

ST-2110 -20/-22/-30/-40 ANALYZER & GENERATOR supporting up to 8K video resolution



3RU portable 8.3" display model



The AI100 is our unique ST-2110 stream real-time analyzer and generator for compressed JPEG-XS(-22) and uncompressed (-20) video over IP, audio(-30) over IP, and ancillary (-40) IP streams. The AI100 is available in 3RU portable or in a 1RU chassis form factor. It can be operated from a touch panel(*), from a keyboard/mouse/display or remotely through a web GUI.

Features

- ST-2110 to SDI real-time converter/decoder (supporting up to 8K, 4x 12G-SDI out)
- Real-time analysis and generation of ST2110-20/21/22/30/40 IP streams, , up to 8K video resolution
- Data analysis of UDP/RTP Payload data
- Status-check and in-depth analysis of JPEG-XS header, code stream, VS(*1) and CS(*2) boxes.
- Ethernet PHY layer analysis
- ST2110-21 data buffer analysis
- ST2022-7 IP data status analysis
- PTP (ST-2059 v2) clock analysis as a grand master client
- Visualize the PTP timing accuracy through individual waveforms
- IP stream capture available up to 1GB with the use of an external USB drive
- Support of AMWA NMOS IS-04/-05 for validation and smooth system integration
- Event and alarm logging with SNMP traps generation
- User-friendly graphic interface through keyboard/mouse/display, or web GUI
- Model available in an 8" touch panel display 3RU portable or 1RU chassis type form factor

AI100		

Hardware Specs

1RU rack mounting chassis model model

IP I/O Cages	QSFP28 IP CAGES x 4	Display output	HDMI V2.0 x 1
IP Stream Interfaces	SFP+ 10G x 2 SFP28 25G or QSFP28 100G 2 Upgradable RJ45 Ethernet x 1	Audio monitor output	3.5mm Stereo TRS Audio Jack
		Power	3RU: AC100-240V, 70W 1RU: AC100-240V, 70W
Management, Control, and NMOS Interface		Sizes (W x D x H)	3RU: 212(W) x 353(D) x 165(H)mm 1RU: 435.5(W) x 354(D) x 44.5(H)mm
Common USB Interfaces	USB x 4	Weight	3RU ~3.4Kg / 11RU ~4.3Kg
Maintenance USB Interface	TYPE C x 3	Temperature	0°C~40°C / ≤85 %RH





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The PTP timing can be analyzed in real-time, showing network timing delays and phase shifts, as shown below. Depending on the IP domain, it can be locked to the Grandmaster (GM) or the client.



The graphical user interface can show multiple views simultaneously: IP, Video, Audio, ANC, and PTP, and include some in-depth views for JPEG-XS data analysis

In-depth JPEG-XS video data analysis according to the ISO/IEC 21122 including [Payload Header], [Video Support Box](*1), [Color Specification Box](*2), and [Codestream data]



(*1) Video Support (VS) box: An ISO video support box, as defined in [ISO21122-3], that includes metadata required to play back a JPEG XS stream; such metadata could include its maximum bit rate, its subsampling structure, its buffer model, and its frame rate.
(*2) Color Specification (CS) box: An ISO color specification box defined in [ISO21122-3] (JPEG XS Part 3) that includes color-related metadata required to correctly display JPEG XS video frames, such as color primaries, transfer characteristics, and matrix coefficients.

