UNIT:ERROR:C_GAMUT:DURATION	1, 2, 3, 4	1 to 60	Sets the duration of detection (frames) for gamut error.
		?	Queries the duration of detection for gamut error.
SYS:UNIT:ERROR:FREEZE	1, 2, 3, 4	ON	Detects the freeze errors.
		OFF	Does not detect the freeze errors.
		?	Queries the presence of freeze error detection.
SYS:UNIT:ERROR:FREEZE:UPPER	1, 2, 3, 4	0 to 100	Sets the detection area (upper) for freeze error. (%)
		?	Queries the detection area (upper) for freeze error.
SYS:UNIT:ERROR:FREEZE:LOWER	1, 2, 3, 4	0 to 100	Sets the detection area (lower) for freeze error. (%)
		?	Queries the detection area (lower) for freeze error.
SYS:UNIT:ERROR:FREEZE:LEFT	1, 2, 3, 4	0 to 100	Sets the detection area (left side) for freeze error. (%)
		?	Queries the detection area (left side) for freeze error.
SYS:UNIT:ERROR:FREEZE:RIGHT	1, 2, 3, 4	0 to 100	Sets the detection area (right side) for freeze error. (%)
		?	Queries the detection area (right side) for freeze error. (%)
SYS:UNIT:ERROR:FREEZE:DURATION	1, 2, 3, 4	2 to 300	Sets the duration of detection (frames) for freeze error.
		?	Queries the duration of detection for

Command	Parameter1	Parameter2	Description
			freeze error.
SYS:UNIT:ERROR:BLACK	1, 2, 3, 4	ON	Detects the black errors.
		OFF	Does not detect the black errors.
		?	Queries the presence of black error detection.
SYS:UNIT:ERROR:BLACK:LEVEL	1, 2, 3, 4	0 to 100	Sets the detection level (%) for black error.
		?	Queries the detection level for black error.
SYS:UNIT:ERROR:BLACK:AREA	1, 2, 3, 4	1 to 100	Sets the detection area (%) for black error.
		?	Queries the detection area for black error.
SYS:UNIT:ERROR:BLACK:DURATION	1, 2, 3, 4	1 to 300	Sets the duration of detection (frames) for black error.
		?	Queries the duration of detection for black error.
SYS:UNIT:ERROR:LEVEL	1, 2, 3, 4	ON	Detects the level errors.
		OFF	Does not detect the level errors.
		?	Queries the presence of level error detection.
SYS:UNIT:ERROR:LEVEL:RUMA: UPPER	1, 2, 3, 4	-51 to 766	Sets the upper limit (mV) of luminance level.
		?	Queries the upper limit of luminance level.
SYS:UNIT:ERROR:LEVEL:RUMA: LOWER	1, 2, 3, 4	-51 to 766	Sets the lower limit (mV) of luminance level.
		?	Queries the lower limit of luminance level.
SYS:UNIT:ERROR:LEVEL:CHROMA: UPPER	1, 2, 3, 4	-400 to 399	Sets the upper limit (mV) of chroma difference level.
		?	Queries the upper limit of chroma difference level.
SYS:UNIT:ERROR:LEVEL:CHROMA: LOWER	1, 2, 3, 4	-400 to 399	Sets the lower limit (mV) of chroma difference level.
		?	Queries the lower limit of chroma difference level.

● WFM LV 58SER01A (SDI INPUT)

Command	Parameter 1	Description
WFM	-	Displays the video signal waveform.
WFM:CH1	ON	Displays CH1.
	OFF	Does not display CH1
	?	Queries the presence of CH1 display.
WFM:CH2	ON	Displays CH2.
	OFF	Does not display CH2
	?	Queries the presence of CH2 display.
WFM:CH3	ON	Displays CH3.
	OFF	Does not display CH3
	?	Queries the presence of CH3 display.
WFM:OVLAY	ON	Sets overlay display.
	OFF	Sets parade display.
	?	Queries the display mode.
WFM:INTEN:WFM	-128 to 127	Adjusts the intensity of the video waveforms.
	?	Queries the intensity of the video waveforms.
WFM:COLOR	WHITE	Sets the waveform display color to white.
	GREEN	Sets the waveform display color to green.
	MULTI	Sets the waveform display color as follows: Y: Yellow, Cb: Cyan, Cr: Magenta, G: Green, B: Blue, and R: Red.
	?	Queries the waveform display color.
WFM:INTEN:SCALE	-8 to 7	Adjusts the intensity of the scale.
	?	Queries the intensity of the scale.
WFM:SCALE:UNIT	HDV_SDP	Sets the scale unit to V for HD-SDI and % for SD-SDI.
	HDV_SDV	Sets the scale unit to V.
	HDP_SDP	Sets the scale unit to %.
	?	Queries the scale unit.
WFM:SCALE:COLOR75P	ON	Displays the 75% scale.
	OFF	Does not display the 75% scale.
	?	Queries the presence of the 75% scale display.
WFM:SCALE:COLOR	WHITE	Sets the scale color to white.
	YELLOW	Sets the scale color to yellow.
	CYAN	Sets the scale color to cyan.
	GREEN	Sets the scale color to green.
	MAGENTA	Sets the scale color to magenta.
	RED	Sets the scale color to red.
	BLUE	Sets the scale color to blue.
	?	Queries the scale color.
WFM:GAIN:VAR	CAL	Sets the gain mode of the waveform to a constant (x1).
	VAR	Sets the gain mode of the waveform to variable (×0.200 to ×2.000).
	?	Queries the gain mode setting.
WFM:GAIN:VAL	0.200 to 2.000	Sets the variable gain value of the waveform.
	?	Queries the variable gain value of the waveform.
WFM:GAIN:MAG	X1	Sets the magnification of the waveform to x1.

Command	Parameter 1	Description
	X5	Sets the magnification of the waveform to x5.
	?	Queries the magnification of the waveform.
WFM:SWEEP:SWEEP	H	Sets the sweep mode to the line display.
	V	Sets the sweep mode to the field or frame display.
	?	Queries the sweep mode setting.
WFM:SWEEP:H_SWEEP	1H	Sets 1 line display.
	2H	Sets 2 line display.
	?	Queries the line display setting.
WFM:SWEEP:V_SWEEP	1V	Sets 1 frame display if the input signal is progressive. Sets 1 field display if the input signal is interlace or segmented frame.
	2V	Sets 1 frame display.
	?	Queries the field or frame display setting
WFM:SWEEP:H_MAG	X1	In case of line display, set the sweep magnification so that the waveform fits on the screen.
	X10	In case of line display, set the sweep magnification to x10 with respect to x1.
	X20	In case of line display, set the sweep magnification to x20 with respect to x1.
	ACTIVE	In case of line display, display to magnify the waveform in the active period.
	BLANK	In case of line display, display to magnify the waveform in the H blanking period.
	?	Queries the sweep magnification mode in case of line display.
WFM:SWEEP:V_MAG	X1	In case of field (frame) display, set the sweep magnification so that the waveform fits on the screen.
	X20	In case of field (frame) display, set the sweep magnification to x20 with respect to X1.
	X40	In case of field (frame) display, set the sweep magnification to x40 with respect to X1.
	?	Queries the sweep magnification mode in case of field (frame) display.
WFM:SWEEP:FIELD	FIELD1	Displays the waveform of field 1.
	FIELD2	Displays the waveform of field 2.
	?	Queries the selected field.
WFM:LINE_SELECT	ON	Enables the line select function.
	OFF	Disables the line select function.
	?	Queries the line select function.
WFM:LINE_FIELD	FIELD1	Sets the selection range of the line select to field 1.
	FIELD2	Sets the selection range of the line select to field 2.
	FRAME	Sets the selection range of the line select to frame.
	?	Queries the selection range of the line select.
WFM:LINE_NUMBER	Example) 1 to 1125	Sets the line of the line select.

Command	Parameter 1	Description
	(Depending on the format)	
	?	Queries the selected line of the line select.
WFM:FILTER:NORMAL	FLAT	Sets the filter to Flat for the component display.
	LOWPASS	Sets the filter to LPF for the component display.
	?	Queries the filter setting for the component display.
WFM:FILTER:COMPOSITE	FLAT	Sets the filter to Flat when displaying the pseudo-composite.
	FLAT_LUM	Sets the filter to Flat and to parade display of the luminance signal when displaying the pseudo-composite.
	LUM_CHROMA	Sets the filter to luminance signal and to parade display of the color signal when displaying the pseudo-composite.
	?	Queries the filter setting when displaying the pseudo-composite.
WFM:BLANKING:NORMAL	REMOVE	Displays the active period for the component display.
	H_VIEW	Displays the active period and the horizontal blanking period for the component display.
	V_VIEW	Displays the active period and the vertical blanking period for the component display.
	ALL_VIEW	Displays the entire input signal for the component display.
	?	Queries the blanking period display for the component display.
WFM:BLANKING:COMPOSITE	REMOVE	Displays the active period when displaying the pseudo-composite.
	V_VIEW	Displays the active period and the vertical blanking period when displaying the pseudo-composite.
	?	Queries the blanking period display when displaying the pseudo-composite.
WFM:PERSISTENCE	ON	Sets the persistence display to enabe.
	OFF	Sets the persistence display to disable.
	INFINIT	Overlays the waveform.
	?	Queries the persistence display setting.
WFM:PERSIST_CLEAR	-	Clears the overlaid waveforms.
WFM:SPECIAL_FORM	NORMAL	Sets the SPECIAL FORM display to disable.
	TIMING	Sets the SPECIAL FORM display to TIMING.
	4Y_PARADE	Sets the SPECIAL FORM display to 4Y PARADE.
	?	Queries the SPECIAL FORM display setting.
WFM:MATRIX	YCBCR	Sets the color matrix to YCbCr display.
	GBR	Sets the color matrix to GBR display.
	RGB	Sets the color matrix to RGB display.
	COMPOSITE	Sets the color matrix to pseudo-composite display.
	?	Queries the color matrix setting.
WFM:MATRIX:YGBR	ON	Displays the luminance signal when displaying RGB.
	OFF	Does not display the luminance signal when displaying RGB.

Command	Parameter 1	Description
	?	Queries the presence of luminance signal when displaying RGB.
WFM:MATRIX:YRGB	ON	Displays the luminance signal when displaying RGB.
	OFF	Does not display the luminance signal when displaying RGB.
	?	Queries the presence of luminance signal when displaying RGB.
WFM:MATRIX:COMPOSITE:FORMAT	AUTO	Selects NTSC or PAL automatically when displaying the pseudo-composite.
	NTSC	Displays NTSC when displaying the pseudo-composite.
	PAL	Displays PAL when displaying the pseudo-composite.
	?	Queries the display format of the pseudo-composite display.
WFM:MATRIX:SETUP	0P	Sets the setup to exclude when displaying the pseudo-composite.
	7.5P	Sets the setup to 7.5% when displaying the pseudo-composite.
	?	Queries the setup value of the pseudo-composite display.

● VEC LV 58SER01A (SDI INPUT)

Command	Parameter1	Description
VECTOR	-	Displays vector waveforms.
VECTOR:INTEN:VECTOR	-128 to 127	Sets the intensity of the vector waveform.
	?	Queries the intensity of the vector waveform.
VECTOR:COLOR	WHITE	Sets the waveform display color to white.
	GREEN	Sets the waveform display color to green.
	?	Queries the waveform display color.
VECTOR:INTEN:SCALE	-8 to 7	Sets the intensity of the scale.
	?	Queries the intensity of the scale.
VECTOR:SCALE:IQ	ON	Displays the IQ axis.
	OFF	Does not display the IQ axis.
	?	Queries the presence of displaying the IQ axis.
VECTOR:SCALE:COLOR	WHITE	Sets the scale color to white.
	YELLOW	Sets the scale color to yellow.
	CYAN	Sets the scale color to cyan.
	GREEN	Sets the scale color to green.
	MAGENTA	Sets the scale color to magenta.
	RED	Sets the scale color to red.
	BLUE	Sets the scale color to blue.
	?	Queries the scale color.
VECTOR:GAIN:VAR	CAL	Sets the gain of the waveform to a constant value (×1).
	VAR	Sets the gain of the waveform to variable (×0.200 to ×2.000).
	?	Queries the gain setting of the waveform.
VECTOR:GAIN:VAL	0.200 to 2.000	Sets the variable gain value of the waveform.
	?	Queries the variable gain value of the waveform.
VECTOR:GAIN:MAG	X1	Sets the gain factor of the waveform to ×1.
	X5	Sets the gain factor of the waveform to ×5.
	IQ	Sets the gain factor so that the IQ signal is positioned at the circumference.
	?	Queries the gain factor of the waveform.
VECTOR:LINE_SELECT	ON	Enables the line select function.
	OFF	Disables the line select function.
	?	Queries the line select function.
VECTOR:LINE_FIELD	FIELD1	Sets the selection range of the line select to field 1.
	FIELD2	Sets the selection range of the line select to field 2.
	FRAME	Sets the selection range of the line select to frame.
	?	Queries the selection range of the line select.
VECTOR:LINE_NUMBER	Example) 1 to 1125 (Depending on the format)	Sets the line of the line select.
	?	Queries the selected line of the line select.
VECTOR:MATRIX	COMPONENT	Sets the color matrix to component display.
	COMPOSITE	Sets the color matrix to pseudo-composite display.
	?	Queries the color matrix setting.

Command	Parameter1	Description
VECTOR:MATRIX:COMPOSITE:FORMAT	AUTO	Selects NTSC or PAL automatically when displaying the pseudo-composite.
	NTSC	Displays NTSC when displaying the pseudo-composite.
	PAL	Displays PAL when displaying the pseudo-composite.
	?	Queries the display format of the pseudo-composite display.
VECTOR:MATRIX:SETUP	0P	Sets the setup to exclude when displaying the pseudo-composite.
	7.5P	Sets the setup to 7.5% when displaying the pseudo-composite.
	?	Queries the setup value of the pseudo-composite display.
VECTOR:MATRIX:COLORBAR	100P	Sets the scale that matches the 100% color bar.
	75P	Sets the scale that matches the 75% color bar.
	?	Queries the scale setting.
VECTOR:MODE	VECTOR	Sets the vector waveform display.
	5BAR	Sets the 5 BAR display.
	?	Queries the display mode.
VECTOR:5BAR:MATRIX	GBR	Sets the displayed order of the 5 BAR display to GBR.
	RGB	Sets the displayed order of the 5 BAR display to RGB.
	?	Queries the displayed order of the 5 BAR display.
VECTOR:5BAR:UNIT	MV	Sets the scale unit of the 5 BAR display to mV.
	PER	Sets the scale unit of the 5 BAR display to %.
	?	Queries the scale unit of the 5 BAR display.
VECTOR:PERSISTENCE	ON	Sets the persistence characteristics to be applied.
	OFF	Sets the persistence characteristics not to be applied.
	INFINIT	Sets the overlaying of the waveforms.
	?	Queries the persistence display setting.
VECTOR:PERSIST_CLEAR	-	Clears the overlaying of the waveform.

● PIC LV 58SER01A (SDI INPUT)

Command	Parameter1	Description
PICTURE	-	Displays the pictures.
PICTURE:BRIGHT	-30 to 30	Adjusts the brightness of the picture display (%).
	?	Queries the brightness of the picture display.
PICTURE:CONTRAST	0.70 to 1.30	Adjusts the contrast of the picture display.
	?	Queries the contrast of the picture display.
PICTURE:GAIN:R	0.70 to 1.30	Adjusts the gain of the R signal.
	?	Queries the gain of the R signal.
PICTURE:GAIN:G	0.70 to 1.30	Adjusts the gain of the G signal.
	?	Queries the gain of the G signal.
PICTURE:GAIN:B	0.70 to 1.30	Adjusts the gain of the B signal.
	?	Queries the gain of the B signal.
PICTURE:BIAS:R	-0.30 to 0.30	Adjusts the bias of the R signal (×100%).
	?	Queries the bias of the R signal.
PICTURE:BIAS:G	-0.30 to 0.30	Adjusts the bias of the G signal (×100%).
	?	Queries the bias of the G signal.
PICTURE:BIAS:B	-0.30 to 0.30	Adjusts the bias of the B signal (×100%).
	?	Queries the bias of the B signal.
PICTURE:MARKER:4_3	ON	Displays the 4:3 aspect marker.
	OFF	Does not display the 4:3 aspect marker.
	?	Queries the presence of displaying the 4:3 aspect marker.
PICTURE:MARKER:16_9	ON	Displays the 16:9 aspect marker.
	OFF	Does not display the 16:9 aspect marker.
	?	Queries the presence of displaying the 16:9 aspect marker.
PICTURE:MARKER:SAFE_ACTION	ON	Displays the safe action markers.
	OFF	Does not display the safe action markers.
	?	Queries the presence of displaying the safe action markers.
PICTURE:MARKER:SAFE_TITLE	ON	Displays the safe title markers.
	OFF	Does not display the safe title markers.
	?	Queries the presence of displaying the safe title markers.
PICTURE:MARKER:CENTER	ON	Displays the center marker.
	OFF	Does not display the center marker.
	?	Queries the presence of displaying the center marker.
PICTURE:LINE_SELECT	ON	Displays the line select marker.
	OFF	Does not display the line select marker.
	?	Queries the line select marker.
PICTURE:LINE_FIELD	FIELD1	Sets the selection range of the line select to field 1.
	FIELD2	Sets the selection range of the line select to field 2.
	FRAME	Sets the selection range of the line select to frame.
	?	Queries the selection range of the line select.
PICTURE:LINE_NUMBER	Example) 1 to 1125 (Depending on the format)	Sets the line of the line select.
	?	Queries the selected line of the line select.

Command	Parameter1	Description
PICTURE:SIZE	FIT	Displays the picture size optimized.
	REAL	Displays each sample of the video signal as a pixel of the LCD.
	FULL_FRM	Displays a frame including the blanking period.
	?	Queries the picture size.
PICTURE:GAMUT_ERROR	ON	Displays the gamut errors.
	OFF	Does not display the gamut errors.
	?	Queries the presence of displaying the gamut errors.
PICTURE:GAMUT_PATTERN	WHITE	Sets the color of gamut error to white.
	RED	Sets the color of gamut error to red.
	MESH	Sets the color of gamut error to mesh pattern.
	?	Queries the color of gamut error.
PICTURE:AFD	ON	Displays AFD codes.
	OFF	Does not display AFD codes.
	?	Queries whether AFD codes are displayed or not.
PICTURE:S_IMPOSE:STD	OFF	Does not display the closed caption data.
	SMPTE	Displays the SMPTE closed caption data.
	ARIB	Displays the ARIB closed caption.
	?	Queries the displayed CC type.
PICTURE:S_IMPOSE:FMT_SMPTE	FMT_608_708	Displays the 608(708) closed caption data.
	FMT_608_608	Displays the 608(608) closed caption data.
	FMT_VBI	Displays the VBI closed caption data.
	FMT_708	Displays the 708(708) closed caption data.
	?	Queries the displayed CC format.
PICTURE:S_IMPOSE:DISP_608	CC1	Displays the CC1 other than 708(708).
	CC2	Displays the CC2 other than 708(708).
	CC3	Displays the CC3 other than 708(708).
	CC4	Displays the CC4 other than 708(708).
	TEXT1	Displays the TEXT1 other than 708(708).
	TEXT2	Displays the TEXT2 other than 708(708).
	TEXT3	Displays the TEXT3 other than 708(708).
	TEXT4	Displays the TEXT4 other than 708(708).
	?	Queries the displayed closed caption type other than 708(708).
PICTURE:S_IMPOSE:DISP_708	1 to 63	Sets the service number of 708(708).
	?	Queries the service number of 708(708).
PICTURE:S_IMPOSE:FMT_ARIB	HD	Displays the ARIB HD closed caption.
	SD	Displays the ARIB SD closed caption.
	ANALOG	Displays the ARIB analog closed caption.
	CELLULAR	Displays the ARIB cellular closed caption.
PICTURE:S_IMPOSE:DISP_ARIB	1	Displays the first language of the ARIB closed caption.
	2	Displays the second language of the ARIB closed caption.

● STATUS LV 58SER01A (SDI INPUT)

Command	Parameter1	Description
STATUS	-	Displays the status.
STATUS:LOG	-	Displays the event log screen.
STATUS:LOG:LOG	START	Starts the event log.
	STOP	Stops the event log.
	?	Queries the event log status.
STATUS:LOG:CLEAR	-	Clears the event log.
STATUS:LOG:MODE	OVER_WR	Configures the LV 7800 to overwrite events when the event log exceeds 5000 events.
	STOP	Configures the LV 7800 to stop recording events when the event log exceeds 5000 events.
	?	Queries what the LV 7800 will do when the event log exceeds 5000 events.
STATUS:DUMP	-	Displays the data dump screen.
STATUS:DUMP:MODE	RUN	Automatically update the data dump.
	HOLD	Holds the data dump displaying.
	FRM_CAP	Displays the data dump of the frame captured.
	?	Queries the display mode of the data dump.
STATUS:DUMP:DISPLAY	SERIAL	Displays the data dump as a serial data array during single link.
	COMPONENT	In the single link display, displays the data dump that has been separated into Y, C_B, and C_R.
	BINARY	Displays the data dump as a binary notation during single link.
	?	Queries the data dump display format during single link.
STATUS:DUMP:DISPLAY_DUAL	A	Displays the link A as a serial data array during dual link.
	B	Displays the link B as a serial data array during dual link.
	A/B	Displays the parallel data array by combining link A and B during dual link.
	?	Queries the data dump display format during dual link.
STATUS:DUMP:EAV	-	Displays the data dump from EAV.
STATUS:DUMP:SAV	-	Displays the data dump from SAV.
STATUS:DUMP:LINE_NUMBER	Example) 1 to 1125 (Depending on the format)	Sets the line number of the data dump display.
STATUS:DUMP:SAMPLE	Example) 0 to 2199 (Depending on the format)	Sets the sample number of the head of the data dump display.
STATUS:COUNTER	SEC	The error count is updated in unit of seconds, and it displays as number of times.
	FIELD	The error count is updated in unit of fields, and it displays as number of times.
	PER_FIELD	The error count is updated in unit of fields, and it displays as a percentage.
	?	Queries the updating unit and displaying unit of the error count.

Command	Parameter1	Description
STATUS:RESET	-	Clears the error count.

2.3.3 LV 58SER02 Commands

● System Settings LV 58SER02 (EYE PATTERN unit)

Command	Parameter1	Parameter2	Description
SYS:UNIT:ERROR:HD_AMP	1, 2, 3, 4	ON	Enables the amplitude error detection for HD.
		OFF	Disables the amplitude error detection for HD.
		?	Queries the presence of the amplitude error detection for HD.
SYS:UNIT:ERROR:HD_AMP:UPPER	1, 2, 3, 4	80 to 140	Sets the upper limit (%) of the amplitude error for HD.
		?	Queries the upper limit of the amplitude error for HD.
SYS:UNIT:ERROR:HD_AMP:LOWER	1, 2, 3, 4	40 to 100	Sets the lower limit (%) of the amplitude error for HD.
		?	Queries the lower limit of the amplitude error for HD.
SYS:UNIT:ERROR:HD_RISE	1, 2, 3, 4	ON	Enables the error detection of the rise time for HD.
		OFF	Disables the error detection of the rise time for HD.
		?	Queries the presence of the error detection of the rise time for HD.
SYS:UNIT:ERROR:HD_RISE:MAX	1, 2, 3, 4	40 to 140	Sets the upper limit (%) of the rise time for HD.
		?	Queries the upper limit of the rise time for HD.
SYS:UNIT:ERROR:HD_FALL	1, 2, 3, 4	ON	Enables the error detection of the fall time for HD.
		OFF	Disables the error detection of the fall time for HD.
		?	Queries the presence of the error detection of the fall time for HD.
SYS:UNIT:ERROR:HD_FALL:MAX	1, 2, 3, 4	40 to 140	Sets the upper limit (%) of the fall time for HD.
		?	Queries the upper limit of the fall time for HD.
SYS:UNIT:ERROR:HD_DELTA	1, 2, 3, 4	ON	Detects the error related to the difference between the rise time (Tr) and fall time (Tf) for HD.
		OFF	Does not detect the error (Tr-Tf) for HD.
		?	Queries the presence of the error (Tr-Tf) detection for HD.

Command	Parameter1	Parameter2	Description
SYS:UNIT:ERROR:HD_DELTA:MAX	1, 2, 3, 4	40 to 140	Sets the upper limit (%) of the error (Tr-Tf) for HD.
		?	Queries the upper limit of the error (Tr-Tf) for HD.
SYS:UNIT:ERROR:HD_TIMING_JIT	1, 2, 3, 4	ON	Detects the error of timing jitter value for HD.
		OFF	Does not detect the error of timing jitter value for HD.
		?	Queries the presence of error detection of timing jitter value for HD.
SYS:UNIT:ERROR:HD_TIMING_JIT:MAX	1, 2, 3, 4	10 to 200	Sets the upper limit (%) of the timing jitter for HD.
		?	Queries the upper limit of the timing jitter for HD.
SYS:UNIT:ERROR:HD_CURRENT_JIT	1, 2, 3, 4	ON	Detects the error of current jitter value for HD.
		OFF	Does not detect the error of current jitter value for HD.
		?	Queries the presence of error detection of current jitter value for HD.
SYS:UNIT:ERROR:HD_CURRENT_JIT:MAX	1, 2, 3, 4	10 to 200	Sets the upper limit (%) of the current jitter for HD.
		?	Queries the upper limit of the current jitter for HD.
SYS:UNIT:ERROR:SD_AMP	1, 2, 3, 4	ON	Enables the amplitude error detection for SD.
		OFF	Disables the amplitude error detection for SD.
		?	Queries the presence of the amplitude error detection for SD.
SYS:UNIT:ERROR:SD_AMP:UPPER	1, 2, 3, 4	80 to 140	Sets the upper limit (%) of the amplitude error for SD.
		?	Queries the upper limit of the amplitude error for SD.
SYS:UNIT:ERROR:SD_AMP:LOWER	1, 2, 3, 4	40 to 100	Sets the lower limit (%) of the amplitude error for SD.
		?	Queries the lower limit of the amplitude error for SD.
SYS:UNIT:ERROR:SD_RISE	1, 2, 3, 4	ON	Enables the error detection of the rise time for SD.
		OFF	Disables the error detection of the rise time for SD.
		?	Queries the presence of the error detection of the rise time for SD.
SYS:UNIT:ERROR:SD_RISE:MAX	1, 2, 3, 4	40 to 140	Sets the upper limit (%) of the rise time

Command	Parameter1	Parameter2	Description
			for SD.
		?	Queries the upper limit of the rise time for SD.
SYS:UNIT:ERROR:SD_FALL	1, 2, 3, 4	ON	Enables the error detection of the fall time for SD.
		OFF	Disables the error detection of the fall time for SD.
		?	Queries the presence of the error detection of the fall time for SD.
SYS:UNIT:ERROR:SD_FALL:MAX	1, 2, 3, 4	40 to 140	Sets the upper limit (%) of the fall time for SD.
		?	Queries the upper limit of the fall time for SD.
SYS:UNIT:ERROR:SD_DELTA	1, 2, 3, 4	ON	Detects the error related to the difference between the rise time (Tr) and fall time (Tf) for SD.
		OFF	Does not detect the error (Tr-Tf) for SD.
		?	Queries the presence of the error (Tr-Tf) detection for SD.
SYS:UNIT:ERROR:SD_DELTA:MAX	1, 2, 3, 4	40 to 140	Sets the upper limit (%) of the error (Tr-Tf) for SD.
		?	Queries the upper limit of the error (Tr-Tf) for SD.
SYS:UNIT:ERROR:SD_TIMING_JIT	1, 2, 3, 4	ON	Detects the error of timing jitter value for SD.
		OFF	Does not detect the error of timing jitter value for SD.
		?	Queries the presence of error detection of timing jitter value for SD.
SYS:UNIT:ERROR:SD_TIMING_JIT:MAX	1, 2, 3, 4	10 to 200	Sets the upper limit (%) of the timing jitter for SD.
		?	Queries the upper limit of the timing jitter for SD.
SYS:UNIT:ERROR:SD_CURRENT_JIT	1, 2, 3, 4	ON	Detects the error of current jitter value for SD.
		OFF	Does not detect the error of current jitter value for SD.
		?	Queries the presence of error detection of current jitter value for SD.
SYS:UNIT:ERROR:SD_CURRENT_JIT:MAX	1, 2, 3, 4	10 to 200	Sets the upper limit (%) of the current jitter for SD.
		?	Queries the upper limit of the current jitter for SD.

● EYE LV 58SER02 (EYE PATTERN unit)

Command	Parameter1	Description
EYE	-	Displays the eye pattern waveform.
EYE:INTEN:EYE	-128 to 127	Sets the intensity of an eye pattern display.
	?	Queries the intensity of an eye pattern display.
EYE:INTEN:SCALE	-8 to 7	Sets the intensity of the scale.
	?	Queries the intensity of the scale.
EYE:MODE	EYE	Displays the eye pattern waveform.
	JITTER	Displays the jitter waveform.
	?	Queries the waveform mode to be displayed.
EYE:AUTO_MEASURE	ON	Automatically measures the eye pattern.
	OFF	Does not automatically measure the eye pattern.
	?	Queries the status of automatic measurement of eye pattern.
EYE:GAIN:VAR	CAL	Sets the gain of the eye pattern waveform to a constant value (×1).
	VAR	Sets the gain mode of the eye pattern waveform to variable (×0.50 to ×2.00).
	?	Queries the gain setting of the eye pattern waveform.
EYE:GAIN:VAL	0.50 to 2.00	Sets the variable gain value of the eye pattern waveform.
	?	Queries the variable gain value of the eye pattern waveform.
EYE:SWEEP:SWEEP	2UI	Sets the display periods of the eye pattern to 2UI.
	4UI	Sets the display periods of the eye pattern to 4UI.
	16UI	Sets the display periods of the eye pattern to 16UI.
	?	Queries the display periods of the eye pattern.
EYE:FILTER	100KHZ	Sets the bandwidth of the jitter measurement greater than or equal to 100kHz when displaying the eye pattern.
	1KHZ	Sets the bandwidth of the jitter measurement greater than or equal to 1kHz when displaying the eye pattern.
	100HZ	Sets the bandwidth of the jitter measurement greater than or equal to 100Hz when displaying the eye pattern.
	10HZ	Sets the bandwidth of the jitter measurement greater than or equal to 10Hz when displaying the eye pattern.
	TIMING	Sets the bandwidth of the jitter measurement greater than or equal to 10Hz (timing jitter) when displaying the eye pattern.
	ALIGNMENT	When displaying eye pattern waveform, bandwidth of the jitter measurement is set to 100kHz or more for HD-SDI or to 1kHz or more (alignment jitter) for SD-SDI.
	?	Queries the filter bandwidth of the jitter when displaying eye pattern waveform.
EYE:JITTER:PEAK_HOLD	ON	Holds the peak value of the jitter waveform.
	OFF	Does not hold the peak value of the jitter waveform.
	?	Queries the hold status of the peak value of the jitter waveform.
EYE:JITTER:PEAK_CLEAR	-	Clears the peak value of the jitter waveform.
EYE:JITTER:GAIN	X1	Sets the gain of the jitter waveform to ×1.
	X2	Sets the gain of the jitter waveform to ×2.
	X8	Sets the gain of the jitter waveform to ×8.
	?	Queries the gain setting of the jitter waveform.

Command	Parameter1	Description
EYE:JITTER:SWEEP	1H	Displays the jitter waveform for 1 video line.
	2H	Displays the jitter waveform for 2 video lines.
	1V	Displays the jitter waveform for 1 video field.
	2V	Displays the jitter waveform for 2 video fields.
	?	Queries the display period of the jitter waveform.
EYE:JITTER:FILTER	100KHZ	Sets the bandwidth of the jitter measurement greater than or equal to 100kHz when displaying the jitter waveform.
	1KHZ	Sets the bandwidth of the jitter measurement greater than or equal to 1kHz when displaying the jitter waveform.
	100HZ	Sets the bandwidth of the jitter measurement greater than or equal to 100Hz when displaying the jitter waveform.
	10HZ	Sets the bandwidth of the jitter measurement greater than or equal to 10Hz when displaying the jitter waveform.
	TIMING	Sets the bandwidth of the jitter measurement greater than or equal to 10Hz (timing jitter) when displaying the jitter waveform.
	ALIGNMENT	When displaying the jitter waveform, bandwidth of the jitter measurement is set to 100kHz or more for HD-SDI or to 1kHz or more (alignment jitter) for SD-SDI.
	?	Queries the filter bandwidth of the jitter when displaying jitter waveform.

2.3.4 LV 58SER03 Commands

● WFM LV 58SER03 (COMPOSITE VIDEO INPUT)

Command	Parameter1	Description
WFM	-	Displays the video signal waveform.
WFM:INTEN:WFM	-128 to 127	Adjusts the intensity of the video waveforms.
	?	Queries the intensity of the video waveforms.
WFM:COLOR	WHITE	Sets the waveform display color to white.
	GREEN	Sets the waveform display color to green.
	?	Queries the waveform display color.
WFM:INTEN:SCALE	-8 to 7	Adjusts the intensity of the scale.
	?	Queries the intensity of the scale.
WFM:SCALE:COLOR	WHITE	Sets the scale color to white.
	YELLOW	Sets the scale color to yellow.
	CYAN	Sets the scale color to cyan.
	GREEN	Sets the scale color to green.
	MAGENTA	Sets the scale color to magenta.
	RED	Sets the scale color to red.
	BLUE	Sets the scale color to blue.
	?	Queries the scale color.
WFM:GAIN:VAR	CAL	Sets the gain mode of the waveform to a constant (x1).
	VAR	Sets the gain mode of the waveform to variable (×0.200 to ×2.000).
	?	Queries the gain mode setting.
WFM:GAIN:VAL	0.200 to 2.000	Sets the variable gain value of the waveform.
	?	Queries the variable gain value of the waveform.
WFM:GAIN:MAG	X1	Sets the magnification of the waveform to x1.
	X5	Sets the magnification of the waveform to x5.
	?	Queries the magnification of the waveform.
WFM:FILTER:NORMAL	FLAT	Sets the filter to Flat.
	LOWPASS	Sets the filter to LPF.
	?	Queries the filter setting.
WFM:SWEEP:SWEEP	H	Sets the sweep mode to the line display.
	V	Sets the sweep mode to the field display.
	?	Queries the sweep mode setting.
WFM:SWEEP:H_SWEEP	1H	Sets 1 line display.
	2H	Sets 2 line display.
	?	Queries the line display setting.
WFM:SWEEP:V_SWEEP	1V	Sets 1 field display.
	2V	Sets 1 frame display.
	?	Queries the field or frame display setting
WFM:SWEEP:H_MAG	X1	In case of line display, set the sweep magnification so that the waveform fits on the screen.
	X10	In case of line display, set the sweep magnification to x10 with respect to x1.
	X20	In case of line display, set the sweep magnification to x20 with respect to

Command	Parameter1	Description
		x1.
	?	Queries the sweep magnification mode in case of line display.
WFM:SWEEP:V_MAG	X1	In case of field display, set the sweep magnification so that the waveform fits on the screen.
	X20	In case of field display, set the sweep magnification to x20 with respect to X1.
	X40	In case of field display, set the sweep magnification to x40 with respect to X1.
	?	Queries the sweep magnification mode in case of field display.
WFM:LINE_SELECT	ON	Enables the line select function.
	OFF	Disables the line select function.
	?	Queries the line select function.
WFM:LINE_FIELD	FIELD1	Sets the selection range of the line select to field 1.
	FIELD2	Sets the selection range of the line select to field 2.
	FRAME	Sets the selection range of the line select to frame.
	?	Queries the selection range of the line select.
WFM:LINE_NUMBER	Example) 1 to 525 (Depending on the format)	Sets the line of the line select.
	?	Queries the selected line of the line select.
WFM:PERSISTENCE	ON	Sets the persistence display to enabe.
	OFF	Sets the persistence display to disable.
	INFINIT	Overlays the waveform.
	?	Queries the persistence display setting.
WFM:PERSIST_CLEAR	-	Clears the overlaid waveforms.
WFM:SPECIAL_FORM	NORMAL	Sets the SPECIAL FORM display to disable.
	4_PARADE	Sets the SPECIAL FORM display to TIMING.
	?	Sets the SPECIAL FORM display to 4Y PARADE.

● VEC LV 58SER03 (COMPOSITE VIDEO INPUT)

Command	Parameter1	Description
VECTOR	-	Displays vector waveforms.
VECTOR:PHASE	0.0 to 359.9	Sets the phase (degree) of the vector waveform.
	?	Queries the phase of the vector waveform.
VECTOR:INTEN:VECTOR	-128 to 127	Sets the intensity of the vector waveform.
	?	Queries the intensity of the vector waveform.
VECTOR:COLOR	WHITE	Sets the waveform display color to white.
	GREEN	Sets the waveform display color to green.
	?	Queries the waveform display color.
VECTOR:INTEN:SCALE	-8 to 7	Sets the intensity of the scale.
	?	Queries the intensity of the scale.
VECTOR:SCALE:IQ	ON	Displays the IQ axis.
	OFF	Does not display the IQ axis.
	?	Queries the presence of displaying the IQ axis.
VECTOR:SCALE:COLOR	WHITE	Sets the scale color to white.
	YELLOW	Sets the scale color to yellow.
	CYAN	Sets the scale color to cyan.
	GREEN	Sets the scale color to green.
	MAGENTA	Sets the scale color to magenta.
	RED	Sets the scale color to red.
	BLUE	Sets the scale color to blue.
	?	Queries the scale color.
VECTOR:GAIN:VAR	CAL	Sets the gain of the waveform to a constant value (×1).
	VAR	Sets the gain of the waveform to variable (×0.200 to ×2.000).
	?	Queries the gain setting of the waveform.
VECTOR:GAIN:VAL	0.200 to 2.000	Sets the variable gain value of the waveform.
	?	Queries the variable gain value of the waveform.
VECTOR:GAIN:MAG	X1	Sets the gain factor of the waveform to ×1.
	X5	Sets the gain factor of the waveform to ×5.
	IQ	Sets the gain factor so that the IQ signal is positioned at the circumference.
	?	Queries the gain factor of the waveform.
VECTOR:LINE_SELECT	ON	Enables the line select function.
	OFF	Disables the line select function.
	?	Queries the line select function.
VECTOR:LINE_FIELD	FIELD1	Sets the selection of the line select range to field 1.
	FIELD2	Sets the selection of the line select range to field 2.
	FRAME	Sets the selection of the line select range to frame.
	?	Queries the selection range of the Line Select.
VECTOR:LINE_NUMBER	Example) 1 to 525 (Depending on the format)	Sets the line of the Line Select.
	?	Queries the selected line of the Line Select.
VECTOR:MATRIX:SETUP	0P	Sets the setup to exclude.

Command	Parameter1	Description
	7.5P	Sets the setup to 7.5%.
	?	Queries the setup value.
VECTOR:MATRIX:COLORBAR	100P	Sets the scale that matches the 100% color bar.
	75P	Sets the scale that matches the 75% color bar.
	?	Queries the scale setting.
VECTOR:NTSC_DISPLAY	ON	Displays NTSC when input signal is PAL.
	OFF	Does not display NTSC when input signal is PAL.
	?	Queries NTSC display mode when input signal is PAL.
VECTOR:FD:MODE	PHASE	Sets the operation of function dial to the phase adjustment.
	LINE_SELECT	Sets the operation of function dial to the Line Select.
	?	Queries the operation of function dial.
VECTOR:PERSISTENCE	ON	Sets the persistence display to enabe.
	OFF	Sets the persistence display to disable.
	INFINIT	Overlays the waveform.
	?	Queries the persistence display setting.
VECTOR:PERSIST_CLEAR	-	Clears the overlaid waveforms.
VECTOR:SCH	ON	Enables the SCH measurement.
	OFF	Disables the SCH measurement.
	?	Queries the presence of SCH measurement.

● PIC LV 58SER03 (COMPOSITE VIDEO INPUT)

Command	Parameter1	Description
PICTURE	-	Displays the pictures.
PICTURE:BRIGHT	-30 to 30	Adjusts the brightness of the picture display (%).
	?	Queries the brightness of the picture display.
PICTURE:CONTRAST	0.70 to 1.30	Adjusts the contrast of the picture display.
	?	Queries the contrast of the picture display.
PICTURE:GAIN:R	0.70 to 1.30	Adjusts the gain of the R signal.
	?	Queries the gain of the R signal.
PICTURE:GAIN:G	0.70 to 1.30	Adjusts the gain of the G signal.
	?	Queries the gain of the G signal.
PICTURE:GAIN:B	0.70 to 1.30	Adjusts the gain of the B signal.
	?	Queries the gain of the B signal.
PICTURE:BIAS:R	-0.30 to 0.30	Adjusts the bias of the R signal (×100%).
	?	Queries the bias of the R signal.
PICTURE:BIAS:G	-0.30 to 0.30	Adjusts the bias of the G signal (×100%).
	?	Queries the bias of the G signal.
PICTURE:BIAS:B	-0.30 to 0.30	Adjusts the bias of the B signal (×100%).
	?	Queries the bias of the B signal.
PICTURE:MARKER:16_9	ON	Displays the 16:9 aspect marker.
	OFF	Does not display the 16:9 aspect marker.
	?	Queries the presence of displaying the 16:9 aspect marker.
PICTURE:MARKER:SAFE_ACTION	ON	Displays the safe action markers.
	OFF	Does not display the safe action markers.
	?	Queries the presence of displaying the safe action markers.
PICTURE:MARKER:SAFE_TITLE	ON	Displays the safe title markers.
	OFF	Does not display the safe title markers.
	?	Queries the presence of displaying the safe title markers.
PICTURE:MARKER:CENTER	ON	Displays the center marker.
	OFF	Does not display the center marker.
	?	Queries the presence of displaying the center marker.
PICTURE:LINE_SELECT	ON	Enables the line select function.
	OFF	Disables the line select function.
	?	Queries the line select function.
PICTURE:LINE_FIELD	FIELD1	Sets the selection range of the line select to field 1.
	FIELD2	Sets the selection range of the line select to field 2.
	FRAME	Sets the selection range of the line select to frame.
	?	Queries the selection range of the line select.
PICTURE:LINE_NUMBER	Example) 1 to 525 (Depending on the format)	Sets the line of the line select.
	?	Queries the selected line of the line select.
PICTURE:SIZE	FIT	Displays the picture size optimized.
	REAL	Displays each sample of the video signal as a pixel of the LCD.

Command	Parameter1	Description
	FULL_FRM	Displays a frame including the blanking period.
	?	Queries the picture size.

● STATUS LV 58SER03 (COMPOSITE VIDEO INPUT)

Command	Parameter1	Description
STATUS	-	Displays the status.

2.3.5 LV 58SER04 Commands

● System Settings LV 58SER04 (MPEG DECODER)

Command	Parameter1	Parameter2	Description
SYS:UNIT:SEMI_AUTO	1, 2, 3, 4 (*1)	ON	Sets the selection method of DECODE PID to an automatic setting.
		OFF	Sets the selection method of DECODE PID to a manual setting.
		?	Queries the selection method of DECODE PID.
SYS:UNIT:ERROR:SYNC_BYTE	1, 2, 3, 4	ON	Detects the Sync Byte error.
		OFF	Does not detect the Sync Byte error.
		?	Queries the presence of detecting the Sync Byte error.
SYS:UNIT:ERROR:CONTINUITY	1, 2, 3, 4	ON	Detects the Continuity error.
		OFF	Does not detect the Continuity error.
		?	Queries the presence of detecting the Continuity error.
SYS:UNIT:ERROR:PAT	1, 2, 3, 4	ON	Detects the PAT error.
		OFF	Does not detect the PAT error.
		?	Queries the presence of detecting the PAT error.
SYS:UNIT:ERROR:PAT:CYCLE	1, 2, 3, 4	100 to 800	Sets the interval (msec) becoming the PAT error.
		?	Queries the interval becoming the PAT error.
SYS:UNIT:ERROR:PMT	1, 2, 3, 4	ON	Detects the PMT error.
		OFF	Does not detect the PMT error.
		?	Queries the presence of detecting the PMT error.
SYS:UNIT:ERROR:PMT:CYCLE	1, 2, 3, 4	100 to 800	Sets the interval (msec) becoming the PMT error.
		?	Queries the interval becoming the PMT error.
SYS:UNIT:ERROR:PID	1, 2, 3, 4	ON	Detects the PID error.
		OFF	Does not detect the PID error.
		?	Queries the presence of detecting the PID error.
SYS:UNIT:ERROR:PID:CYCLE	1, 2, 3, 4	1 to 20	Sets the reception number of times of PMT becoming the PID error (section).
		?	Queries the reception number of times of PMT becoming the PID error
SYS:UNIT:ERROR:TRANSPORT	1, 2, 3, 4	ON	Detects the Transport error.
		OFF	Does not detect the Transport error.
		?	Queries the presence of detecting the Transport error.
SYS:UNIT:ERROR:CRC_MPEG	1, 2, 3, 4	ON	Detects the CRC error.
		OFF	Does not detect the CRC error.
		?	Queries the presence of detecting the CRC error.
SYS:UNIT:ERROR:PCR	1, 2, 3, 4	ON	Detects the PCR error.
		OFF	Does not detect the PCR error.

Command	Parameter1	Parameter2	Description
		?	Queries the presence of detecting the PCR error.
SYS:UNIT:ERROR:PCR:CYCLE	1, 2, 3, 4	10 to 200	Sets the interval (msec) becoming the PCR error.
		?	Queries the interval becoming the PCR error.
SYS:UNIT:ERROR:PCR:ACCURACY	1, 2, 3, 4	ON	Detects the PCR Accuracy error.
		OFF	Does not detect the PCR Accuracy error.
		?	Queries the presence of detecting the PCR Accuracy error.
SYS:UNIT:ERROR:PTS	1, 2, 3, 4	ON	Detects the PTS error.
		OFF	Does not detect the PTS error.
		?	Queries the presence of detecting the PTS error.
SYS:UNIT:ERROR:PTS:CYCLE	1, 2, 3, 4	100 to 800	Sets the interval (msec) becoming the PTS error.
		?	Queries the interval becoming the PTS error.
SYS:UNIT:ERROR:CAT	1, 2, 3, 4	ON	Detects the CAT error.
		OFF	Does not detect the CAT error.
		?	Queries the presence of detecting the CAT error.
SYS:UNIT:ERROR:CAT:CYCLE	1, 2, 3, 4	0.1 to 20.0	Sets the interval (sec) becoming the CAT error.
		?	Queries the interval becoming the CAT error.

● WFM LV 58SER04 (MPEG DECODER)

Command	Parameter1	Description
WFM	-	Displays the video signal waveform.
WFM:CH1	ON	Displays CH1.
	OFF	Does not display CH1.
	?	Queries the presence of CH1 display.
WFM:CH2	ON	Displays CH2.
	OFF	Does not display CH2.
	?	Queries the presence of CH2 display.
WFM:CH3	ON	Displays CH3.
	OFF	Does not display CH3.
	?	Queries the presence of CH3 display.
WFM:OVLAY	ON	Sets overlay display.
	OFF	Sets parade display.
	?	Queries the display mode.
WFM:INTEN:WFM	-128 to 127	Adjusts the intensity of the video waveforms.
	?	Queries the intensity of the video waveforms.
WFM:COLOR	WHITE	Sets the waveform display color to white.
	GREEN	Sets the waveform display color to green.
	MULTI	Sets the waveform display color as follows: Y: Yellow, Cb: Cyan, Cr: Magenta, G: Green, B: Blue, and R: Red.
	?	Queries the waveform display color.
WFM:INTEN:SCALE	-8 to 7	Adjusts the intensity of the scale.
	?	Queries the intensity of the scale.
WFM:SCALE:UNIT	HDV_SDP	Sets the scale unit to V for HD and % for SD.
	HDV_SDV	Sets the scale unit to V.
	HDP_SDP	Sets the scale unit to %.
	?	Queries the scale unit.
WFM:SCALE:COLOR75P	ON	Displays the 75% scale.
	OFF	Does not display the 75% scale.
	?	Queries the presence of the 75% scale display.
WFM:SCALE:COLOR	WHITE	Sets the scale color to white.
	YELLOW	Sets the scale color to yellow.
	CYAN	Sets the scale color to cyan.
	GREEN	Sets the scale color to green.
	MAGENTA	Sets the scale color to magenta.
	RED	Sets the scale color to red.
	BLUE	Sets the scale color to blue.
	?	Queries the scale color.
WFM:GAIN:VAR	CAL	Sets the gain mode of the waveform to a constant (x1).
	VAR	Sets the gain mode of the waveform to variable (×0.200 to ×2.000).
	?	Queries the gain mode setting.
WFM:GAIN:VAL	0.200 to 2.000	Sets the variable gain value of the waveform.
	?	Queries the variable gain value of the waveform.
WFM:GAIN:MAG	X1	Sets the magnification of the waveform to x1.

Command	Parameter1	Description
	X5	Sets the magnification of the waveform to x5.
	?	Queries the magnification of the waveform.
WFM:SWEEP:SWEEP	H	Sets the sweep mode to the line display.
	V	Sets the sweep mode to the field or frame display.
	?	Queries the sweep mode setting.
WFM:SWEEP:H_SWEEP	1H	Sets 1 line display.
	2H	Sets 2 line display.
	?	Queries the line display setting.
WFM:SWEEP:V_SWEEP	1V	Sets 1 frame display if the input signal is progressive. Sets 1 field display if the input signal is interlace or segmented frame.
	2V	Sets 1 frame display.
	?	Queries the field or frame display setting.
WFM:SWEEP:H_MAG	X1	In case of line display, set the sweep magnification so that the waveform fits on the screen.
	X10	In case of line display, set the sweep magnification to x10 with respect to x1.
	X20	In case of line display, set the sweep magnification to x20 with respect to x1.
	ACTIVE	In case of line display, magnifies and displays the waveform in the active interval.
	?	Queries the sweep magnification mode in case of line display.
WFM:SWEEP:V_MAG	X1	In case of field (frame) display, set the sweep magnification so that the waveform fits on the screen.
	X20	In case of field (frame) display, set the sweep magnification to x20 with respect to X1.
	X40	In case of field (frame) display, set the sweep magnification to x40 with respect to X1.
	?	Queries the sweep magnification mode in case of field (frame) display.
WFM:SWEEP:FIELD	FIELD1	Displays the waveform of field 1.
	FIELD2	Displays the waveform of field 2.
	?	Queries the selected field.
WFM:LINE_SELECT	ON	Enables the line select function.
	OFF	Disables the line select function.
	?	Queries the line select function.
WFM:LINE_FIELD	FIELD1	Sets the selection range of the line select to field 1.
	FIELD2	Sets the selection range of the line select to field 2.
	FRAME	Sets the selection range of the line select to frame.
	?	Queries the selection range of the line select.
WFM:LINE_NUMBER	Example) 1 to 1125 (Depending on the format)	Sets the line of the line select.
	?	Queries the selected line of the line select.

Command	Parameter1	Description
WFM:FILTER:NORMAL	FLAT	Sets the filter to Flat for the component display.
	LOWPASS	Sets the filter to LPF for the component display.
	?	Queries the filter setting for the component display.
WFM:FILTER:COMPOSITE	FLAT	Sets the filter to Flat and to parade display of the luminance signal when displaying the pseudo-composite.
	FLAT_LUM	Sets the filter to luminance signal and to parade display of the color signal when displaying the pseudo-composite.
	FLAT_CHROMA	Queries the filter setting when displaying the pseudo-composite.
	?	Queries the filter setting when displaying the pseudo-composite.
WFM:PERSISTENCE	ON	Sets the persistence display to enabe.
	OFF	Sets the persistence display to disable.
	INFINIT	Overlays the waveform.
	?	Queries the persistence display setting.
WFM:PERSIST_CLEAR	-	Clears the overlaid waveforms.
WFM:MATRIX	YCBCR	Sets the color matrix to YCbCr display.
	GBR	Sets the color matrix to GBR display.
	RGB	Sets the color matrix to RGB display.
	COMPOSITE	Sets the color matrix to pseudo-composite display.
	?	Queries the color matrix setting.
WFM:MATRIX:YGBR	ON	Displays the luminance signal when displaying RGB.
	OFF	Does not display the luminance signal when displaying RGB.
	?	Queries the presence of luminance signal when displaying RGB.
WFM:MATRIX:YRGB	ON	Displays the luminance signal when displaying RGB.
	OFF	Does not display the luminance signal when displaying RGB.
	?	Queries the presence of luminance signal when displaying RGB.
WFM:MATRIX:COMPOSITE:FORMAT	AUTO	Selects NTSC or PAL automatically when displaying the pseudo-composite.
	NTSC	Displays NTSC when displaying the pseudo-composite.
	PAL	Displays PAL when displaying the pseudo-composite.
	?	Queries the display format of the pseudo-composite display.
WFM:MATRIX:SETUP	0P	Sets the setup to exclude when displaying the pseudo-composite.
	7.5P	Sets the setup to 7.5% when displaying the pseudo-composite.
	?	Queries the setup value of the pseudo-composite display.

● VEC LV 58SER04 (MPEG DECODER)

Command	Parameter1	Description
VECTOR	-	Displays vector waveforms.
VECTOR:INTEN:VECTOR	-128 to 127	Sets the intensity of the vector waveform.
	?	Queries the intensity of the vector waveform.
VECTOR:COLOR	WHITE	Sets the waveform display color to white.
	GREEN	Sets the waveform display color to green.
	?	Queries the waveform display color.
VECTOR:INTEN:SCALE	-8 to 7	Sets the intensity of the scale.
	?	Queries the intensity of the scale.
VECTOR:SCALE:IQ	ON	Displays the IQ axis.
	OFF	Does not display the IQ axis.
	?	Queries the presence of displaying the IQ axis.
VECTOR:SCALE:COLOR	WHITE	Sets the scale color to white.
	YELLOW	Sets the scale color to yellow.
	CYAN	Sets the scale color to cyan.
	GREEN	Sets the scale color to green.
	MAGENTA	Sets the scale color to magenta.
	RED	Sets the scale color to red.
	BLUE	Sets the scale color to blue.
	?	Queries the scale color.
VECTOR:GAIN:VAR	CAL	Sets the gain of the waveform to a constant value (×1).
	VAR	Sets the gain of the waveform to variable (×0.200 to ×2.000).
	?	Queries the gain setting of the waveform.
VECTOR:GAIN:VAL	0.200 to 2.000	Sets the variable gain value of the waveform.
	?	Queries the variable gain value of the waveform.
VECTOR:GAIN:MAG	X1	Sets the gain factor of the waveform to ×1.
	X5	Sets the gain factor of the waveform to ×5.
	IQ	Sets the gain factor so that the IQ signal is positioned at the circumference.
	?	Queries the gain factor of the waveform.
VECTOR:LINE_SELECT	ON	Enables the line select function.
	OFF	Disables the line select function.
	?	Queries the line select function.
VECTOR:LINE_FIELD	FIELD1	Sets the selection range of the line select to field 1.
	FIELD2	Sets the selection range of the line select to field 2.
	FRAME	Sets the selection range of the line select to frame.
	?	Queries the selection range of the line select.
VECTOR:LINE_NUMBER	Example) 1 to 1125 (Depending on the format)	Queries the selected line of the line select.
	?	Queries the selected line of the line select.
VECTOR:MATRIX	COMPONENT	Sets the color matrix to component display.
	COMPOSITE	Sets the color matrix to pseudo-composite display.

Command	Parameter1	Description
	?	Queries the color matrix setting.
VECTOR:MATRIX:COMPOSITE:FORMAT	AUTO	Selects NTSC or PAL automatically when displaying the pseudo-composite.
	NTSC	Displays NTSC when displaying the pseudo-composite.
	PAL	Displays PAL when displaying the pseudo-composite.
	?	Queries the display format of the pseudo-composite display.
VECTOR:MATRIX:SETUP	0P	Sets the setup to exclude when displaying the pseudo-composite.
	7.5P	Sets the setup to 7.5% when displaying the pseudo-composite.
	?	Queries the setup value of the pseudo-composite display.
VECTOR:MATRIX:COLORBAR	100P	Sets the scale that matches the 100% color bar
	75P	Sets the scale that matches the 75% color bar.
	?	Queries the scale setting.
VECTOR:PERSISTENCE	ON	Sets the persistence characteristics to be applied.
	OFF	Sets the persistence characteristics not to be applied.
	INFINIT	Sets the overlaying of the waveforms.
	?	Queries the persistence display setting.
VECTOR:PERSIST_CLEAR	-	Clears the overlaying of the waveform.

● PIC LV 58SER04 (MPEG DECODER)

Command	Parameter1	Description
PICTURE	-	Displays the pictures.
PICTURE:BRIGHT	-30 to 30	Adjusts the brightness of the picture display (%).
	?	Queries the brightness of the picture display.
PICTURE:CONTRAST	0.70 to 1.30	Adjusts the contrast of the picture display.
	?	Queries the contrast of the picture display.
PICTURE:GAIN:R	0.70 to 1.30	Adjusts the gain of the R signal.
	?	Queries the gain of the R signal.
PICTURE:GAIN:G	0.70 to 1.30	Adjusts the gain of the G signal.
	?	Queries the gain of the G signal.
PICTURE:GAIN:B	0.70 to 1.30	Adjusts the gain of the B signal.
	?	Queries the gain of the B signal.
PICTURE:BIAS:R	-0.30 to 0.30	Adjusts the bias of the R signal (×100%).
	?	Queries the bias of the R signal.
PICTURE:BIAS:G	-0.30 to 0.30	Adjusts the bias of the G signal (×100%).
	?	Queries the bias of the G signal.
PICTURE:BIAS:B	-0.30 to 0.30	Adjusts the bias of the B signal (×100%).
	?	Queries the bias of the B signal.
PICTURE:MARKER:4_3	ON	Displays the 4:3 aspect marker.
	OFF	Does not display the 4:3 aspect marker.
	?	Queries the presence of displaying the 4:3 aspect marker.

Command	Parameter1	Description
PICTURE:MARKER:16_9	ON	Displays the 16:9 aspect marker.
	OFF	Does not display the 16:9 aspect marker.
	?	Queries the presence of displaying the 16:9 aspect marker.
PICTURE:MARKER:SAFE_ACTION	ON	Displays the safe action markers.
	OFF	Does not display the safe action markers.
	?	Queries the presence of displaying the safe action markers.
PICTURE:MARKER:SAFE_TITLE	ON	Displays the safe title markers.
	OFF	Does not display the safe title markers.
	?	Queries the presence of displaying the safe title markers.
PICTURE:MARKER:CENTER	ON	Displays the center marker.
	OFF	Does not display the center marker.
	?	Queries the presence of displaying the center marker.
PICTURE:LINE_SELECT	ON	Displays the line select marker.
	OFF	Does not display the line select marker.
	?	Queries the line select marker.
PICTURE:LINE_FIELD	FIELD1	Sets the selection range of the line select to field 1.
	FIELD2	Sets the selection range of the line select to field 2.
	FRAME	Sets the selection range of the line select to frame.
	?	Queries the selection range of the line select.
PICTURE:LINE_NUMBER	Example) 1 to 1125 (Depending on the format)	Sets the line of the line select.
	?	Queries the selected line of the line select.
PICTURE:SIZE	FIT	Displays the picture size optimized.
	REAL	Displays each sample of the video signal as a pixel of the LCD.
	?	Queries the picture size.

● STATUS LV 58SER04 (MPEG DECODER)

Command	Parameter1	Description
STATUS	-	Displays the status.

2.3.6 LV 58SER40A Commands

● System Settings LV 58SER40A (DIGITAL AUDIO)

Command	Parameter1	Parameter2	Description
SYS:UNIT:EXT_BNC	1, 2, 3, 4	INPUT	Sets all rear BNC connector to input.
		OUTPUT	Sets all rear BNC connector to output.
		?	Queries all rear BNC connector setting.
SYS:UNIT:ERROR:LEVEL_OVER	1, 2, 3, 4	ON	Detects the level over error.
		OFF	Does not detect the level over error.
		?	Queries the presence of detecting the level over error.
SYS:UNIT:ERROR:CLIP	1, 2, 3, 4	ON	Detects the clip error.
		OFF	Does not detect the clip error.
		?	Queries the presence of detecting the clip error.
SYS:UNIT:ERROR:CLIP:DURATION	1, 2, 3, 4	1 to 100	Sets the the detection period of the clip error. (sample)
		?	Queries the the detection period of the clip error. (sample)
SYS:UNIT:ERROR:MUTE	1, 2, 3, 4	ON	Detects the mute error.
		OFF	Does not detect the mute error.
		?	Queries the presence of detecting the mute error.
SYS:UNIT:ERROR:MUTE:DURATION	1, 2, 3, 4	1 to 5000	Sets the the detection period of the mute error. (ms)
		?	Queries the the detection period of the mute error. (sample)
SYS:UNIT:ERROR:PARITY	1, 2, 3, 4	ON	Detects the parity error.
		OFF	Does not detect the parity error.
		?	Queries the presence of detecting the parity error.
SYS:UNIT:ERROR:VARIDITY	1, 2, 3, 4	ON	Detects the validity error.
		OFF	Does not detect the validity error.
		?	Queries the presence of detecting the validity error.
SYS:UNIT:ERROR:CRC	1, 2, 3, 4	ON	Detects the CRC error.
		OFF	Does not detect the CRC error.
		?	Queries the presence of detecting the CRC error.
SYS:UNIT:ERROR:CODE	1, 2, 3, 4	ON	Detects the code violation error.
		OFF	Does not detect the code violation error.
		?	Queries the presence of detecting the code violation error.

● AUDIO LV 58SER40A (DIGITAL AUDIO)

Command	Parameter1	Description
AUDIO	-	Displays the audio.
AUDIO:CH_SEL:NUMBER	8CH	Sets the number of measurement channels to 8ch.
	16CH	Sets the number of measurement channels to 16ch.
	?	Queries the number of measurement channels.
AUDIO:CH_SEL:DISPLAY	1_8CH	Sets the channels that are measured to 1-8ch when the number of measurement channels is 8ch.
	9_16CH	Sets the channels that are measured to 9-16ch when the number of measurement channels is 8ch.
	?	Queries the channels that are measured when the number of measurement channels is 8ch.
AUDIO:DISPLAY_MODE	LISSAJOU	Displays the Lissajous waveform.
	S_IMAGE	Displays the sound image waveform.
	STATUS	Displays the audio status screen.
	METER	Displays the meter screen.
	LOUDNESS	Displays the loudness screen.
	?	Queries the audio display screen.
AUDIO:METER:D_RANGE	M60DBFS	Sets the meter scale to 0 to -60dBFS.
	M90DBFS	Sets the meter scale to 0 to -90dBFS.
	?	Queries the meter scale.
AUDIO:METER:RESPONSE	TRUE_PEAK	Sets the level meter response model to TRUE PEAK.
	PPM	Sets the level meter response model to PPM.
	PPM1	Sets the level meter response model to PPM1.
	PPM2	Sets the level meter response model to PPM2.
	VU_TRUE_PEAK	Sets the level meter response model to VU, and peak hold meter response model to TRUE PEAK.
	VU_PPM	Sets the level meter response model to VU, and peak hold meter response model to PPM.
	VU_PPM1	Sets the level meter response model to VU, and peak hold meter response model to PPM1.
	VU_PPM2	Sets the level meter response model to VU, and peak hold meter response model to PPM2.
	LOUDNESS_F	Sets the level meter response model to LOUDNESS-F.
	LOUDNESS_S	Sets the level meter response model to LOUDNESS-S.
	?	Queries the meter response model.
AUDIO:METER:PEAK_HOLD	0.5SEC	Sets the peak hold time of the peak hold meter to 0.5sec.
	1SEC	Sets the peak hold time of the peak hold meter to 1sec.
	1.5SEC	Sets the peak hold time of the peak hold meter to 1.5sec.
	2SEC	Sets the peak hold time of the peak hold meter to

Command	Parameter1	Description
		2sec.
	2.5SEC	Sets the peak hold time of the peak hold meter to 2.5sec.
	3SEC	Sets the peak hold time of the peak hold meter to 3sec.
	3.5SEC	Sets the peak hold time of the peak hold meter to 3.5sec.
	4SEC	Sets the peak hold time of the peak hold meter to 4sec.
	4.5SEC	Sets the peak hold time of the peak hold meter to 4.5sec.
	5SEC	Sets the peak hold time of the peak hold meter to 5sec.
	HOLD	Holds the peak time of the peak hold meter.
	?	Queries the holding time of peak hold meter.
AUDIO:METER:OVER_LEVEL	-40.0 to 0.0	Sets the over level.(dBFS)
	?	Queries the over level.
AUDIO:METER:WARNING_LEVEL	-40.0 to 0.0	Sets the warning level. (dBFS)
	?	Queries the warning level.
AUDIO:METER:REF_LEVEL	-40.0 to 0.0	Sets the reference level. (dBFS)
	?	Queries the reference level.
AUDIO:LISSAJOU:INTEN:LISSAJOU	-128 to 127	Sets the intensity of the Lissajous waveform.
	?	Queries the intensity of the Lissajous waveform.
AUDIO:LISSAJOU:INTEN:SCALE	-8 to 7	Sets the intensity of the scale.
	?	Queries the intensity of the scale.
AUDIO:LISSAJOU:DISPLAY	SINGLE	Displays the single Lissajous screen.
	MULTI	Displays the multi Lissajous screen.
	?	Queries the Lissajous display screen.
AUDIO:LISSAJOU:FORM	X-Y	Assigns the R and L axes to the horizontal and vertical.
	MATRIX	Tilts the R and L axes 45° with respect to X-Y.
	?	Queries the display mode of the R and L axes.
AUDIO:LISSAJOU:AUTO_GAIN	ON	Automatically adjusts the gain of the Lissajous waveform.
	OFF	Does not automatically adjust the gain of the Lissajous waveform.
	?	Queries the status of automatic gain adjustment of the Lissajous waveform.
AUDIO:LISSAJOU:MAP:SINGLE_L	CH1 to CH16	Sets the channel to be assigned to the L axis of the single Lissajous waveform.
	LT	Sets the channel that is assigned to the L axis of the single Lissajous waveform to Lt (down mixing).
	?	Queries the channel to be assigned to the L axis of the single Lissajous waveform.
AUDIO:LISSAJOU:MAP:SINGLE_R	CH1 to CH16	Sets the channel to be assigned to the R axis of the

Command	Parameter1	Description
		single Lissajous waveform.
	RT	Sets the channel that is assigned to the R axis of the single Lissajous waveform to Rt (down mixing).
	?	Queries the channel to be assigned to the R axis of the single Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_L1	CH1 to CH16	Sets the channel to be assigned to the L1 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the L1 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_R1	CH1 to CH16	Sets the channel to be assigned to the R1 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the R1 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_L2	CH1 to CH16	Sets the channel to be assigned to the L2 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the L2 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_R2	CH1 to CH16	Sets the channel to be assigned to the R2 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the R2 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_L3	CH1 to CH16	Sets the channel to be assigned to the L3 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the L3 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_R3	CH1 to CH16	Sets the channel to be assigned to the R3 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the R3 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_L4	CH1 to CH16	Sets the channel to be assigned to the L4 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the L4 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_R4	CH1 to CH16	Sets the channel to be assigned to the R4 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the R4 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_L5	CH1 to CH16	Sets the channel to be assigned to the L5 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the L5 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_R5	CH1 to CH16	Sets the channel to be assigned to the R5 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the R5 axis of the multi Lissajous waveform.

Command	Parameter1	Description
AUDIO:LISSAJOU:MAP:MULTI_L6	CH1 to CH16	Sets the channel to be assigned to the L6 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the L6 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_R6	CH1 to CH16	Sets the channel to be assigned to the R6 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the R6 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_L7	CH1 to CH16	Sets the channel to be assigned to the L7 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the L7 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_R7	CH1 to CH16	Sets the channel to be assigned to the R7 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the R7 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_L8	CH1 to CH16	Sets the channel to be assigned to the L8 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the L8 axis of the multi Lissajous waveform.
AUDIO:LISSAJOU:MAP:MULTI_R8	CH1 to CH16	Sets the channel to be assigned to the R8 axis of the multi Lissajous waveform.
	?	Queries the channel to be assigned to the R8 axis of the multi Lissajous waveform.
AUDIO:S_IMAGE:INTEN:S_IMAGE	-128 to 127	Sets the intensity of the sound image waveform.
	?	Queries the intensity of the sound image waveform.
AUDIO:S_IMAGE:INTEN:SCALE	-8 to 7	Sets the intensity of the scale.
	?	Queries the intensity of the scale.
AUDIO:S_IMAGE:SURROUND	3_1	Displays the 3-1 system of the sound image waveform.
	3_2	Displays the 3-2 system of the sound image waveform.
	3_2_2	Displays the 3-2-2 system of the sound image waveform.
	?	Queries the display format of the sound image waveform.
AUDIO:S_IMAGE:AUTO_GAIN	ON	Automatically adjusts the gain of the sound image waveform.
	OFF	Does not automatically adjust the gain of the sound image waveform.
	?	Queries the presence of automatic gain adjustment of the sound image waveform.
AUDIO:S_IMAGE:MAP:L	CH1 to CH16	Sets the channel to be assigned to the L axis of the sound image waveform.
	?	Queries the channel to be assigned to the L axis of

Command	Parameter1	Description
		the sound image waveform.
AUDIO:S_IMAGE:MAP:R	CH1 to CH16	Sets the channel to be assigned to the R axis of the sound image waveform.
	?	Queries the channel to be assigned to the R axis of the sound image waveform.
AUDIO:S_IMAGE:MAP:C	CH1 to CH16	Sets the channel to be assigned to the C axis of the sound image waveform.
	?	Queries the channel to be assigned to the C axis of the sound image waveform.
AUDIO:S_IMAGE:MAP:LFE	CH1 to CH16	Sets the channel to be assigned to the LFE axis of the sound image waveform.
	?	Queries the channel to be assigned to the LFE axis of the sound image waveform.
AUDIO:S_IMAGE:MAP:LS	CH1 to CH16	Sets the channel to be assigned to the LS axis of the sound image waveform.
	?	Queries the channel to be assigned to the LS axis of the sound image waveform.
AUDIO:S_IMAGE:MAP:RS	CH1 to CH16	Sets the channel to be assigned to the RS axis of the sound image waveform.
	?	Queries the channel to be assigned to the RS axis of the sound image waveform.
AUDIO:S_IMAGE:MAP:LL	CH1 to CH16	Sets the channel to be assigned to the LL axis of the sound image waveform.
	?	Queries the channel to be assigned to the LL axis of the sound image waveform.
AUDIO:S_IMAGE:MAP:RR	CH1 to CH16	Sets the channel to be assigned to the RR axis of the sound image waveform.
	?	Queries the channel to be assigned to the RR axis of the sound image waveform.
AUDIO:STATUS:DISPLAY	DEFAULT	Displays the status screen.
	CH_STATUS	Displays the channel status screen.
	USER_BIT	Displays the user bit screen.
	?	Queries the display format of the status screen.
AUDIO:DOLBY:E_META_PRM	PRM1 to PRM8	Sets the program number in which metadata of the Dolby E signal is displayed.
	?	Queries the program number in which metadata of the Dolby E signal is displayed.
AUDIO:DOLBY:EBI_META_PRM	PRM1 to PRM8	Sets the program number in which EBI metadata of the Dolby E signal is displayed.
	?	Queries the program number in which EBI metadata of the Dolby E signal is displayed.
AUDIO:STATUS:CH_STATUS	CH1 to CH16	Sets the channel of the channel status screen.
	?	Queries the channel of the channel status screen.
AUDIO:STATUS:STATUS_ALIGN	LSB1ST	Displays the channel status bit from LSB.
	MSB1ST	Displays the channel status bit from MSB.

Command	Parameter1	Description
	?	Queries the displaying order of the channel status bit.
AUDIO:STATUS:USER_BIT	CH1 to CH16	Sets the channel of the user bit screen.
	?	Queries the channel of the user bit screen.
AUDIO:STATUS:USER_ALIGN	LSB1ST	Displays the user bit from LSB.
	MSB1ST	Displays the user bit from MSB.
	?	Queries the displaying order of the user bit.
AUDIO:STATUS:ERROR_RESET	-	Resets the error of the status screen to zero.
AUDIO:LOUD:PERIOD	2MIN	Sets the measurement time to 2 minutes.
	10MIN	Sets the measurement time to 10 minutes.
	30MIN	Sets the measurement time to 30 minutes.
	1HOUR	Sets the measurement time to 1 hour.
	2HOUR	Sets the measurement time to 2 hours.
	?	Queries the measurement time.
AUDIO:LOUD:CHART_CLEAR	-	Clears the chart.
AUDIO:LOUD:MEASURE	STOP	Stops loudness measurement.
	START	Starts loudness measurement.
	?	Queries the loudness measurement status.
AUDIO:LOUD:MAG	OFF	Disables scale MAG.
	ON	Enables scale MAG.
	?	Queries the scale MAG status.
AUDIO:LOUD:INTEG:MODE	BS1770_2	Sets the measurement mode to BS1770-2.
	ARIB	Sets the measurement mode to ARIB.
	EBU	Sets the measurement mode to EBU.
	ATSC	Sets the measurement mode to ATSC.
	?	Queries the measurement mode.
AUDIO:LOUD:INTEG:LFE_GAIN	OFF	Disables LFE.
	ON	Enables LFE.
	?	Queries the LFE status.
AUDIO:LOUD:INTEG:LFE_GAIN:VALUE	0 to 10	Sets the LFE gain.
	?	Queries the LFE gain.
AUDIO:LOUD:SHORT:AVRG_TIME	200 to 10000	Sets the measurement time of short-term loudness (100 steps).
	?	Queries the measurement time of short-term loudness.
AUDIO:LOUD:MOMENT:AVRG_TIME	200 to 10000	Sets the measurement time of momentary loudness (100 steps).
	?	Queries the measurement time of momentary loudness.
AUDIO:LOUD:RESPONSE	SHORTTERM	Sets the response model to short-term.
	MOMENTARY	Sets the response model to momentary.
	?	Queries the response model.
AUDIO:LOUD:AUTO:TRIGGER	OFF	Manually measures loudness.
	REMOTE	Measures loudness using the remote connector.
	TIMECODE	Measures loudness using time codes.

Command	Parameter1	Description
	MUTE	Measures loudness using input signals.
	?	Queries the loudness measurement method.
AUDIO:LOUD:AUTO_START:H	0 to 23	Sets the time code start hour.
	?	Queries the time code start hour.
AUDIO:LOUD:AUTO_START:M	0 to 59	Sets the time code start minute.
	?	Queries the time code start minute.
AUDIO:LOUD:AUTO_START:S	0 to 59	Sets the time code start second.
	?	Queries the time code start second.
AUDIO:LOUD:AUTO_END:H	0 to 23	Sets the time code end hour.
	?	Queries the time code end hour.
AUDIO:LOUD:AUTO_END:M	0 to 59	Sets the time code end minute.
	?	Queries the time code end minute.
AUDIO:LOUD:AUTO_END:S	0 to 59	Sets the time code end second.
	?	Queries the time code end second.
AUDIO:LOUD:MAP:MODE:MAIN	MONO	Sets the main loudness measurement channel to MONO.
	STEREO	Sets the main loudness measurement channel to STEREO.
	5_1	Sets the main loudness measurement channel to 5.1.
	CUSTOM	Sets the main loudness measurement channel to CUSTOM.
	?	Queries the main loudness measurement channel.
AUDIO:LOUD:MAP:MODE:SUB	OFF	Disables sub loudness measurement.
	MONO	Sets the sub loudness measurement channel to MONO.
	STEREO	Sets the sub loudness measurement channel to STEREO.
	?	Queries the sub loudness measurement channel.
AUDIO:LOUD:MAP:L	CH1 to CH16	Selects the channel to assign to Lch.
	NON	Does not assign a channel to Lch.
	?	Queries the channel to assign to Lch.
AUDIO:LOUD:MAP:R	CH1 to CH16	Selects the channel to assign to Rch.
	NON	Does not assign a channel to Rch.
	?	Queries the channel to assign to Rch.
AUDIO:LOUD:MAP:C	CH1 to CH16	Selects the channel to assign to Cch.
	NON	Does not assign a channel to Cch.
	?	Queries the channel to assign to Cch.
AUDIO:LOUD:MAP:LFE	CH1 to CH16	Selects the channel to assign to LFEch.
	NON	Does not assign a channel to LFEch.
	?	Queries the channel to assign to LFEch.
AUDIO:LOUD:MAP:LS	CH1 to CH16	Selects the channel to assign to Lsch.
	NON	Does not assign a channel to Lsch.
	?	Queries the channel to assign to Lsch.
AUDIO:LOUD:MAP:RS	CH1 to CH16	Selects the channel to assign to Rsch.

Command	Parameter1	Description
	NON	Does not assign a channel to Rsch.
	?	Queries the channel to assign to Rsch.
AUDIO:LOUD:MAP:RL	CH1 to CH16	Selects the channel to assign to sub Lch.
	?	Queries the channel to assign to sub Lch.
AUDIO:LOUD:MAP:RR	CH1 to CH16	Selects the channel to assign to sub Rch.
	?	Queries the channel to assign to sub Rch.
AUDIO:LOUD:SHORTTERM:DATA:MAIN	-	Queries the main short-term loudness.
AUDIO:LOUD:INTEGRATED:DATA:MAIN	-	Queries the main long-term loudness.
AUDIO:LOUD:MOMENTARY:DATA:MAIN	-	Queries the main momentary loudness.
AUDIO:LOUD:SHORTTERM:DATA:SUB	-	Queries the sub n short-term loudness.
AUDIO:LOUD:INTEGRATED:DATA:SUB	-	Queries the sub long-term loudness.
AUDIO:LOUD:MOMENTARY:DATA:SUB	-	Queries the sub momentary loudness.
AUDIO:LOUD:PEAKHOLD:DATA:L	-	Queries the Lch peak level.
AUDIO:LOUD:PEAKHOLD:DATA:R	-	Queries the Rch peak level.
AUDIO:LOUD:PEAKHOLD:DATA:C	-	Queries the Cch peak level.
AUDIO:LOUD:PEAKHOLD:DATA:LFE	-	Queries the LFEch peak level.
AUDIO:LOUD:PEAKHOLD:DATA:LS	-	Queries the Lsch peak level.
AUDIO:LOUD:PEAKHOLD:DATA:RS	-	Queries the Rsch peak level.
AUDIO:LOUD:PEAKHOLD:DATA:SL	-	Queries the sub Lch peak level.
AUDIO:LOUD:PEAKHOLD:DATA:SR	-	Queries the sub Rch peak level.
AUDIO:PHONES:L_R_CH	1_2	Maps channels 1 and 2 to the left and right of the headphone output.
	3_4	Maps channels 3 and 4 to the left and right of the headphone output.
	5_6	Maps channels 5 and 6 to the left and right of the headphone output.
	7_8	Maps channels 7 and 8 to the left and right of the headphone output.
	9_10	Maps channels 9 and 10 to the left and right of the headphone output.
	11_12	Maps channels 11 and 12 to the left and right of the headphone output.
	13_14	Maps channels 13 and 14 to the left and right of the headphone output.
	15_16	Maps channels 15 and 16 to the left and right of the headphone output.
	LT_RT	Maps channels LT and RT to the left and right of the headphone output.
	AUX1_AUX2	Maps channels AUX1 and AUX2 to the left and right of the headphone output.
	L_R	Maps channels L and R to the left and right of the headphone output.
	?	Queries mapping channels to the left and right of the headphone output.
AUDIO:DOLBY:AUX_CH	LTRT	Sets the function of the AUX CH to LtRt.

Command	Parameter1	Description
	LORO	Sets the function of the AUX CH to LoRo.
	MONO	Sets the function of the AUX CH to MONO.
	MUTE	Sets the function of the AUX CH to MUTE.
	?	Sets the function of the AUX CH.
AUDIO:DOLBY:AUX_CH_DRC	LINE	Sets the Dynamic Range Control to LINE.
	RF	Sets the Dynamic Range Control to RF.
	?	Sets the Dynamic Range Control of the AUX CH.
AUDIO:DOLBY	AC3	Sets the operation mode to Dolby digital (AC-3).
	E	Sets the operation mode to Dolby E.
	OFF	Sets the operation mode to PCM.
	?	Queries the operation mode.
AUDIO:DOLBY:GROUP	1_2	Sets the decode channel to ch1/2.
	3_4	Sets the decode channel to ch3/4.
	5_6	Sets the decode channel to ch5/6.
	7_8	Sets the decode channel to ch7/8.
	9_10	Sets the decode channel to ch9/10.
	11_12	Sets the decode channel to ch11/12.
	13_14	Sets the decode channel to ch13/14.
	15_16	Sets the decode channel to ch15/16.
	?	Queries the decode channel.
AUDIO:DOLBY:E_DIALNORM	ON	Sets the Dolby E signal dialog normalization to on.
	OFF	Sets the Dolby E signal dialog normalization to off.
	?	Queries the on/off setting of the Dolby E signal dialog normalization.
AUDIO:DOLBY:E_PULLDOWN	ON	Sets the Dolby E signal pulldown to on.
	OFF	Sets the Dolby E signal pulldown to off.
	?	Queries the on/off setting of the Dolby E signal pulldown.
AUDIO:DOLBY:D_LISTENING	FULL	Sets the Dolby Digital signal listening mode to FULL.
	EX	Sets the Dolby Digital signal listening mode to EX.
	3STEREO	Sets the Dolby Digital signal listening mode to 3stereo.
	PHANTOM	Sets the Dolby Digital signal listening mode to PHANTOM.
	STEREO	Sets the Dolby Digital signal listening mode to STEREO.
	MONO	Sets the Dolby Digital signal listening mode to MONO.
	?	Queries the Dolby Digital signal listening mode.
AUDIO:DOLBY:D_PROLOGIC	ON	Sets the Dolby Digital signal Pro Logic to on.
	OFF	Sets the Dolby Digital signal Pro Logic to off.
	?	Queries the on/off setting of the Dolby E signal Pro logic.
AUDIO:DOLBY:D_DRC	BYPASS	Sets the Dolby Digital signal dynamic range control to BYPASS.

Command	Parameter1	Description
	LINE	Sets the Dolby Digital signal dynamic range control to LINE.
	RF	Sets the Dolby Digital signal dynamic range control to RF.
	?	Queries the Dolby Digital signal dynamic range control.
AUDIO:INPUT_SELECT	DIGITAL	Measures the digital audio signal.
	ANALOG	Measures the analog audio signal.
	?	Queries the audio signal type to measure.

3 FTP

You can transfer files, such as data dumps, from the LV 7800 to a network-connected PC through the Ethernet port on the rear panel.

3.1 Procedure

To use FTP, follow the procedure below.

1. **Configure the LV 7800 Ethernet settings, and connect an Ethernet cable.**

   For more detailed instructions, see steps 1 through 3 in section 2.1, “Procedure.”

2. **Start FTP. (*1)**

   After you start FTP, the following display appears.

   ```
   User(xxx.xxx.xxx.xxx:(none)):
   ```

3. **Enter the login name, and press Enter.**

   The login name is LV7800. Be sure to use capital letters.
   You cannot change the login name.

   ```
   User(xxx.xxx.xxx.xxx:(none)): LV7800
   ```

4. **Enter the password, and press Enter.**

   The password is LV7800. Be sure to use capital letters.
   You cannot change the password.

   ```
   Password: LV7800 (The password is not actually displayed.)
   ```

5. **Enter commands.**

   After you enter the password, the following command prompt appears.
   Enter commands while referring to sections 3.2, “How to Enter Commands,” and 3.3, “Commands.”

   ```
   ftp>
   ```

*1 An example of running FTP on Windows 7:
On the taskbar, click Start, and then click Run.
Type [FTP] + [Space] + [the IP address of the LV 7800], and click OK.

3.2 How to Enter Commands

To transfer files through FTP, you must run a MAKE command through Telnet before you execute FTP commands.
The FTP command syntax is explained below. You can enter commands using uppercase or lowercase letters.

```
ftp> [Command] + [Space] + [Parameter 1] + [Space] + [Parameter 2]
```

- **Command Entry Examples (Data dump transfer)**

1. Use the following Telnet command to create the data dump on the LV 7800 and save it to the instrument's internal memory.

```
LV7800> MAKE DUMP
```

2. Use the following FTP command to transfer the data dump to "DUMP.TXT" on the PC's D drive.

```
ftp> GET DUMP.TXT D:\DUMP.TXT
```

3.3 Commands

The Telnet MAKE command and the FTP commands are listed in the tables below.
For details on how each command works, see the instruction manuals for the LV 7800 and each unit.

- **Telnet Commands**

Command	Parameter 1	Description
MAKE	CAPTURE	Takes a screen capture and saves it to the LV 7800 internal memory.
	LOG	Creates an event log and saves it to the LV 7800 internal memory. (*1)
	DUMP	Creates a data dump and saves it to the LV 7800 internal memory. (*1)

- **FTP Commands**

Command	Parameter 1	Parameter 2	Description
GET	CAPTURE.BMP	path\file name.BMP (Example: D:\CAPTURE.BMP)	Transfers screen capture data as a bitmap file.
	CAPTURE.FRM	path\file name.FRM (Example: D:\CAPTURE.FRM)	Transfers frame capture data as a frame file. (*1)
	CAPTURE.DPX	path\file name.DPX (Example: D:\CAPTURE.DPX)	Transfers frame capture data as a DPX file. (*1)
	CAPTURE.TIF	path\file name.TIF (Example: D:\CAPTURE.TIF)	Transfers frame capture data as a TIFF file. (*1)
	LOG.TXT	path\file name.TXT (Example: D:\LOG.TXT)	Transfers an event log as a text file. (*1)
	DUMP.TXT	path\file name.TXT (Example: D:\DUMP.TXT)	Transfers a data dump as a text file. (*1)

*1 You have to select an LV 58SER01A (SDI INPUT).

4 SNMP

By using SNMP (Simple Network Management Protocol), you can control an LV 7800 from SNMP managers. Additionally, you can also notify the SNMP managers of SDI signal errors that the LV 7800 generates.

4.1 Procedure

To control an LV 7800 remotely over SNMP, follow the procedure below.

1. **Configure the LV 7800 Ethernet settings, and connect an Ethernet cable.**

   For more detailed instructions, see steps 1 through 3 in section 2.1, “Procedure.”

2. **Start the SNMP managers.** (***1**)

   To control the LV 7800 over SNMP, you need an SNMP manager (not included).

3. **Check that the SNMP managers can perform GET and SET operations.**

   For details on how to use the SNMP managers, see their instruction manuals.

4. **Set the following MIB items to the SNMP managers’ IP addresses.** (***2**)

   Perform the SET operation from the SNMP managers. You can set a maximum of four link destinations.

   IP address of TRAP transmission destination 1

   `1.3.6.1.4.1.leader(20111).lv7800(12).lv7800ST1(1).l12trapTBL(9).l12trapIpTBL(2).l12trapIp1TBL(1).l12trapManagerIp1(1).0`

   IP address of TRAP transmission destination 2

   `1.3.6.1.4.1.leader(20111).lv7800(12).lv7800ST1(1).l12trapTBL(9).l12trapIpTBL(2).l12trapIp2TBL(2).l12trapManagerIp2(1).0`

   IP address of TRAP transmission destination 3

   `1.3.6.1.4.1.leader(20111).lv7800(12).lv7800ST1(1).l12trapTBL(9).l12trapIpTBL(2).l12trapIp3TBL(3).l12trapManagerIp3(1).0`

   IP address of TRAP transmission destination 4

   `1.3.6.1.4.1.leader(20111).lv7800(12).lv7800ST1(1).l12trapTBL(9).l12trapIpTBL(2).l12trapIp4TBL(4).l12trapManagerIp4(1).0`

5. **Set the following MIB items to the transmission destinations that you want to enable. (*2)**

   Because each transmission destination adds to the communication load, be sure to disable (DISABLE) the transmission destinations that you are not using. All transmission destinations are disabled by default.

   Enabling (ENABLE:1) or disabling (DISABLE:2) TRAP transmission destination 1

   `1.3.6.1.4.1.leader(20111).lv7800(12).lv7800ST1(1).l12trapTBL(9).l12trapIpTBL(2).l12trapIp1TBL(1).l12trapManagerIp1Act(2).0`

   Enabling (ENABLE:1) or disabling (DISABLE:2) TRAP transmission destination 2

   `1.3.6.1.4.1.leader(20111).lv7800(12).lv7800ST1(1).l12trapTBL(9).l12trapIpTBL(2).l12trapIp2TBL(2).l12trapManagerIp2Act(2).0`

   Enabling (ENABLE:1) or disabling (DISABLE:2) TRAP transmission destination 3

   `1.3.6.1.4.1.leader(20111).lv7800(12).lv7800ST1(1).l12trapTBL(9).l12trapIpTBL(2).l12trapIp3TBL(3).l12trapManagerIp3Act(2).0`

   Enabling (ENABLE:1) or disabling (DISABLE:2) TRAP transmission destination 4

   `1.3.6.1.4.1.leader(20111).lv7800(12).lv7800ST1(1).l12trapTBL(9).l12trapIpTBL(2).l12trapIp4TBL(4).l12trapManagerIp4Act(2).0`

6. **Restart the LV 7800.**

7. **When the LV 7800 starts, it transmits the standard TRAP "coldStart(0)." Check that this is received by the SNMP managers.**

*1 SNMP Version
SNMPv1
Community Name
Read community: LDRUser
Write community: LDRAdm
TRAP community: LDRUser
SMI Definition
IMPORTS
MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE, and enterprises
From SNMPv2-SMI
DisplayString
From SNMPv2-TC
OBJECT-GROUP, MODULE-COMPLIANCE
From SNMPv2-CONF

*2 "1" is the numeral 1, "l" is a lowercase l, and "I" is an uppercase i.

4.2 MIB

This section explains the MIB (Management Information Base) that the LV 7800 uses.
In the tables that follow, “ACCESS” has the following meanings:

ACCESS	Description
R/O	Information that can only be retrieved from the SNMP managers.
R/W	Information that can be retrieved and set from the SNMP managers.
R/WO	Information that can be retrieved and set from the SNMP managers. (However, the retrieved data consists of meaningless fixed values.)

4.2.1 Standard MIB

The LV 7800 uses the following standard MIBs:
• RFC1213 (MIB-II)
• RFC1354 (IP Forwarding Table MIB)

Note that in this version, there are objects that are not implemented.
In the tables that follow, “SUPPORT” has the following meanings:

SUPPORT	Description
○	Supports the MIB object as defined by the standard.
△	Reading and writing are possible according to the standard, but the LV 7800 only supports reading.
×	Not supported.

● system group

MIB	OID	SYNTAX	ACCESS	SUPPORT
sysDescr	system.1	DisplayString	R/O	○
sysObjectID	system.2	ObjectID	R/O	○
sysUpTime	system.3	TimeTicks	R/O	○
sysContact (*1)	system.4	DisplayString	R/W	○
sysName (*1)	system.5	DisplayString	R/W	○
sysLocation (*1)	system.6	DisplayString	R/W	○
sysServices	system.7	INTEGER	R/O	○

*1 Set using up to 40 bytes.

● interface group

MIB	OID	SYNTAX	ACCESS	SUPPORT
ifNumber	interfaces.1	INTEGER	R/O	○
ifTable	interfaces.2	Aggregate	--	○
ifEntry	ifTable.1	Aggregate	--	○
ifIndex	ifEntry.1	INTEGER	R/O	○
ifDescr	ifEntry.2	DisplayString	R/O	○
ifType	ifEntry.3	INTEGER	R/O	○
ifMtu	ifEntry.4	INTEGER	R/O	○
ifSpeed	ifEntry.5	Gauge	R/O	○
ifPhysAddress	ifEntry.6	OctetString	R/O	○
ifAdminStatus	ifEntry.7	INTEGER	R/O	△
ifOperStatus	ifEntry.8	INTEGER	R/O	△
ifLastChange	ifEntry.9	TimeTicks	R/O	○
ifInOctets	ifEntry.10	Counter	R/O	○
ifInUcastPkts	ifEntry.11	Counter	R/O	○
ifInNUcastPkts	ifEntry.12	Counter	R/O	○
ifInDiscards	ifEntry.13	Counter	R/O	○
ifInErrors	ifEntry.14	Counter	R/O	○
ifInUnknownProtos	ifEntry.15	Counter	R/O	○
ifOutOctets	ifEntry.16	Counter	R/O	○
ifOutUcastPkts	ifEntry.17	Counter	R/O	○
ifOutNUcastPkts	ifEntry.18	Counter	R/O	○
ifOutDiscards	ifEntry.19	Counter	R/O	○
ifOutErrors	ifEntry.20	Counter	R/O	○
ifOutQLen	ifEntry.21	Gauge	R/O	○
ifSpecific	ifEntry.22	ObjectID	R/O	○

● ip group

MIB	OID	SYNTAX	ACCESS	SUPPORT
ipForwarding	ip.1	INTEGER	R/O	○
ipDefaultTTL	ip.2	INTEGER	R/O	○
ipInReceives	ip.3	Counter	R/O	○
ipInHdrErrors	ip.4	Counter	R/O	○
ipInAddrErrors	ip.5	Counter	R/O	○
ipForwDatagrams	ip.6	Counter	R/O	○
ipInUnknownProtos	ip.7	Counter	R/O	○
ipInDiscards	ip.8	Counter	R/O	○
ipInDelivers	ip.9	Counter	R/O	○
ipOutRequests	ip.10	Counter	R/O	○
ipOutDiscards	ip.11	Counter	R/O	○
ipOutNoRoutes	ip.12	Counter	R/O	○
ipReasmTimeout	ip.13	INTEGER	R/O	○
ipReasmReqds	ip.14	Counter	R/O	○
ipReasmOKs	ip.15	Counter	R/O	○

MIB	OID	SYNTAX	ACCESS	SUPPORT
ipReasmFails	ip.16	Counter	R/O	○
ipFragOKs	ip.17	Counter	R/O	○
ipFragFails	ip.18	Counter	R/O	○
ipFragCreates	ip.19	Counter	R/O	○
ipAddrTable	ip.20	Aggregate	--	○
ipAddrEntry	ipAddrTable.1	Aggregate	--	○
ipAdEntAddr	ipAddrEntry.1	IpAddress	R/O	○
ipAdEntIfIndex	ipAddrEntry.2	INTEGER	R/O	○
ipAdEntNetMask	ipAddrEntry.3	IpAddress	R/O	○
ipAdEntBcastAddr	ipAddrEntry.4	INTEGER	R/O	○
ipAdEntReasmMaxSize	ipAddrEntry.5	INTEGER	R/O	○
ipNetToMediaTable	ip.22	Aggregate	--	○
ipNetToMediaEntry	ipNetToMediaTable.1	Aggregate	--	○
ipNetToMediaIfIndex	ipNetToMediaEntry.1	INTEGER	R/O	△
ipNetToMediaPhysAddress	ipNetToMediaEntry.2	OctetString	R/O	△
ipNetToMediaNetAddress	ipNetToMediaEntry.3	IpAddress	R/O	△
ipNetToMediaType	ipNetToMediaEntry.4	INTEGER	R/O	△
ipRoutingDiscards	ip.23	Counter	R/O	○
ipForward	ip.24	Aggregate	--	○
ipForwardNumber	ipForward .1	Gauge	R/O	○
ipForwardTable	ipForward .2	Aggregate	--	○
ipForwardDest	ipForwardTable.1	IpAddress	R/O	○
ipForwardMask	ipForwardTable.1	IpAddress	R/O	○
ipForwardPolicy	ipForwardTable.1	INTEGER	R/O	×
ipForwardNextHop	ipForwardTable.1	IpAddress	R/O	○
ipForwardIfIndex	ipForwardTable.1	INTEGER	R/O	○
ipForwardType	ipForwardTable.1	INTEGER	R/O	×
ipForwardProto	ipForwardTable.1	INTEGER	R/O	×
ipForwardAge	ipForwardTable.1	INTEGER	R/O	×
ipForwardInfo	ipForwardTable.1	ObjectID	R/O	×
ipForwardNextHopAS	ipForwardTable.1	INTEGER	R/O	×
ipForwardMetric1	ipForwardTable.1	INTEGER	R/O	×
ipForwardMetric2	ipForwardTable.1	INTEGER	R/O	×
ipForwardMetric3	ipForwardTable.1	INTEGER	R/O	×
ipForwardMetric4	ipForwardTable.1	INTEGER	R/O	×
ipForwardMetric5	ipForwardTable.1	INTEGER	R/O	×

● icmp group

MIB	OID	SYNTAX	ACCESS	SUPPORT
icmpInMsgs	icmp.1	Counter	R/O	○
icmpInErrors	icmp.2	Counter	R/O	○
icmpInDestUnreachs	icmp.3	Counter	R/O	○
icmpInTimeExcds	icmp.4	Counter	R/O	○
icmpInParmProbs	icmp.5	Counter	R/O	○
icmpInSrcQuenchs	icmp.6	Counter	R/O	○

MIB	OID	SYNTAX	ACCESS	SUPPORT
icmpInRedirects	icmp.7	Counter	R/O	○
icmpInEchos	icmp.8	Counter	R/O	○
icmpInEchoReps	icmp.9	Counter	R/O	○
icmpInTimestamps	icmp.10	Counter	R/O	○
icmpInTimestampReps	icmp.11	Counter	R/O	○
icmpInAddrMasks	icmp.12	Counter	R/O	○
icmpInAddrMaskReps	icmp.13	Counter	R/O	○
icmpOutMsgs	icmp.14	Counter	R/O	○
icmpOutErrors	icmp.15	Counter	R/O	○
icmpOutDestUnreachs	icmp.16	Counter	R/O	○
icmpOutTimeExcds	icmp.17	Counter	R/O	○
icmpOutParmProbs	icmp.18	Counter	R/O	○
icmpOutSrcQuenchs	icmp.19	Counter	R/O	○
icmpOutRedirects	icmp.20	Counter	R/O	○
icmpOutEchos	icmp.21	Counter	R/O	○
icmpOutEchoReps	icmp.22	Counter	R/O	○
icmpOutTimestamps	icmp.23	Counter	R/O	○
icmpOutTimestampReps	icmp.24	Counter	R/O	○
icmpOutAddrMasks	icmp.25	Counter	R/O	○
icmpOutAddrMaskReps	icmp.26	Counter	R/O	○

● tcp group

MIB	OID	SYNTAX	ACCESS	SUPPORT
tcpRtoAlgorithm	tcp.1	INTEGER	R/O	○
tcpRtoMin	tcp.2	INTEGER	R/O	○
tcpRtoMax	tcp.3	INTEGER	R/O	○
tcpMaxConn	tcp.4	INTEGER	R/O	○
tcpActiveOpens	tcp.5	Counter	R/O	○
tcpPassiveOpens	tcp.6	Counter	R/O	○
tcpAttemptFails	tcp.7	Counter	R/O	○
tcpEstabResets	tcp.8	Counter	R/O	○
tcpCurrEstab	tcp.9	Gauge	R/O	○
tcpInSegs	tcp.10	Counter	R/O	○
tcpOutSegs	tcp.11	Counter	R/O	○
tcpRetransSegs	tcp.12	Counter	R/O	○
tcpConnTable	tcp.13	Aggregate	--	○
tcpConnEntry	tcpConnTable.1	Aggregate	--	○
tcpConnState	tcpConnEntry.1	INTEGER	R/O	△
tcpConnLocalAddress	tcpConnEntry.2	IpAddress	R/O	○
tcpConnLocalPort	tcpConnEntry.3	INTEGER	R/O	○
tcpConnRemAddress	tcpConnEntry.4	IpAddress	R/O	○
tcpConnRemPort	tcpConnEntry.5	INTEGER	R/O	○
tcpInErrs	tcp.14	Counter	R/O	○
tcpOutRsts	tcp.15	Counter	R/O	○

● udp group

MIB	OID	SYNTAX	ACCESS	SUPPORT
udpInDatagrams	udp.1	Counter	R/O	O
udpNoPorts	udp.2	Counter	R/O	O
udpInErrors	udp.3	Counter	R/O	O
udpOutDatagrams	udp.4	Counter	R/O	O
udpTable	udp.5	Aggregate	--	O
udpEntry	udpTable.1	Aggregate	--	O
udpLocalAddress	udpEntry.1	IpAddress	R/O	O
udpLocalPort	udpEntry.2	INTEGER	R/O	O

● snmp group

MIB	OID	SYNTAX	ACCESS	SUPPORT
snmpInPkts	snmp.1	Counter	R/O	O
snmpOutPkts	snmp.2	Counter	R/O	O
snmpInBadVersions	snmp.3	Counter	R/O	O
snmpInBadCommunityNames	snmp.4	Counter	R/O	O
snmpInBadCommunityUses	snmp.5	Counter	R/O	O
snmpInASNParseErrs	snmp.6	Counter	R/O	O
snmpInTooBigs	snmp.8	Counter	R/O	O
snmpInNoSuchNames	snmp.9	Counter	R/O	O
snmpInBadValues	snmp.10	Counter	R/O	O
snmpInReadOnlys	snmp.11	Counter	R/O	O
snmpInGenErrs	snmp.12	Counter	R/O	O
snmpInTotalReqVars	snmp.13	Counter	R/O	O
snmpInTotalSetVars	snmp.14	Counter	R/O	O
snmpInGetRequests	snmp.15	Counter	R/O	O
snmpInGetNexts	snmp.16	Counter	R/O	O
snmpInSetRequests	snmp.17	Counter	R/O	O
snmpInGetResponses	snmp.18	Counter	R/O	O
snmpInTraps	snmp.19	Counter	R/O	O
snmpOutTooBigs	snmp.20	Counter	R/O	O
snmpOutNoSuchNames	snmp.21	Counter	R/O	O
snmpOutBadValues	snmp.22	Counter	R/O	O
snmpOutGenErrs	snmp.24	Counter	R/O	O
snmpOutGetRequests	snmp.25	Counter	R/O	O
snmpOutGetNexts	snmp.26	Counter	R/O	O
snmpOutSetRequests	snmp.27	Counter	R/O	O
snmpOutGetResponses	snmp.28	Counter	R/O	O
snmpOutTraps	snmp.29	Counter	R/O	O
snmpEnableAuthenTraps	snmp.30	IpAddress	R/W	O

4.2.2 Enterprise MIB

- **Enterprise Number**

  The enterprise number of LEADER ELECTRONICS CORPORATION is 20111.
  iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).leader(20111)

- **Retrieving the Enterprise MIB File**

  Download the file on the LV 7800 using FTP.
  The file name is “lv7800.my”.

- **Enterprise MIB Structure**

  The enterprise MIB structure is shown below.
  On the LV 7800 that does not have option boards installed, the MIB for the options cannot be controlled.

```
leader      OBJECT IDENTIFIER ::= { enterprises 20111 }
lv7800      OBJECT IDENTIFIER ::= { leader 12 }
lv7800ST1   OBJECT IDENTIFIER ::= { lv7800 1 }
basic       OBJECT IDENTIFIER ::= { lv7800ST1 1 }   <--  Basic operation
system      OBJECT IDENTIFIER ::= { lv7800ST1 2 }   <--  SYSTEM menu
wfm         OBJECT IDENTIFIER ::= { lv7800ST1 3 }   <--  WFM menu
vector      OBJECT IDENTIFIER ::= { lv7800ST1 4 }   <--  VECTOR menu
picture     OBJECT IDENTIFIER ::= { lv7800ST1 5 }   <--  PICTURE menu
audio       OBJECT IDENTIFIER ::= { lv7800ST1 6 }   <--  AUDIO menu
status      OBJECT IDENTIFIER ::= { lv7800ST1 7 }   <--  STATUS menu
eye         OBJECT IDENTIFIER ::= { lv7800ST1 8 }   <--  EYE menu
trap        OBJECT IDENTIFIER ::= { lv7800ST1 9 }   <--  Trap information
```

- **Enterprise MIBs**

  Tree Structure of the Enterprise MIB is shown below.
  The prefix “l12” described below is the lowercase of L12.

```
leader OBJECT IDENTIFIER ::= { enterprises 20111 }
lv7800 OBJECT IDENTIFIER ::= { leader 12 }
lv7800ST1 OBJECT IDENTIFIER ::= { lv7800 1 }
l12basicTBL OBJECT IDENTIFIER ::= { lv7800ST1 1 }
l12systemTBL OBJECT IDENTIFIER ::= { lv7800ST1 2 }
l12wfmTBL OBJECT IDENTIFIER ::= { lv7800ST1 3 }
l12vectorTBL OBJECT IDENTIFIER ::= { lv7800ST1 4 }
l12pictureTBL OBJECT IDENTIFIER ::= { lv7800ST1 5 }
l12audioTBL OBJECT IDENTIFIER ::= { lv7800ST1 6 }
l12statusTBL OBJECT IDENTIFIER ::= { lv7800ST1 7 }
l12eyeTBL OBJECT IDENTIFIER ::= { lv7800ST1 8 }
l12trapTBL OBJECT IDENTIFIER ::= { lv7800ST1 9 }
```

● l12basicTBL(1) group

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12basDisplay	l12basicTBL.1	INTEGER	R/W	1 = display1 2 = display2 3 = display3 4 = display4
l12basMulti	l12basicTBL.2	INTEGER	R/W	1 = on 2 = off
l12basInputTBL	l12basicTBL.3	Aggregate	--	--
l12basInputUnit	l12basInputTBL.1	INTEGER	R/W	1 = unit1 2 = unit2 3 = unit3 4 = unit4
l12basInputCh	l12basInputTBL.2	INTEGER	R/W	1 = A 2 = B
l12basMode	l12basicTBL.4	INTEGER	R/W	1 = WFM 2 = Vector 3 = Picture 4 = Audio 5 = Status 6 = Eye
l12basExt	l12basicTBL.5	INTEGER	R/W	1 = INT 2 = EXT
l12basRecall	l12basicTBL.6	INTEGER	R/WO	1 to 60
l12basFileTBL	l12basicTBL.7	Aggregate	--	--
l12basFileMakeLog	l12basFileTBL.1	INTEGER	R/WO	1 = Make Log
l12basFileMakeDump	l12basFileTBL.2	INTEGER	R/WO	1 = Make Dump
l12basFileMakeCapture	l12basFileTBL.3	INTEGER	R/WO	1 = Make Capture
l12baskey lock	l12basicTBL.8	INTEGER	R/W	1 = on 2 = off

● l12systemTBL(2) group LV 7800 (MULTI MONITOR)

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12sysUnitTBL	l12systemTBL.1	Aggregate	--	--
l12sysUnitSetup (*1)	l12sysUnitTBL.1	INTEGER	R/W	1 = unit1 2 = unit2 3 = unit3 4 = unit4
l12sysUnit1Info	l12sysUnitTBL.2	INTEGER	R/O	1 = none 2 = SDI 3 = Audio 4 = Eye 5 = Analog 6 = DVI-I 7 = MPEG
l12sysUnit2Info	l12sysUnitTBL.3	INTEGER	R/O	1 = none 2 = SDI 3 = Audio 4 = Eye 5 = Analog 6 = DVI-I 7 = MPEG
l12sysUnit3Info	l12sysUnitTBL.4	INTEGER	R/O	1 = none 2 = SDI 3 = Audio 4 = Eye 5 = Analog 6 = DVI-I 7 = MPEG
l12sysUnit4Info	l12sysUnitTBL.5	INTEGER	R/O	1 = none 2 = SDI 3 = Audio 4 = Eye 5 = Analog 6 = DVI-I 7 = MPEG
l12sysUnitManualSelect	l12sysUnitTBL.6	INTEGER	R/W	1 = Auto 2 = Manual
l12sysUnitManualFormat	l12sysUnitTBL.7	INTEGER	R/W	1 = 1080i/60 2 = 1080PsF/30 3 = 1080i/59.94 4 = 1080PsF/29.97 5 = 1080i/50 6 = 1080PsF/25 7 = 1080PsF/24 8 = 1080PsF/23.98 9 = 1080p/30 10 = 1080p/29.97

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				11 = 1080p/25 12 = 1080p/24 13 = 1080p/23.98 14 = 720p/60 15 = 720p/59.94 16 = 720p/50 17 = 720p/30 18 = 720p/29.97 19 = 720p/25 20 = 720p/24 21 = 720p/23.98 22 = 525i/59.94 23 = 625i/50
l12sysDate	l12systemTBL.5	OctetString	R/W	YYYY/MM/DD hh:mm:ss
l12sysPlatformTBL	l12systemTBL.6	Aggregate	--	--
l12sysPlatformDisplayMultiMode	l12sysPlatformTBL.1	INTEGER	R/W	1 = 2MULTI 2 = 4MULTI
l12sysPlatformCaptureMode	l12sysPlatformTBL.2	INTEGER	R/W	1 = SCREEN 2 = VIDEO-FRAME
l12sysPlatformDisplayInfoFormat	l12sysPlatformTBL.3	INTEGER	R/W	1 = ON 2 = OFF
l12sysPlatformDisplayInfoDate	l12sysPlatformTBL.4	INTEGER	R/W	1 = OFF 2 = YMD 3 = MDY 4 = DMY
l12sysPlatformDisplayInfoTime	l12sysPlatformTBL.5	INTEGER	R/W	1 = ON 2 = OFF
l12sysPlatformDisplayInfoColor	l12sysPlatformTBL.6	INTEGER	R/W	1 = ON 2 = OFF
12sysPlatformDisplayInfoInput	l12sysPlatformTBL.7	INTEGER	R/W	1 = ON 2 = OFF
l12sysPlatformRemoteMode	l12sysPlatformTBL.8	INTEGER	R/W	1 = BIT 2 = BINARY
l12sysPlatformAlarmPolarity	l12sysPlatformTBL.9	INTEGER	R/W	1 = POSITIVE 2 = NEGATIVE
l12sysPlatformAlarm1Unit	l12sysPlatformTBL.10	INTEGER	R/W	1 = UNIT1 2 = UNIT2 3 = UNIT3 4 = UNIT4 5 = ALL
l12sysPlatformAlarm2Unit	l12sysPlatformTBL.11	INTEGER	R/W	1 = UNIT1 2 = UNIT2 3 = UNIT3 4 = UNIT4 5 = ALL

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12sysPlatformAlarm3Unit	l12sysPlatformTBL.12	INTEGER	R/W	1 = UNIT1 2 = UNIT2 3 = UNIT3 4 = UNIT4 5 = ALL
l12sysPlatformAlarm4Unit	l12sysPlatformTBL.13	INTEGER	R/W	1 = UNIT1 2 = UNIT2 3 = UNIT3 4 = UNIT4 5 = ALL
l12sysPlatformAlarm1Ch	l12sysPlatformTBL.14	INTEGER	R/W	1 = A 2 = B 3 = A/B
l12sysPlatformAlarm2Ch	l12sysPlatformTBL.15	INTEGER	R/W	1 = A 2 = B 3 = A/B
l12sysPlatformAlarm3Ch	l12sysPlatformTBL.16	INTEGER	R/W	1 = A 2 = B 3 = A/B
l12sysPlatformAlarm4Ch	l12sysPlatformTBL.17	INTEGER	R/W	1 = A 2 = B 3 = A/B
l12sysPlatformErrorBeep	l12sysPlatformTBL.18	INTEGER	R/W	1 = ON 2 = OFF
l12sysAspect	l12systemTBL.7	INTEGER	R/W	1 = 4:3 2 = 16:9
l12sysInit	l12systemTBL.8	INTEGER	R/WO	1 = Initialize
l12sysWindowMarker	l12systemTBL.9	INTEGER	R/W	1 = OFF 2 = BLUE 3 = WHITE
l12sysSourceMode	l12systemTBL.10	INTEGER	R/W	1 = SINGLE 2 = MULTI 3 = MULTI-LINE

*1 This is initialized to unit1 when the LV 7800 turns ON. If you want to specify a value for each board, select the unit number here first. After you select the unit number, it is saved until you change the value or turn OFF the LV 7800.

● l12systemTBL(2) group LV 58SER01A (SDI INPUT)

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12sysUnitSdiTBL	l12systemTBL.2	Aggregate	--	--
l12sysUnitSdiLinkFormat	l12sysUnitSdiTBL.1	INTEGER	R/W	1 = SINGLE 2 = DUAL 3 = 2K
l12sysUnitSdiIPSF	l12sysUnitSdiTBL.2	INTEGER	R/W	1 = INTERLACE 2 = SEG.FRAM
l12sysUnitSdiDualTBL	l12sysUnitSdiTBL.3	Aggregate	--	--
l12sysUnitSdiDualSystem	l12sysUnitSdiDualTBL.1	INTEGER	R/W	1 = GBR-444 2 = YCBCR-422
l12sysUnitSdiDualDepth	l12sysUnitSdiDualTBL.2	INTEGER	R/W	1 = 10B 2 = 12B
l12sysUnitSdiDualScan	l12sysUnitSdiDualTBL.3	INTEGER	R/W	1 = 1080I 2 = 1080PSF 3 = 1080P
l12sysUnitSdiInfoTimeCode	l12sysUnitSdiTBL.4	INTEGER	R/W	1 = REAL 2 = LTC 3 = VITC
l12sysUnitSdiSelectOutput	l12sysUnitSdiTBL.5	INTEGER	R/W	1 = A 2 = A/B
l12sysUnitSdiErrTBL	l12sysUnitSdiTBL.6	Aggregate	--	--
l12sysUnitSdiErrTrs	l12sysUnitSdiErrTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrHdLine	l12sysUnitSdiErrTBL.2	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrHdCrc	l12sysUnitSdiErrTBL.3	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrSdEdh	l12sysUnitSdiErrTBL.4	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrIllegalCode	l12sysUnitSdiErrTBL.5	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrCableTBL	l12sysUnitSdiTBL.7	Aggregate	--	--
l12sysUnitSdiErrCable	l12sysUnitSdiErrCableTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrHdCable	l12sysUnitSdiErrCableTBL.2	INTEGER	R/W	1 = LS-5CFB 2 = 1694A 3 = L-7CHD
l12sysUnitSdiErrHdCableLength	l12sysUnitSdiErrCableTBL.3	INTEGER	R/W	5 to 200
l12sysUnitSdiErrHdCableWarn	l12sysUnitSdiErrCableTBL.4	INTEGER	R/W	5 to 200
l12sysUnitSdiErrSdCable	l12sysUnitSdiErrCableTBL.5	INTEGER	R/W	1 = L-5C2V 2 = 8281 3 = 1505A
l12sysUnitSdiErrSdCableLength	l12sysUnitSdiErrCableTBL.6	INTEGER	R/W	50 to 300
l12sysUnitSdiErrSdCableWarn	l12sysUnitSdiErrCableTBL.7	INTEGER	R/W	50 to 300
l12sysUnitSdiErrAncTBL	l12sysUnitSdiTBL.8	Aggregate	--	--

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12sysUnitSdiErrAncParity	l12sysUnitSdiErrAncTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrAncChecksum	l12sysUnitSdiErrAncTBL.2	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrAudTBL	l12sysUnitSdiTBL.9	Aggregate	--	--
l12sysUnitSdiErrAudioBch	l12sysUnitSdiErrAudTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrAudioDbn	l12sysUnitSdiErrAudTBL.2	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrAudioParity	l12sysUnitSdiErrAudTBL.3	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrAudioInhibit	l12sysUnitSdiErrAudTBL.4	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrGamutTBL	l12sysUnitSdiTBL.10	Aggregate	--	--
l12sysUnitSdiErrGamutLpf	l12sysUnitSdiErrGamutTBL.1	INTEGER	R/W	1 = HD1M-SD1M 2 = HD2.8M-SD1M 3 = OFF
l12sysUnitSdiErrGamut	l12sysUnitSdiErrGamutTBL.2	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrGamutUpper	l12sysUnitSdiErrGamutTBL.3	OctetString	R/W	90.8 to 109.4
l12sysUnitSdiErrGamutLower	l12sysUnitSdiErrGamutTBL.4	OctetString	R/W	-7.2 to 6.1
l12sysUnitSdiErrGamutArea	l12sysUnitSdiErrGamutTBL.5	OctetString	R/W	0.1 to 5.0
l12sysUnitSdiErrGamutDuration	l12sysUnitSdiErrGamutTBL.6	INTEGER	R/W	1 to 60
l12sysUnitSdiErrCGamut	l12sysUnitSdiErrGamutTBL.7	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrCGamutSetup	l12sysUnitSdiErrGamutTBL.8	INTEGER	R/W	1 = 0P 2 = 7.5P
l12sysUnitSdiErrCGamutUpper	l12sysUnitSdiErrGamutTBL.9	OctetString	R/W	90.0 to 135.0
l12sysUnitSdiErrCGamutLower	l12sysUnitSdiErrGamutTBL.10	OctetString	R/W	-40.0 to 20.0
l12sysUnitSdiErrCGamutArea	l12sysUnitSdiErrGamutTBL.11	OctetString	R/W	0.1 to 5.0
l12sysUnitSdiErrCGamutDuration	l12sysUnitSdiErrGamutTBL.12	INTEGER	R/W	1 to 60
l12sysUnitSdiErrFreezeTBL	l12sysUnitSdiTBL.11	Aggregate	--	--
l12sysUnitSdiErrFreeze	l12sysUnitSdiErrFreezeTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrFreezeUpper	l12sysUnitSdiErrFreezeTBL.2	INTEGER	R/W	0 to 100
l12sysUnitSdiErrFreezeLower	l12sysUnitSdiErrFreezeTBL.3	INTEGER	R/W	0 to 100
l12sysUnitSdiErrFreezeLeft	l12sysUnitSdiErrFreezeTBL.4	INTEGER	R/W	0 to 100
l12sysUnitSdiErrFreezeRight	l12sysUnitSdiErrFreezeTBL.5	INTEGER	R/W	0 to 100
l12sysUnitSdiErrFreezeDuration	l12sysUnitSdiErrFreezeTBL.6	INTEGER	R/W	2 to 300
l12sysUnitSdiErrBlackTBL	l12sysUnitSdiTBL.12	Aggregate	--	--
l12sysUnitSdiErrBlack	l12sysUnitSdiErrBlackTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrBlackLevel	l12sysUnitSdiErrBlackTBL.2	INTEGER	R/W	0 to 100
l12sysUnitSdiErrBlackArea	l12sysUnitSdiErrBlackTBL.3	INTEGER	R/W	1 to 100
l12sysUnitSdiErrBlackDuration	l12sysUnitSdiErrBlackTBL.4	INTEGER	R/W	1 to 300

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12sysUnitSdiErrLevelTBL	l12sysUnitSdiTBL.13	Aggregate	--	--
l12sysUnitSdiErrLevel	l12sysUnitSdiErrLevelTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitSdiErrLevelRumaUpper	l12sysUnitSdiErrLevelTBL.2	INTEGER	R/W	-51 to 766
l12sysUnitSdiErrLevelRumaLower	l12sysUnitSdiErrLevelTBL.3	INTEGER	R/W	-51 to 766
l12sysUnitSdiErrLevelChromaUpper	l12sysUnitSdiErrLevelTBL.4	INTEGER	R/W	-400 to 399
l12sysUnitSdiErrLevelChromaLower	l12sysUnitSdiErrLevelTBL.5	INTEGER	R/W	-400 to 399

● l12systemTBL(2) group LV 58SER40A (DIGITAL AUDIO)

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12sysUnitAudioTBL	l12systemTBL.3	Aggregate	--	--
l12sysUnitAudioExtBnc	l12sysUnitAudioTBL.1	INTEGER	R/W	1 = INPUT 2 = OUTPUT
l12sysUnitAudioErrHdTBL	l12sysUnitAudioTBL.2	Aggregate	--	--
l12sysUnitAudioErrorLevelOver	l12sysUnitAudioErrHdTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitAudioErrorClip	l12sysUnitAudioErrHdTBL.2	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitAudioErrorClipDuration	l12sysUnitAudioErrHdTBL.3	INTEGER	R/W	1 to 100
l12sysUnitAudioErrorMute	l12sysUnitAudioErrHdTBL.4	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitAudioErrorMuteDuration	l12sysUnitAudioErrHdTBL.5	INTEGER	R/W	1 to 5000
l12sysUnitAudioErrorParity	l12sysUnitAudioErrHdTBL.6	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitAudioErrorValidity	l12sysUnitAudioErrHdTBL.7	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitAudioErrorCrc	l12sysUnitAudioErrHdTBL.8	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitAudioErrorCode	l12sysUnitAudioErrHdTBL.9	INTEGER	R/W	1 = ON 2 = OFF

● l12systemTBL(2) group LV 58SER02 (EYE PATTERN unit)

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12sysUnitEyeTBL	l12systemTBL.4	Aggregate	--	--
l12sysUnitEyeErrHdTBL	l12sysUnitEyeTBL.1	Aggregate	--	--
l12sysUnitEyeErrHdAmp	l12sysUnitEyeErrHdTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitEyeErrHdAmpUpper	l12sysUnitEyeErrHdTBL.2	INTEGER	R/W	80 to 140
l12sysUnitEyeErrHdAmpLower	l12sysUnitEyeErrHdTBL.3	INTEGER	R/W	40 to 100
l12sysUnitEyeErrHdRise	l12sysUnitEyeErrHdTBL.4	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitEyeErrHdRiseMax	l12sysUnitEyeErrHdTBL.5	INTEGER	R/W	40 to 140
l12sysUnitEyeErrHdFall	l12sysUnitEyeErrHdTBL.6	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitEyeErrHdFallMax	l12sysUnitEyeErrHdTBL.7	INTEGER	R/W	40 to 140
l12sysUnitEyeErrHdDelta	l12sysUnitEyeErrHdTBL.8	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitEyeErrHdDeltaMax	l12sysUnitEyeErrHdTBL.9	INTEGER	R/W	40 to 140
l12sysUnitEyeErrHdTimingJit	l12sysUnitEyeErrHdTBL.10	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitEyeErrHdTimingJitMax	l12sysUnitEyeErrHdTBL.11	INTEGER	R/W	10 to 200
l12sysUnitEyeErrHdCurrentJit	l12sysUnitEyeErrHdTBL.12	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitEyeErrHdCurrentJitMax	l12sysUnitEyeErrHdTBL.13	INTEGER	R/W	10 to 200
l12sysUnitEyeErrSdTBL	l12sysUnitEyeTBL.2	Aggregate	--	--
l12sysUnitEyeErrSdAmp	l12sysUnitEyeErrSdTBL.1	INTEGER	R/W	1= ON 2 = OFF
l12sysUnitEyeErrSdAmpUpper	l12sysUnitEyeErrSdTBL.2	INTEGER	R/W	80 to 140
l12sysUnitEyeErrSdAmpLower	l12sysUnitEyeErrSdTBL.3	INTEGER	R/W	40 to 100
l12sysUnitEyeErrSdRise	l12sysUnitEyeErrSdTBL.4	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitEyeErrSdRiseMax	l12sysUnitEyeErrSdTBL.5	INTEGER	R/W	40 to 140
l12sysUnitEyeErrSdFall	l12sysUnitEyeErrSdTBL.6	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitEyeErrSdFallMax	l12sysUnitEyeErrSdTBL.7	INTEGER	R/W	40 to 140
l12sysUnitEyeErrSdDelta	l12sysUnitEyeErrSdTBL.8	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitEyeErrSdDeltaMax	l12sysUnitEyeErrSdTBL.9	INTEGER	R/W	40 to 140
l12sysUnitEyeErrSdTimingJit	l12sysUnitEyeErrSdTBL.10	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitEyeErrSdTimingJitMax	l12sysUnitEyeErrSdTBL.11	INTEGER	R/W	10 to 200
l12sysUnitEyeErrSdCurrentJit	l12sysUnitEyeErrSdTBL.12	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitEyeErrSdCurrentJitMax	l12sysUnitEyeErrSdTBL.13	INTEGER	R/W	10 to 200

● l12systemTBL(2) Group LV 58SER04 (MPEG DECODER)

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12sysUnitMpegTBL	l12systemTBL.11	Aggregate	--	--
l12sysUnitMpegSemiAutoSearch	l12sysUnitMpegTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitMpegErrSyncByte	l12sysUnitMpegTBL.2	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitMpegErrContinuity	l12sysUnitMpegTBL.3	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitMpegErrPat	l12sysUnitMpegTBL.4	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitMpegErrPatCycle	l12sysUnitMpegTBL.5	INTEGER	R/W	100 to 800
l12sysUnitMpegErrPmt	l12sysUnitMpegTBL.6	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitMpegErrPmtCycle	l12sysUnitMpegTBL.7	INTEGER	R/W	100 to 800
l12sysUnitMpegErrPid	l12sysUnitMpegTBL.8	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitMpegErrPidCycle	l12sysUnitMpegTBL.9	INTEGER	R/W	1 to 20
l12sysUnitMpegErrTransport	l12sysUnitMpegTBL.10	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitMpegErrCrc	l12sysUnitMpegTBL.11	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitMpegErrPcr	l12sysUnitMpegTBL.12	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitMpegErrPcrCycle	l12sysUnitMpegTBL.13	INTEGER	R/W	10 to 200
l12sysUnitMpegErrAccuracy	l12sysUnitMpegTBL.14	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitMpegErrPts	l12sysUnitMpegTBL.15	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitMpegErrPtsCycle	l12sysUnitMpegTBL.16	INTEGER	R/W	100 to 800
l12sysUnitMpegErrCat	l12sysUnitMpegTBL.17	INTEGER	R/W	1 = ON 2 = OFF
l12sysUnitMpegErrCatCycle	l12sysUnitMpegTBL.18	OctetString	R/W	0.1 to 20.0

● l12wfmTBL(3) group * Valid when MODE of DISPLAY selected is WFM.

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12wfmDispTBL	l12wfmTBL.1	Aggregate	--	--
l12wfmDispCh1	l12wfmDispTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12wfmDispCh2	l12wfmDispTBL.2	INTEGER	R/W	1 = ON 2 = OFF
l12wfmDispCh3	l12wfmDispTBL.3	INTEGER	R/W	1 = ON 2 = OFF
l12wfmDispOvlay	l12wfmDispTBL.4	INTEGER	R/W	1 = ON 2 = OFF
l12wfmIntenTBL	l12wfmTBL.2	Aggregate	--	--
l12wfmIntenWfm	l12wfmIntenTBL.1	INTEGER	R/W	-128 to 127
l12wfmIntenScale	l12wfmIntenTBL.2	INTEGER	R/W	-8 to 7
l12wfmScaleTBL	l12wfmTBL.3	Aggregate	--	--
l12wfmScaleUnit	l12wfmScaleTBL.1	INTEGER	R/W	1 = HDV-SDP 2 = HDV-SDV 3 = HDP-SDP
l12wfmScaleColor75per	l12wfmScaleTBL.2	INTEGER	R/W	1 = ON 2 = OFF
l12wfmScaleColor	l12wfmScaleTBL.3	INTEGER	R/W	1 = WHITE 2 = YELLOW 3 = CYAN 4 = GREEN 5 = MAGENTA 6 = RED 7 = BLUE
l12wfmColor	l12wfmScaleTBL.4	INTEGER	R/W	1 = WHITE 2 = GREEN 3 = MULTI
l12wfmGainTBL	l12wfmTBL.4	Aggregate	--	--
l12wfmGainVar	l12wfmGainTBL.1	INTEGER	R/W	1 = CAL 2 = VAR
l12wfmGainVal	l12wfmGainTBL.2	OctetString	R/W	0.200 to 2.000
l12wfmGainMag	l12wfmGainTBL.3	INTEGER	R/W	1 = X1 2 = X5
l12wfmSweepTBL	l12wfmTBL.5	Aggregate	--	--
l12wfmSweepSweep	l12wfmSweepTBL.1	INTEGER	R/W	1 = H 2 = V
l12wfmSweepHSweep	l12wfmSweepTBL.2	INTEGER	R/W	1 = 1H 2 = 2H
l12wfmSweepVSweep	l12wfmSweepTBL.3	INTEGER	R/W	1 = 1V 2 = 2V
l12wfmSweepField	l12wfmSweepTBL.4	INTEGER	R/W	1 = FIELD1 2 = FIELD2
l12wfmSweepHMag	l12wfmSweepTBL.5	INTEGER	R/W	1 = X1

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				2 = X10 3 = X20 4 = ACTIVE 5 = BLANK
l12wfmSweepVMag	l12wfmSweepTBL.6	INTEGER	R/W	1 = X1 2 = X20 3 = X40
l12wfmLineSelTBL	l12wfmTBL.6	Aggregate	--	--
l12wfmLineSelect	l12wfmLineSelTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12wfmLineField	l12wfmLineSelTBL.2	INTEGER	R/W	1 = FIELD1 2 = FIELD2 3 = FRAME
l12wfmLineNumber	l12wfmLineSelTBL.3	INTEGER	R/W	1 to 1125
l12wfmFilterTBL	l12wfmTBL.7	Aggregate	--	--
l12wfmFilterNormal	l12wfmFilterTBL.1	INTEGER	R/W	1 = FLAT 2 = LOWPASS
l12wfmFilterComposite	l12wfmFilterTBL.2	INTEGER	R/W	1 = FLAT 2 = FLAT-LUM 3 = FLAT-CHROMA
l12wfmBlankingTBL	l12wfmTBL.8	Aggregate	--	--
l12wfmBlankingNormal	l12wfmBlankingTBL.1	INTEGER	R/W	1 = REMOVE 2 = H-VIEW 3 = V-VIEW 4 = ALL-VIEW
l12wfmBlankingComposite	l12wfmBlankingTBL.2	INTEGER	R/W	1 = REMOVE 2 = V-VIEW
l12wfmPersistTBL	l12wfmTBL.9	Aggregate	--	--
l12wfmPersistence	l12wfmPersistTBL.1	INTEGER	R/W	1 = ON 2 = OFF 3 = INFINIT
l12wfmPersistClear	l12wfmPersistTBL.2	INTEGER	R/WO	1 = PERSIST CLEAR
l12wfmSpecialForm	l12wfmTBL.10	INTEGER	R/W	1 = NORMAL 2 = TIMING 4 = 4Y-PARADE 5 = 4-PARADE
l12wfmMatrixTBL	l12wfmTBL.11	Aggregate	--	--
l12wfmMatrix	l12wfmMatrixTBL.1	INTEGER	R/W	1 = YCBCR 2 = GBR 3 = RGB 4 = COMPOSITE
l12wfmMatrixYgbr	l12wfmMatrixTBL.2	INTEGER	R/W	1 = ON 2 = OFF
l12wfmMatrixYrgb	l12wfmMatrixTBL.3	INTEGER	R/W	1 = ON 2 = OFF

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12wfmMatrixSetup	l12wfmMatrixTBL.4	INTEGER	R/W	1 = 0P 2 = 7.5P
l12wfmMatrixCompositeFormat	l12wfmMatrixTBL.5	INTEGER	R/W	1 = AUTO 2 = NTSC 3 = PAL

● l12vectorTBL(4) group * Valid when MODE of DISPLAY selected is VECTOR.

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12vecIntenTBL	l12vectorTBL.1	Aggregate	--	--
l12vecIntenVector	l12vecIntenTBL.1	INTEGER	R/W	-128 to 127
l12vecIntenScale	l12vecIntenTBL.2	INTEGER	R/W	-8 to 7
l12vecScaleTBL	l12vectorTBL.2	Aggregate	--	--
l12vecScaleIq	l12vecScaleTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12vecScaleColor	l12vecScaleTBL.2	INTEGER	R/W	1 = WHITE 2 = YELLOW 3 = CYAN 4 = GREEN 5 = MAGENTA 6 = RED 7 = BLUE
l12vecColor	l12vecScaleTBL.3	INTEGER	R/W	1 = WHITE 2 = GREEN
l12vecGainTBL	l12vectorTBL.3	Aggregate	--	--
l12vecGainVar	l12vecGainTBL.1	INTEGER	R/W	1 = CAL 2 = VAR
l12vecGainVal	l12vecGainTBL.2	OctetStrin	R/W	0.200 to 2.000
l12vecGainMag	l12vecGainTBL.3	INTEGER	R/W	1 = X1 2 = X5 3 = IQ
l12vecLineSelTBL	l12vectorTBL.4	Aggregate	--	--
l12vecLineSelect	l12vecLineSelTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12vecLineField	l12vecLineSelTBL.2	INTEGER INTEGER	R/W	1 = FIELD1 2 = FIELD2 3 = FRAME
l12vecLineNumber	l12vecLineSelTBL.3	INTEGER	R/W	1 to 1125
l12vecMatixTBL	l12vectorTBL.5	Aggregate	--	--
l12vecMatrix	l12vecMatixTBL.1	INTEGER	R/W	1 = COMPONENT 2 = COMPOSITE
l12vecMatrixSetup	l12vecMatixTBL.2	INTEGER	R/W	1 = 0P 2 = 7.5P
l12vecMatrixColorbar	l12vecMatixTBL.3	INTEGER	R/W	1 = 100P 2 = 75P
l12vecMatrixCompositeFormat	l12vecMatixTBL.4	INTEGER	R/W	1 = AUTO

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				2 = NTSC 3 = PAL
I12vecMode	I12vectorTBL.6	INTEGER	R/W	1 = VECTOR 2 = 5BAR
I12vecPersistTBL	I12vectorTBL.7	Aggregate	--	--
I12vecPersistence	I12vecPersistTBL.1	INTEGER	R/W	1 = ON 2 = OFF 3 = INFINIT
I12vecPersistClear	I12vecPersistTBL.2	INTEGER	R/WO	1 = PERSIST CLEAR
I12vec5BarTBL	I12vectorTBL.8	Aggregate	--	--
I12vec5BarMatrix	I12vec5BarTBL.1	INTEGER	R/W	1 = GBR 2 = RGB
I12vec5BarUnit	I12vec5BarTBL.2	INTEGER	R/W	1 = MV 2 = PER
I12vecAnalogTBL	I12vectorTBL.9	Aggregate	--	--
I12vecAnalogFdMode	I12vecAnalogTBL.1	INTEGER	R/W	1 = PHASE 2 = LINE-SELECT
I12vecAnalogPhase	I12vecAnalogTBL.2	OctetString	R/W	0.0 to 359.9
I12vecAnalogNtscDisplay	I12vecAnalogTBL.3	INTEGER	R/W	1 = ON 2 = OFF
I12vecSch	I12vecAnalogTBL.4	INTEGER	R/W	1 = ON 2 = OFF

● I12pictureTBL(5) group * Valid when MODE of DISPLAY selected is PICTURE.

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
I12picBright	I12pictureTBL.1	INTEGER	R/W	-30 to 30
I12picContrast	I12pictureTBL.2	OctetString	R/W	0.70 to 1.30
I12picGainTBL	I12pictureTBL.3	Aggregate	--	--
I12picGainRed	I12picGainTBL.1	OctetString	R/W	0.70 to 1.30
I12picGainGreen	I12picGainTBL.2	OctetString	R/W	0.70 to 1.30
I12picGainBlue	I12picGainTBL.3	OctetString	R/W	0.70 to 1.30
I12picBiasTBL	I12pictureTBL.4	Aggregate	--	--
I12picBiasRed	I12picBiasTBL.1	OctetString	R/W	-0.30 to 0.30
I12picBiasGreen	I12picBiasTBL.2	OctetString	R/W	-0.30 to 0.30
I12picBiasBlue	I12picBiasTBL.3	OctetString	R/W	-0.30 to 0.30
I12picMarkerTBL	I12pictureTBL.5	Aggregate	--	--
I12picMarker43	I12picMarkerTBL.1	INTEGER	R/W	1 = ON 2 = OFF
I12picMarker169	I12picMarkerTBL.2	INTEGER	R/W	1 = ON 2 = OFF
I12picMarkerSafeAction	I12picMarkerTBL.3	INTEGER	R/W	1 = ON 2 = OFF
I12picMarkerSafeTitle	I12picMarkerTBL.4	INTEGER	R/W	1 = ON 2 = OFF
I12picMarkerSafeCenter	I12picMarkerTBL.5	INTEGER	R/W	1 = ON

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				2 = OFF
l12picLineSelTBL	l12pictureTBL.6	Aggregate	--	--
l12picLineSelect	l12picLineSelTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12picLineField	l12picLineSelTBL.2	INTEGER	R/W	1 = FIELD1 2 = FIELD2 3 = FRAME
l12picLineNumber	l12picLineSelTBL.2	INTEGER	R/W	1 to 1125
l12picSize	l12pictureTBL.7	INTEGER	R/W	1 = FIT 2 = REAL 3 = FULL-FRM
l12picSImpsTBL	l12pictureTBL.8	Aggregate	--	--
l12picSImpsStd	l12picSImpsTBL.1	INTEGER	R/W	1 = OFF 2 = SMPTE 3 = ARIB
l12picSImpsFmtSmpte	l12picSImpsTBL.2	INTEGER	R/W	1 = FMT-608-708 2 = FMT-608-608 3 = FMT-VBI 4 = FMT-708
l12picSImpsDisp608	l12picSImpsTBL.3	INTEGER	R/W	1 = CC1 2 = CC2 3 = CC3 4 = CC4 5 = TEXT1 6 = TEXT2 7 = TEXT3 8 = TEXT4
l12picSImpsFmtArib	l12picSImpsTBL.4	INTEGER	R/W	1 = HD 2 = SD 3 = ANALOG 4 = CELLULAR
l12picSImpsDispArib	l12picSImpsTBL.5	INTEGER	R/W	1 to 2
l12picSImpsDisp708	l12picSImpsTBL.6	INTEGER	R/W	1 to 63
l12picGamutTBL	l12pictureTBL.9	Aggregate	--	--
l12picGamutError	l12picGamutTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12picGamutPattern	l12picGamutTBL.2	INTEGER	R/W	1 = WHITE 2 = RED 3 = MESH

● l12audioTBL(6) group * Valid when MODE of DISPLAY selected is AUDIO.

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12audChSelTBL	l12audioTBL.1	Aggregate	--	--
l12audChSelNunmer	l12audChSelTBL.1	INTEGER	R/W	1 = 8CH 2 = 16CH
l12audChSelDisplay	l12audChSelTBL.2	INTEGER	R/W	1 = 1-8CH 2 = 9-16CH
l12audDisplayMode	l12audioTBL.2	INTEGER	R/W	1 = LISSAJOU 2 = S-IMAGE 3 = STATUS 4 = METER
l12audMeterTBL	l12audioTBL.3	Aggregate	--	--
l12audMeterDRange	l12audMeterTBL.1	INTEGER	R/W	1 = -60DBFS 2 = -90DBFS
l12audMeterResponse	l12audMeterTBL.2	INTEGER	R/W	1 = TRUE PEAK 2 = PPM 3 = VU+TRUE 4 = VU+PPM 5 = PPM(I) 6 = PPM(II) 7 = VU+PPM(I) 8 = VU+PPM(II) 9 = LOUDNESS-F 10 = LOUDNESS-S
l12audMeterPeakHold	l12audMeterTBL.3	INTEGER	R/W	1 = 0.5SEC 2 = 1SEC 3 = 1.5SEC 4 = 2SEC 5 = 2.5SEC 6 = 3SEC 7 = 3.5SEC 8 = 4SEC 9 = 4.5SEC 10 = 5SEC 11 = HOLD
l12audMeterOverLevel	l12audMeterTBL.4	OctetString	R/W	-40.0 to 0.0
l12audMeterWarningLevel	l12audMeterTBL.5	OctetString	R/W	-40.0 to 0.0
l12audMeterRefLevel	l12audMeterTBL.6	OctetString	R/W	-40.0 to 0.0
l12audLissajouTBL	l12audioTBL.4	Aggregate	--	--
l12audLissajouIntenTBL	l12audLissajouTBL.1	Aggregate	--	--
l12audLissajouIntenLissajou	l12audLissajouIntenTBL.1	INTEGER	R/W	-128 to 127
l12audLissajouIntenScale	l12audLissajouIntenTBL.2	INTEGER	R/W	-8 to 7
l12audLissajouDisplay	l12audLissajouTBL.2	INTEGER	R/W	1 = SINGLE 2 = MULTI
l12audLissajouForm	l12audLissajouTBL.3	INTEGER	R/W	1 = X-Y 2 = MATRIX

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12audLissajouAutoGain	l12audLissajouTBL.4	INTEGER	R/W	1 = ON 2 = OFF
l12audLissajouMapTBL	l12audLissajouTBL.5	Aggregate	--	--
l12audlissajouMapSingleL	l12audLissajouMapTBL.1	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16 17 = LT
l12audlissajouMapSingleR	l12audLissajouMapTBL.2	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16 17 = RT
l12audlissajouMapMultiL1	l12audLissajouMapTBL.3	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiR1	l12audLissajouMapTBL.4	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiL2	l12audLissajouMapTBL.5	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiR2	l12audLissajouMapTBL.6	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiL3	l12audLissajouMapTBL.7	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiR3	l12audLissajouMapTBL.8	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiL4	l12audLissajouMapTBL.9	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiR4	l12audLissajouMapTBL.10	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiL5	l12audLissajouMapTBL.11	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiR5	l12audLissajouMapTBL.12	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiL6	l12audLissajouMapTBL.13	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiR6	l12audLissajouMapTBL.14	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiL7	l12audLissajouMapTBL.15	INTEGER	R/W	1 = CH1

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiR7	l12audLissajouMapTBL.16	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audlissajouMapMultiL8	l12audLissajouMapTBL.17	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				16 = CH16
l12audlissajouMapMultiR8	l12audLissajouMapTBL.18	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audSImageTBL	l12audioTBL.5	Aggregate	--	--
l12audSImageIntenTBL	l12audSImageTBL.1	Aggregate	--	--
l12audSImageIntenSImage	l12audSImageIntenTBL.1	INTEGER	R/W	-128 to 127
l12audSImageIntenScale	l12audSImageIntenTBL.2	INTEGER	R/W	-8 to 7
l12audSImageSurround	l12audSImageTBL.2	INTEGER	R/W	1 = 3-1 2 = 3-2 3 = 3-2-2
l12audSImageAutoGain	l12audSImageTBL.3	INTEGER	R/W	1 = ON 2 = OFF
l12audSImageMapTBL	l12audSImageTBL.4	Aggregate	--	--
l12audSImageMapL	l12audSImageMapTBL.1	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audSImageMapR	l12audSImageMapTBL.2	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audSImageMapLs	l12audSImageMapTBL.3	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audSImageMapRs	l12audSImageMapTBL.4	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audSImageMapC	l12audSImageMapTBL.5	INTEGER	R/W	1 = CH1

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audSImageMapLfe	l12audSImageMapTBL.6	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audSImageMapLl	l12audSImageMapTBL.7	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				16 = CH16
l12audSImageMapRr	l12audSImageMapTBL.8	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audStatusTBL	l12audioTBL.6	Aggregate	--	--
l12audStatusDisplay	l12audStatusTBL.1	INTEGER	R/W	1 = DEFAULT 2 = CH-STATUS 3 = USER-BIT
l12audStatusChStatus	l12audStatusTBL.2	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				14 = CH14 15 = CH15 16 = CH16
l12audStatusUserBit	l12audStatusTBL.3	INTEGER	R/W	1 = CH1 2 = CH2 3 = CH3 4 = CH4 5 = CH5 6 = CH6 7 = CH7 8 = CH8 9 = CH9 10 = CH10 11 = CH11 12 = CH12 13 = CH13 14 = CH14 15 = CH15 16 = CH16
l12audStatusErrorReset	l12audStatusTBL.4	INTEGER	R/WO	1 = Error Reset
l12audStatusStatusAlign	l12audStatusTBL.5	INTEGER	R/W	1 = LSB 1st 2 = MSB 1st
l12audStatusUserAlign	l12audStatusTBL.6	INTEGER	R/W	1 = LSB 1st 2 = MSB 1st
l12audPhonesTBL	l12audioTBL.7	Aggregate	--	--
l12audPhonesLRCh	l12audPhonesTBL.1	INTEGER	R/W	1 = ch1-2 2 = ch3-4 3 = ch5-6 4 = ch7-8 5 = ch9-10 6 = ch11-12 7 = ch13-14 8 = ch15-16 9 = Lt/Rt 10 = AUX1/AUX2 11 = L/R
l12audDolbyTBL	l12audioTBL.8	Aggregate	--	--
l12audDolbyMode	l12audDolbyTBL.1	INTEGER	R/W	1 = E 2 = OFF 3 = AC-3
l12audDolbyGroup	l12audDolbyTBL.2	INTEGER	R/W	1 = ch1-2 2 = ch3-4 3 = ch5-6 4 = ch7-8 5 = ch9-10 6 = ch11-12

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				7 = ch13-14 8 = ch15-16
l12audDolbyEDialnorm	l12audDolbyTBL.3	INTEGER	R/W	1 = ON 2 = OFF
l12audDolbyEPulldown	l12audDolbyTBL.4	INTEGER	R/W	1 = ON 2 = OFF
l12audDolbyEMetaPrm	l12audDolbyTBL.5	INTEGER	R/W	1 = PRM1 2 = PRM2 3 = PRM3 4 = PRM4 5 = PRM5 6 = PRM6 7 = PRM7 8 = PRM8
l12audDolbyDListening	l12audDolbyTBL.6	INTEGER	R/W	1 = FULL 2 = EX 3 = 3stereo 4 = PHANTOM 5 = STEREO 6 = MONO
l12audDolbyDPrologic	l12audDolbyTBL.7	INTEGER	R/W	1 = ON 2 = OFF
l12audDolbyDDrc	l12audDolbyTBL.8	INTEGER	R/W	1 = BYPASS 2 = LINE 3 = RF
l12audDolbyAuxCh	l12audDolbyTBL.9	INTEGER	R/W	1 = LtRt 2 = LoRo 3 = MONO 4 = MUTE
l12audDolbyAuxChDrc	l12audDolbyTBL.10	INTEGER	R/W	1 = LINE 2 = RF
l12audDolbyEbiMetaPrm	l12audDolbyTBL.11	INTEGER	R/W	1 = PRM1 2 = PRM2 3 = PRM3 4 = PRM4 5 = PRM5 6 = PRM6 7 = PRM7 8 = PRM8
l12audInputSelect	l12audioTBL.9	INTEGER	R/W	1 = DIGITAL 2 = ANALOG

● l12statusTBL(7) group * Valid when MODE of DISPLAY selected is STATUS.

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12staCounter	l12statusTBL.1	INTEGER	R/W	1 = SEC 2 = FIELD 3 = PER-FIELD
l12staReset	l12statusTBL.2	INTEGER	R/WO	1 = STATUS RESET
l12staLogTBL	l12statusTBL.3	Aggregate	--	--
l12staLog	l12staLogTBL.1	INTEGER	R/WO	1 = LOG DISPLAY
l12staLogLog	l12staLogTBL.2	INTEGER	R/W	1 = START 2 = STOP
l12staLogMode	l12staLogTBL.3	INTEGER	R/W	1 = OVER-WR 2 = STOP
l12staLogClear	l12staLogTBL.4	INTEGER	R/WO	1 = LOG CLEAR
l12staDumpTBL	l12statusTBL.4	Aggregate	--	--
l12staDump	l12staDumpTBL.1	INTEGER	R/WO	1 = DUMP DISPLAY
l12staDumpMode	l12staDumpTBL.2	INTEGER	R/W	1 = RUN 2 = HOLD 3 = FRM-CAP
l12staDumpDisplay	l12staDumpTBL.3	INTEGER	R/W	1 = SERIAL 2 = COMPONENT 3 = BINARY
l12staDumpDisplayDual	l12staDumpTBL.4	INTEGER	R/W	1 = A 2 = B 3 = A/B
l12staDumpLineNumber	l12staDumpTBL.5	INTEGER	R/W	1 to 1125
l12staDumpSample	l12staDumpTBL.6	INTEGER	R/W	0 to 2199
l12staDumpEav	l12staDumpTBL.7	INTEGER	R/WO	1 = EAV DISPLAY
l12staDumpSav	l12staDumpTBL.8	INTEGER	R/WO	1 = SAV DISPLAY

● l12eyeTBL(8) group * Valid when MODE of DISPLAY selected is EYE.

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12eyeIntenTBL	l12eyeTBL.1	Aggregate	--	--
l12eyeIntenEye	l12eyeIntenTBL.1	INTEGER	R/W	-128 to 127
l12eyeIntenScale	l12eyeIntenTBL.2	INTEGER	R/W	-8 to 7
l12eyeMode	l12eyeTBL.2	INTEGER	R/W	1 = EYE 2 = JITTER
l12eyeAutoMeasure	l12eyeTBL.3	INTEGER	R/W	1 = ON 2 = OFF
l12eyeGainTBL	l12eyeTBL.4	Aggregate	--	--
l12eyeGainVar	l12eyeGainTBL.1	INTEGER	R/W	1 = CAL 2 = VAR
l12eyeGainVal	l12eyeGainTBL.2	OctetString	R/W	0.50 to 2.00
l12eyeSweepSweep	l12eyeTBL.5	INTEGER	R/W	1 = 2UI 2 = 4UI 3 = 16UI
l12eyeFilter	l12eyeTBL.6	INTEGER	R/W	1 = 100kHz

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
				2 = 1kHz 3 = 100Hz 4 = 10Hz 5 = Timing 6 = Alignment
l12eyeJitterTBL	l12eyeTBL.7	Aggregate	--	--
l12eyeJitterPeakHold	l12eyeJitterTBL.1	INTEGER	R/W	1 = ON 2 = OFF
l12eyeJitterPeakClear	l12eyeJitterTBL.2	INTEGER	R/WO	1 = PEAK CLEAR
l12eyeJitterGain	l12eyeJitterTBL.3	INTEGER	R/W	1 = X1 2 = X2 3 = X8
l12eyeJitterSweep	l12eyeJitterTBL.4	INTEGER	R/W	1 = 1H 2 = 2H 3 = 1V 4 = 2V
l12eyeJitterFilter	l12eyeJitterTBL.5	INTEGER	R/W	1 = 100kHz 2 = 1kHz 3 = 100Hz 4 = 10Hz 5 = Timing 6 = Alignment
l12eyeMonTBL	l12eyeTBL.8	Aggregate	--	--
l12eyeAmplitude (*1)	l12eyeMonTBL.1	OctetString	R/O	0.0 to1200.0mV Unable to measure:---
l12eyeTr (*1)	l12eyeMonTBL.2	OctetString	R/O	HD:0 to 674ps SD:0 to 3700ps Unable to measure:---
l12eyeTf (*1)	l12eyeMonTBL.3	OctetString	R/O	HD:0 to 674ps SD:0 to 3700ps Unable to measure:---
l12eyeTimingJitterPs (*2)	l12eyeMonTBL.4	OctetString	R/O	HD:0 to 6470ps SD:0 to 35520ps Unable to measure:---
l12eyeTimingJitterUi (*2)	l12eyeMonTBL.5	OctetString	R/O	HD:0 to 9.600UIp-p SD:0 to 9.600UIp-p Unable to measure:---
l12eyeCurrentJitterPs (*2)	l12eyeMonTBL.6	OctetString	R/O	HD:0 to 6470ps SD:0 to 35520ps Unable to measure:---

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12eyeCurrentJitterUi (*2)	l12eyeMonTBL.7	OctetString	R/O	HD:0 to 9.600UIp-p SD:0 to 9.600UIp-p Unable to measure:---

*1 Valid during eye pattern display. Sends the displayed measured value.
*2 Valid during jitter display. Sends the displayed measured value.

● l12trapTBL(9) group

MIB	OID	SYNTAX	ACCESS	VALUE/RANGE
l12trapStrTBL	l12trapTBL.1	Aggregate	--	--(Variable Binding List)
l12trapIpTBL	l12trapTBL.2	Aggregate	--	--
l12trapIp1TBL	l12trapipTBL.1	Aggregate	--	--
l12trapManagerIp1	l12trapIp1TBL.1	IpAddress	R/W	Transmission destination of TRAP IP address1 of Manager
l12trapManagerIp1Act	l12trapIp1TBL.2	INTEGER	R/W	1 = ENABLE 2 = DISABLE
l12trapIp2TBL	l12trapipTBL.2	Aggregate	--	--
l12trapManagerIp2	l12trapIp2TBL.1	IpAddress	R/W	Transmission destination of TRAP IP address2 of Manager
l12trapManagerIp2Act	l12trapIp2TBL.2	INTEGER	R/W	1 = ENABLE 2 = DISABLE
l12trapIp3TBL	l12trapipTBL.3	Aggregate	--	--
l12trapManagerIp3	l12trapIp3TBL.1	IpAddress	R/W	Transmission destination of TRAP IP address3 of Manager
l12trapManagerIp3Act	l12trapIp3TBL.2	INTEGER	R/W	1 = ENABLE 2 = DISABLE
l12trapIp4TBL	l12trapipTBL.4	Aggregate	--	--
l12trapManagerIp4	l12trapIp4TBL.1	IpAddress	R/W	Transmission destination of TRAP IP address4 of Manager
l12trapManagerIp4Act	l12trapIp4TBL.2	INTEGER	R/W	1 = ENABLE 2 = DISABLE
l12trapStatusTBL	l12trapTBL.4	Aggregate	--	--
l12TrapStaCableLen	l12TrapStatusTBL.1	INTEGER	R/O	For the cable warning --(Variable Binding List)

4.3 Enterprise Trap

This section describes the enterprise traps of the LV 7800.
The LV 7800 will not be able to perform trap processing on all events when events occur consecutively at a rate of one event per second or more. The trap buffer can store up to 1000 events. The LV 7800 will not perform trap processing after the number of events exceeds 1000.

4.3.1 Specific Trap

Description	Specific Trap Type
Fan stop detection	1
NO SIGNAL	3
Line number error detection	6
CRC error detection (LUMA)	7
CRC error detection (CHROMA)	8
Checksum error detection	9
BCH error detection	10
EDH error detection	11
Reserved area error detection	12
Parity error detection	13
TRS error detection (POS)	15
TRS error detection (CODE)	16
Freeze error detection	17
Black out error detection	18
Equivalent cable length meter error detection	19
Equivalent cable length meter warning detection	20
SDI DELAY error detection	21
Gamut error detection	23
Composite gamut error detection	24
Level error detection (LUMA)	25
Level error detection (CHROMA)	26
UnKnown (Format)	27
No error (at error recovery and startup)	37
Parity error detection (AUDIO)	40
DBN error detection (AUDIO)	41
INH error detection (AUDIO)	42
Amplitude error detection (EYE:HD)	60
Rise time error detection (EYE:HD)	61
Fall time error detection (EYE:HD)	62
Delta time error detection (EYE:HD)	63
Timing jitter error detection (EYE:HD)	64
Current jitter error detection (EYE:HD)	65
Amplitude error detection (EYE:SD)	66
Rise time error detection (EYE:SD)	67
Fall time error detection (EYE:SD)	68
Delta time error detection (EYE:SD)	69

Description	Specific Trap Type
Timing jitter error detection (EYE:SD)	70
Current jitter error detection (EYE:SD)	71

4.3.2 Variable Binding List

- **index 1**

  OID: leader(20111).lv7800(12).lv7800ST1(1).trapTBL(9).trapStrTBL(1).1.0
  Syntax: Counter
  Range: 1 to 4294967295 (overflow occurs if this range is exceeded)
  Description: The total number of enterprise traps sent after starting up.

- **index 2**

  OID: leader(20111).lv7800(12).lv7800ST1(1).trapTBL(9).trapStrTBL(1).2.0
  Syntax: Octet String
  Range: Up to 40 characters
  Description: Date/Time when the error occurred and line information
  YYYY/MM/DD hh:mm:ss mod,sdi
  YYYY = Year, MM = Month, DD = Day, hh = Hour, mm = Minute,
  ss = Second, mod = Unit number (1 to 4), sdi = Input channel (A or B)
  Example) 2007/07/02 11:30:11 1,A

- **index 3**

  OID: leader(20111).lv7800(12).lv7800ST1(1).trapTBL(9).trapStrTBL(1).3.0
  Syntax: Octet String
  Range: Up to 40 characters
  Description: Format information (Refer to next page “List of format information for TRAP)
  Example) 1080sF/30

- **index 4**

  OID: leader(20111).lv7800(12).lv7800ST1(1).trapTBL(9).trapStrTBL(1).4.0
  Syntax: Octet String
  Range: Up to 40 characters
  Description: Error information (Refer to next page “List of error information for TRAP)
  Example) TRS_P_ERR

- **index 5 (*1)**

  OID: leader(20111).lv7800(12).lv7800ST1(1).trapTBL(9).trapStrTBL(1).5.0
  Syntax: INTEGER
  Range: 1 to 4294967295 (m)
  Description: Cable length meter information at the time of the error detection.

*1 Attach only to detection of equivalent cable length meter error or detection of equivalent cable length meter warning.

List of format information for TRAP	
Syntax	Format
1080i/60	1080i/60
1080sF/30	1080sF/30
1080i/59.94	1080i/59.94
1080sF/29.97	1080sF/29.97
1080i/50	1080i/50
1080sF/25	1080sF/25
1080sF/24	1080sF/24
1080sF/23.98	1080sF/23.98
1080p/60	1080p/60
1080p/59.94	1080p/59.94
1080p/50	1080p/50
1080p/30	1080p/30
1080p/29.97	1080p/29.97
1080p/25	1080p/25
1080p/24	1080p/24
1080p/23.98	1080p/23.98
720p/60	720p/60
720p/59.94	720p/59.94
720p/50	720p/50
720p/30	720p/30
720p/29.97	720p/29.97
720p/25	720p/25
720p/24	720p/24
720p/23.98	720p/23.98
525i/59.94	525i/59.94
625i/50	625i/50
UnKnown	UnKnown
NO_SIGNAL	NO SIGNAL

List of error information for TRAP	
Syntax	Description
CRC_Y_ERR	CRC error detection (LUMA)
CRC_C_ERR	CRC error detection (CHROMA)
EDH_ERR	EDH error detection
TRS_P_ERR	TRS error detection (POS)
TRS_C_ERR	TRS error detection (CODE)
ILLEGAL_ERR	Reserved area error detection
LINE_ERR	Line number error detection
CABLE_ERR	Equivalent cable length meter error detection
CABLE_WAR	Equivalent cable length meter warning detection
CHK_ERR	Checksum error detection
PRTY_ERR	Parity error detection
GMUT_ERR	Gamut error detection
CGMUT_ERR	Composite gamut error detection
LVL_L_ERR	Level error detection (LUMA)
LVL_C_ERR	Level error detection (CHROMA)
FRZ_ERR	Freeze error detection
BLK_ERR	Black out error detection
BCH_ERR	BCH error detection
A_PRTY_ERR	Parity error detection (AUDIO)
A_DBN_ERR	DBN error detection (AUDIO)
A_INH_ERR	INH error detection (AUDIO)
EYE_HD_AMP_ERR	Amplitude error detection (EYE:HD)
EYE_HD_TR_ERR	Rise time error detection (EYE:HD)
EYE_HD_TF_ERR	Fall time error detection (EYE:HD)
EYE_HD_TR_TF_ERR	Delta time error detection (EYE:HD)
EYE_HD_T_JIT_ERR	Timing jitter error detection (EYE:HD)
EYE_HD_A_JIT_ERR	Current jitter error detection (EYE:HD)
EYE_SD_AMP_ERR	Amplitude error detection (EYE:SD)
EYE_SD_TR_ERR	Rise time error detection (EYE:SD)
EYE_SD_TF_ERR	Fall time error detection (EYE:SD)
EYE_SD_TR_TF_ERR	Delta time error detection (EYE:SD)
EYE_SD_T_JIT_ERR	Timing jitter error detection (EYE:SD)
EYE_SD_A_JIT_ERR	Current jitter error detection (EYE:SD)
SDI_DELAY_ERR	SDI DELAY error detection
FAN_STOP	FAN stop detection

5 FIRMWARE REVISION HISTORY

This manual was written for firmware version 5.5.
To confirm the version, press a key in order of SYS => F•5 SYSTEM INFORMATION.

LEADER ELECTRONICS CORP.
2-6-33 Tsunashima-Higashi, Kohoku-ku, Yokohama 223-8505, Japan
PHONE:81-45-541-2123 FAX:81-45-541-2823 http://www.leader.co.jp

July 9, 2014 Ver. 3 (FW Ver. 5.5)