







Portable Multifformat SDI Monitor

The LV 5750 is a new paradigm in portable digital testing. This multifformat HD-SDI and SD-SDI monitor features a color XGA (1024x768) LCD screen waveform monitor for signals. SDI inputs support auto detection of twenty standard formats. Selected SDI input signals are relocked and output to an active serial output. Complete digital processing of SDI signals enables highly accurate measurements. Test modes include waveform, vector, picture, audio, and status displays with time code. Displays and sub-displays can be viewed in various combinations side by side or as a four in one multi-display. A composite signal conversion converts SDI component signals into pseudo-composite waveform or vector for NTSC or PAL.

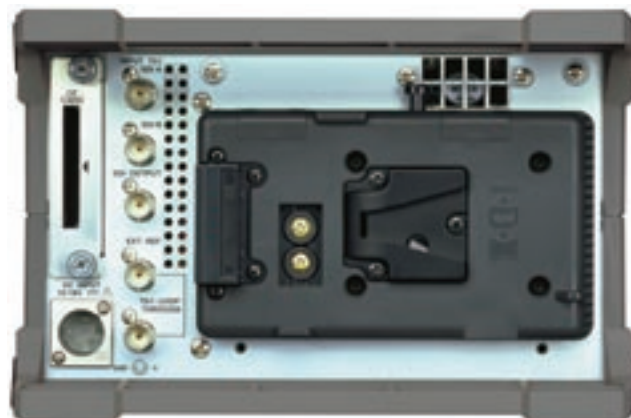
Vector shows chrominance difference signals in vector format with the amplitude settable as variable, IQ-MAG, or x5 times. Line selection with strobe of the same line can be displayed in picture, waveform, vector, and data dump with values in hex or binary notation which eases analysis. Complete protocol test and analysis functions are provided.

FEATURES

- **Frame Capture** - of screen to users compact flash memory card as BMP and or BST for continuity.
- **Frame Capture** - to internal memory allows display of superimposed held vs. live waveforms to match cameras and for exact timing adjustments.
- **Status** - screen shows error detection of digital protocols for: CRC, EDH, BCH, checksum, parity, GBR gamut, and pseudo-composite gamut errors, etc.
- **Embedded Audio** - monitors bargraphs displaying of up to eight channels at a time.
- **Stereo Headphone** - monitoring of selected audio channels output to the headphone output connector.
- **Event Log** - of selected/detected errors and events are stored to compact flash memory card. The log can be transferred as text data to a PC via the network by using FTP.

- **Digital Data Dump** - displays in hexadecimal or binary notation. This can be stored to a compact flash memory card and transferred as text data to a PC via the network by using FTP.
- **Embedded Audio Essence** - displays voice control packets, channels status, and other packets in the AES/EBU signal.
- **Presets** - store up to 30 sets of frequently used front panel settings.
- **External Synchronization** - allows tri-level sync signals or B.B signals of NTSC/PAL.
- **Front Panel** - buttons have LEDs and can be illuminated.
- **Tripod Stand Mount** - allows the 6.6 lb. monitor to be attached to a tripod or camera.
- **Compact Flash Card** - module can be replaced with optional Ethernet or Remote Control plug-in modules.
- **Options** - include a dedicated rack mount and viewing hood is also available.

● LV 5750 REAR PANEL



LV 5750 SPECIFICATIONS

Video Lines, Formats and Standards		
Active Lines	Format	Standard
1080i/p	60i/59.94i/50i/ 30p/29.97p/25p/24p/23.98p	SMPTE 274M, 292M
1080PsF	30PsF/29.97PsF/25PsF/24PsF/23.98PsF	SMPTE RP211, 292M
720p	60p/59.94p/50p/24p/23.98p	SMPTE 296M, 292M
525i 625i	59.94i 50i	SMPTE 259M
Ancillary Data		
SMPTE 291M		
Embedded Audio		
HD-SDI SMPTE 299M, SD-SDI SMPTE 272M		
Format Setting		
SDI Sampling Frequency	Auto selects 74.25MHz(HD), 74.25/1.001MHz(HD), 13.5MHz(SD)	
SDI Input		
Impedance	75Ω BNC, 2 systems A and B	
Input Return Loss	≥ 15dB, 5MHz serial clock frequency	
Ext Ref Input		
Signal	Tri-level or NTSC/PAL BB	
Input Impedance	15kΩ Passive BNC loop-through	
Input Return Loss	≥ 30dB	
SDI Output		
Connector	Selected SDI is relocked and output to BNC	
Output Impedance/Volt	75Ω / 800 mVp-p ± 10%	
Headphone Output		
Output Connector	Mini stereo jack, 32Ω (16Ω - 600Ω)	
Volume Adjustment	Setting from Menu	
Quantization Resolution	HD-SDI 24-bits, SD-SDI 20-bits	
Module Options		
Optional Plug-in Modules	CF memory card, Ethernet or Remote control modules are sold separately. One module at a time can be installed.	
Display		
Format	XGA, Effective area 1024 x 768 dots	
Full screen	Wfm/Vec/Pix/Audio/Status/Data Dump	
2-Screen	Wfm/Vec, Wfm/Pix, or Wfm/Audio	
4-Screen	Wfm/Vec/Pix and Audio or Status	
Waveform		
Overlay/Parade	Component signals in overlay/side by side	
Timing Display	Calculates and displays Y-C _B , Y-C _R . Bowtie signal (Authorized by Tektronix, Inc)	
EAV-SAV	Select show or hide	
GBR Conversion	Converts YC _B C _R into GBR display	
Pseudo-Composite	Converts/displays pseudo-composite	
Channel Parade	GBR or RGB format is selectable	
Line Select	Displays the selected line	
Vertical Axis		
Vertical Scales	V scale: 0V to 0.7V, -0.3V to 0.7V; % scale: 0% to 100%, -50% to 100%	
Accuracy/Sensitivity	±0.5%/ x1, x5, or variable x0.1 to x10	
Frequency Response HD	Y: ±0.5% 1-30MHz, C _B C _R : ±0.5% 0.5-15MHz	
Low-pass Attenuation	≥ 20dB at 3.8MHz	
Horizontal Axis		
Horizontal Sweep	Overlay:1H, 2H; Parade:1H, 2H, 3H; Timing:2H	
Magnification	Select x1 or x10	
Active Display	Displays active video only	
Blank Display	H Blanking when set to overlay 2H	
Field Display	Overlay: 1V, 2V (no 2V p) Parade: 1V, 2V, 3V	
Time Base Accuracy/Mag	±0.5%, Select x1 or x20	
Vector		
Sensitivity	Select 75% or 100%	
Accuracy/Gain	±0.5%/ x1, x5, IQ-MAG, variable x0.2 to x10	
EAV-SAV /IQ Axis	Select show or hide	

Picture	
Marker Display	Center cross, 4:3,16:9, safe action, safe title
Audio Level	
Groups	Selects groups 1&2 or 3&4
Level Meter	8-channel simultaneous
Meter	60dB, 90dB peak, average VU, Peak hold.
Standard Ref Level	Selectable -20dB, -18dB or -12dB
Status Display	
Digital Protocols	Detects SDI, CRC, BCH, Checksum, Gamut, Composite-Gamut, Channel Status CRC audio, active audio Ch, Time code, SDI level bargraph
Data Dump	
Format	Serial or Component data
Line/Sample Select	Displays the selected line/samples
Jump	EAV or SAV by one-key operation
Data Output	To PC by CF memory card/Ethernet
Error Count	100,000 selected errors are counted
Event Log	
Log Mode	Select overwrite or update 1k events
Logged Items	Errored items, time stamps, etc.
Audio Status	
Channel Status	Dumps, analyzes channel status of the embedded audio
Voice Control Packets	Voice control packets analyze/display
EDH error	Displays the status of EDH error
Packet Content	Analyzes and displays EDH packets
Screen Capture	
Store To	Internal RAM, CF memory card
30 Presets	
Media	Internal memory or CF memory card
Recall Method	From front panel, remote or Ethernet.
Copy	Copy presets to/from CF memory card
Other Display Selections	
LCD Backlight/Auto off	Select high or low/ Select sleep time
Format	Displays input signal format
Color System	YC _B C _R , GBR, RGB, or COMP
Date/Time	Select year/month/day order, system clock
Illumination of Key LEDs	Turns on LEDs for all keys
General Specifications	
Operating Temperature	0-40°C, ≤85% RH (without condensation)
Spec-Guaranteed Temp	10-30°C, ≤85% RH (without condensation)
Power Requirements	DC 12V (10 to 18V), 40 W max
Dimensions (WxHxD)	8 1/2 x 5 1/4 x 4 3/4 in., 215 x 133 x 120 mm
Weight	5.5 lbs., 2.5 kg
Supplied Accessories	Instruction manual, Power Cord, Cover/Inlet stop, rack mount screws

● **OPTIONS**

Option Board

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



LV 5750-01
Ethernet Unit



LV 5750-02
Remote Control Unit