

NAB2024 Leader Electronics Exhibit Report

Date: Sunday, April 14 - Wednesday, April 17, 2024

Location: Las Vegas Convention Center (LVCC), Nevada, USA, Central Hall, Booth No. C5521

Leader Electronics Corporation has been working on the theme of "Making Your SDI/ST2110 Transition Smooth " and has introduced technologies to effectively operate mixed systems such as SDI to IP, HD to 4K UHD, SDR to HDR, and compressed IP JPEG-XS, during the transition period. In response to customer requests and demands for existing products, we introduced new features to the current ZEN Series models, as our flagship product lineup. PHABRIX brand products were also introduced, including the Sx Series of handheld measurement tools, and QxL/QxP with EUHD option supporting 4K HFR extended video formats, combined with 7thSense servers.

In addition, we proposed and introduced new technologies to meet new demands and requirements from the market, including a software-based Cloud Monitoring system and NDI monitoring support gear.

1. New! ZEN Series Waveform Monitor LV5600W / Rasterizer LV7600W

With the addition of new features to the existing ZEN Series, the **LV5600W** and **LV7600W** were introduced. To meet the strong demand for remote operations such as REMI, a new **WebRTC** interface is incorporated, enabling secure real-time remote control and monitoring from a Web-connected desktop or laptop computer. Both models feature an upgraded operating system for greater security and future flexibility.



LV5600W and LV7600W both incorporate **WebRTC** (Web Real-Time Communication) interface allowing secure remote control and monitoring from a web-connected desktop or laptop computer.

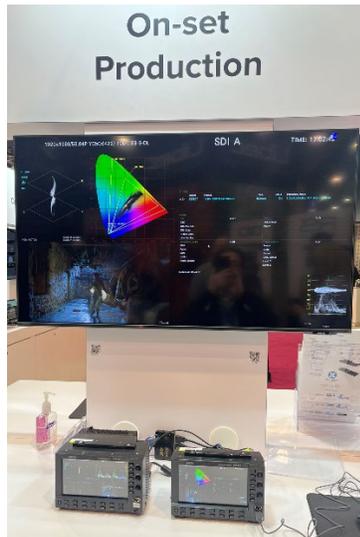
2. ZEN Series New Features

New features, available via a free upgrade to the existing ZEN Series were introduced.

- HDR/SDR conversion by 3D-LUT import capability.



- ARRI/RED camera's False Color Display



Leader CINEZONE with integrated exposure tools for ARRI (on left) and RED (on right) camera users



- JPEG-XS/SDI/IP simultaneous display (function introduced in 2023)



- Full-range display of SDRs
- Time code continuity monitoring function
- Closed Captioning (CC) language extension (CC608, CC708, OP47)
- Source ID display.
- IP audio channel mapping diversification

Please refer to the detailed functions as described below.

[zensiers_version.7.5.pdf](#)

3. New Sync Generator LT4670

The new LT4670 sync generator is an evolution of the current LT4610 and was introduced along with various options as a more flexible, reliable, and redundant model, with a powerful dual PTP engine feature. In addition to the LT4670-SER04 option for 25G-IP and 12G-SDI test signal output, which was introduced for the first time at NAB 2024 this year, the LT4670 also offers multiple analog sync outputs, digital audio, word clock, LTC, GNSS, PTP, 4K QUAD, 3G-SDI and HD-SDI functions.



4. PHABRIX Qx Series

The PHABRIX QxL/QxP was introduced, offering deep analysis of 25G-IP, advanced 12G-SDI monitoring and physical layer analysis as well as high-quality waveform rendering capabilities. The system has been highly acclaimed by R&D teams and manufacturing development departments. Demonstrated at NAB was, full range support for both 10-bit and 12-bit video formats, enhanced waveform analysis, and support for UHD and 4K HFR extended video formats in ST 2110 with its advanced EUHD option.



5.PHABRIX Sx Series

We introduced the Sx Series as a highly functional handheld instrument. Since its launch, the Sx series has been highly acclaimed with compact and unique form factor, especially by field engineers and in house engineers.



6.PHABRIX Rx series

Three models of SD/HD-SDI dedicated equipment was exhibited: ½ 1RU half-rack size Rx 500, 1RU size Rx 1000, and the 2RU Rx 2000 with two displays. Variations to suit different applications and locations were introduced.



7. Cloud-based waveform monitoring, and NDI checker

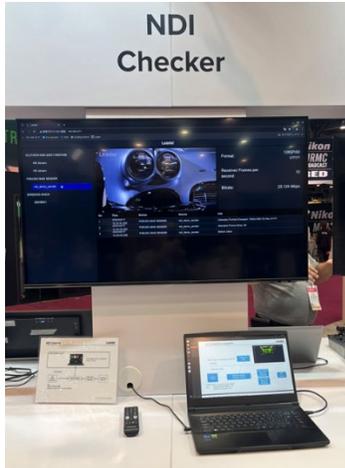
We exhibited the product as a proto-type under development and received a variety of feedback about customer needs.

As a use case for cloud-based waveform monitoring, we demonstrated together with Sony's "M2L-X" software-based live production switcher and Traffic Sim's multi-view service "Media Harbor".

In addition to our on-booth demonstration, the same system was showcased at the AWS booth this year, integrated with variety of 3rd party products.



The NDI Checker introduced the technology of a software-based system that enables direct waveform monitoring in native NDI systems, which is becoming increasingly popular in the market.



We will continue to listen to market's feedback to improve our product development.

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