

What's New

Qx and QxL V4.2



New 2110 IP Transmit Instrument for QxL

ST 2110 Video and Audio Transmission of Test Patterns and User Interface (GUI)

QxL version 4.2 can simultaneously Generate and Analyze SMPTE 2110/2022-7 Video and Audio Flows. The QxL can now generate two sets of Video and Audio 2022-7 flow pairs as part of the Generator License as follows:

- Test Pattern as a Flow: 1 x ST 2110-20 (Video) and 4 x ST 2110-30/31 (Audio) with 2022-7
- Monitor Output (GUI) as a Flow: 1 x ST 2110-20 (Video) and 1 x ST 2110-30/31 (Audio) with 2022-7
- A Total of Seven Flow Pairs (14 Flows) from Generator and Monitor Output.

• Monitor Output (GUI) as Flow Shown in Picture Window at 25% Screen Size



IP Transmit Parameter Overviews

The new IP Transmit configuration tool provides an at-a-glance view of transmitted flow status and selected formats:

Reference: PTP SFP E

Tx	VID	AUD1-2	AUD3-4	MON	SFP	Protocol	Type	Dst IP	Src IP	SSRC
VID	E					2110-20	96	239.9.20.1:5178	192.168.10.14:5178	123456
VID MON	E					2110-20	96	239.9.20.3:5178	192.168.10.14:5178	123456
AUD1	E					2110-31	97	239.9.30.1:5178	192.168.10.14:5178	123456
AUD MON	E					2110-30	97	239.9.30.9:5178	192.168.10.14:5178	123456
VID MON	F					2110-20	96	239.9.20.4:5178	192.168.20.17:5178	123456
AUD1	F					2110-31	97	239.9.30.2:5178	192.168.20.17:5178	123456
AUD MON	F					2110-30	97	239.9.30.10:5178	192.168.20.17:5178	123456

Active Tx Flows

Tabs to Switch to Detailed Flow Parameters

Active Tx Interfaces

Tx Protocol & Package Type

IP Addressing

Generator Pattern as a Flow:

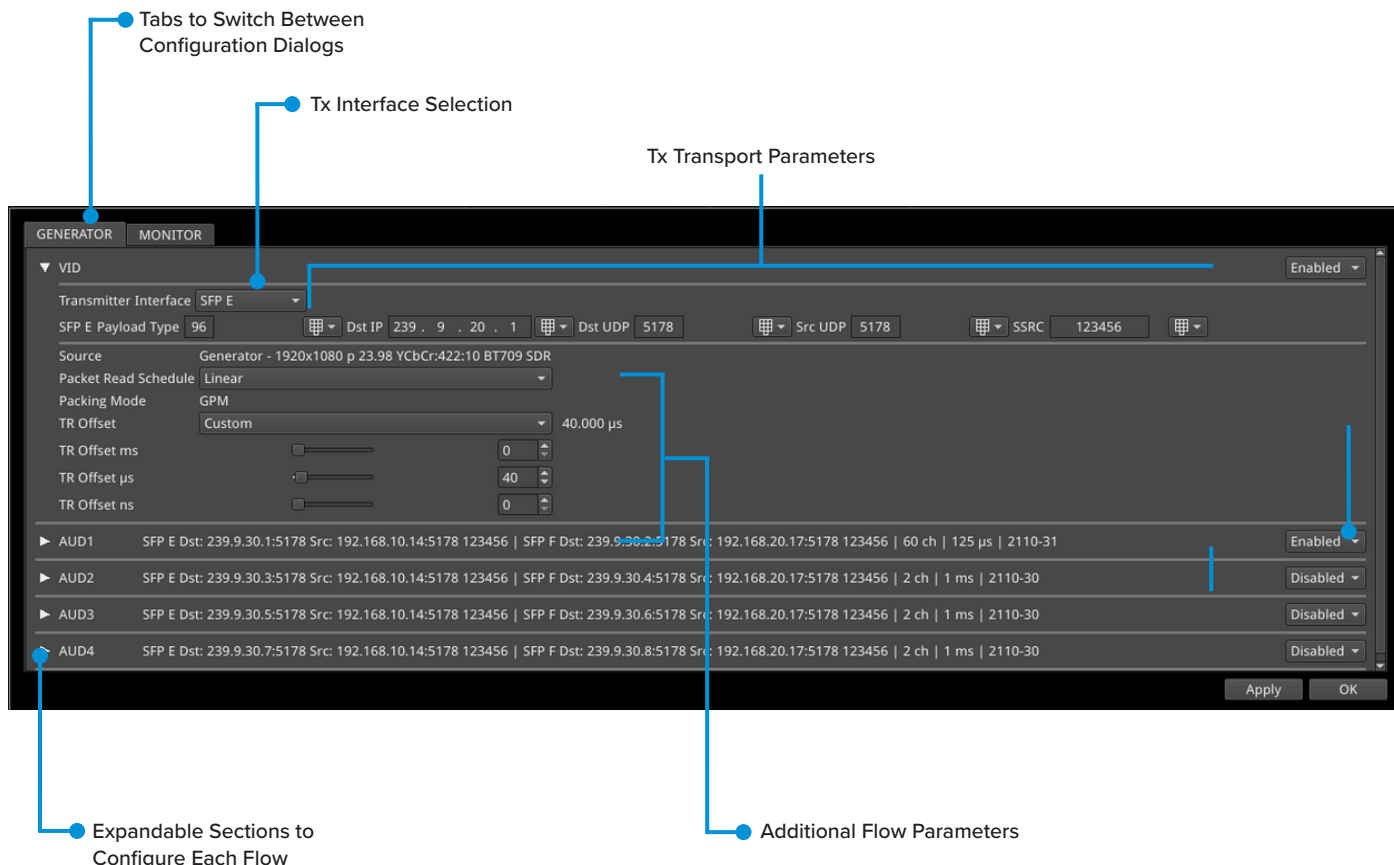
- **Video:** ST 2110-20/2022-7 video flow pair comprising of any 1920x1080 Progressive or Interlaced YCbCr 422 10bit Test Pattern with optional Bouncing Box
- Choice of Narrow Gapped or Narrow Linear Packet Read Schedule (PRS)
- General Packing Mode (GPM)
- Full range of PHABRIX Patterns (Bars, SMPTE/ARIB Bars, Test Card (Circle), Ramps, Color Grid, Steps PLUGE)
- Full range of Formats: SDR(709), SDR(2020), HDR: PQ, HLG, Slog-3, SR-Live(2020)
- Full range of Frame Rates: 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60 Hz (Progressive); 50, 59.94, 60 Hz (Interlaced).
- Phase Control of TR_{Offset} with respect to PTP timeframe.
- **Audio:** up to four accompanying 48 kHz sampling 24-bit Test Tone/Musical Pitch 2022-7 Audio flow pairs with independent selection of ST 2110-30 or 2110-31 and 1 ms or 125 μ s Packet Time for each flow pair.
- Level C Audio Operation with up to 80 channels at 125 μ s and ten channels at 1 ms packet time (ST 2110-30), and up to 60 channels at 125 μ s and seven channels at 1 ms packet time (ST 2110-31).
- Audio Generator Macros Fixed Tone, Fixed Tone Ramp, Musical Pitch Fixed, Musical Pitch Ramp with independent control of Tone/Pitch and Amplitude for each Channel.
- Up to 80 independent Audio Tone generators, assignable to any audio channel

Monitor as a Flow:

- **Video:** ST 2110-20/2022-7 video flow pair carrying the Instrument Graphical User interface (GUI, HDMI screen) at 1920x1080 50/59.94/60 Hz Progressive Frame Rates
- Narrow Gapped Packet Read Schedule (PRS)
- Block Packing Mode (BPM) for widest compatibility
- **Audio:** Single monitor 2.0 stereo Audio 48 kHz sampling 24-bit 2022-7 flow pair with choice of ST 2110-30 or ST 2110-31 with 1 ms or 125 μ s Packet Time.
- Audio selection follows the selected, Post Volume Fader, 2.0 Stereo or 1.0 Dual Mono audio meter monitored audio.

Straightforward Configuration Dialog

Configuration of Generator and Monitor flow parameters by way of two specific configuration dialogs:



Additional Changes in V4.2 for Qx and QxL

- PTP labeling has been updated to follow the latest SMPTE Guidelines and now uses the terms PTP *Leader* and PTP *Follower*, together with the states *Lead* and *Follow*.
- The Default Gateway can now be selected from any available network interface gateway addresses in the Qx Network and Automation setup tool.



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