ZEN Series

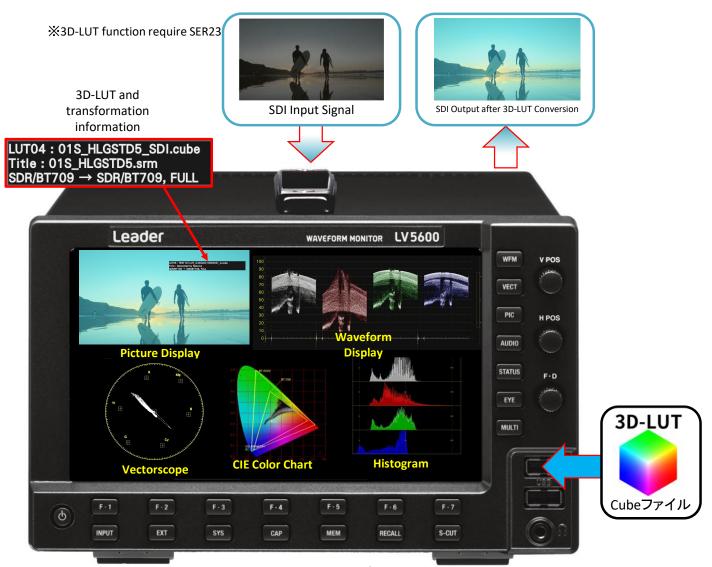
Leader

Waveform Monitor LV5600、LV5300(A)、LV5350 Rasterizer — LV7600、LV7300

March 15th, 2024

Version Upgrade Information Ver. 7.5 or later (free of charge / to be released at the end of March)

- 3D-LUT(LV5600,LV7600,LV5300(A),LV5350,LV7300)
 - The 3D-LUT Cube files can be loaded and are used to display SDR and HDR picture, waveform in simultaneous HDR/SDR productions.
 - Picture display, waveform display, vectorscope, CIE chart and histogram are supported.
 - Supports up to 4 channels for 2K (HD) and 1 channel for 4K (UHD).
 - A maximum of 10 Cube files can be registered.
 - The 3D-LUT is effective in HDR/SDR Simultaneous production, which can support various methods.
 - The interpolation method uses 33-point tetrahedral interpolation.
 - SDI output after 3D-LUT conversion (LV5300(A)/LV5350/LV7300 not supported)
 - Input/output conversion Gamma SDR/HDR (HLG, PQ, S-LOG3, LOG-C, C-LOG), Colorimetry BT2020/BT709/DCI compatible
 - Range Full/Narrow support.
 - Cube file file information, header information display



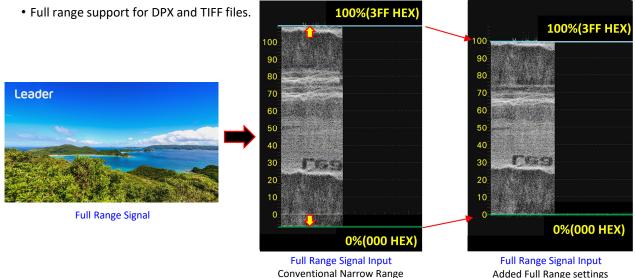
Measurement after 3D-LUT conversion



SDR Full Range (LV5600,LV7600,LV5300(A),LV5350,LV7300)

It is compatible with the Full Range of HDR. The Full Range of SDR will now be supported without HDR

- · Waveform display, vectorscope, CIE chart, histogram, CineLite and CineZone are supported.
- Supports up to 4 channels for 2K (HD) and 1 channel for 4K (UHD).
- Scale change for each function.



DEC HEX **Full Range Signal** Narrow Range Signal decimal hexadecimal [mV] 100% White Level 1023 3FF 766.3mV 100% White Level 940 3AC 700.0mV --Y Signal 502 350.0mV 1F6 64 040 0mV 0% Black Level 000 0 -51.1mV 0% Black Level

settings

■ Multilingual closed captioning (subtitles) pairs (LV5600,LV7600,LV5300(A),LV5350,LV7300)

The number of supported languages has been increased for traditional closed captioning.

•CC608

English/Spanish/Portuguese/French/German/Danish/Italian/Finnish/Swedish

•CC708

English/Spanish/Portuguese/Danish/Dutch/Faroese/Finnish/ French/German/Icelandic/Irish/Italian/Norwegian/Swedish/Korean

English/Spanish/Portuguese/Czech/Slovak/Estonian/French/German/Italian/ Lettish/Lithuanian/Polish/Rumanian/Serbian/Croatian/Slovenian/Swedish/ Finnish/Hungarian/Turkish/Ukrainian/Rumanian/Bulgarian

· ARIB STD-B37

Japanese

XConventional support

X LV5300(A) requires LV5300-SER21, LV5350 requires LV5350-SER21 and LV7300 requires LV7300-SER21



Added Full Range settings

German Closed caption Display

Leader

■ False Colour Display (LV5600,LV7600,LV5300(A),LV5350,LV7300)

A False Colour display has been added to the existing CineZone function. Highlights, human skin tones, 18%Grey, blacks, etc. can now be easily identified.

- 2K (HD) supports up to four channels and 4K (UHD) supports one channel.
- False Colour support for ARRI, RED and SONY cameras.

 WSER-S (SONY) will be supported in the future.
- Each value can be varied from the basic value.

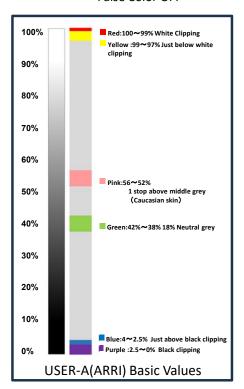


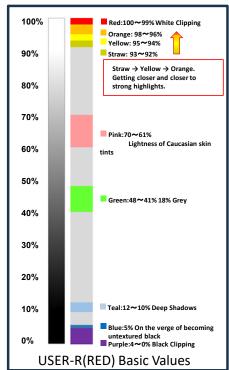


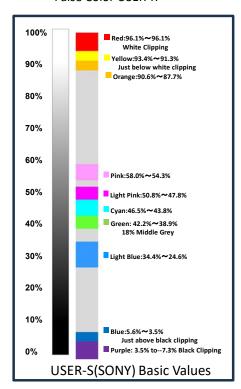
False Color OFF

False Color USER-A

False Color USER-R







- Timecode continuity monitoring function and timecode date display (LV5600, LV7600, LV5300(A), LV5350, LV7300) SDI and IP (ST 2110-40, ST 2022-6) timecode continuity monitoring function and display of timecode and date.
- Timecode anomaly monitoring details
 - Missing timecode packets
 - Duplication of timecode information
 - Errors are displayed on the screen and recorded in the event log.
 - Litors are displayed on the screen and recorded in the event log.
- Non-continuous skipping of timecode time information occurs
- ·When timecode packets are not superimposed

• Switching display of timecode

20/07/24 TC:OK LTC: 20:10:28.29

Date display and no abnormality display

EVENT LOG display content

TC NO : Missing timecode packets

TC:RPT: Duplication of timecode information TC:SKIP: Discontinuity of timecode information

* Discontinuous dropped frame flags are not detected.

EVENT LOG LIST SAMPLE No.16 << NOW LOGGING >>

14: LTC 20:09:05.01 A 1920×1080/59.941 TC:RPT,

13: LTC 20:08:36.11 A 1920×1080/59.941

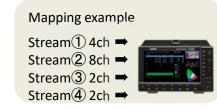
12: LTC 20:08:36.10 A 1920×1080/59.941 TC:SKIP,

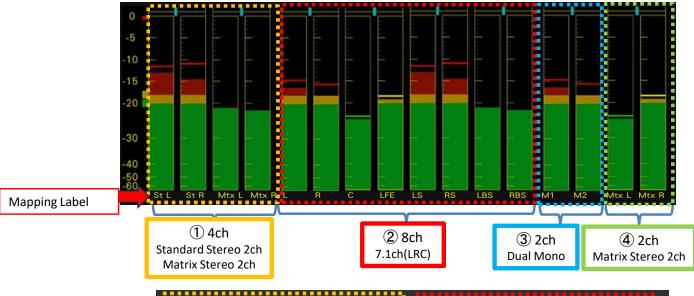
■ Source ID display (LV5600,LV7600,LV5300(A),LV5350,LV7300)
The Source ID display function displays the UDW 15 words of ancillary data transmitted with DID: 253h SDID: 149h in ASCII code.

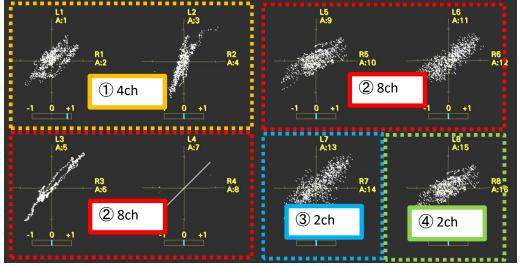




- IP Audio Channel Mapping diversification (Option LV5600SER06, LV7600SER06 supported)
 Audio channel mapping function allows free audio channel allocation in two-channel pairs
 - Mapping is Mono, Dual Mono, Standard Stereo, Matrix Stereo, 5.1ch(LCR), 5.1ch(LCR), 7.1ch(LCR), 7.1.4ch(LCR), 7.1.4ch(LCR), 7.1.4ch(LCR), 1.4ch(LCR), 7.1.4ch(LCR), 7.1.4ch(LCR)
 - Mapping labels are displayed for various inputs.
 - It is decoded and output as AES/EBU.
 - NMOS compatible







 \divideontimes On the ZEN series, the FIRMWARE version can be checked by pressing the [SYS] key \rightarrow [F.3] (SYSTEM INFO) key. FIRMWARE can be downloaded from our website. This Ver. 7.5 is scheduled for the end of March.

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