

MULTI SDI MONITOR

LV 5380

LEADER

New

CE

Upon request

RoHS



HD-SDI

SD-SDI

8.4 Inches

4U size

CINELITE II
option

The design is subject to change.

Compact 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.*1 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

- **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.*1
- **Dual link input *1**
- **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.

- **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.
- **External Remote Connector (Factory Option)**
An external remote connector can be installed as a factory option. In addition, one of the connectors can be modified so that a tally indicator can be displayed on the screen.
- **Battery Mount (Factory Option)*2**
A battery adapter can be installed on the rear panel as a factory option.
 - **OP73 : BATTERY MOUNT IDX (V-Mount)**
 - **OP74 : BATTERY MOUNT ANTON (AntonBauer)**
- **OP70: Cinelite II (Cinelite+Cinezone) (Option)**
Leader's CINELITE and CINEZONE features are added as a single option in this instrument. For details on CINELITE & CINEZONE, please see page #49.

*1 To be supported in the future

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

Video Formats and Corresponding Standards				
Format	Quantization	Scanning	Frame (Field) Frequency	Corresponding Standard
Y, C _b , C _r 4:2:2	10bit	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 RP211 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	SMPTE 259M
Audio Display		SMPTE 299M (HD-SDI), SMPTE 272M (SD-SDI)		
Compliant Standard		20 bits		
Quantization		Must be synchronized to all video clocks		
Synchronization		Two groups (eight channels in the same SDI channel) selectable		
Channel Selection				
Input/Output Connectors				
SDI Input				
Input Connectors				
Input Impedance				
Input Return Loss				
Maximum Input Voltage				
SDI Output				
Output Connector				
Output Impedance				
Output Voltage				
Maximum Return Loss				
External Reference Input*				
Input Signal				
Input Connectors				
Input Impedance				
Headphone Output				
Output Signal				
Sampling Frequency				
Output Connector Impedance				
LCD				
LCD Type				
Backlight Brightness				
Auto Shutoff				
Screen Capture				
Capture				
Data Output				
Data Input				
Presets				
Display Mode Presets				
Number of Presets				
Waveform Display				
Waveform Operation				
Display Mode				
Overlay Display				
Parade Display				
Blanking Period				
RGB Conversion				
Pseudo-Composite Display				
Channel Assignments				
Line Select				
Vertical Axis				
Gain				
Variable Gain				
Amplitude Accuracy				
Frequency Characteristics HDTV				
Y Signal				
C_b, C_r Signals				
Low-Pass Attenuation				
Frequency Characteristics SDTV				
Y Signal				
CB, CR Signals				
Low-Pass Attenuation				
Horizontal Axis				
Line Display				
Field Display				
Cursor Measurement				
Types				
Amplitude Measurement				
Time Measurement				
Frequency Display				
Scale				
Type				
Color				
Thumbnail Display				
Vectorscope Display				
Gain				
Variable Gain				
Amplitude Accuracy				
Scale				
Type				
IQ Axis				
Color				
Pseudo-Composite Display				
Thumbnail Display				
5 Bar Display				
Bar Display				
Channel Assignments				
Scale				
Error Level				

Picture Display	6500K or 9300K selectable
Color Temperature	Brightness, contrast, gain, bias, aperture
Quality Adjustment	Fit, full frame, real, and 4:3 full screen
Display Size	R, G, or B can be turned off separately. Variable chroma gain and monochrome available.
Color	Displays by converting the frame rate using the internal sync signal
Frame Rate	4:3, 13:9, 14:9, or 16:9 selectable
Aspect Marker Display	Line, shadow (three types), black
Aspect Marker Format	ARIB TR-B4, SMPTE RP-218, or user-defined selectable
Safety Marker Size	Displays a mark on the selected line
Line Select	Displays gamut error locations over the picture
Gamut Error Display	Displays thumbnails of audio level meters
Thumbnail Display	
Embedded Audio Display	2ch (single) or 8ch (multi) selectable
Lissajous Display	X-Y or L-R selectable
Display Channels	
Display Mode	
Level Meter Display	2ch or 8ch display selectable
Display Channels	60 dB peak level, 90 dB peak level, or average selectable. (Peak level meters include settable peak hold indication.)
Meter	
Channels	
Group Selection	Select any two groups within the same SDI channel from groups 1, 2, 3, and 4
Audio Information Detection	Detects the presence of each audio channel
Sampling Frequency	48 kHz (must be synchronized with the video signal)
Status Display	Stores up to 1,000 events
Event Log	Dumps data by serial data sequence or by channel
Data Dump Display	Can be saved in text format to USB memory or to a PC
Data Output	
Phase Difference Display	Displays numerically and graphically the phase difference between an SDI signal and the external sync signal
Display Range	
Vertical	±1 field (for interlace) ±1/2 frame (for progressive)
Horizontal	±1 line
Error Count	
Error Count	Counts up to 999,999 video, audio, and gamut errors separately
Count Period	Counts all errors that occur in one field as one error
Video Errors	
CRC Error	Detects transmission errors of HD-SDI signals
EDH Error	Detects transmission errors of SD-SDI signals
Gamut Error	
Gamut Error	Detects gamut errors
Detection Range Upper Limit	90.0 to 109.4 %
Lower Limit	-7.2 to +6.1 % (0.1 % steps)
Composite Gamut Error	Monitors level errors when component signals are converted to composite signals
Detection Range Upper Limit	90.0 to 135.0 %
Lower Limit	-40 to -20 % (0.1 % steps)
Audio Errors	
CRC Error	Detects CRC errors in channel status bits
BCH Errors	Detects transmission errors of HD-SDI audio packets
Time Display	
Current Time Display	Time display based on the internal clock
Elapsed Time	Time elapsed since the error count was cleared
Time Code	LTC or VITC selectable (complies with SMPTE RP-188)
Other Display Features	
ID Display	ID can be assigned to each input channel.
Tally Indicator	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	All keys illuminate dimly. (The selected key illuminates brightly.)
Last Memory	Backs up panel settings to memory
Environmental Conditions	
Operating Temperature	0 to 40 °C
Operating Humidity Range	≤ 85 % RH (without condensation)
Operating Environment	Indoors
Overvoltage Category	1
Pollution Degree	2
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 15/16(H) x 3 3/8(D) in. (excluding projections)
Weight	2.0 kg, 4.5 lbs
Accessory	Instruction manual.....1 Ferrite Core1
Option Sold Separately	AC adapter LP 1960 Rack mount LR 2751 I Blank Panel LC 2129

- *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.

■ Cinelite II (Option)



Cinelite



Cinezone

Picture Display

Versatile Picture Display

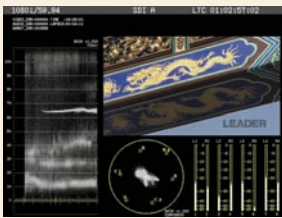
Picture adjustment options include color temperature (6500K/9300K), brightness, contrast, gain, bias, and aperture. You can switch the R, G, and B signals on and off.



Picture adjustment menu

Picture and waveform time axis correspondence

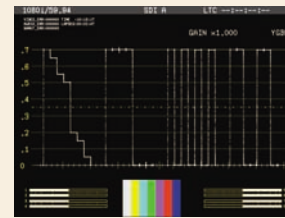
Multi-Screen Display



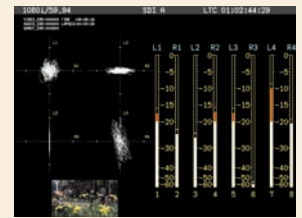
Waveforms



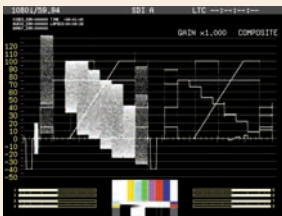
Y RGB Display



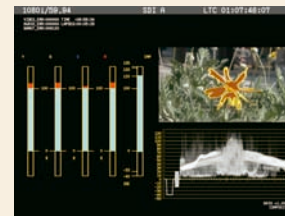
Audio Display



Composite Display



5 Bar/Picture/Gamut

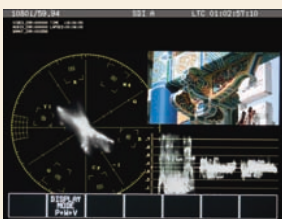


Gamut Error Display

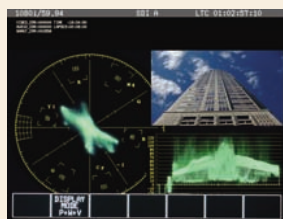


Changes the color of gamut error areas in the picture display.

Video Waveform Color Selection



White display



Green display

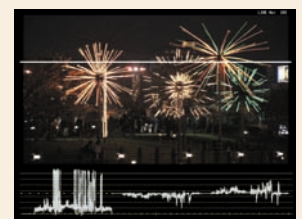
Various Markers



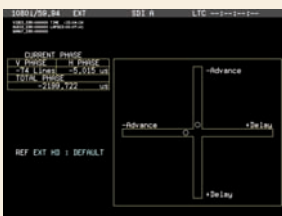
Marker display menu



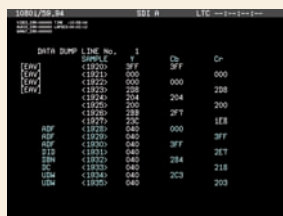
Line Selection



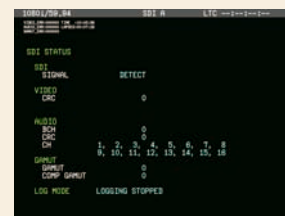
Phase Difference Display



Data Dump



Status



Aperture



ON

OFF



FIT Display Size (with audio levels)

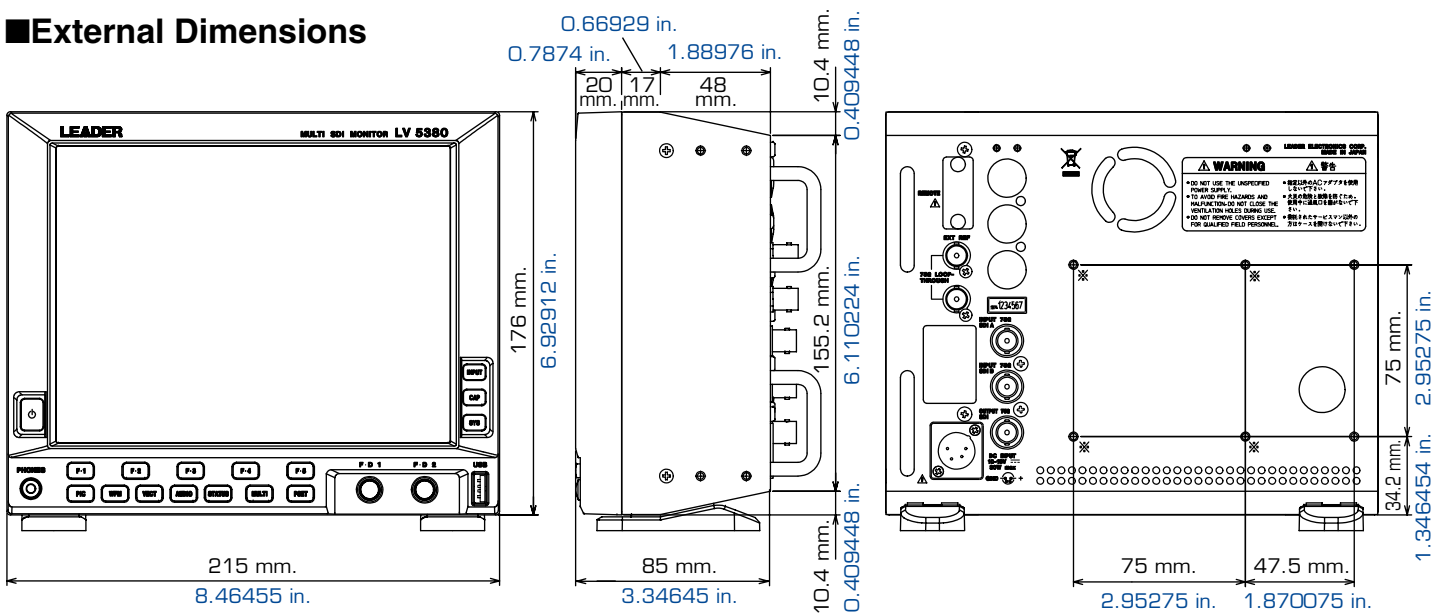


REAL Display Size
(pixel to pixel correlation)



MONOCHROME Display

External Dimensions



LV 5380 REAR PANEL



Rack Mounting

LV 5380 dual mount example



LR 2751 | Rack Mount (sold separately; tiltable)

LC 2129 | Blank Panel (sold separately)

AC Adapter LP 1960 (sold separately)

