

# VIDEO MULTI RASTERIZER

## Simultaneous Multiple Input Viewing and Monitoring

New

Monitor not included

HD-SDI

SD-SDI



RoHS

## 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>EX, LV 58SER01A, LV 58SER02 1 sets each are installed</p>	<p>EX, LV 58SER01A 2 set are installed</p>	<p>EX, LV 58SER01A 2 sets are installed</p>	<p>EX, LV 58SER01A 1 set is installed</p>	<p>EX, LV 58SER01A 1 set is installed</p>
<p>EX, LV 58SER01A 1 set is installed</p>	<p>EX, LV 58SER01A 2, LV58SER02 1 sets are installed</p>	<p>EX, LV 58SER04 1 set is installed</p>	<p>EX, LV 58SER40A 1 set is installed</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

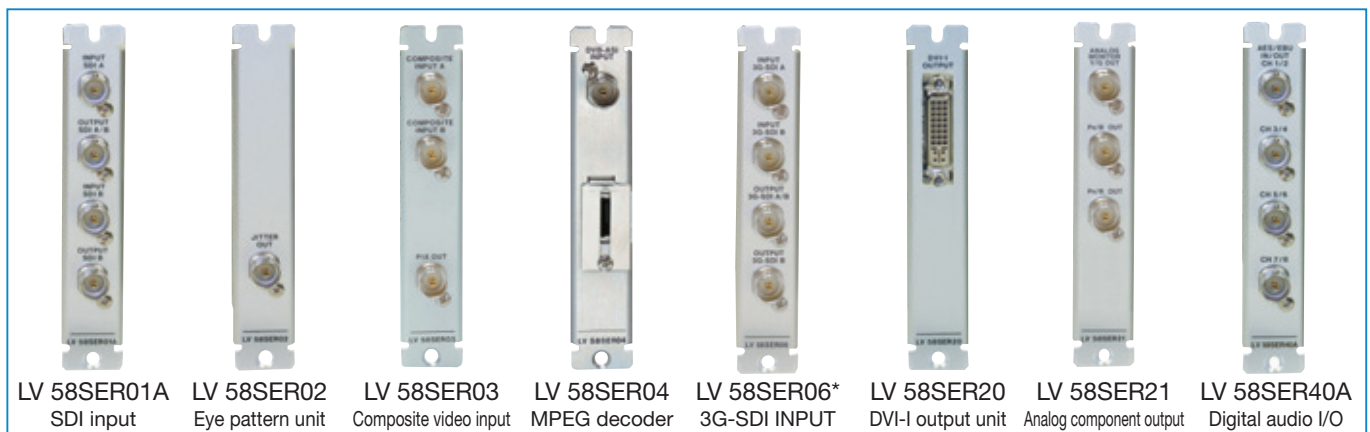
## Accessories

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