QxP



Portable Waveform Monitor

25G ST 2110 and 12G-SDI with Battery Power



12G SDI/25G IP Professional Monitoring "To Go"

The QxP features an integral 3U, multi-touch LCD screen with class-leading waveforms in a portable unit. A choice of V-mount or Gold-mount (G-mount) battery plate is available for portability, making the QxP equally at home on-set in SDR or HDR Productions, Grading, Shading, or QC, MCR, Engineering and R&D environments.

Inheriting the flexible architecture of the QxL rasterizer, the QxP includes SMPTE ST 2110, 2022-6 and a wide-range of formats as standard.

For realtime IP workflows the QxP supports simultaneous Generation and Analysis of SD/HD/3G/UHD/EUHD 2110 payloads on generic SFP28/25 GbE interfaces, with ST 2022-7 Seamless IP Protection Switching (SIPS) and independent PTP followers on both media ports for fully-redundant media network operation – all with AMWA NMOS IS-04 and IS-05.

Picture view, waveform monitor, vectorscope, extensive audio metering, audio channel-status, detection of common Dolby formats, ANC status and payload; on-screen display of closed captions and Ancillary Time Code (ATC); Loudness monitoring; advanced control and logging with human readable event logs; browser-based remote operator GUI access over noVNC and a full REST API are provided as standard.

Optional in-field license upgrades

In-field upgrades are available for a rich set of options: UHD/4K, IP-MEAS, HDR, Dolby E decode, PCAP capture, EUHD and extensive Audio/Video/ANC test signal generation.

Flexible architecture for advanced Physical Layer Analysis

Factory-fitted options provide SDI interfaces and RTE $^{\rm m}$ real-time SDI eye/jitter analysis, with an engineering grade data view and an optional, advanced SDI-STRESS toolset.

Whether working in HD, UHD, SDR, HDR, SDI or IP, conventional or remote production, the QxP combines the user-configurability and advanced tools required for full operational flexibility when transitioning to next generation workflows.

Key Features

- 3U instrument with integral 1920 x 1200, 7 inch LCD screen
- · HDMI Rasterizer output with up to 16 instruments
- Touchscreen, button or mouse-driven user interface for local and remote operation
- Intuitive interface with presets QxP puts you in control
- Choice of V-mount or Gold-mount Battery Plate for external battery and portable operation
- · Class-leading Waveforms in a portable device
- Available in: IP only, IP & SDI, IP & SDI Eye & Jitter each with the option of battery V-mount or Gold-mount
- SFP28 IP media interfaces fitted as standard, with SDI option for Hybrid SDI/IP
- Options for UHD/4K, IP-MEAS, Dolby E, HDR, PCAP, EUHD, AV-ANC Gen and SDI-STRESS
- IP-MEAS test suite provides a comprehensive set of tools for SMPTE 2110 and 2059 (PTP) compliance verification and commissioning
- AMWA NMOS IS-04, IS-05 and PTP system resource detection via IS-09
- ST 2110-20 payloads up to 4K60P 444 12-bit over 25G IP networks with 2022-7 and dual PTP
- Fully-featured SDI toolset: audio, Dolby-detect, Data view, ANC status and ANC Inspector included as standard
- 128 SDI audio channels, ST 2110-30 Class C, 32 channel metering, 5.1/2.0 Loudness measurement
- Remote access and control with remote browser access using noVNC
- Built-in speaker and headphone jack

QxP Rear Panel





Monitor 1920 x 1200 1920 x 1020 1920 x 1020 1920 x 1020 1920 x 1020 1920 x 1020 x 1020 1920 x 1020	Specifications	
Display 7 inch LCD Touch Multi-touch User Interface HDMI instrument output, 1920 x 1080, 4:4:4 RGB, Type A HDMI 2.0a 3G-SDI instrument output, 1920 x 1080, 4:2:2 YCbCr Micro BNC User Interface Video/Audio 2110-20 / 2110-30/-31 Remote browser GUI access noVNC Ethernet IP Inputs / Outputs (Accepts Generic SFPs) 2 x SFP28 10 / 25G cages Standard 2 x QSFP28 cages Reserved Upgrade to 25GbE support Software Option Networking & Control 10 / 100 / 1000 BASE-T RJ45 8 x Bidirectional GPI Socket 26 pin HD D-Type SDI Inputs / Outputs 4 x SDI inputs / Outputs 4 x SDI inputs, SD/HD/3G, 75 ohm terminated BNC Factory Option 2 x SFP+ MSA / Non-MSA cages (12 Gbps copper or fiber SDI interfaces) 4 x SDI outputs, SD/ + HD / 3G, 75 ohm BNC Factory Option SDI I/O to 6G/12G (Requires Factory SDI Option) Software Option SDI I/O to 6G/12G (Requires Factory SDI Option) Software Option Factory Option Formats Supported Core IP Formats SJ 2110-20/-30/-31/-40 / 2022-7, 2022-6 ST 2110 U+ID / 4K Formats Software Option ST 2110 RGB U+ID / 4K Formats Software Option 12G / 6G / 3G / 1.5G-SDI U+ID 4K (Requires Core Formats) Software Option Audio Inputs / Outputs 4 x 75 ohm AES selectable I/O (26 pin Ingh-density D-Type socket) 1 x Stereo analog audio output (26 pin Ingh-density D-Type socket 8 channel 48 kHz PCM audio HDMI and SDI Instrument Out Audio Monitoring Front panel speaker Headphone socket Va inch jack Reference Reference input, Tri-level or B&B with cross-lock Form Factory Size (Width x Height x Depth - excluding projections) 215 x 132 x 330 mm Weight Electrical 4 pin XLR DC power connector Int XLR DC power supply with IEC connector	Monitor	
Touch Ver Interface HDMI instrument output, 1920 x 1080, 4:4:4 RGB, Type A 3G-SDI instrument output, 1920 x 1080, 4:4:4 RGB, Type A 3G-SDI instrument output, 1920 x 1080, 4:2:2 YCbCr Micro BNC User Interface Video/Audio Remote browser GUI access noVNC Ethernet IP Inputs / Outputs (Accepts Generic SFPs) 2 x SFP28 10 / 25G cages 2 x QSFP28 ages Reserved Upgrade to 25GbE support Software Option Networking & Control 10 /100 / 1000 BASE-T 8 x Bidirectional GPI Socket 2 26 pin HD D-Type SDI Inputs / Outputs 4 x SDI inputs, SD/HD/3G, 75 ohm terminated BNC 2 x SFP2 MSA / Non-MSA cages 4 x SDI outputs, SD/HD/3G, 75 ohm BNC Factory Option SDI I/O to 6G/12G (Requires Factory SDI Option) ST 2110 RGB UHD / 4K EUHD Formats ST 2110 UHD / 4K Formats ST 2110 UHD / 4K Formats ST 2110 RGB UHD / 4K EUHD Formats ST 2110 RGB UHD / 4K EUHD Formats SDI Formats: 3G / HD / SD* 12G / 6G / 3G / 1.5G-SDI UHD 4K (Requires Core Formats) Audio Inputs / Outputs 4 x 75 ohm AES selectable I/O (26 pin high-density D-Type socket) 1 x Stereo analog audio output (26 pin high-density D-Type socket) 1 x Stereo analog audio output (26 pin high-density D-Type socket) 1 x Stereo analog audio output (26 pin high-density D-Type socket) 1 x Stereo analog audio output (26 pin high-density D-Type socket) 1 x Stereo analog audio output (26 pin high-density D-Type socket) 1 x Stereo analog audio output (26 pin high-density D-Type socket) 1 x Stereo analog audio output (26 pin high-density D-Type socket) 1 x Stereo analog audio output (26 pin high-density D-Type socket) 1 x Stereo analog audio output (26 pin high-density D-Type socket) 1 x Stereo analog audio output (26 pin high-density D-Type socket) 1 x Stereo analog audio output (27 pin yin x R Stereo analog audio output (28 pin high-density D-Type socket) 1 x Stereo analog audio output (29 pin high-density D-Type socket) 1 x Stereo analog audio output (20 pin hig	Display Resolution	1920 x 1200
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Internal AC power supply with IEC connector 100-240 VAC, 77 typical, 110 W max		
	Internal AC power supply with IEC connector	100-240 VAC, 77 typical,
	Choice of External Battery V-mount or Gold-mount	



Ordering Information

QxP Chassis Options

PHQXP-V	Waveform Monitor/Analyzer, V-mount
PHQXP-G	QxP 3U SD / HD / 2K 10GbE IP Waveform Monitor/Analyzer, G-mount
PHQXP01-3G-V	QxP 3U SD / HD / 2K 10GbE IP/SDI Waveform Monitor/Analyzer, V-mount
PHQXP01-3G-G	QxP 3U SD / HD / 2K 10GbE IP/SDI Waveform Monitor/Analyzer, G-mount
PHQXP01E-3G-V	QxP 3U SD / HD / 2K 10GbE IP / SDI Waveform Monitor/Analyzer, Eye/Jitter, V-mount
PHQXP01E-3G-G	QxP 3U SD / HD / 2K 10GbE IP / SDI Waveform Monitor/Analyzer, Eye/Jitter, G-mount

QxP Chassis Upgrades (Return to Factory)

PHQXPM-01	QxP SDI I/O return to factory upgrade (requires PHQXP)
PHQXPM-01E	QxP SDI Eye/Jitter return to factory upgrade

(requires PHQXP01-3G)

QxP IP Options

PHQXPO-IP-25G	25GbE media network (requires 2x PHSFP-25G-SR or PHSFP-25G-LR)
PHQXPO-IP-MEAS PHQXPO-IP-PCAP PHQXPO-IP-NGT	IP Measurement 2110-21, PIT histograms, Timing PCAP 2x25Gbps line rate capture tool 4GB max. 2022-6 IP Network Traffic Generator Tool (requires PHQXPO-GEN)
PHSFP-10GE-SR	SFP+ 10GBASE-SR Ethernet MM 850nm 300m
PHSFP-10GE-LR	SFP+ 10GBASE-LR Ethernet SM 1310nm 10km
PHSFP-25GE-SR	SFP28 25GBASE-SR Ethernet MM 850nm 100m
PHSFP-25G-LR	SFP28 25GBASE-LR Ethernet SM 1310nm 10km

QxP SDI/IP Software Options

axe 3DI/IP Software Options	
PHQXPO-DOLBY	Dolby E Decoder, Metadata Analyser, LtRt/LoRo downmit metering
PHQXPO-GEN	SDI/IP AV Test Signal Generator (SDI requires PHQXP01-3G or PHQXP01E-3G)
PHQXPO-UHD	2K Extended + UHD/4K IP/SDI (ST 2110 requires PHQXPO-IP-25G) (SDI requires PHQXP01-3G or PHQXP01E-3G)
PHQXPO-EUHD	Add RGB, 12b, 444, 48-60 Hz UHD formats to ST2110 (requires PHQXPO-UHD)
PHQXPO-HDR	HDR/WCG support, CIE1931, HDR Heat map (PQ, HLG, S-Log3, SR Live)
OvP SDI Ontions	

QxP SDI Options PHQXPO-SDI-

PHQXPO-SDI-	12G-SDI Stress Test Toolset
STRESS	(requires PHQXP01E-3G, PHQXPO-UHD, PHQXPO-GEN)
PHSFP-RT12-1310	SFP+ SM(10km) LC Non-MSA, Tx 1310nm, Rx 1260-1620nm SD*/HD/3G/6G/12G-SDI

QxP Fitting Kits / Cables

PHQXC-1	12G-SDI Eye Measurement Test Cable 1m
PHQXK7	3U 19 inch rackmount kit (1x QxP Chassis)
PHQXK8	3U 19 inch rackmount kit (2x QxP Chassis)
PHQXK9	QxP desktop kit (adjustable feet plus handle)

Please see the PHABRIX

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