

VIDEO MULTI RASTERIZER

Simultaneous Multiple Input Viewing and Monitoring

New

CE
Upon request

RoHS

Monitor not included



HD-SDI

SD-SDI



LV 7800 MULTI RASTERIZER

GENERAL

The LV 7800 is a new-concept multi rasterizer that enables you to freely combine all the LV 5800 series input and output units to provide flexible support for a variety of situations.

FEATURES

- Slots for Four Units**
The LV 7800 is equipped with two input slots and two input/output slots, which means you can install a maximum of four units. Each input and output unit operates independently.
- External Sync Signal Input**
The LV 7800 can receive tri-level sync signals and NTSC or PAL black burst signals. You can display video signal waveforms in phase with an external sync signal.
- DVI-I Connector**
You can view the various LV 7800 displays on an external XGA (1024 × 768) display by connecting the display to the DVI-I connector. Additionally, the vector, picture, and audio displays support displays with aspect ratios of 16:9 (in squeeze mode).

Squeeze mode



Supports aspect ratios of 4:3 and 16:9.

- Preset Settings**
The LV 7800 can store up to 60 frequently used setting configurations. You can also directly recall preset settings that have been assigned to the shortcut button.
- Key Lock**
The key lock feature is useful in preventing mistaken changes to the settings and in preventing accidental operations on the LV 7800.
- USB Port**
By connecting a USB memory device to the front panel USB port, you can take screen captures, record data, and save preset settings.
- Ethernet Port**
By running TELNET or FTP on a PC that is connected to the LV 7800 through the rear panel Ethernet port, you can control the LV 7800 remotely, monitor errors, and transfer files. (SNMP is also supported.)
- Parallel Remote Connector**
You can load preset settings, detect errors, switch inputs, and apply analog audio signals* through the rear panel remote connector. *To measure analog audio signals, an LV 58SER40A (DIGITAL AUDIO) unit is necessary.

Display Examples

| | | | | |
|--|---|--|--|---|
| <p>Multi-Screen</p> <p>EX, LV 58SER01A, LV 58SER02 1 sets each are installed</p> | <p>4 Input Picture</p> <p>EX, LV 58SER01A 2 set are installed</p> | <p>Waveform/4YPalade</p> <p>EX, LV 58SER01A 2 sets are installed</p> | <p>Waveform/Vector</p> <p>EX, LV 58SER01A 1 set is installed</p> | <p>Status</p> <p>EX, LV 58SER01A 1 set is installed</p> |
| <p>5 Bar/Gamut</p> <p>EX, LV 58SER01A 1 set is installed</p> | <p>EyePattern/Jitter</p> <p>EX, LV 58SER01A 2, LV58SER02 1 sets are installed</p> | <p>MPEG</p> <p>EX, LV 58SER04 1 set is installed</p> | <p>Audio</p> <p>EX, LV 58SER40A 1 set is installed</p> | <p>Composite</p> <p>EX, LV 58SER03 1 set is installed</p> |

SPECIFICATIONS

LV 7800

Input/Output Slots

SLOT1, SLOT2: Slots for input units
SLOT3, SLOT4: Slots for input, output, or input/output units
Combinations of Supported Units

| Unit | LV 7800 Slots | | | |
|--------------------------------------|---------------------------------|---------------|----------------------|----------------------|
| | Does the Slot Support the Units | | | |
| | SLOT1 (Input) | SLOT2 (Input) | SLOT3 (Input/Output) | SLOT4 (Input/Output) |
| LV 58SER01A (SDI INPUT) | Yes | Yes | Yes | Yes |
| LV 58SER02 (EYE PATTERN) | Yes* | Yes* | Yes* | Yes* |
| LV 58SER03 (COMPOSITE INPUT) | Yes | Yes | Yes | Yes |
| LV 58SER04 (MPEG DECODER) | Yes | Yes | Yes | Yes |
| LV 58SER06 (3G-SDI INPUT) | Yes | Yes | Yes | Yes |
| LV 58SER20 (DVI-I OUTPUT) | No | No | Yes | Yes |
| LV 58SER21 (ANALOG COMPONENT OUTPUT) | No | No | Yes | Yes |
| LV 58SER40A (DIGITAL AUDIO) | Yes* | Yes* | Yes* | Yes* |

* Only one of this type of unit can be installed in an LV 7800.

DVI-I Output

Output Connector: 1
Signal Format: Single link T.M.D.S
 Analog RGB
Display Format: XGA(The effective resolution is 1024 × 768.)
 Wide displays are also supported (squeeze mode). * Only if the LCD panel has a resolution conversion feature.
DDC: Not supported
HOT PLUG: Not supported

Screen Capture

Screen Capture: Capture the screen to an image file (only one screen capture is stored in internal memory)
Media: Internal memory (RAM) and USB memory
Data Output: Save screen captures in bitmap format to USB memory or send them to a PC over an Ethernet connection.

Preset Settings

Number of Presets: 60
Media: Internal memory (RAM) and USB memory
Recall Method: Front panel, remote connector, or Ethernet command
Copying Saved Settings: Copy preset settings to USB memory.
Loading Saved Settings: Copy all preset settings from USB memory to the LV 7800.

External Sync Signal Input

Input Connector: 1 pair of BNC connectors
Input Signal: Tri-level sync or NTSC/PAL black burst

Input Impedance: Passive loopthrough, 15 kΩ
Input Return Loss: 30 dB or higher
Maximum Input Voltage: ±5 V (DC + peak AC)
 * If the video signal waveform is displayed using an external sync signal as a reference, the waveform phase one clock before or after an SDI signal is inserted or the power is turned on is indefinite.

External Control Connectors

USB Port

Compliant Standard: 2.0
Device: Only large-memory devices are supported.
Function: Take screen captures, record data, and save preset settings

Ethernet Port

Compliant Standard: IEEE802.3 10BASE-T/100BASE-T
Connector: RJ-45
Function: Control the LV 7800 and monitor errors from a PC and save screen captures and data to a PC

Remote Connector

Connector: 25-pin D-sub (female)
Signal: LV-TTL level (Low active)
Function: Load preset settings, detect errors, switch inputs, and receive analog audio signals*

Headphone Output*

Output Signal: SDI-embedded audio signal, or an audio signal that was received from an external source
Output Connector: One 6.3-mm stereo jack
Volume Adjustment: Volume knob
 * Headphone output is enabled when an LV 58SER40A (DIGITAL AUDIO) unit is installed.

Environmental Conditions

Operating Temperature: 0 to 40 °C
Operating Humidity: 85 %RH or less (no condensation)
Operating Environment: Indoors
Operating Altitude: Up to 2,000 m
Overvoltage Category: II
Pollution Degree: 2

Power Supply Requirements

90 to 250 VAC, 50-60 Hz, 150 W max.

Dimensions and Weight

482 (W) × 88 (H) × 450 (D) mm (not including protrusions), 8.5 kg

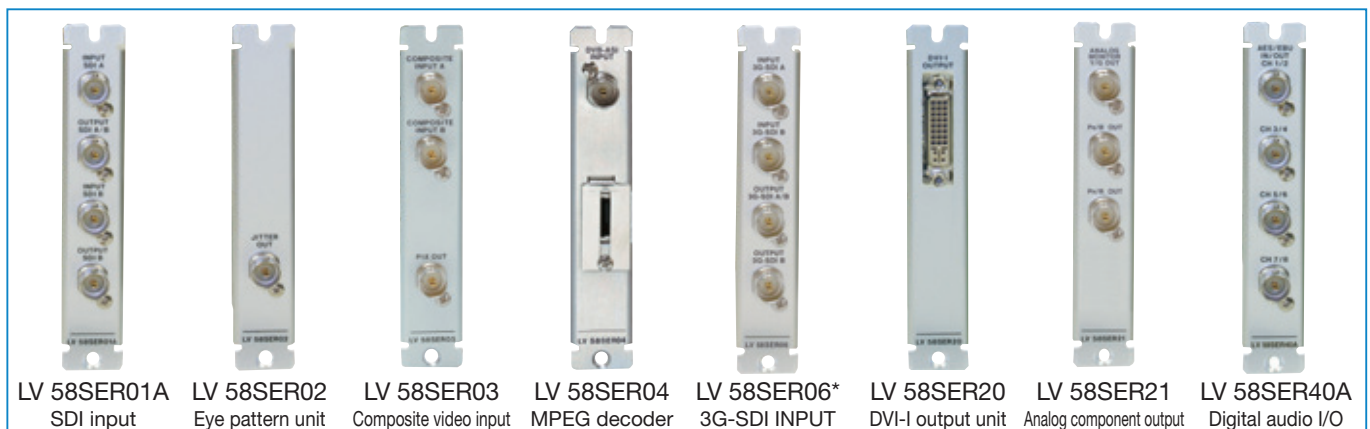
Accessories

Instruction manual 1
 Power cord 1
 Cover/Inlet stopper 1
 25-pin D-sub connector..... 1
 25-pin D-sub connector cover..... 1

Rear Panel (LV 58SER01A × 3 and LV 58SER40A × 1)



Optional Units (Factory Option) Each unit is the same as the 5800 series units.



* To be supported in the future