

MULTI SDI MONITOR

LV 5380

LEADER



Upon request

3D
Anaglyph

HD-SDI

SD-SDI

Dual Link
2K

8.4 Inches

4U size

CINELITE II
option

Multi SDI Monitor

The LV 5380 is a multi-SDI monitor equipped with a precision video signal waveform and vectorscope display via a high-fidelity TFT LCD that produces high-quality picture displays. It also offers an embedded audio signal display featuring Lissajous and level-meter configurations. Additional features include simultaneous display of two SDI signals, screen capture to USB memory, and on-picture gamut error monitoring.

All these features are integrated into a thin, light instrument that allows it to be used in any video production or monitoring application.

FEATURES

• Two Serial Digital Inputs and Output

The LV 5380 is equipped with two SDI inputs. You can use these inputs to receive two separate SDI signals or to receive a single dual link SDI signal.

The LV 5380 is also equipped with a connector for transmitting a reclocked channel A or B signal. When you choose to receive an SDI signal through channel A or B by pressing the INPUT key, the output connector transmits the selected signal.

• High-Quality TFT LCD

Employs an XGA TFT LCD (1,024x768) that produces high-quality picture displays.

• Extensive Video Signal Displays

The waveform monitor display has gain adjustment, sweep, and cursor measurement features along with RGB and pseudo-composite information. The LV 5380 also provides vectorscope and embedded audio, Lissajous and Level meter displays.

• Multi-Functional Picture Display

The picture display has various adjustment features such as color temperature selection, brightness, contrast, gain, and bias. Other features include monochrome, chroma up, on, image gamut error, and safety marker displays.

• Multi-Screen Display and 2-Channel Simultaneous Display

- 1) You can switch to multi-screen which simultaneously shows video signal waveforms and pictures.
- 2) You can switch to multi-screen which simultaneously shows video signal waveforms, picture, vectorscope, and audio levels.
- 3) You can display two SDI signals simultaneously.

• Dual Link Input

• Aperture Adjustment

You can enhance the outlines in a picture to assist in the focusing of the camera. You can choose from 100 different aperture levels.

• Screen Capture

You can capture the display and store it as image data. You can view the captured data on the LV 5380 or store it in USB memory as a bitmap file that you can view on your PC.

• Status Display

The LV 5380 can display SDI signal's data dump and error logs as well as the phase difference between the external sync signal and SDI signal.

• Time Code Display

You can display LTC or VITC time codes.

• ID Display

You can assign IDs to input channels. IDs are entered from the LV 5380 panel.

• Display Mode Switch Keys

For quick operation, the LV 5380 provides dedicated keys for switching between different display modes such as video waveform, vectorscope, and picture displays. In addition, all keys can be back-lit.

• Stereo Headphone Output

Delivers SDI signal's embedded audio signals in stereo through the headphone output jacks.

• External Sync Signal Input

Accepts tri-level sync signals or NTSC/PAL black burst signals.

• Presets

Stores up to 30 front panel presets.

• Last Memory

Equipped with a feature that stores panel settings to memory.

• 75-mm VESA Mounting

Provides 75-mm VESA mounting holes on the rear panel that allows the LV 5380 to be mounted on an arm or stand. Tripod mounting facilities also provided.

• Option

FS 3035 : CINELITE II *1

CINELITE On-Picture Measurements, CINEZONE false color displays and peaking function facilitate quick camera focus and exposure setups.

OP72 : Remote & Tally*2

OP73 : BATTERY MOUNT IDX (V-Mount)*2 *3

OP74 : BATTERY MOUNT ANTON (AntonBauer)*2 *3

*1 CINELITE is a registered trademark of LEADER ELECTRONICS CORP. in the United States and/or the other countries.

*2 Factory option

*3 If you install the battery mount, you cannot use the 75-mm VESA mounting holes.

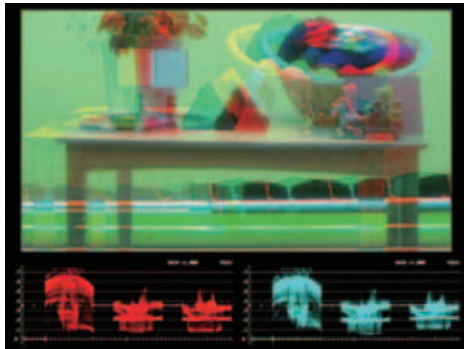
Video Formats and Corresponding Standards Single Link System Video				
Color System	Quantization	Format		Corresponding Standard
		Scanning	Frame (Field) Rates	
Y, C _b , C _r 4:2:2	10 bit	1080i	60/59.94/50	SMPTE 274M
		1080p	30/29.97/25/24/23.98	SMPTE 292M
		1080PsF	30/29.97/25/24/23.98	SMPTE RP 211 SMPTE 292M
		720p	60/59.94/50/ 30/29.97/25/24/23.98	SMPTE 296M SMPTE 292M
		525i	59.94	SMPTE 259M
		625i	50	
Dual Link System Video				
Color System	Quantization	Format		Corresponding Standard
		Scanning	Frame (Field) Rates	
RGB 4:4:4	10 bit	1080p	30/29.97/25/24/23.98	SMPTE 372M (1920x1080)
		1080PsF	30/29.97/25/24/23.98	
		1080i	60/59.94/50	
	12 bit	1080p	30/29.97/25/24/23.98	
		1080PsF	30/29.97/25/24/23.98	
		1080i	60/59.94/50	
Y, C _b , C _r 4:2:2	10 bit	1080p	60/59.94/50	SMPTE 372M (1920x1080)
	12 bit	1080p	30/29.97/25/24/23.98	
		1080PsF	30/29.97/25/24/23.98	
		1080i	60/59.94/50	
RGB 4:4:4 (2K)	12 bit	1080p	24/23.98	SMPTE 372M (2048x1080)
		1080PsF	24/23.98	
Audio Display Compliant Standard Quantization	SMPTE 299M (HD-SDI), SMPTE 272M (SD-SDI) 24 bits			
Input/Output Connectors SDI Input Input Connectors SDI Output Output Connector	2 BNC connectors 1 BNC connector Reclocks and transmits the selected SDI input signal			
External Reference Input*1 Input Signal Input Connectors Input Impedance Headphone Output Output Signal	Tri-level sync or NTSC/PAL black burst 1 pair of BNC connectors 15 kΩ passive loop-through			
Output Connector	Extracts and transmits the embedded audio signal (any two channels) (synchronized to the video signal) 1 stereo miniature jack			
Control Connector USB Port Specifications Media	USB 2.0 Only supports USB memory devices.			
LCD LCD Type Backlight Brightness Auto Shutoff	8.4-inch color XGA TFT. Effective area 1,024 x 768 dots 32 adjustable levels Time to turn off the LCD can be set.			
Screen Capture Description Waveform Comparison	Captures the screen Displays the captured image or superimposes the captured image over the input signal			
Media	Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory.			
Data Output	Screen captures can be saved as bitmap files to USB memory, or they can be saved in a file format that the LV 5380 can load.			
Data Input	Data saved to USB memory can be loaded and displayed on the LV 5380.			
Presets Setting Number of Presets	30 total.			
Waveform Display Waveform Operation Display Mode Blanking Period RGB Conversion	Overlay and parade H and V blanking periods can be masked Converts Y, C _b , C _r signals into RGB and displays the result			
Pseudo-Composite Display	Digitally converts component signals into composite signals and displays the result			
Vertical Axis Gain Variable Gain Amplitude Accuracy	1 or 5 selectable 0.2 to 2.0 ≤ ±0.5 %			
Horizontal Axis Line Display Field Display	1, 10, 20, ACTIVE, or BLANK selectable 1, 20, or 40 selectable			

Cursor Measurement Time Measurement Frequency Display	Measures in usec or msec Displays the frequency by assuming the interval between the cursors to be one period
Scale Type	%, Scale or V Scale selectable
Vectorscope Display Gain Variable Gain Amplitude Accuracy Scale IQ Axis Display Colors Pseudo-Composite Display	1, 5, or IQ-MAG selectable 0.2 to 2.0 ≤ ±0.5 % Show or hide selectable 7 colors choose from Artificially converts component signals into composite signals and displays the result
Thumbnail Display	Can display thumbnails of pictures display and audio level meters
5 Bar Display Bar Display Scale Error Level	Displays the peak levels of Y, R, G, B, and composite mV or % selectable Based on gamut error level and composite gamut error level settings, user settable.
Picture Display Color Temperature Quality Adjustment Display Size Color	6500K or 9300K selectable Brightness, contrast, gain, bias, aperture Fit, full frame, real, and 4:3 full screen R, G, or B can be turned off separately. Variable chroma gain and monochrome available.
Aspect Marker Display Aspect Marker Format Safety Marker Size	4:3, 13:9, 14:9, 16:9 or 2.39:1 selectable Line, shadow (three types), black ARIB TR-B4, SMPTE RP-218, or user-defined selectable
Embedded Audio Display Lissajous Display Display Channels Display Mode Level Meter Display Display Channels Meter	2ch (single) or 8ch (multi) selectable X-Y or L-R selectable 2ch or 8ch display selectable 60 dB peak level, 90 dB peak level, or average selectable. (Peak level meters include settable peak hold indication.)
Channels Group Selection	Select any two groups within the same SDI channel from groups 1, 2, 3, and 4
Status Display Event Log Data Dump Display Data Output Error Detection	Stores up to 1,000 events Dumps data by serial data sequence or by channel Can be saved in text format to USB memory CRC Error, Gamut Error, Composite Gamut Error, BCH Error
Phase Difference Display Display	Displays numerically and graphically the phase difference between an SDI signal and the external sync signal
Display Range Vertical Horizontal	±1 field (for interlace) ±1/2 frame (for progressive) ±1 line
Time Display	Current Time Display, Elapsed Time, Time Code
Other Display Features ID Display Tally Indicator	ID can be assigned to each input channel. One of the remote connectors can be modified so that tally indication can be shown on the screen (to be supported in the future).
Front Panel Key LEDs Last Memory	All keys illuminate dimly. (The selected key illuminates brightly.) Backs up panel settings to memory
Environmental Conditions Operating Temperature Operating Humidity Range	0 to 40 °C ≤ 85 % RH (without condensation)
Power Requirements	10 to 18 VDC, 30 W max.
Dimensions	215 (W) x 176 (H) x 85 (D) mm (excluding projections) 8 1/2 (W) x 6 7/8 (H) x 3 3/8 (D) inch
Weight	2.0 kg 4.4 lbs.
Accessories	Instruction manual 1 Ferrite core 1 VESA spacer 1
Option Sold Separately	AC adapter SPU40-105, Rack mount LR 2751 I Blank panel LC 2129 Tripod mounting plate LC 2127 Handle LH 2140

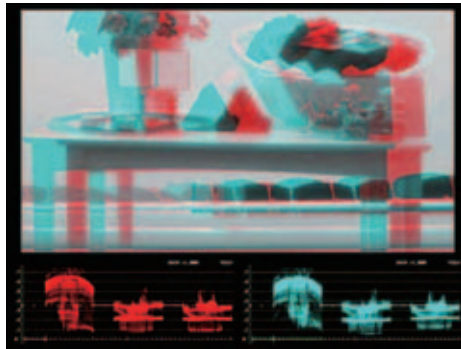
*1 (• The video signal waveform display and vectorscope display may be delayed by up to 1 frame with respect to the picture display.
• V sweep cannot be displayed when the video signal waveform displays for two simultaneous inputs are shown.
• Phase difference accuracy between external reference and internal signal is ±1 clock cycle.

3D Anaglyph Display

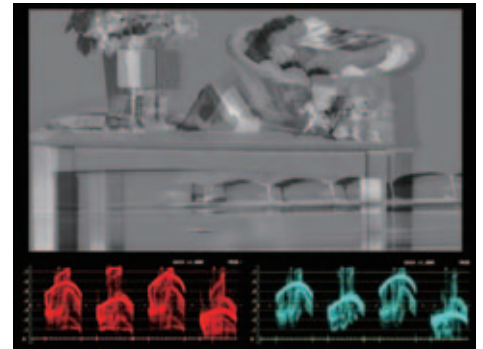
You can check 3D images in the anaglyph display.



Color



Black/White



Convergence

Anaglyph

In this layout, the left and right images are displayed together, and the waveforms of the left and right signals are displayed side by side. The picture in which the left and right images are displayed together is an anaglyph display, and you can check 3D images by looking at the display while wearing red and cyan 3D glasses.



Versatile Picture Display

Picture adjustment options include color temperature (6500K/9300K), brightness, contrast, gain, bias, and aperture. You can switch the R, G, and B signals on and off.



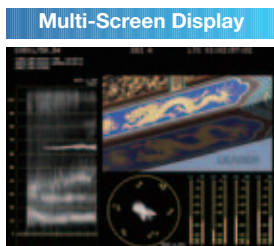
Picture adjustment menu



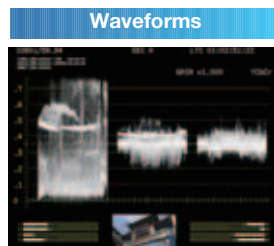
Picture and waveform time axis correspondence



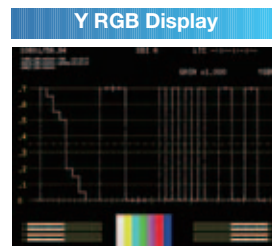
FIT Display Size (with audio levels)



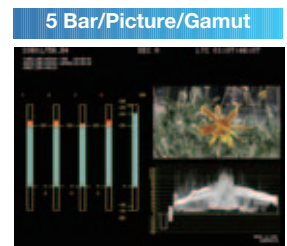
Multi-Screen Display



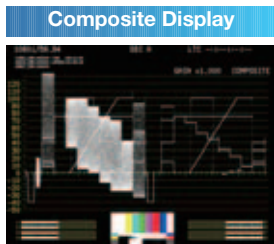
Waveforms



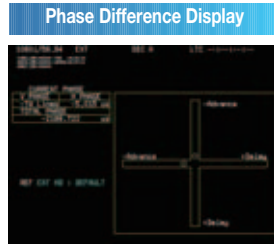
Y RGB Display



5 Bar/Picture/Gamut



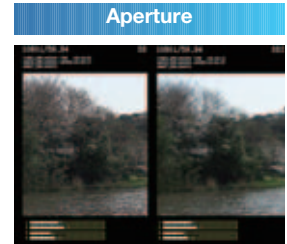
Composite Display



Phase Difference Display



Data Dump



Aperture

ON OFF

LV 5380 REAR PANEL



Rack Mounting

LR 2751 I
LC 2129

Rack Mount (sold separately; tiltable)
Blank Panel (sold separately)



Camera Mounting

