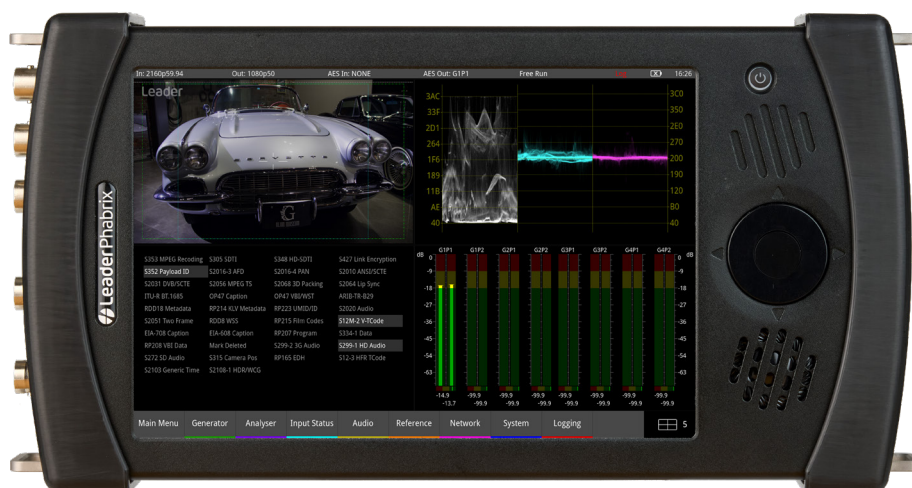


Sx2 Series

Handheld Test & Measurement Instruments for 12G-SDI Signal Generation, Analysis & Monitoring



Built on proven PHABRIX and Leader Technology

The new LeaderPhabrix Sx2 Series represents the next generation of advanced video and audio test and measurement technology, purpose-built to support today's 12G-SDI and 4K UHD workflows. Combining powerful signal generation, analysis, and monitoring capabilities in a compact and versatile platform, the Sx2 Series, comprised of the Sx2 and Sx2E deliver the performance and reliability required across manufacturing, production, post-production, and broadcast facilities.

High-performance 12G-SDI Power

The Sx2 Series' 12G-SDI support delivers the bandwidth required for high-resolution, high-bandwidth media workflows. By enabling full 4K UHD signal analysis over a single coaxial interface, the Sx2 simplifies setup while ensuring uncompromised signal integrity and accuracy. This capability has made it sought after across manufacturing, production and broadcast facilities, where the need for reliable, high-performance 12G-SDI monitoring continues to grow rapidly alongside the adoption of UHD content.

Physical Layer Validation with 12G-SDI Real-Time Eye

Ideal for SDI physical layer line checking, commissioning, and testing, the Sx2E is unique in offering rapid display and analysis of 12G-SDI, 3G, HD, and SD-SDI physical interfaces, combined with a sophisticated Real-Time Eye and Jitter measurement toolset.

Handheld HDR Measurement and Analysis*

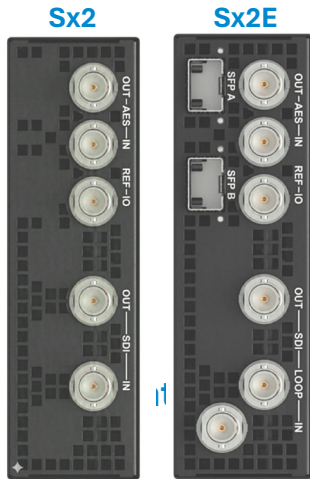
The Sx2 brings comprehensive HDR measurement and analysis to a truly handheld form factor. Supporting today's leading HDR formats and color spaces, the Sx2 provides the precision required to evaluate luminance, color gamut and transfer characteristics, helping ensure SDR and HDR content is captured, processed and delivered exactly as intended.

**Optional Software License*

Key Features

- Handheld 12G-SDI 4K UHD instrument for video/audio signal generation, analysis and monitoring
- 12G / 6G / 3G / 1.5G / 270M-SDI, 4K / UHD / HD / SD Analysis and Generation
- Optional 12G-SDI Physical Layer Analysis (EYE)
- Optional HDR Measurement & Analysis with class-leading waveforms
- User-swappable lithium-ion rechargeable battery and USB-C charging port
- Intuitive and responsive touchscreen interface, plus precise rotary control
- Operating configurations can be saved as presets, enabling instant recall of preferred setups for different applications and test scenarios
- Built-in speaker and headphone jack
- As standard Video Analysis Toolset includes: Picture View, Waveform Monitor, Vectorscope, Ancillary data monitoring, ANC status, on-screen decoding of OP47, CTA-608 embedded within CTA-708, and native CTA-708 closed captions, plus Ancillary Time Code (ATC) display
- 16 channel audio metering from selectable SDI audio groups (Groups 1-4 or 5-8), for up to 128 audio channel analysis depending on SDI format, and 2 channel AES & Analog input metering
- Advanced generation toolset including extensive test patterns
- Remote access and control via its REST API
- LeaderPhabrix soft carry case, hand and shoulder strap included as standard
- Optional backup batteries, external battery charger and VESA mounting plates can be purchased

Sx2 Series - BNC Connections and Connecting Additional Devices



BNC Connections

- **SDI In** - Sx2 accepts an SDI signal from a device via the SDI In connector.
- **SDI Out** - The Sx2's generator outputs an SDI signal via the SDI Out connector.
- **SDI Loop Out** - Sx2 can loop the SDI Input source to the SDI Loop Out connector, up to 12G (Sx2E only)
- **REF I/O** - Sx2 can connect to an external reference signal via the REF-IO connector.
- **AES I/O** - Digital audio is connected to the Sx2 via the AES In and Out connectors.

Connecting Additional Devices

- **USB-C Ports** for Power/charging or external memory sticks (transferring screenshots, presets, user test patterns or for upgrading the unit).
- **USB-C DisplayPort** - A DisplayPort signal is available through the USB-C ports. Fixed output resolution: 1920×1200.
- **Analog Audio I/O** - Analog audio is connected via the 15-Way-D type high density connector (breakout cable required).
- **Speaker/Headphones Jack**



Specifications

Formats Supported	Sx2	Sx2E
SDI I/O	●	●
12G / 6G / 3G / 1.5G / 270M-SDI, 4K / UHD / HD / SD Analysis	●	●
12G / 6G / 3G / 1.5G / 270M-SDI, 4K / UHD / HD / SD Generation	●	●
HDR/WCG	○	○
SDI Inputs / Outputs		
SDI Input - up to 12G - 1 x 75 ohm BNC	●	●
SDI Output - Input Loop Out up to 12G - 1 x 75 ohm BNC	N/A	●
SDI Output - Generator up to 12G - 1 x 75 ohm BNC	●	●
Physical Layer Measurements		
Automated measurement - Eye amp, Rise/Fall time, Delta, Rise/Fall Overshoot	N/A	●
Jitter thermometers alignment, timing	N/A	●
Eye bit rates 12Gbps, 6Gbps, 3Gbps, 1.485Gbps, 270Mbps	N/A	●
Audio Inputs/Outputs		
AES Input - 1 x 75 ohm BNC	●	●
AES Output 1 x 75 ohm BNC	●	●
Analog Audio Input/Output (via 15-Way-D type high density connector)	●	●
Reference		
Reference In - 1 x 75 ohm BNC	●	●
Networking & Control		
Ethernet - 1000 BASE T Connector	●	●
Monitoring		
Headphones - 3.5mm stereo jack socket	●	●
Speaker	●	●
Dolby® E, Dolby Digital, Dolby Digital Plus™, and Dolby ED2 Detection	●	●
16 channel embedded audio	●	●
Logging		
Eye and Jitter & Export Log	N/A	●
SDI Signal & Export Log	●	●
General		
Internal Battery supply - Lithium ION Smart Battery	●	●
AC/DC USB-C Power Supply	○	○
USB-C Port for Power	●	●
USB-C Port for DisplayPort	●	●
Spare Internal Battery Pack	○	○
External Charger for Spare Battery	○	○
VESA Mounting Plate	○	○
LeaderPhabrix Soft Carry Case, Hand Strap, Shoulder Strap	●	●
Form Factor		
Size (Width x Height x Depth)	261 x 135 x 57 mm	261 x 135 x 57 mm
Weight including battery and hand strap	1.5kg	1.75kg
Warranty		
1 year manufacturer's warranty	●	●
Extended Warranty Package (3-5 years)	○	○

Ordering Information

Base Units

SX2	Sx2 12G-SDI Handheld Analyzer, Generator, Monitor. Supports 270M/1.5G/3G/6G/12G-SDI. Analog Audio In/Out, AES In/Out. Includes Lithium-ion Battery and LeaderPhabrix soft carry case. <i>Power supply unit is not included.</i>
SX2E	Sx2E 12G-SDI Handheld Analyzer, Generator, Monitor with EYE Pattern Analysis. Supports 270M/1.5G/3G/6G/12G-SDI with Loop Out. Analog Audio In/Out, AES In/Out. Includes Lithium-ion Battery and LeaderPhabrix soft carry case. <i>Power supply unit is not included.</i>

Software Options

SX2-HDR	HDR/WCG, HDR Heatmap (PQ, HLG, S-Log3, SR Live)
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Accessories

SX2-PSU	Power supply unit
SX2-BATT	Spare internal battery pack
SX2-CHG	External charger for spare battery
SX2-VESA	VESA mounting plate

Cables

PHSXC-1	Audio cable - D15 break out cable for Analog audio
PHQXC-1	12G-SDI Eye measurement test cable 1m [Sx2E only]

Extended Warranty

SX2-3YEAR	Sx2 upgrade from 1 to 3 year warranty
SX2-5YEAR	Sx2 upgrade from 1 to 5 year warranty
SX2E-3YEAR	Sx2E upgrade from 1 to 3 year warranty
SX2E-5YEAR	Sx2E upgrade from 1 to 5 year warranty

Accessories



Leader Electronics of Europe Limited
Omega House, Enterprise Way, Thatcham, Berkshire
RG19 4AE
United Kingdom

Tel: + 44 (0)1635 873030
Email: sales@leadereurope.com
Web: www.leaderphabrix.com.