MULTI SDI MONITOR

LV 5750

LEADER

HD-SDI

SD-SDI

CINELITE option

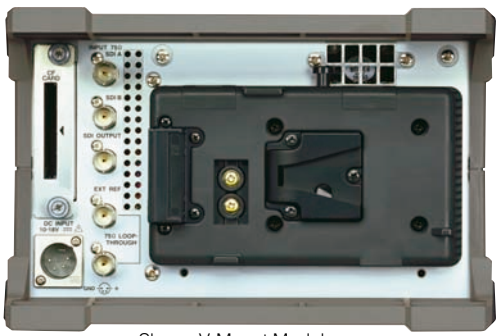
CE Upon request

RoHS

High performance packed into this compact model

The LV 5750 is a waveform monitor for HD-SDI and SD-SDI signals with a color TFT LCD monitor. It is a compact, portable model that contains a waveform monitor, vectorscope, audio level display, picture display, and status display.
Complete digital processing of SDI signals enables highly accurate measurements. In addition, extensive error detection functions and analysis functions are provided which enables the LV 5750 to be used as a SDI signal monitor.

■LV 5750 REAR PANEL



Shows V-Mount Model
available AntonBauer Model

FEATURES

- **Receives either HD-SDI or SD-SDI signals**
- **Employs a color TFT LCD monitor with XGA resolution**
- **Multi screen display, waveform display, vectorscope display, picture display, and embedded audio display**
- **Error detection for SDI signal monitoring**
- **Delivers embedded audio in SDI signals through stereo headphone output**
- **Provides screw holes for attaching a camera tripod**
- **Battery operation and DC power operation**
- **Ancillary Data Display**
- **SDI-EXT REF Phase Difference Display Function**
- **5 BAR DISPLAY**

■OPTIONS

- **FS 3032 Cinelite**

CineLite

- **Option Board**

*If you install this unit, you will not be able to use the compact memory card unit that comes standard.

RoHS

LV 5750-01
Ethernet Unit

RoHS

LV 5750-02
Remote Control Unit

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Video Formats and Corresponding Standards

Video Signal Standards

	Format Name	Standard Supported
1	1080i/60	SMPTE 274M、292M
2	1080i/59.94	
3	1080i/50	
4	1080p/30	
5	1080p/29.97	
6	1080p/25	
7	1080p/24	
8	1080p/23.98	
9	1080PsF/30	SMPTE RP211、292M
10	1080PsF/29.97	
11	1080PsF/25	
12	1080PsF/24	
13	1080PsF/23.98	
14	720p/60	SMPTE 296M、292M
15	720p/59.94	
16	720p/50	
17	720p/24	
18	720p/23.98	
19	525i/59.94	SMPTE 259M
20	625i/50	

Other Standards

•Ancillary data standard SMPTE 291M

•Embedded audio standard HD-SDI SMPTE 299M
SD-SDI SMPTE 272M

Format Setting Auto setting or manual setting from the supported formats

SDI Signal

Sampling Frequency 74.25 MHz(HDTV),74.25/1.001 MHz(HDTV)
13.5 MHz(SDTV)
4:2:2 YC_BC_R, signal

External Synchronization Auto setting from supported formats

Input/Output Connector

SDI Input

Input Connector BNC connector 2 systems (A/B switching type)

External Synchronization Input

Input Signal Tri-level sync signal or NTSC/PAL black burst

Input Connector BNC connector 1 system 2 connectors

SDI Output

Output Connector BNC connector 1 connector

Headphone Output

Output Signal Separates and outputs the embedded audio signal in the SDI signal

IF Slot

Installable Units One of the following can be installed: compact flash memory card unit(Standard), remote control unit (sold separately), and Ethernet unit (sold separately)

Compact Flash Memory Card Unit

Function Saves screen captures, error logs, preset data, and data dumps. Also used for firmware updates.

Remote Control Unit (Sold Separately)

Function Recalls presets and outputs alarms

Control connector D-sub 25 pin 1 connector (female)
*If you install this unit, you will not be able to use the compact memory card unit that comes standard or the Ethernet unit that is sold separately.

Ethernet Unit (Sold Separately)

Function Remote control from an external computer

Type 10BASE-T/100BASE-TX Auto switching, one connector
*If you install this unit, you will not be able to use the compact memory card unit that comes standard or the remote control unit that is sold separately.

Display Format

Display Format XGA Effective area 1024 X 768 dots

Display

1 Screen Display Waveform display, vectorscope display, picture display, audio display, or status display

2 Screen Display Waveform and vectorscope display, waveform display and picture display, or waveform display and audio level display

4 Screen Display Select audio display or status display in addition to waveform display, vectorscope display, and picture display

Waveform Display

Waveform Operation

Display Mode Overlay display:Displays component signals overlaid Parade display:Displays component signals side by side

Timing Display Displays by calculating Y-C_B and Y-C_R
Uses bowtie signals (authorized by Tektronix, Inc.)

EAV-SAV Period Select show or hide

G, B, R Conversion Converts Y, C_B, C_R signals into G, B, R and displays the result

Pseudo-Composite Display Digitally converts component signals into composite signals and displays the result

Channel Assignment Select G, B, R order or R, G, B order during G, B, R conversion display

Line Select Displays the selected line

Vertical Axis

Gain Select x1, x5, or variable (up to x10)

Amplitude Accuracy < ±0.5 %

Horizontal Axis

Line Display

Display format Overlay: 1H, 2H
Parade: 1H, 2H, 3H
Timing: 2H

Magnification Select x1 or x10

Field Display

Display format Overlay: 1V, 2V
(2V display not allowed for progressive)
Parade: 1V, 2V, 3V

Magnification Select x1, x20 or x40

Time Base Accuracy < ±0.5 %

Cursor Measurement

Configuration

Horizontal cursors: 2 cursors (REF and DELTA)
Vertical cursors: 2 cursors (REF and DELTA)

Vectorscope Display

Gain Select x1, x5, IQ-MAG, or variable

Amplitude Accuracy < ±0.5 %

IQ Axis Select show/hide

Simple Picture Display

HDTV Display Displayed by sampling the pixels

SDTV Display Displayed by interpolating pixels

Display Frame Rate Converts the frame rate using the internal synchronization signal and displays the result

Embedded Audio Display

Audio Signal Select two arbitrary groups from embedded audio signals in the SDI signal

Level Meter

Display Channel Simultaneous 8 ch display

Meter 60 dB peak level or 90 dB peak level

Reference Level Select -20 dB, -18 dB, or -12 dB

Scale Select absolute dB display or reference level 0 dB display

Status Display

SDI Signal Status Display

Signal Detection Detects the presence or absence of SDI signals

CRC Error Transmission error of HD-SDI signals

EDH Error Transmission error of SD-SDI signals

BCH Error Transmission error of embedded audio signals in the HD-SDI signal

Checksum Error Transmission error of ancillary data

Gamut Error Detects gamut errors

Detection Range
Upper limit: 90.0 % to 109.4 %
Lower limit: -7.2 % to +6.0 %
0.1 % steps

Composite Gamut Error Monitors the level error when the component signal is converted into composite signal

Detection Range
Upper limit: 90.0 % to 135.0 %
Lower limit: -40 % to -20 %
0.1 % steps

Audio Information Detection Detects the presence or absence of audio on each channel

Error Count Up to 100,000 errors

V-ANC Monitor NET-Q, CLOSED CAPTION

Data Dump Display

Display Format Counts only the specified errors
Displayed separately by serial data sequence or channel

Event Log

Number of Logs Up to 1,000 events

Audio Status

Voice Control Packets Analyzes and displays the voice control packets of the SDI signal

EDH Display

EDH Displays the status of the EDH packets

Screen Capture

Capture Captures the display screen

Media Internal memory (RAM) or compact flash card

Presets

Number of Presets 30

Environmental conditions

Operating Environment Indoor/outdoor use (no rain water)

Operating Altitude Up to 2000 m

Overvoltage category I

Pollution Degree 2

Power Requirements 12 VDC (10 to 18 V), 30 W max.

Dimensions and Weight
215(W)x133(H)x103(D) mm (excluding protrusions)
221(W)x143(H)x168(D) mm (including protrusions)
2.5 kg
8 1/2(W) x 5 1/4(H) x 4 1/16(D) in.
8 45/64(W) x 5 41/64(H) x 6 5/8(D) in.
5.5 lbs

Accessory Instruction manual.....1

■OPTIONAL ACCESSORY

LR 2750-I

Rackmount adapter

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