VIDEO MULTI SDI RASTERIZER

Low-Cost Multi SDI Rasterizer



LV 7330 MULTI SDI RASTERIZER

GENERAL

The LV 7330 is a highly functional, compact, light-weight SDI rasterizer that boasts exceptional cost performance.

When the LV 7330 is connected to an external XGA monitor, it can display the picture of an HD-SDI or SD-SDI signal in addition to video signal waveforms, vectors, audio data, and data analyses of the signal. The LV 7330 also comes standard-equipped with CINELITE II, a convenient tool for analyzing luminance data.

FEATURES

SDI I/O

The LV 7330 has two SDI input connectors that can be used for both HD-SDI and SD-SDI input. It also has an SDI output connector that you can use to send a reclocked SDI signal.

DVI Output

The various LV 7330 displays are transferred through a DVI-I connector to an XGA (1024 × 768) display. The LV 7330 also uses a squeeze method to support aspect ratios of 16:9 (1366 × 768) and 15:9 (1280 × 768).

CINELITE II The LV 7330 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 overexposure, underexposure, and different luminance levels in dark areas.

Picture Display

The LV 7330 has a wide assortment of SDI signal picture display features including zoom, various safety markers, and brightness, contrast, and chroma adjustment. The LV 7330 also supports CEA/EIA-608 closed captioning and superimposition.

Video Signal Waveform Disp

The LV 7330 uses fully digital waveform display processing to achieve high precision and quality. From video signal waveform display gain expansion, sweep expansion, and cursor measure-ment to pseudo-composite and RGB displays, the LV 7330 has all of the features that people look for in a waveform monitor. The LV 7330 is equipped with an external sync signal input and it can display video signal waveforms based on a tri-level sync signal or an NTSC or PAL black burst signal.

Vector Display

The LV 7330 can display component chrominance signal vectors. The amplitude can be manually zoomed, or set to a fixed magnifi-cation value such as five. The IQ axes, which are useful for vector observation, can be turned on and off.

5 Bar Displa

The LV 7330 can display the peak levels of the Y, R, G, B and pseudo-composite signals. This feature is useful for monitoring gamut errors.

Audio Di

The LV 7330 can extract the audio signal embedded in an SDI signal and display level meters, Lissajous curves, and surroundsound images for up to eight channels. The LV 7330 also supports external digital audio input, for which it can display a two-channel level meter and Lissajous curves. The level meter supports loudness metering and is useful for managing the volume level experienced by the listener.

The resolution of SD-SDI audio quantization is up to 20 bits.

Stereo Headphone Output The LV 7330 can extract the audio signal embedded in an SDI signal. You can select two channels from the extracted audio and transmit them in stereo through the headphone output connector.

Status Display

The status display has a number of advanced features, including SDI signal error detection and analysis features. Time Code Display

The LV 7330 can decode SMPTE RP-188 time codes (LTC or VITC) and display them. These codes can be used as timestamps in the event log.

Screen Capture

The display can be captured. Captured displays can be viewed or superimposed over an input signal. Captured displays can be saved in internal memory (RAM) or USB memory or sent to a PC through an Ethernet connection as bitmap data.

The LV 7330 can remember up to 30 frequently used setting configurations. The configurations can be recalled easily from the front panel or using commands sent through the Ethernet or remote connector.

Remote Connector

You can recall presets by sending commands through the remote connector. Also, a tally light can be displayed on the screen.

Ethernet Connector (I From a PC connected to the LV 7330 through the Ethernet connector, you can recall presets, execute panel operations, transfer files, and monitor errors.

Last Memo

The LV 7330 backs up the current settings so that you can use the same settings that you were using before immediately after powering it up.

The LV 7330 has an XLR DC input connector and runs on a 12-VDC power supply.

SPECIFICATIONS IV 7330

SPECIFI	CAT	ONS		LV 7330	
/ideo Signal F	ormats	and Cor	responding Standa	ards	
Single Link S					
Color System	Quantization	Scanning	Format Frame(Field) Rate	Corresponding Standards	
		1080i	60/59.94/50	SMPTE 274M	
		1080p	30/29.97/25/24/23.98	SMPTE 292M SMPTE RP211	
Y, C _B , C _R 4:2:2	10 bits	1080PsF	30/29.97/25/24/23.98 60/59.94/50/	SMPTE 292M SMPTE 296M	
		720p 525i	30/29.97/25/24/23.98 59.94	SMPTE 292M	
		625i	50	SMPTE 259M	
(only link A is	support	ed for dua	al link)		
Color System	Quantization	Scanning	Format Frame(Field) Frequenc	Corresponding Standard	
	10 bits	1080p 1080PsF	30/29.97/25/24/23.98 30/29.97/25/24/23.98		
GBR 4:4:4	TO DILS	1080i	60/59.94/50		
GBR IIII	12 bits	1080p 1080PsF	30/29.97/25/24/23.98 30/29.97/25/24/23.98	SMPTE 372M	
	10 bits	1080i 1080p	60/59.94/50 60/59.94/50	(1920x1080)	
Y, C _в , C _в 4:2:2		1080p	30/29.97/25/24/23.98		
., 02, 0n 7.2.2	12 bits	1080PsF 1080i	30/29.97/25/24/23.98 60/59.94/50	_	
Format Setti	ng:		e set automaticall	y based on the	
		corres	ponding format or s	set manually (Se	
			ally for dual link)		
Supported Samplin	g Frequenci		.25 MHz or 74.25/1	.001 MHz	
External Sum	C '		.5 MHz natically set from the	e corresponding	
External Sync:		format		e correspondinț	
udio Playbad	k				
Compliant St		HD:SN	/IPTE-299M, SD:SN	/IPTE-272M	
Sampling Fre	equency		lz (must be synch	nronized to the	
•		video	o ,		
Quantization			bits, SD:20 bits		
Synchronizat	uon:		dio channels must l video clock.	be synchronized	
Channel Sep	aration		video clock. Ips of 8 channels ar	e selectable.	
nput/Output (-			
SDI Input					
Input Conn	ector:	2 BNC	2 BNC connectors (A/B switching)		
Input Impe		75 Ω	75 Ω \geq 15 dB for 5 MHz to the serial clock fre-		
Input Retu	rn Loss:			serial clock fre-	
Maximum In	nut Volto	quenc +2V/(Г	y)C + peak AC)		
External Refe	•	•	o + peak AO		
Input Signa		•	el sync or NTSC/F	PAL black burs	
		signal	2		
Input Conn			of BNC connectors		
			difference is displayed u ase one clock before or		
inserted or the p	oower is tur				
AES/EBU Inp Input Conn			connector		
Supported					
Sampling F					
SDI Output					
Output Cor	nnector		connector		
			cks and transmits t	he selected SD	
Outrast		input :	signal		
Output Imp			Vp p + 10.0/		
Output Voli Headphone (-	800 m	Vp-p ± 10 %		
Output Sig	•	The IA	7330 extracts and	transmits the au-	
e alpert olg			nal embedded in an		
		Ŭ	chronized to the vid	o .	
Output Cor			.3-mm (1/4 in.) ster	eo jack	
	-		jured in the menu		
Impedance		32 Ω (16 to 600 Ω)		
Control Conne					
USB Connec Function:	tor	llead	to save scroop o	antures over	
r uncuon:			to save screen c preset data, and dat	•	
Specificati	ons:	USB 2		a dumps	
Media:			o ISB memory devices	s are supported.	
Remote Con	nector	,	,		
Function:		Used	to recall presets,	display a tally	

	light, and switch input channels (A/B)
Control Signal:	TTL level (active-low logic)
Control Connector: Ethernet (Future)	15-pin D-sub (female)
Function:	Used to control the LV 7330 from a PC
O a mar l'ant Otan dand	and monitor errors and other events
Compliant Standard: Input/Output Connectors	IEEE802.3 :1 BJ-45 connector
Туре:	10Base-T/100Base-TX
	(automatic switching)
Display Form 1 Screen Display:	Picture display, CINELITE display, CIN-
	EZONE display, video signal waveform
	display, vector display, status display, or audio display
2 Screen Display:	Picture display and video signal wave-
	form display
	Video signal waveform display and vector display
	Video signal waveform display and
	picture display
	Video signal waveform display and audio level display
	Audio waveform display and level meter
4 Screen Display:	display Select audio level display or status dis-
- ocicen Display.	play in addition to video signal waveform
	display, vectorscope display, and picture
Format Display:	display Displays the video signal format at the
	top of the screen.
Color System Display:	Displays the video signal color system at
Date Display:	the top of the screen. Displays the date according to the inter-
	nal clock at the top of the screen
Time or Time Code Display:	Displays the time according to the inter- nal clock or a time code at the top of the
	screen
Screen Capture Function:	Captures the screen
Screen Capture Function: Display:	Captures the screen Displays the captured image or superim-
Function:	Displays the captured image or superim- poses the captured image over the input
Function:	Displays the captured image or superim-
Function: Display:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in
Function: Display: Media:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory.
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Function: Display: Media:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load.
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Function: Display: Media: Data Output:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC.
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Function: Display: Media: Data Output: Data Input: Presets Settings	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330.
Function: Display: Media: Data Output: Data Input: Presets Settings Number of Presets:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330.
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Function: Display: Media: Data Output: Data Input: Presets Settings Number of Presets: Recall Method:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330.
Function: Display: Media: Data Output: Data Input: Presets Settings Number of Presets: Recall Method: Copying:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330. 30 Front panel or remote connector or Eth- ernet command (The number of presets recalled from the remote connector can be 8 or 30.) Preset configurations can be copied as a group to or from USB memory.
Function: Display: Media: Data Output: Data Input: Presets Settings Number of Presets: Recall Method: Copying: Video Signal Waveform	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330. 30 Front panel or remote connector or Eth- ernet command (The number of presets recalled from the remote connector can be 8 or 30.) Preset configurations can be copied as a group to or from USB memory.
Function: Display: Media: Data Output: Data Input: Presets Settings Number of Presets: Recall Method: Copying:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330. 30 Front panel or remote connector or Eth- ernet command (The number of presets recalled from the remote connector can be 8 or 30.) Preset configurations can be copied as a group to or from USB memory.
Function: Display: Media: Data Output: Data Output: Data Input: Presets Settings Number of Presets: Recall Method: Copying: Video Signal Waveform Waveform Operations Display Modes Overlay:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330. 30 Front panel or remote connector or Eth- ernet command (The number of presets recalled from the remote connector can be 8 or 30.) Preset configurations can be copied as a group to or from USB memory. Display Overlays component signals.
Function: Display: Media: Data Output: Data Output: Data Input: Presets Settings Number of Presets: Recall Method: Copying: Video Signal Waveform Waveform Operations Display Modes Overlay: Parade:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330. 30 Front panel or remote connector or Eth- ernet command (The number of presets recalled from the remote connector can be 8 or 30.) Preset configurations can be copied as a group to or from USB memory. Displays
Function: Display: Media: Data Output: Data Output: Data Input: Presets Settings Number of Presets: Recall Method: Copying: Video Signal Waveform Waveform Operations Display Modes Overlay:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330. 30 Front panel or remote connector or Eth- ernet command (The number of presets recalled from the remote connector can be 8 or 30.) Preset configurations can be copied as a group to or from USB memory. Display Overlays component signals. Displays component signals. Displays component signals. Uses a bowtie signal.
Function: Display: Media: Data Output: Data Output: Data Input: Presets Settings Number of Presets: Recall Method: Copying: Video Signal Waveform Waveform Operations Display Modes Overlay: Parade: Timing: Blanking Period:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330. 30 Front panel or remote connector or Eth- ernet command (The number of presets recalled from the remote connector can be 8 or 30.) Preset configurations can be copied as a group to or from USB memory. Display Overlays component signals. Displays component signals. Displays component signals. Show or hide
Function: Display: Media: Data Output: Data Output: Data Input: Presets Settings Number of Presets: Recall Method: Copying: Video Signal Waveform Waveform Operations Display Modes Overlay: Parade: Timing:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330. 30 Front panel or remote connector or Eth- ernet command (The number of presets recalled from the remote connector can be 8 or 30.) Preset configurations can be copied as a group to or from USB memory. Display Overlays component signals. Displays component signals. Displays component signals. Uses a bowtie signal.
Function: Display: Media: Data Output: Data Output: Data Input: Presets Settings Number of Presets: Recall Method: Copying: Video Signal Waveform Waveform Operations Display Modes Overlay: Parade: Timing: Blanking Period: RGB Conversion:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330. 30 Front panel or remote connector or Eth- ernet command (The number of presets recalled from the remote connector can be 8 or 30.) Preset configurations can be copied as a group to or from USB memory. Display Overlays component signals. Displays component signals side by side. Computes and displays Y-C _B and Y-C _B . Uses a bowtie signal. Show or hide Converts a Y,C _B ,C _R signal into an RGB signal and displays the result. Artificially converts component signals into
Function: Display: Media: Data Output: Data Output: Data Input: Presets Settings Number of Presets: Recall Method: Copying: Video Signal Waveform Waveform Operations Display Modes Overlay: Parade: Timing: Blanking Period: RGB Conversion: Pseudo-Composite Display:	Displays the captured image or superim- poses the captured image over the input signal Internal memory (RAM) and USB memory Only one screen capture can be stored in the internal memory. Screen captures can be saved as bitmap files or in a file format that the LV 7330 can load. They can be saved to USB memory or transmitted through an Ethernet and saved on a PC. Data saved to USB memory can be load- ed and displayed on the LV 7330. 30 Front panel or remote connector or Eth- ernet command (The number of presets recalled from the remote connector can be 8 or 30.) Preset configurations can be copied as a group to or from USB memory. Display Overlays component signals. Displays component signals side by side. Computes and displays Y-C _B and Y-C _B . Uses a bowtie signal. Show or hide Converts a Y,C _B ,C _R signal into an RGB signal and displays the result.

Channel Acciment	
Channel Assignment:	In RGB conversion display, the order can
	be set to GBR order or RGB order.
Line Select:	Displays the selected line.
Sweep Modes:	H and V
Vertical Axis	
Gain:	×1 or ×5
Variable Gain:	×0.2 to ×2.0
Amplitude Accuracy:	
HD Frequency Chara	cteristics
Y Signal:	±0.5 % for 1 to 30 MHz
C _B ,C _R Signals:	±0.5 % for 0.5 to 15 MHz
Low-Pass Attenuation:	≥ 20 dB (at 20 MHz)
SD Frequency Chara	cteristics
Y Signal:	±0.5 % for 1 to 5.75 MHz
C _B ,C _R Signals:	±0.5 % for 0.5 to 2.75 MHz
Low-Pass Attenuation:	≥ 20 dB (at 3.8 MHz)
Horizontal Axis	
Line Display:	×1, ×10, ×20, ACTIVE, or BLANK
Field Display:	×1, ×20, or ×40
Cursor Measurement	
Composition	
Horizontal Cursors:	2 (REF and DELTA)
Vertical Cursors:	2 (REF and DELTA)
Amplitude Measurement:	
Time Measurement:	
Frequency Display:	Computes and displays the frequency
	with the length of one period set to the
	time between two cursors.
Scale	uno between two cursors.
	% or V
Type: 75 % Marker:	%, or V
15 % Warker:	Displays where the location of the peak
	of a 75 % color bar chrominance signal
Disals 0.1	would be.
Display Colors:	7 colors to choose from
Vector Display	
Gain:	×1, ×5, or IQ-MAG
Variable Gain:	×0.2 to ×2.0
Amplitude Accuracy:	±0.5 %
Blanking Period:	Masked
Scale	75 0/ 100 0/ /
Туре:	75 % or 100 % (color bar)
IQ Axis:	Show or hide
Display Colors:	7 colors to choose from
Line Select:	Displays the selected line
Pseudo-Composite:	Artificially converts component signals
	into composite signals and displays the
	into composite signals and displays the result.
5 Bar Display	
5 Bar Display Function:	
	result. Displays five peak levels: those of the Y, R, G, B and composite signals.
	result. Displays five peak levels: those of the Y, R,
Function:	result. Displays five peak levels: those of the Y, R, G, B and composite signals.
Function:	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos-
Function: Error Level:	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings.
Function: Error Level:	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors
Function: Error Level:	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as
Function: Error Level: Filter:	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line
Function: Error Level: Filter: Line Select:	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line
Function: Error Level: Filter: Line Select: Phase Difference Displa	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line
Function: Error Level: Filter: Line Select: Phase Difference Displa	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line y Displays the phase difference between
Function: Error Level: Filter: Line Select: Phase Difference Displa	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line Displays the phase difference between an SDI signal and the external sync sig-
Function: Error Level: Filter: Line Select: Phase Difference Displa Display:	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line Displays the phase difference between an SDI signal and the external sync sig-
Function: Error Level: Filter: Line Select: Phase Difference Displa Display: Display Range	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line y Displays the phase difference between an SDI signal and the external sync sig- nal both numerically and graphically. ±1 field (for interlace)
Function: Error Level: Filter: Line Select: Phase Difference Displa Display: Display Range	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line Displays the phase difference between an SDI signal and the external sync sig- nal both numerically and graphically.
Function: Error Level: Filter: Line Select: Phase Difference Displa Display: Display Range Vertical: Horizontal*: * If the video signal waveform i	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line Displays the phase difference between an SDI signal and the external sync sig- nal both numerically and graphically. ±1 field (for interlace) ±1/2 frame (for progressive) ±1 line s displayed using an external sync signal as a reference.
Function: Error Level: Filter: Line Select: Phase Difference Displa Display: Display Range Vertical: Horizontal*: * If the video signal waveform i the waveform phase one cloc	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line Displays the phase difference between an SDI signal and the external sync sig- nal both numerically and graphically. ±1 field (for interlace) ±1/2 frame (for progressive) ±1 line
Function: Error Level: Filter: Line Select: Phase Difference Displa Display: Display Range Vertical: Horizontal*: * If the video signal waveform i the waveform phase one cloc turned on is indefinite.	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line Displays the phase difference between an SDI signal and the external sync sig- nal both numerically and graphically. ±1 field (for interlace) ±1/2 frame (for progressive) ±1 line s displayed using an external sync signal as a reference.
Function: Error Level: Filter: Line Select: Phase Difference Displa Display: Display Range Vertical: Horizontal*: * If the video signal waveform i the waveform phase one cloc turned on is indefinite. Picture Display	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line y Displays the phase difference between an SDI signal and the external sync sig- nal both numerically and graphically. ±1 field (for interlace) ±1/2 frame (for progressive) ±1 line s displayed using an external sync signal as a reference, k before or after an SDI signal is inserted or the power is
Function: Error Level: Filter: Line Select: Phase Difference Displa Display: Display Range Vertical: Horizontal*: * If the video signal waveform i the waveform phase one cloc turned on is indefinite.	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line) Displays the phase difference between an SDI signal and the external sync sig- nal both numerically and graphically. ±1 field (for interlace) ±1/2 frame (for progressive) ±1 line s displayed using an external sync signal as a reference, k before or after an SDI signal is inserted or the power is Brightness, contrast, chroma level, and
Function: Error Level: Filter: Line Select: Phase Difference Displa Display: Display Range Vertical: Horizontal*: * If the video signal waveform i the waveform phase one cloc turned on is indefinite. Picture Display Image Quality Adjustment:	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line y Displays the phase difference between an SDI signal and the external sync sig- nal both numerically and graphically. ±1 field (for interlace) ±1/2 frame (for progressive) ±1 line s displayed using an external sync signal as a reference, k before or after an SDI signal is inserted or the power is Brightness, contrast, chroma level, and aperture
Function: Error Level: Filter: Line Select: Phase Difference Displa Display: Display Range Vertical: Horizontal*: * If the video signal waveform i the waveform phase one cloc turned on is indefinite. Picture Display	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line) Displays the phase difference between an SDI signal and the external sync sig- nal both numerically and graphically. ±1 field (for interlace) ±1/2 frame (for progressive) ±1 line s displayed using an external sync signal as a reference, k before or after an SDI signal is inserted or the power is Brightness, contrast, chroma level, and aperture FIT, ×1, or ×2 (HD)
Function: Error Level: Filter: Line Select: Phase Difference Displa Display Range Vertical: Horizontal*: * If the video signal waveform i the waveform phase one cloc turned on is indefinite. Picture Display Image Quality Adjustment: Display Sizes:	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line) Displays the phase difference between an SDI signal and the external sync sig- nal both numerically and graphically. ±1 field (for interlace) ±1/2 frame (for progressive) ±1 line s displayed using an external sync signal as a reference, k before or after an SDI signal is inserted or the power is Brightness, contrast, chroma level, and aperture FIT, ×1, or ×2 (HD) FIT ×2 (SD)
Function: Error Level: Filter: Line Select: Phase Difference Displa Display Range Vertical: Horizontal*: 'If the video signal waveform i the waveform phase one cloc turned on is indefinite. Picture Display Image Quality Adjustment: Display Sizes: Color Selection:	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line) Displays the phase difference between an SDI signal and the external sync sig- nal both numerically and graphically. ±1 field (for interlace) ±1/2 frame (for progressive) ±1 line s displayed using an external sync signal as a reference, k before or after an SDI signal is inserted or the power is Brightness, contrast, chroma level, and aperture FIT, ×1, or ×2 (HD) FIT ×2 (SD) Color or monochrome
Function: Error Level: Filter: Line Select: Phase Difference Displa Display Range Vertical: Horizontal*: * If the video signal waveform i the waveform phase one cloc turned on is indefinite. Picture Display Image Quality Adjustment: Display Sizes:	result. Displays five peak levels: those of the Y, R, G, B and composite signals. Based on gamut error level and compos- ite gamut error level settings. Removes transient errors (The filter characteristics are the same as for gamut errors.) Displays the selected line) Displays the phase difference between an SDI signal and the external sync sig- nal both numerically and graphically. ±1 field (for interlace) ±1/2 frame (for progressive) ±1 line s displayed using an external sync signal as a reference, k before or after an SDI signal is inserted or the power is Brightness, contrast, chroma level, and aperture FIT, ×1, or ×2 (HD) FIT ×2 (SD)

played using the internal sync signal.

Marker Diaplaya	
Marker Displays Center Marker	
Aspect Markers	
HD:	4:3, 14:9, 13:9, 2.35:1, 1.85:1, and 1.66:1
SD:	16:9, 14:9, 13:9, 2.35:1, 1.85:1, and
	1.66:1
Safe Action Markers	:95 %, 93 %, and 90 %
Safe Title Markers:	88 % and 80 %
Line Select:	Marks the selected line
CINELITE Display Function:	f Stop display, percentage display, and
r uncuon.	f-Stop display, percentage display, and level display
f-Stop Display:	Displays the f value relative to the refer-
	ence point
	The reference point is set to the value of
	an object with a reflection level of 18 %.
f-Stop Gamma Correct Reference Gamma:	
User-Defined Correction Tables:	0.45 (ITU-R BT709) 3
	5 5 (read from USB memory)
Percentage Display:	Displays luminance or RGB components
	as percentages.
Level Display:	Displays luminance or RGB components
	with 256 levels (8 bits).
Measured points:	3 1 pixel 2 x 2 pixels or 0 x 0 pixels
Measurement sizes: CINEZONE Display	1 pixel, 3×3 pixels, or 9×9 pixels
Function:	Displays the luminance levels in the pic-
	ture using different colors
Display Colors:	Linear (1024 colors) or step (12 colors)
Upper Limit Setting:	-6.3 to 109.4 % (values above the upper
	limit are displayed using white)
Lower Limit Setting:	-7.3 to 108.4 % (values below the lower
Level Search Display:	limit are displayed using black) Displays a specified luminance level ±0.5
Level dealon bisplay.	% using green on an otherwise mono-
	chrome picture display.
Luminance Level Setting:	-7.3 to 109.4 %
Embedded Audio Displa	
Embedded Audio Displa Lissajous Display	у
Embedded Audio Displa Lissajous Display Displayed Channels:	2 channels or 8 channels (only for em-
Embedded Audio Displa Lissajous Display Displayed Channels:	у
Embedded Audio Displa Lissajous Display Displayed Channels:	y 2 channels or 8 channels (only for em- bedded audio)
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode:	y 2 channels or 8 channels (only for em- bedded audio)
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats:	y 2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level,
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level)
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4.
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio
Embedded Audio Displa Lissajous Display Displayed Channels: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information: Sampling Frequency:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel 48 kHz (must be synchronized to the video signal) issajous curves, 8-channel level meters, or sound images
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information: Sampling Frequency: * The LV 7330 cannot display Li	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel 48 kHz (must be synchronized to the video signal) issajous curves, 8-channel level meters, or sound images
Embedded Audio Displa Lissajous Display Displayed Channels: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information: Sampling Frequency: * The LV 7330 cannot display Li for AES/EBU signals that it recommended	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel 48 kHz (must be synchronized to the video signal) issajous curves, 8-channel level meters, or sound images reives.
Embedded Audio Displa Lissajous Display Displayed Channels: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information: Sampling Frequency: * The LV 7330 cannot display Li for AES/EBU signals that it rec Status Display SDI Signal Error Detect Signal Detection:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel 48 kHz (must be synchronized to the video signal) issajous curves, 8-channel level meters, or sound images reives.
Embedded Audio Displa Lissajous Display Displayed Channels: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information: Sampling Frequency: * The LV 7330 cannot display Li for AES/EBU signals that it rec Status Display SDI Signal Error Detec	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel 48 kHz (must be synchronized to the video signal) issajous curves, 8-channel level meters, or sound images reives.
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information: Sampling Frequency: * The LV 7330 cannot display Li for AES/EBU signals that it rec Status Display SDI Signal Error Detect Signal Detection: TRS Error:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel 48 kHz (must be synchronized to the video signal) issajous curves, 8-channel level meters, or sound images reives.
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information: Sampling Frequency: ' The LV 7330 cannot display Li for AES/EBU signals that it rec Status Display SDI Signal Error Detec Signal Detection: TRS Error: Line Number Error:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel 48 kHz (must be synchronized to the video signal) issajous curves, 8-channel level meters, or sound images eives. tion Detects the presence of an SDI signal Detects TRS location and protection bit errors Detects HD-SDI signal line number errors
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information: Sampling Frequency: * The LV 7330 cannot display Li for AES/EBU signals that it rec Status Display SDI Signal Error Detect Signal Detection: TRS Error:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel 48 kHz (must be synchronized to the video signal) issajous curves, 8-channel level meters, or sound images reves. tion Detects the presence of an SDI signal Detects TRS location and protection bit errors Detects HD-SDI signal line number errors Detects HD-SDI signal transmission errors
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information: Sampling Frequency: * The LV 7330 cannot display Li for AES/EBU signals that it rec Status Display SDI Signal Error Detect Signal Detection: TRS Error: Line Number Error: CRC Error:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel 48 kHz (must be synchronized to the video signal) issajous curves, 8-channel level meters, or sound images eives. tion Detects the presence of an SDI signal Detects TRS location and protection bit errors Detects HD-SDI signal line number errors
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information: Sampling Frequency: ' The LV 7330 cannot display Li for AES/EBU signals that it rec Status Display SDI Signal Error Detec Signal Detection: TRS Error: Line Number Error: CRC Error: EDH Error: Gamut Error:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel 48 kHz (must be synchronized to the video signal) issajous curves, 8-channel level meters, or sound images serves. tion Detects the presence of an SDI signal Detects TRS location and protection bit errors Detects HD-SDI signal line number errors Detects SD-SDI signal transmission errors
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information: Sampling Frequency: 'The LV 7330 cannot display Li for AES/EBU signals that it rec Status Display SDI Signal Error Detec Signal Detection: TRS Error: Line Number Error: CRC Error: EDH Error: Gamut Error: Detection Range Upper Limit: Detection Range Lower Limit:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel 48 kHz (must be synchronized to the video signal) issajous curves, 8-channel level meters, or sound images eives. tion Detects the presence of an SDI signal Detects TRS location and protection bit errors Detects HD-SDI signal line number errors Detects SD-SDI signal transmission errors Detects gamut errors 90.8 to 109.4 % (0.1 % step) -7.2 to 6.1 % (0.1 % step)
Embedded Audio Displa Lissajous Display Displayed Channels: Display Mode: Sound Image Display Channel Mapping: Surround Formats: Level Meter Display Displayed Channels: Meter: Peak Hold Time: Channels Group Selection: Audio Information: Sampling Frequency: ' The LV 7330 cannot display Li for AES/EBU signals that it rec Status Display SDI Signal Error Detec Signal Detection: TRS Error: Line Number Error: CRC Error: EDH Error: Gamut Error: Detection Range Upper Limit:	2 channels or 8 channels (only for em- bedded audio) X-Y or MATRIX L, R, C, LFE, Ls(s), Rs, LL, RR 3-1, 3-2, 3-2-2 8ch / 2ch 60 dB peak level, 90 dB peak level, average, or loudness 0.5 to 5.0 seconds/HOLD (when display- ing the peak level) You can select any 2 groups from groups 1, 2, 3, and 4. Detects the presence of each audio channel 48 kHz (must be synchronized to the video signal) issajous curves, 8-channel level meters, or sound images reves. tion Detects the presence of an SDI signal Detects TRS location and protection bit errors Detects HD-SDI signal line number errors Detects SD-SDI signal transmission errors Detects gamut errors 90.8 to 109.4 % (0.1 % step)

Composite Gamut Error:	Detects level errors that occur when com-
	ponent signals are converted to composite
	signals
Detection Range Upper Limit:	90.0 to 135.0 % (0.1 % step)
Detection Range Lower Limit:	-40.0 to -20.0 % (0.1 % step)
Filter:	Removes transient errors
	Low-Pass (HD: 5 MHz. SD: 1.8 MHz)
Parity Error:	Detects ancillary data header parity errors
Checksum Error:	Detects ancillary data transmission errors
BCH Error:	Detects errors in the transmission of the
	audio signal embedded in an HD-SDI signal
Audio CRC Error:	Detects CRC errors in channel status bits
Audio Information Detection:	Detects the presence of each audio
	channel
Error Count:	Up to 100,000 errors
	(Only the specified errors are counted.)
Count Period:	Only one error is counted for each sec-
	ond or frame.
Event Log Display	
Recording Capacity:	•
Description:	Records all events from start to finish
Recorded Events:	Errors, changes in input type, time stamps,
	etc.
Data Output:	Event logs can be saved to USB memory
	or sent to a PC through an Ethernet con-
Data Dumo Diaulau	nection as text data.
Data Dump Display	Display data as wet allow a wish data as
Display Modes:	Display data separated by serial data se-
Line Select:	quence or by channel Displays the selected line
Sample Select:	Displays from the selected sample
Jump Feature:	Jumps to an EAV or SAV
Data Output:	Event logs can be saved to USB memory
Data Output.	or sent to a PC through an Ethernet con-
	nection as text data.
Audio Status Display	
Control Packets:	Analyzes and displays SDI signal audio
Sond of Fuorior	control packets
Channel Status:	Analyzes and displays or displays the
	dump of the channel status of the em-
	bedded audio signal
EDH Display	
EDH packets:	Analyzes and displays received EDH
	packets

Closed Caption Displa	V
	: ARIB STD-B37/CEA-608, ELA-708
Display Details:	Analyzes and displays the closed caption
	signal.
Inter-Stationary Control	ol Data Display (NET-Q)
Compliant Standard	
Display Details:	Analyzes and displays inter-stationary
	control data
Data Broadcast Trig	
Compliant Standard	
V-ANC User Data Di	splay
Standard Supported	: ARIB TR-B23
Time Code Display	
	: Selects LTC or VITC SMPTE RP-188
	Switches the display of internal clock,
	and the time code.
Front Panel	
Key LEDs:	You can dimly light all of the keys by
	pressing the shortcut key.
Power Switch:	Turns the power on and off. If power
	is removed when the switch is on, the
	instrument will turn on when power is
	restored.
Last Memory:	Backs up the panel settings.
Last Memory: Environmental Condition	
-	ns
Environmental Condition	ns
Environmental Condition	ns : 0 to 40°C
Environmental Condition Operating Temperature Operating Humidity:	ns : 0 to 40°C
Environmental Condition Operating Temperature Operating Humidity: Power Supply	ns : 0 to 40°C 85 %RH or less (no condensation)
Environmental Condition Operating Temperature Operating Humidity: Power Supply Voltage:	ns : 0 to 40°C 85 %RH or less (no condensation) 10 to 18 VDC 18 W max.
Environmental Condition Operating Temperature Operating Humidity: Power Supply Voltage: Power Consumption:	ns : 0 to 40°C 85 %RH or less (no condensation) 10 to 18 VDC 18 W max. 215(W) × 44(H) × 250(D) mm
Environmental Condition Operating Temperature Operating Humidity: Power Supply Voltage: Power Consumption: Dimensions	ns : 0 to 40°C 85 %RH or less (no condensation) 10 to 18 VDC 18 W max.
Environmental Condition Operating Temperature Operating Humidity: Power Supply Voltage: Power Consumption:	ns : 0 to 40°C 85 %RH or less (no condensation) 10 to 18 VDC 18 W max. 215(W) × 44(H) × 250(D) mm (excluding protruding parts)
Environmental Conditio Operating Temperature Operating Humidity: Power Supply Voltage: Power Consumption: Dimensions Weight	ns : 0 to 40°C 85 %RH or less (no condensation) 10 to 18 VDC 18 W max. 215(W) × 44(H) × 250(D) mm
Environmental Condition Operating Temperature Operating Humidity: Power Supply Voltage: Power Consumption: Dimensions	ns : 0 to 40°C 85 %RH or less (no condensation) 10 to 18 VDC 18 W max. 215(W) × 44(H) × 250(D) mm (excluding protruding parts) 1.3 kg
Environmental Conditio Operating Temperature Operating Humidity: Power Supply Voltage: Power Consumption: Dimensions Weight	ns : 0 to 40°C 85 %RH or less (no condensation) 10 to 18 VDC 18 W max. 215(W) × 44(H) × 250(D) mm (excluding protruding parts) 1.3 kg Instruction manual
Environmental Conditio Operating Temperature Operating Humidity: Power Supply Voltage: Power Consumption: Dimensions Weight	Ins : 0 to 40°C 85 %RH or less (no condensation) 10 to 18 VDC 18 W max. 215(W) × 44(H) × 250(D) mm (excluding protruding parts) 1.3 kg Instruction manual1 AC adapter (LP 1960)1
Environmental Conditio Operating Temperature Operating Humidity: Power Supply Voltage: Power Consumption: Dimensions Weight	Ins : 0 to 40°C 85 %RH or less (no condensation) 10 to 18 VDC 18 W max. 215(W) × 44(H) × 250(D) mm (excluding protruding parts) 1.3 kg Instruction manual1 AC adapter (LP 1960)1 15-pin D-sub connector1
Environmental Conditio Operating Temperature Operating Humidity: Power Supply Voltage: Power Consumption: Dimensions Weight	Ins : 0 to 40°C 85 %RH or less (no condensation) 10 to 18 VDC 18 W max. 215(W) × 44(H) × 250(D) mm (excluding protruding parts) 1.3 kg Instruction manual
Environmental Conditio Operating Temperature Operating Humidity: Power Supply Voltage: Power Consumption: Dimensions Weight	Ins : 0 to 40°C 85 %RH or less (no condensation) 10 to 18 VDC 18 W max. 215(W) × 44(H) × 250(D) mm (excluding protruding parts) 1.3 kg Instruction manual1 AC adapter (LP 1960)1 15-pin D-sub connector1
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Environmental Conditio Operating Temperature Operating Humidity: Power Supply Voltage: Power Consumption: Dimensions Weight	Ins : 0 to 40°C 85 %RH or less (no condensation) 10 to 18 VDC 18 W max. 215(W) × 44(H) × 250(D) mm (excluding protruding parts) 1.3 kg Instruction manual

^{*}ETHERNET will be supported in the future.

LV 7330 Rear Panel



LV 7330 Front Panel



Rack Mounting



LR 2481 Rack Mount Adapter (sold separately)