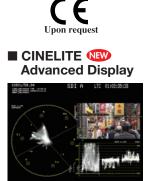
# **MULTI SDI MONITOR**



# LV 5381





LEADER



(4 Inputs Display)

# **Multi SDI Monitor** (4 Inputs)

The LV 5381 is a waveform monitor that can monitor up to four SDI signals simultaneously. It is optimized for the level adjustment of the outputs of multiple installed cameras. In the video signal waveform display, vector display, and picture display, multiple input signals can be displayed on top of each other or lined up next to each other. It is also full of useful features such as a level meter display for embedded audio, an error display that indicates transmission errors, and a 5-bar display that shows video signal peak levels using five bars. Furthermore, the LV 5381 can show different combinations of these displays in its multi-screen display.

### FEATURES

#### • Simultaneous Monitoring of Four Inputs

The LV 5381 is a waveform monitor with a built-in 8.4-inch TFT-LCD. It can display up to four SDI input signals of the same format simultaneously. The LCD is an XGA display (1024 x 768 pixels) that boasts high color reproducibility. This makes the LV 5381useful for picture monitoring as well.

#### Wide Variety of Display Formats

In the video signal waveform display, vector display, and picture display, the LV 5381 can display up to four input SDI signals on top of each other or side by side. This makes it suitable for adjusting the gain and black balance values of multiple cameras. In the video signal waveform and vector displays, the LV 5381 can make different waveforms easier to see by using a different waveform color for each input channel.
Extremely Flexible Display Layouts
Each of the different displays can be shown on a single screen, or the multiscreen display feature can be used to divide the screen into four

areas with a different display shown in each area. The video signal waveform display, picture display, and audio level meter display can be shown as a thumbnail display on the one-screen display.

• Video Signal Waveform Display The input Y C<sub>B</sub> C<sub>B</sub> signal can be converted to an RGB or pseudocomposite signal and shown on the video signal waveform display. The video signal waveform display has a rich assortment of features such as waveform magnification and line selection.

#### Picture Display

The picture display has a wide variety of picture monitoring features, such as color temperature specification; brightness, contrast, and aperture adjustment; and the display of gamut error locations.

#### **CINELITE II / CINELITE Advanced**

The LV 5381 comes standard-equipped with CINELITE II (CINELITE and CINEZONE), which is a video signal luminance information analysis tool. With CINELITE, you can use the cursor to select any 3 points and display their f-Stop numbers, percentage values, and level values. You can choose to analyze a single pixel or a small area by setting the size of the

measured area to 1 pixel or to the average value for 9 or 81 pixels. With CINEZONE, you can display the luminance levels in the picture using different colors. This allows you to quickly determine the overall luminance distribution in the picture, and it makes it easy to spot over-exposure, underexposure, and different luminance levels in dark areas.

Screen Capture Feature

The display can be captured and stored as image data. The captured data can be displayed on the LV 5381. Additionally, it can be saved as bitmap files to USB memory, which makes it possible to view the data on a PC.

#### External Sync Signal Input

The LV 5381 can receive a tri-level sync signal or an NTSC or PAL black burst signal as its external sync signal and then display video signal waveforms with this sync signal as its reference.

- Presets Stores up to 30 front panel presets.
- Last Memory

#### ID Display

IDs can be assigned to input channels. IDs are entered from the LV 5381 panel.

#### •Stereo Headphone Output (1 stereo miniature jack)

• Dimensions and Weight

425 (W) x 352 (H) x 95.0 (D) mm, 5.2 kg 16 3/4(w) x 13 7/8(H) x 3 3/4(D) inch. (excluding projections), 11.46 lbs

#### Remote and Tally Option (OP70, factory option)

The addition of the external remote option enables the LV 5381 to load presets and display tallies according to the signals that it receives through the rear-panel remote control connector. This makes it possible to link the LV 5381 to a switcher or other device.

#### Dual Link Option (LV 5381SER01)

The addition of the dual link option enables the LV 5381 to monitor a pair of dual link signals simultaneously.

#### Audio Lissajous Option (LV 5381SER02)

The addition of the audio lissajous option enables the LV 5381 to display the lissajous curves and the numeric values of levels of the audio that is embedded in an SDI signal.

#### Status Option (LV 5381SER03)

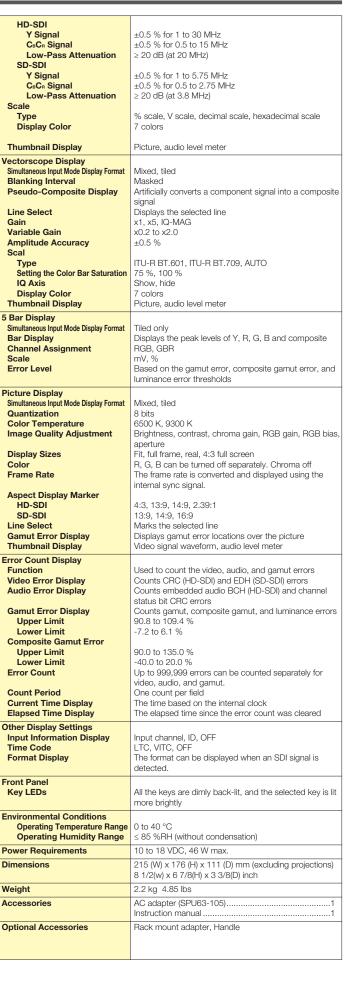
The addition of the status option enables the LV 5381 to show analysis displays such as the data dump, phase difference, and event log displays.

#### 3D Assist Option (LV 5381SER04)

3D video signals can be evaluated by applying the video signal for the left eye to channel A and the video signal for the right eye to channel B. The available picture display formats are anaglyph, convergence, overlay, and wipe.

## LV 5381 SPECIFICATIONS

Format	Quantization	Sc	annina	Frame (Field) Rates	Compliant Standard
	Gainzalon	Scanning 1080i		60/59.94/50	SMPTE 274M
Y,Ca,Ca 4:2:2	10 bit	1080p		30/29.97/25/24/23.98	SMPTE 292M SMPTE RP 211
		1080PsF		30/29.97/25/24/23.98	SMPTE 292M
		720p		60/59.94/50/ 30/29.97/25/24/23.98	SMPTE 296M SMPTE 292M
		525i 625i		59.94 50	SMPTE 259M
Audio Playback Compliant Standards Quantization Clock Generation Synchronization nput/Output Connectors SDI Input Input Connectors SDI Output Output Connectors Output Signal			SMPTE-299M (HD-SDI) SMPTE-272M (SD-SDI) 24 bits Generated from the video clock All audio channels must be synchronized to the video clock. 4 BNC connectors (channels A, B, C, and D) 2 BNC connectors SDI signal selected from channel A or B is reclocked and generated SDI signal selected from channel C or D is reclocked		
Output Impedance Output Voltage Output Return Loss External Sync Input(*1) Input Signal Input Connectors Input Impedance Input Return Loss Maximum Input Voltage Headphone Output Output Signal Output Channel Sampling Frequency Output Connector Volume Adjustment Power Output			and generated 75 $\Omega$ 800 mVp-p ± 10 % ≥ 15 dB for 5 MHz to the serial clock frequency Tri-level sync or NTSC/PAL black burst signal 2 BNC connectors 15 k $\Omega$ passive loop-through ≥ 30 dB for 50 kHz to 30 MHz into 75 $\Omega$ ±5 V (DC + peak AC) Extracts and transmits the audio signal embedded in an SDI signal. Specified AES/EBU pair Only 48 kHz is supported. 1 stereo miniature jack Configured from the menu 50 mW max. (with 16 $\Omega$ load resistance) *11f the video signal waveform is displayed using an external sync signal as the reference, inserting or removing an SDI signal or restarting the device may cause the waveform phase to be off by one clock. This feature does not function when the video format is 1080p/60, 59.94, or 50.		
ontrol Conn USB Port Specificat Media			USB 2.0 Only sup	ports USB memory devic	es.
.CD LCD Type Display Format Backlight Brightness Auto Shutoff		8.4-inch color TFT XGA. The effective resolution is 1024 x 768. 32 levels Time to turn off the LCD can be set.			
Screen Capture Screen Capture Media Data Output Data Input Preset Settings		Captures the screen to an image file (only one screen capture is stored in internal memory) Internal memory (RAM) and USB memory Screen captures can be saved as bitmap files to USB memory. Data saved to USB memory can be loaded and displayed on the LV 5381.			
Preset Mode		Comprehensive preset, display mode preset			
Waveform Display Simultaneous Input Mode Display Format Waveform Operation Display Mode Overlay Parade Blanking Period RGB Conversion Pseudo-Composite Display Channel Assignment Line Select Gain Variable Gain Filter Waveform Display Accuracy			Mixed, tiled, aligned Overlay, parade Overlays component signals Displays component signals side by side H and V blanking periods can be displayed or hidden. Converts a Y,Ca,Cn signal into an RGB signal and dis- plays the result Artificially converts a component signal into a composite signa Displayed in GBR or RGB order (selectable when RGB conversion is enabled) Displays the selected line x1, x5 x0.2 to x2.0 Flat, low pass		





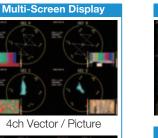


Cinelite

### Rear Panel

# Display Examples

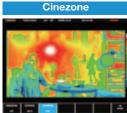






4ch Picture / Waveform

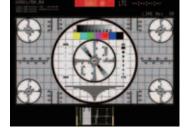






#### Option

#### Remote and Tally Option (OP70, factory option)



The addition of the external remote option enables the LV 5381 to load presets and display tallies according to the signals that it receives through the rear-panel remote control connector. This makes it possible to link the LV 5381 to a switcher or other device.

#### Dual Link Option (LV 5381SER01)

The addition of the dual link option enables the LV 5381 to monitor a pair of dual link signals simultaneously.

#### Audio Lissajous Option (LV 5381SER02)



The addition of the audio lissajous option enables the LV 5381 to display the lissajous curves and the numeric values of levels of the audio that is embedded in an SDI signal.

#### 3D Assist (LV 5381SER04)



Anaglyph



Wipe

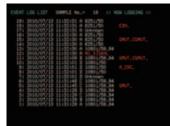
Convergence



Overlay & Histogram

3D video signals can be evaluated by applying the video signal for the left eye to channel A and the video signal for the right eye to channel B. The available picture display formats are anaglyph, convergence, overlay, and wipe.

#### Status Option (LV 5381SER03)



The addition of the status option enables the LV 5381 to show analysis displays such as the data dump, phase difference, and event log displays.