# MULTI SDI MONITOR

# LV 5381

# LEADER



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# **Multi SDI Monitor**

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 5381 uséful for picture monitoring as well.

 Rich Assortment of Display Features Not only does the LV 5381 have essential displays for video signal quality monitoring, such as a video signal waveform display and a vector display, it also has a rich assortment of other display features such as a picture display, audio level meter display, 5-bar display, transmission error detection, and gamut error detection.

#### 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 multi-screen display feature can be used to divide the screen into four areas with a different display shown in each area. The video sig-nal 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 pseudo-composite 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.

#### • Standard-Equipped CINELITE II

The CINELITE feature makes it easy to manage the levels of spe-cific points on the picture display. This is useful for adjusting the gain of multiple cameras through the use of the same reference point. The CINEZONE feature makes it possible to check the luminance distribution of the whole picture display at a glance.

#### 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. Key LED's

All the panel keys have LEDs. This makes it easy to find the keys even in dark environments.

#### Last Memory

#### ID Display

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

#### Stereo Headphone Output

#### 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)

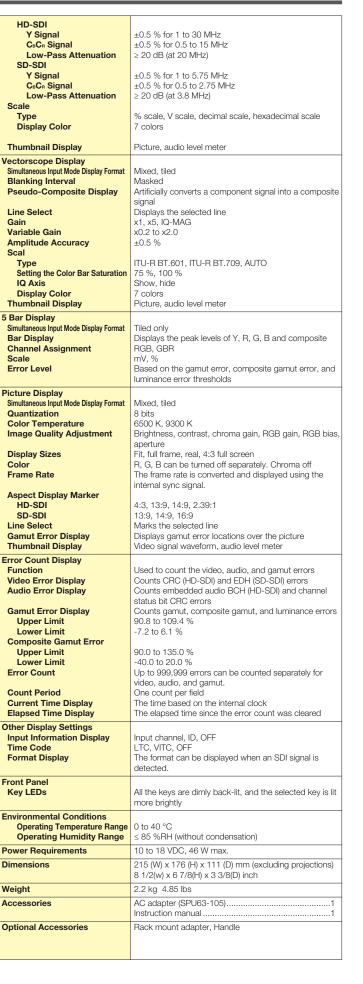
The addition of the status option enables the LV 5381 to show analysis displays such as the data dump, phase difference, and event log displays.

#### 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	anning	Frame (Field) Rates	Compliant Standard	
	Gainzalon	1080i		60/59.94/50	SMPTE 274M	
Ү,Се,Са 4:2:2		1080p		30/29.97/25/24/23.98	SMPTE 292M SMPTE RP 211	
	10 bit	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 Input/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			bit aligned sector from channel of or D is redicted and generated 75 Ω 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 kΩ passive loop-through ≥ 30 dB for 50 kHz to 30 MHz into 75 Ω ±5 V (DC + peak AC) Extracts and transmits the audio signal embedded in ar SDI signal. Specified AES/EBU pair Only 48 kHz is supported. 1 stereo miniature jack Configured from the menu 50 mW max. (with 16 Ω load resistance) *11 ft w video signal averform 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		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 Settings 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, Ce, Ce, signal into an RGB signal and dis- plays the result Artificially converts a component signal into a composite sign 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			





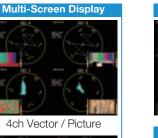


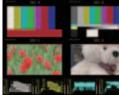
Cinelite

### Rear Panel

## Display Examples

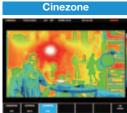






4ch Picture / Waveform

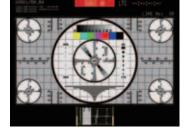






### Option

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



Anaglyph



Wipe

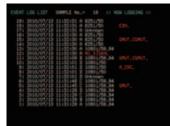
Convergence



Overlay & Histogram

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