

# VIDEO MULTI SDI MONITOR

High performance packed into this compact model

**CE**  
Upon request

**RoHS**



**HD-SDI**

**SD-SDI**

**5 Bar**

**CiNELiTE**  
option

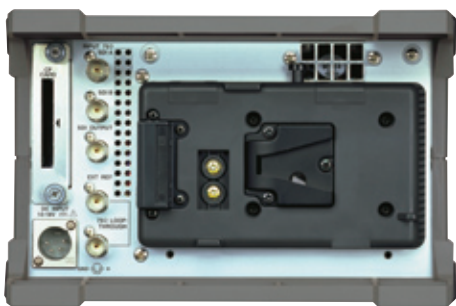
## LV 5750 MULTI SDI MONITOR

### GENERAL

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
- SDI-EXT REF Phase Difference Display Function
- 5 BAR DISPLAY



### ■ OPTIONS

#### Option Board

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

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LV 5750-01  
Ethernet Unit

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LV 5750-02  
Remote Control Unit

#### FS 3032 Cinelite



#### AC Adapter



LP-1960

#### LH 2139 Viewing Hood



#### Front Cover

Front cover to protect the display

#### Monitor Trunk

Convenient for transporting the LV 5750

#### Rack Mount Adapter

Rack mount adapter for the EIA (inch) standard rack.

# SPECIFICATIONS

# LV 5750

## 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

- SDI Signal:** Auto setting or manual setting from the supported formats
- Sampling Frequency:** 74.25 MHz(HDTV), 74.25/1.001 MHz(HDTV)  
13.5 MHz(SDTV)  
4:2:2 Y<sub>C<sub>B</sub></sub>C<sub>R</sub> 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 × 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<sub>B</sub> and Y-C<sub>R</sub> Uses bowtie signals (authorized by Tektronix, Inc.)
- EAV-SAV Period:** Select show or hide
- G, B, R Conversion:** Converts Y, C<sub>B</sub>, C<sub>R</sub> 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 ×1, ×5, or variable (up to ×10)
- Amplitude Accuracy:** < ±0.5 %
- Horizontal Axis**
- Line Display:** Display format Overlay: 1H, 2H  
Parade: 1H, 2H, 3H  
Timing: 2H
- Field Display:** Magnification Select ×1 or ×10  
Display format Overlay: 1V, 2V  
(2V display not allowed for progressive)  
Parade: 1V, 2V, 3V  
Select ×1, ×20 or ×40
- 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 ×1, ×5, 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

## Audio Level 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  
Counts only the specified errors

### Data Dump Display

- Display Format:** 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
- Waveform Comparison:** Superimposes the input signal over an image from memory.
- 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)×133(H)×103(D) mm (excluding protrusions)
- 221(W)×143(H)×168(D) mm (including protrusions)
- 2.5 kg

## Accessory

- Instruction manual ..... 1