LEADER Technology Innovator

MULTI SDI/HDMI MONITOR
LV 5382

HDMI®

HD-SDI

SD-SDI

3D

4U size (half Rack)

CINELITE II

Multi SDI/HDMI Monitor

GENERAL

The LV 5382 is a portable waveform monitor that supports SDI and HDMI signals.(*1) The LV 5382 has simultaneous HD-SDI dual input display features and supports HDMI frame-packing, side-by-side, and top-and-bottom formats. A battery option is also available. Thanks to these features, the LV 5382 is incredibly useful at 3D filming locations.
*1 HDCP is not supported.

FEATURES

Features Tailored to 3D Filming

The LV 5382 can handle 3D content with its support for HD-SDI 2-channel simultaneous display and HDMI frame-packing, side-by-side, and top-and-bottom formats. The LV 5382 has a number of features that are useful for evaluating 3D content. The anaglyph display enables easy expression of stereoscopic vision. The variable grid display is for horizon and parallax checking. The vertical and horizontal reversal feature is necessary when using a mirror rig.

SDI and HDMI I/O Connectors and the SDI to HDMI Conversion Feature

The LV 5382 has two SDI input connectors, two reclocked SDI signal output connectors, an HDMI input connector, and an HDMI output connector. The HDMI output connector can actively transmit an HDMI input signal or output an HDMI signal that has been converted from an SDI signal.

High-Quality TFT LCD

The TFT display (XGA with a resolution of 1024 × 768 pixels), which has high color reproducibility, gives the display improved quality and enables you to use the LV 5382 as a picture monitor.

Rich Assortment of Display Features

Not only does the LV 5382 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. It can also be used for 2D filming in the same manner as previous models.

Rich Assortment of Waveform Features

The LV 5382 uses fully digital waveform display processing to achieve high precision and quality. The video signal waveform display has gain, sweep, and cursor measurement features, along with RGB and pseudo-composite display features. In addition to video signal waveforms, the LV 5382 can also display vectors, the Lissajous curves of embedded audio, and level meters.

Versatile Picture Display

The LV 5382 uses fully digital picture display processing to achieve high precision and versatility. The display has a number of adjustment features such as color temperature selection, brightness adjustment, contrast adjustment, gain adjustment, and bias adjustment. It also has monochrome, chroma up, gamut error, and safety marker display features.

Versatile Display Layouts

The LV 5382 has a 1-screen display in which the picture, video signal waveform, vector, or audio meter display can be displayed in a single screen, a multi-screen display in which these displays can be combined, and a 2-channel simultaneous display in which two SDI signals can be displayed simultaneously. Also, users can register up to four user layouts that specify preferred display locations and sizes.(*2)
*2 To create a user layout file, contact your local LEADER agent.

Standard-Equipped CINELITE II(*3)

The CINELITE feature makes it easy to manage the levels of specific 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
*3 This feature is not available for HDMI signals.

Screen Capture Feature
The display can be captured and stored as still-image data. The captured data can be displayed on the LV 5382. Additionally, it can be saved as bitmap files to USB memory, which makes it possible to view the data on a PC.

External Sync Input(*4)
The LV 5382 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.
*4 This feature is not available for HDMI signals.

Preset Feature
Up to 30 sets of panel settings can be registered as presets and loaded easily at a later time. Registration of settings that are used repeatedly can help you work more efficiently. In addition, the LV 5382 has a display mode preset feature that can be used to register the settings for each display—the video signal waveform display, vector display, and picture display. This makes it possible to use the displays according to different usage conditions.

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

Last Memory Feature
The LV 5382 always keeps a backup of the current settings. When the LV 5382 is restarted, it can be used with the same settings that were in use before it was turned off.

ID Display
IDs can be assigned to input signals. IDs are entered from the LV 5382 panel.

Stereo Headphone Output
The LV 5382 can deliver the embedded audio of an SDI signal or HDMI signal in stereo through the headphone output jacks.

OPTIONAL FEATURES AND PRODUCTS SOLD SEPARATELY

Remote and Tally Option (OP72, factory option)
The addition of the remote and tally option enables the LV 5382 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 5382 to a switcher or other device.

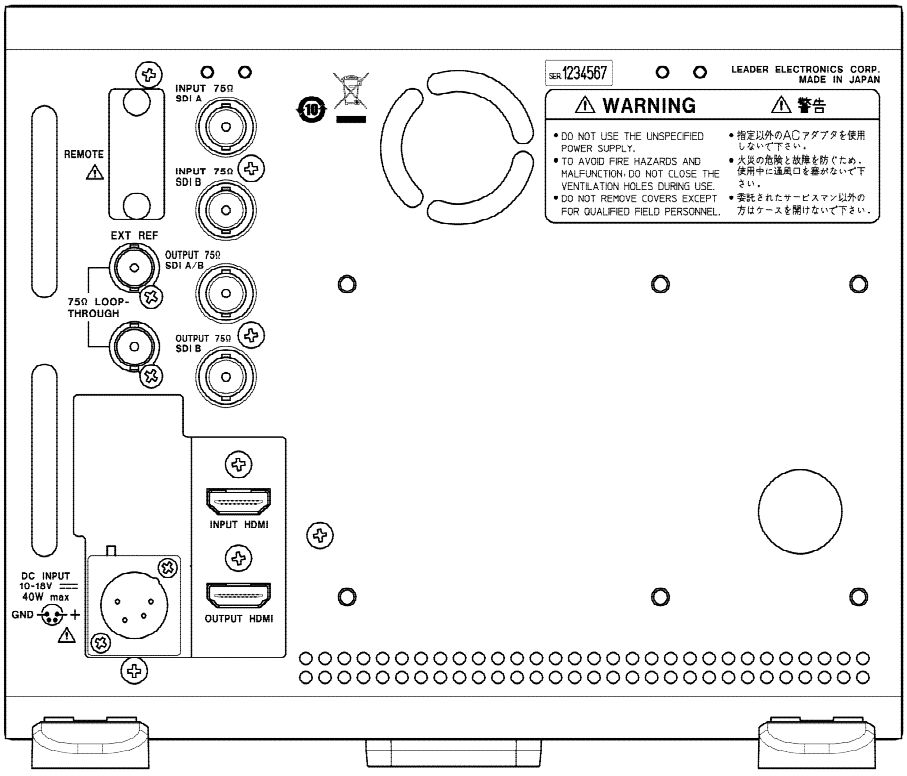
Battery Mount Option (OP73 or OP74, factory option)
The addition of the battery mount option enables the LV 5382 to use IDX (OP73) or Anton/Bauer (OP74) batteries.

AC Adapter (SPU63-105, sold separately)
An AC adapter is available.

Rack Mounting Adapter (LR 2751 I , sold separately)
By attaching the LV 5382 to these rack supports (sold separately), you can mount it on a rack. When mounted to a rack, the LV 5382 can still be tilted up or down.

Handle (LH 2140, sold separately)
This handle is useful for carrying the LV 5382.

Rear Panel



SPECIFICATIONS (LV 5382)

SDI Input Signal Formats and Standards

2D Mode (Single-link system)

Format	Quanti-zation	Scanning	Frame (Field) Rates	Corresponding Standards
YC_BC_R 4:2:2	10bit	1080i	60/59.94/50	SMPTE 274M SMPTE 292
		1080p	30/29.97/25/24/ 23.98	
		1080PsF*1	30/29.97/25/24/ 23.98	
		720p*2	60/59.94/50/30/ 29.97/25/24/23.98	SMPTE 292 SMPTE 296M
		525i	59.94	SMPTE 259M
		625i	50	

2D Mode (Dual-link system)

Format	Quanti-zation	Scanning	Frame (Field) Rates	Corresponding Standards
RGB 4:4:4	10bit	1080p	30/29.97/25/24/23.98	SMPTE 372 (1920×1080)
		1080PsF*1	30/29.97/25/24/23.98	
		1080i	60/59.94/50	
	12bit	1080p	30/29.97/25/24/23.98	
		1080PsF*1	30/29.97/25/24/23.98	
		1080i	60/59.94/50	
YC_BC_R 4:2:2	10bit	1080p	60/59.94/50	
	12bit	1080p	30/29.97/25/24/23.98	
		1080PsF*1	30/29.97/25/24/23.98	
		1080i	60/59.94/50	
RGB 4:4:4 (2K)	12bit	1080p*2	24/23.98	(2048×1080)
		1080PsF*2	24/23.98	

3D Assist Mode

Format	Quantization	Scanning	Frame (Field) Rates
YC_BC_R 4:2:2	10bit	1080i	60/59.94/50
		1080p	30/29.97/25/24/23.98
		1080PsF	30/29.97/25/24/23.98
		720p	60/59.94/50/ 30/29.97/25/24/23.98

*1 The HDMI output is interlaced.
You cannot output formats with frame rates of 24 Hz or 23.98 Hz as HDMI signals.

*2 You cannot output formats with frame rates of 24 Hz or 23.98 Hz as HDMI signals.

HDMI Input Signal Video Formats

2D Mode

Format	Quantization	Scanning	Frame (Field) Rates
RGB 4:4:4 YC_BC_R 4:2:2*3	12bit 10bit 8bit	1920x1080p	30/29.97/25/24/23.98
		1920x1080i	60/59.94/50
		1280x720p*4	60/59.94/50/30/29.97/25
		640x480p*5	60/59.94
		720x480p(525p)*5	60/59.94
		720x576p(625p)*5	50
		720x480i(525i)*4	60/59.94
		720x576i(625i)*4	50

3D Assist Mode

Format	Quantization	Scanning	Frame (Field) Rates
RGB 4:4:4*4 YC_BC_R 4:2:2	12bit*4 10bit 8bit	1920x1080i	60/59.94/50
		1920x1080p	30/29.97/25/24/23.98
		1280x720p	60/59.94/50/30/29.97/25

*3 The LV 5382 cannot distinguish between 8-bit, 10-bit, and 12-bit quantization.

*4 The signal is converted to a YC_BC_R 4:2:2 10 bit signal through internal processing.

*5 The pseudo-composite display, YC_BC_R to RGB conversion display, vector display, and 5-bar display are not available.

SDI/HDMI I/O Features

Input System Options: SDI / HDMI

SDI Input Features

SDI Input Display Modes :2D / 3D assist

2D Display Modes : Single input mode (Select channel A or B)
Dual input mode (Channels A and B are displayed simultaneously. You can select this mode in 2D display mode.)

3D Signal Formats: L/R dual, side by side, and top and bottom

Format Switching

SDI Single Link: Manual or automatic

SDI Dual Link : Manual (only the frame frequency can be switched automatically)

2D Dual Link Synchronization between Links A and B :
Must be synchronized and have the same format

Permissible 2D Dual Link Phase Difference between Links A and B:
Automatic correction up to 100 clocks (approx. 1.4 µs)

3D Dual L/R Synchronization between Links A and B:
Must be synchronized and have the same format

Permissible 3D Dual L/R Phase Difference between Links A and B:
Automatic correction up to 100 clocks (approx. 1.4 µs)

SDI Output Features

Output Signal: Serial reclocked input SDI signal (for monitoring)

HDMI Input Features

HDMI Input Identification: AUTO, 2D, and 3D assist

3D Signal Formats: Frame packing, side by side, and top and bottom

Format Switching: According to the AVI information frame

HDMI Output Features

Output Signal: Output of HDMI or SDI video and audio input signals (1080PsF/24, 23.98 and 720p/24, 23.98 cannot be output)

SDI-HDMI Conversion Features

Video Signal: Output an HDMI signal that has been converted from an SDI input signal

Audio Signal: Output the embedded audio through the HDMI output (up to 8 channels)

Format Conversion: RGB 4:4:4, YC_BC_R 4:4:4, and YC_BC_R 4:2:2 (there is no resolution conversion)

Deep Color Support:8 bit, 10 bit, and 12 bit

3D Signal Conversion Features

SDI L/R Dual Input: HDMI frame packing output

SDI Side-by-Side Input:
HDMI half side-by-side output

SDI Top-and-Bottom Input:
HDMI top-and-bottom output

SDI Signal Audio Format

SDI Standards

HD-SDI: SMPTE-299

SD-SDI: SMPTE-272M

Formats: L-PCM

Sampling Frequency: 48 kHz

Quantization: 24 bit

Clock Generation: Generated from the video clock

Synchronization: All audio signals must be synchronized to the video clock.

Number of Channels: 8 channels

Input Signal Combination

Single Input Mode: Eight channels displayed

Dual Input Mode : 4 channels × 2-channel simultaneous display

* When the link format is set to SDI dual, the LV 5382 only supports the audio signal received through link A.

HDMI Signal Audio Format

Formats: L-PCM

Sampling Frequency: 48 kHz

Quantization: 16 bit,20 bit,24 bit

Synchronization: All audio signals must be synchronized to the video clock

Number of Channels: 8 channels

Input/Output Connectors

SDI Input

Input Connectors: Two BNC connectors

Input Impedance: 75 Ω

Input Return Loss: ≥ 15 dB for 5 MHz to the serial clock frequency

Maximum Input: ±2 V (DC + peak AC)

SDI Output

Output Connectors: Two BNC connectors

A/B output connector: Outputs the signal from the selected input channel (A or B)

B output connector: Outputs the signal from channel B

Output Impedance: 75 Ω

- Output Voltage: 800 mVp-p ± 10 %
- Output Return Loss: ≥ 15 dB for 5 MHz to the serial clock frequency
- HDMI Input
  - Input Connector: One type A connector
  - HDCP: Not supported
  - CEC: Not supported
  - xvYCC: Not supported
  - Lip-sync: Not supported
  - HEAC: Not supported
- HDMI Output
  - Output Connector: One type A connector
  - Output Signa(*6): Active output of the HDMI input signal
    It is also possible to convert and output an SDI input signal (including 8 channels of embedded audio).
    - One Input : The selected SDI input (channel A or B) is output as an HDMI signal.
    - Two Inputs: An SDI input must be manually selected
    - 3D Assist : Frame packing, side by side, and top and bottom
  - HPD: Supported (output is cut off if no sink device is connected)
- External Sync Input(*7)
  - Feature: A video signal waveform is displayed that is based on the phase of the external sync signal. (Only available for SDI signals.)
  - Input Signal: Tri-level sync or NTSC/PAL black burst signal
  - Input Connectors: Two BNC connectors
  - Input Impedance: 15 kΩ passive loop-through
  - Input Return Loss: ≥ 30 dB for 50 kHz to 30 MHz into 75 Ω
  - Maximum Input Voltage: ±5 V (DC + peak AC)
- Headphone Output
  - Output Signal: Extracts and transmits the audio signal embedded in an SDI signal or HDMI signal.
  - Output Channel: Specified AES/EBU pair
  - Output Connector: One stereo miniature jack
  - Volume Adjustment: Configured from the menu
  - Power Output: 50 mW max. (with 16 Ω load resistance)

*6 For some formats, the LV 5382 internally converts the RGB 4:4:4 signal to YC_BC_R 4:2:2 and then reconverts the signal to RGB 4:4:4 before outputting it.

*7 If 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. Also, this feature does not function with 1080p/60, 59.94, 50 SDI signals or HDMI signals.

Control Connectors

- USB Port
  - Specification: USB 2.0
  - Media: Only USB memory devices are supported.
  - Features: Saving of screen captures, preset data, event logs, and data dumps and firmware updates
- Remote Control Connector (When an OP72 is installed)
  - Features: Comprehensive preset recall,(*8) tally display, and input signal selection (either the tally display feature [green] or the HDMI selection feature can be selected)
  - Control Signal: LV-TTL level (low active)
  - Control Connector: 15-pin D-sub (female)
  - Input Voltage Range: 0 to 5 V
  - Number of Presets: Eight presets (bits) or 30 presets (binary)
  - Input Signal Selection: Switch the input between channel A or B of an SDI signal and an HDMI signal
  - Tally Indication: Display red and green tallies independently or simultaneously
  - Alarm Output: The alarm signal is used to indicate errors
    - Output Signal: LV-TTL level (active-low or active-high can be selected)
    - Minimum Pulse Width: 1 s

*8 Display mode presets cannot be recalled.

LCD

- LCD Panel Type: 8.4-inch color TFT
- Display Format: XGA. The effective resolution is 1024 × 768
- Backlight Brightness: 32 levels
- Auto Shutoff: LCD can be automatically turned off after a set period of time.

Screen Capture

- Screen Capture: Captures the screen to an image file (only one screen capture is stored in internal memory)
- Media: Internal memory (RAM) and USB memory
- Data Output: Screen captures can be saved as bitmap files to USB memory.
- Data Input: Data saved to USB memory can be loaded and displayed on the LV 5382.

Preset

- Preset Mode: Comprehensive preset, display mode preset
  - Comprehensive Presets: Saves all panel settings to memory (excluding some settings, such as the date and time)
  - Display Mode Presets: Only saves the configuration of a particular display mode to memory
- Number of Presets
  - Comprehensive Presets: 30
  - Display Mode Presets: Five for each display mode
- Recall Method: Front panel, remote control connector (when an OP72 is installed)
- Copying: Copies all preset configurations to or from USB memory

Main Display Features

- SDI Input Modes: Single input mode, simultaneous input mode, 3D assist mode
  - Single Input Mode: Displays a single input signal
  - Dual Input Mode: Displays up to two input signals of the same format simultaneously
  - 3D Assist Mode: Displays two input signals of the same format simultaneously
- HDMI Input Modes: 2D mode and 3D assist mode
  - 2D Mode: Displays the HDMI input signal as a single video signal
  - 3D Assist Mode: Divides the HDMI input signal into two video signals and displays the signals in a variety of formats so that the signals can be compared as components of a 3D video signal
- Dual Input Mode Display Formats: Mixed, tiled, aligned (differs depending on the displayed contents)
  - Mixed: Two input signals are displayed on top of each other.
  - tiled: Two input signals are displayed in separate areas.
  - aligned: Two input signals are displayed side by side.
- Display Sizes: One-screen display, two-screen display, four-screen display, user layout
  - One-Screen Display: Displays a single, large screen (the thumbnail display can be turned on and off)
  - Two-Screen Display: Splits the display into two screens (left and right)
  - Four-Screen Display: Splits the display into four screens
- User Layout
  - User Layout: Displays the user-defined layout
  - Number of User Layouts: Four (two for single input mode and two for simultaneous input mode)

Video Signal Waveform Display

- Simultaneous Input Mode Display Forma: Mixed(*9), tiled, aligned
- Waveform Operations
  - Display Modes
    - Overlay: Overlay, parade
    - Parade: Displays component signals side by side
  - Blanking Interval: H and V blanking periods can be displayed or hidden.

RGB Conversion: Converts a YC_BC_R signal into an RGB signal and displays the result
Pseudo-Composite Display: Artificially converts a component signal into a composite signal
Channel Assignment: Displayed in GBR or RGB order (selectable when RGB conversion is enabled)
Line Select: Displays the selected line
Sweep Modes: H (line), V (field/frame) (V cannot be selected in simultaneous input mode)
Line Display: ×1, ×10, ×20, ACTIVE, BLANK
Frame or Field Display: ×1, ×20, ×40
Gain: ×1, ×5
Variable: Gain ×0.2 to ×2.0
Filter: Flat, low pass

Waveform Display Accuracy
Amplitude Accuracy: ±0.5 %
Frequency Response
HD-SDI
Y Signal: ±0.5 % for 1 to 30 MHz
C_BC_R Signal: ±0.5 % for 0.5 to 15 MHz
Low-Pass Attenuation: ≥ 20 dB (at 20 MHz)
SD-SDI
Y Signal: ±0.5 % for 1 to 5.75 MHz
C_BC_R Signal: ±0.5 % for 0.5 to 2.75 MHz
Low-Pass Attenuation: ≥ 20 dB (at 3.8 MHz)

Cursor Measurement
Composition: Two horizontal cursors (REF and DELTA)
Two vertical cursors (REF and DELTA)
Amplitude Measurement: %, V, or R%
Time Measurement: Displayed in µsec or msec
Frequency Display: Computes and displays the frequency with the length of one period set to the time between two cursors

Scale
Type: % scale, V scale, decimal scale, hexadecimal scale
Display Color: 7 colors

Thumbnail Display: Picture, audio level meter

*9 In dual input mode and 3D assist mode, the waveform display will flicker when the input video signal has a field or frame rate of 50, 25, 24, or 23.98 Hz.

Vectorscope Display

Dual Input Mode Display Formats: Mixed(*10), tiled
Blanking Interval: Masked
Pseudo-Composite Display: Artificially converts a component signal into a composite signal
Colorimetry: ITU-R709 / ITU-R601 slectable(YC_BC_R)
Line Select: Displays the selected line
Gain: ×1, ×5, IQ-MAG
Variable Gain: ×0.2 to ×2.0
Amplitude Accuracy: ±0.5 %

Scale
Setting the Color Bar Saturation: 75 %, 100 %
IQ Axis: Show, hide
Display: Color 7 colors

Thumbnail Display: Picture, audio level meter

*10 In dual input mode and 3D assist mode, the waveform display will flicker when the input video signal has a field or frame rate of 50, 25, 24, or 23.98 Hz.

5Bar Display

Simultaneous Input Mode Display Format: Tiled only
Function: Displays the peak levels of Y, R, G, B and composite
Channel Assignment: RGB, GBR
Scale: mV, %
Error Level: Based on the gamut error, composite gamut error, and luminance errorthresholds
Line Select: Displays the selected line
Thumbnail Display: picture, audio level meters

Picture Display

Dual Input Input Mode Display Format: Mixed, tiled
Quantization: 8 bit
Color Temperature: 6500 K, 9300 K
Image Quality Adjustment: Brightness, contrast, chroma gain, RGB gain, RGB bias, aperture
Display Sizes: Fit, full frame, real, 4:3 full screen
Color Selection: R, G, B can be turned off separately. Chroma off
Frame Rate: The frame rate is converted and displayed using the internal sync signal

Aspect Marker
HD-SDI: 4:3, 13:9, 14:9, 2.39:1
SD-SDI: 13:9, 14:9, 16:9

Aspect Marker Format: Line, shadow (99 levels), mask
Safety Marker Size: ARIB TR-B4, SMPTE RP-218, user-defined
Line Select: Marks the selected line
Gamut Error Display: Displays gamut error locations over the picture
Thumbnail Display: video signal, audio level meters, histogram

Histogram Display
Features: Displays the Y, R, G, and B histograms
Display Formats: Overlay and parade

3D Assist Display

Supported Format
SDI input: L/R dual, side by side, and top and bottom (only supported with a single link)
HDMI input: Frame packing, half side by side, and top and bottom

Channel Assignment for SDI L/R Dual Input
Left Eye Video: Channel A
Right Eye Video: Channel B

Picture Display
Anaglyph Display(Color): Green and blue are masked from the video signal for the left eye, and red is masked from the video signal for the right eye. These signals are then combined.
Anaglyph Display (Monochrome): Green and blue are masked from the monochrome video signal for the left eye, and red is masked from the monochrome video signal for the right eye. These signals are then combined.
Convergence Display: The monochrome left eye video signal is added to a monochrome right eye video signal that has had its levels reversed, and a 50% offset is added.
Overlay Display: The levels of the video signal for the left eye and the video signal for the right eye are halved. These signals are then combined.
Checker Display: The left eye video signal and the right eye video signal are displayed in a checkerboard pattern.
Wipe Display: The left eye video signal and the right eye video signal are divided by boundary lines and displayed
Left-Right Boundary: The portion to the left of the boundary line is the left eye video signal, and the portion to the right of the boundary line is the right eye video signal.
Top-Bottom Boundary: The portion above the boundary line is the left eye video signal, and the portion below the boundary line is the right eye video signal.
Boundary Line Movement: Individual boundary lines can be moved horizontally and vertically.

Boundary Line Marker: ON or OFF
Flicker Display: The left eye video signal and the right eye video signal are displayed on a time sharing display.
Inverted Display
Horizontal Inversion: Inverts the picture and video signal waveform (*11)
Vertical Inversion: Inverts the picture
Inverted Channel: Inverts each channel
Grid Display: Displays grid lines on the picture
Grid Type: Disparity, horizontal, both
Disparity grid width: 6 to 192 pix (0.3 to 10.0 %)
Horizontal grid width: 6 to 108 line (0.6 to 10.0 %)
Grid Position: Can be moved horizontally and vertically
Disparity Measurement Feature
Feature: Position the cursor at a point in the picture to measure the disparity and luminance level at that point
Alarm: If the upper limit is exceeded, “NG” (no good) is displayed.
Measurable Items: Screen disparity (dots, cm, %), perceived depth (m), angle of vergence (°)
Video Signal Waveform Display
Display Format: Mixed, tiled
Waveform Display Color: Video Signal for the Left Eye Red
Video Signal for the Right Eye Syan
Wipe Feature: L/R wipe(Mixed only)
Histogram: The L/R signals are displayed on top of each other
Time Code: The time codes for the video signal for the left eye and the video signal for the right eye are displayed at the same time.

*11 Horizontal inversion of the video signal waveform occurs only during the video period.

CINELITE Display

CINELITE Display
Features: f Stop display, percentage display, and gradient display
f Stop Display : The f Stop value relative to a reference point is displayed.
f Stop Gamma Correction
Fundamental Gamma: 0.45 (ITU-R BT709)
User Correction Table: 3 types
External Correction Table: 5 types (loaded from USB memory)
% Display: Luminance or RGB components are displayed as percentages.
Gradient Display : RGB components are displayed using an 8-bit, 256-step gradient.
Measured Points : 3 points
Measurement Sizes : 1 × 1 pixel, 3 × 3 pixels, and 9 × 9 pixels
CINEZONE Display
Feature: Colors are added to the display in accordance with luminance levels
Display Colors
Gradation: 1024 colors
Step: 12 colors
Search: Monochrome + 3 colors
Gradation and Step Displays
Upper Limit: -6.3 to 109.4 % (values equal to or greater than the upper limit are displayed in white)
Lower Limit: -7.3 to 108.4 % (values less than the lower limit are displayed in black)
Search Display Mode
Feature: The specified luminance level ±0.5 % is displayed using green on an otherwise monochrome picture display
Luminance Level: -7.3 to 109.4 %
Upper Limit: -6.3 to 109.4 % (values equal to or greater than the upper limit are displayed in red)
Lower Limit: -7.3 to 108.4 % (values less than the lower limit are displayed in blue)

* The CINELITE feature is not available for HDMI signals.

Embedded Audio Display

Dual Input Input Mode Display Format: Tiled only
Display Type: Level meter, Level values, Lissajous
Level Meter Display
Displayed Channels: 2ch or 8ch
Meter: 60 dB peak level, 90 dB peak level, average(The peak level meter has a hold feature.)
Numeric Display: Displays volume levels as dB values
Lissajous Display
Displayed Channels: Two (single), eight (multi)
Display Mode: X-Y, MATRIX
Channel Selection
SDI single Input Mode: Any two groups from groups 1, 2, 3, and 4
SDI Dual Input Mode : One group and four channels per input channel
HDMI Input: Up to 8 channels

SDI Error Counting

Feature: Counts the video, audio, and gamut errors in an SDI signal (not available for HDMI input)
Video Errors: Counts CRC (HD-SDI) and EDH (SD-SDI) errors
Audio Errors: Counts embedded audio BCH (HD-SDI) and channel status bit CRC errors
Gamut Error: Counts gamut, composite gamut, and luminance level errors
Low-Pass Filter: ON or OFF(HD:1 MHz / 2.8 MHz, SD: 1MHz)
Detection Range
Gamut Error
Upper Limit: 90.8 to 109.4 %
Lower Limit: -7.2 to 6.1 %
Composite Gamut
Upper Limit: 90.0 to 135.0 %
Lower Limit: -40.0 to 20.0 %
Luminance Error: Detects level errors in the luminance component
Error Count: Up to 999999 errors can be counted separately for video, audio, and gamut.
Count Period: One count per field
Current Time Display: The time according to the internal clock
Elapsed Time Display: The elapsed time since the error count was cleared

SDI Status Display

Error Detection
Monitoring Feature: Regardless of the input mode, you can monitor two inputs simultaneously (not available for HDMI input)
SDI: Detects the presence of an SDI signal
Video
CRC Error: Detects HD-SDI signal transmission errors
EDH Error: Detects SD-SDI signal transmission errors
Phase Error: When the link format is set to dual, the LV 5382 detects phase errors between link A and link B
Audio
CRC Error: Detects CRC errors in channel status bits
BCH Error: Detects transmission errors in the audio packets that are embedded in HD-SDI signals
Gamut
Gamut Error: Detects gamut errors
Composite Gamut Error: Detects level errors that occur when component signals are converted to composite signals
Luminance Error: Detects level errors in the luminance component
Event Log
Recorded Events: Errors, changes in input type, time stamps, etc.
Recording Capacity: Up to 1000 events
Operation: Records all events from start to finish
Data Output: Saved in text format to USB memory

Data Dump
- Operation Mode: Run, hold
- Data Array
  - Single Link Mode: Serial, component
  - Dual Link Mode: Link A, link B, link A and B combined
- Move: EAV, SAV, line, sample

Phase Difference Display
- Function: Displays the phase difference between the external sync signal and the SDI signal (does not function when the video format is 1080p/60, 59.94, or 50)
- Reference Phase: No phase difference when connected directly to a LEADER TSG
- Reference Phase Correction: Sets the current state to the reference phase

Other Display Settings

- Input Information Display: Input channel, ID
  - Input Channel Display: Displays the selected channel (A, B, or HDMI)
  - ID Display: Up to 10 characters for each input channel
- Time Code: LTC, VITC, OFF
  - Compliant Standard: SMPTE 12M-2 (decoded from ANC-TC)(When the link format is set to dual, only link A is decoded.)
  - Format Display: The format can be displayed when an SDI or HDMI signal is detected.

Front Panel

- Key LEDs: All the keys are dimly back-lit, and the selected key is lit more brightly
- Power Switch: Power Switch Stores whether the instrument is on or off
- Last Memory: Backs up the panel settings to memory

Battery Mount (Option)

- Available Mounts: V-type mount (OP73) or a QR Gold Mount (OP74)
- Power Requirements: 10 to 18 DCV
- Rated Battery Power: 40 W or higher
- Level Meter: Four level display, from empty to full
- How the Power Supply Is Selected(*12): When a power supply is connected to the DC INPUT connector, power from DC INPUT is prioritized.

*12 When you switch between a DC power supply and a battery, the LV 5382 may restart.

General Specifications

- Environmental Conditions
  - Operating Temperature Range: 0 to 40 °C
  - Operating Humidity Range: 85 %RH or less (no condensation)
- Power Supply
  - Voltage: 10 to 18 VDC
  - Power Consumption: 40 W max.
- Dimensions: 215 (W) x 176 (H) x 85 (D) mm (excluding projections)
  215 (W) x 176 (H) x 118 (D)mm (with OP73, excluding feet)
  215 (W) x 176 (H) x 110 (D)mm (with OP74, excluding feet)
- Weight: 2.1 kg (without options or with OP72)
  2.4 kg (OP73,OP74)
- Accessories: Instruction manual x 1
  VESA spacer x 1
  15-pin D-sub connector(OP72) x 1
  15-pin D-sub connector cover(OP72) x 1

Option Sold Separately

- AC adapter: SPU63-105
- Rack Mounting Adapter: LR 2751
- Handle: LH 2140

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