

August 7,2020  
Leader Electronics Corporation  
2-6-33,Tsunashima-Higashi,Kohoku-Ku  
Yokohama

Thank you for your continued support for us at all times.

We are pleased to inform you that we have enhanced the functions of our ZEN series products as follows.

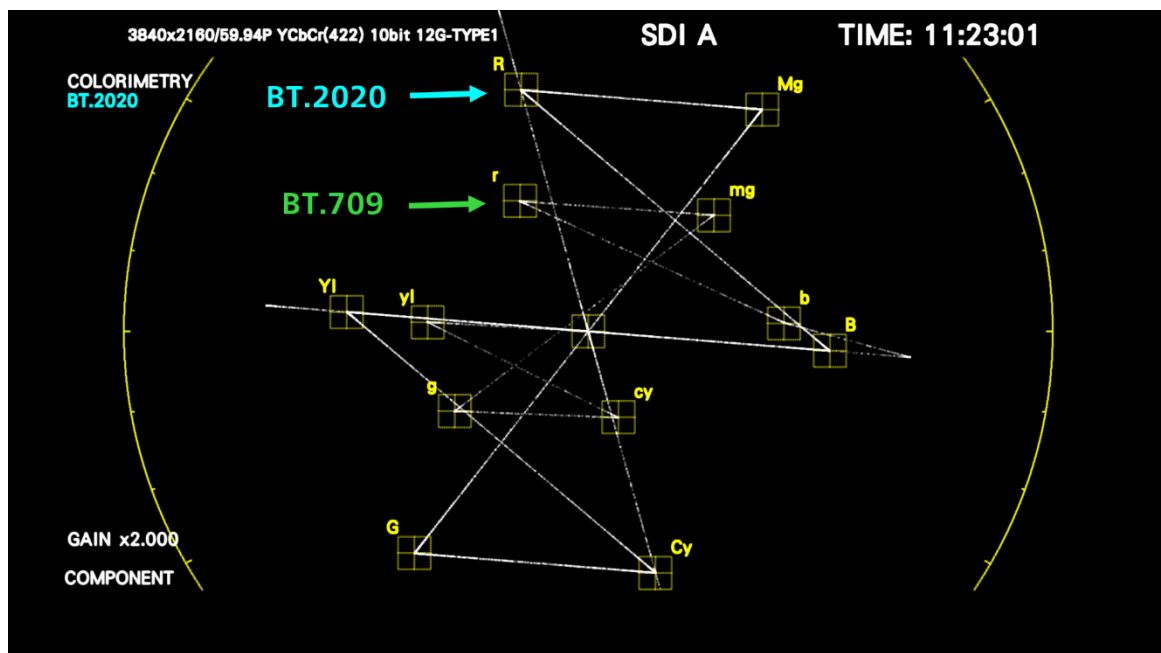
- Product name: Waveform monitor / rasterizer
- Model No .: ZEN series (LV5600 / LV5350 / LV5300 / LV7600 / LV7300)
- Announcement date: August 7,2020

## Enhanced ZEN series functions

Leader Electronics (President: Kozo Nagao) has enhanced the functions effective for content creation and the IP measurement function in the ZEN series (waveform monitor / rasterizer).

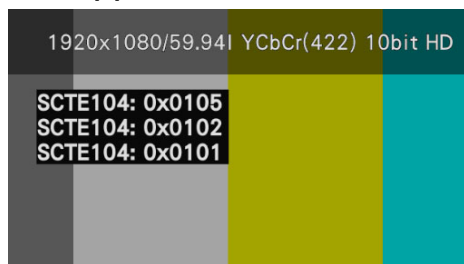
### 1) BT.709 compatible vectorscope scale

UHDTV (ARIB STD-B66) and HLG color bars (ARIB STD-B67) contain BT.2020 and BT.709 colors. A scale has been added to easily check the vector coordinates of this BT.709 color bar. This is useful for BT.2020 and BT.709 video content production.



BT.709 color bar vector screen

2) SCTE-104 compatible for ANC data analysis function  
 In Japan, ARIB-STD B39 (NET-Q) is used for starting and replacing commercials and main parts, but in some countries SCTE-104 is used.  
 Recently, SCTE104 has been used in operation systems in Japan too.  
 We supported SCTE-104 for efficient operation worldwide.



Superimpose the type of detected packet on the picture.  
 (maximum 3 packets)



Display the currently received packet in blue on the status measurement screen and leave a log.

### 3) Enhanced IP measurement function (LV5600 / LV7600)

The video over IP measurement function specified in SMPTE ST 2110 and SMPTE ST 2022-6 has been enhanced.

- ① Buffer measurement function based on SMPTE ST 2110-21.
- ② Simultaneous measurement function of packet jitter and PTP of redundant transmission line.
- ③ Function to check the margin of the transmission path by adding jitter to the IP output pattern.
- ④ Enhanced functions such as a lip sync pattern output function for measuring the synchronization and phase relationship between video and audio.

### 4) 4K signal English Closed caption (EIA-708 / 608) is supported (All ZEN series models).

It supports 4K video of both 3G-SDI quad link and 12G-SDI.

\* These additional functions can be used by updating the firmware that can be downloaded free of charge from our website. However, you need options corresponding to each measurement item.

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