

# Leader

# **SxA** Portable 3G/HD/SD Generation, Analysis & Video/Audio Monitoring



## **SxA Overview**

# PHABRIX's SxA is a 3G-SDI, HD-SDI and SD-SDI portable video test signal generator, monitor and analyzer.

With its impressive 4.3 inch 16:9 TFT monitor and easy to control menu buttons, the PHABRIX SxA has been designed specifically for the professional broadcast engineer.

The SxA offers advanced signal generation, analysis and monitoring capabilities. There's support for SMPTE compliance testing with over 350 different formats. Configured with a full range of test patterns, both static and animated, the SxA is ideal for studio, OB, and lab environments operating from either the internal battery or via the included mains adaptor.

An extensive array of video and audio tools include a multi-format waveform, vectorscope and video display, plus data view and VANC/ANC inspector. Over 350 formats are supported for compliance monitoring. Signal generation offers 32 test patterns, including pathological.

The SxA features support for 16-channel audio metering and bitstream generation and analysis of Dolby E, Dolby Digital and Dolby Digital Plus. Embed a single external 48kHz synchronous AES stream into the generated video stream, as well as extract embedded audio and export it via the AES output.

Advanced AV Delay Generation and Analysis tools offer an end-to-end solution for the measurement of Audio to Video differential delay through a broadcast system. The tool provides a realtime update of the differential delay between the video content and the selected audio channel pair to measure the propagation (latency) or pipeline delay.

With a built-in TCP/IP interface for remote control and comprehensive status logging with custom reports, the PHABRIX SxA offers unmatched ease of use for busy engineers who need to diagnose faults and assure compliance quickly.

## SxA Key Features

- 3 in 1 Generator, Analyzer, Monitor
- 3G-SDI, HD-SDI, SD-SDI, AES
- High quality 16:9 picture monitor
- Superior ease of use
- AV delay generation and analysis
- 32+ video test signals standard
- Moving zone plate standard
- Text and logo ident
- 16 channel embedded audio
- Audio genlock Bi/Tri/SDI cross lock
- 16 channel audio metering
- Bitstream generation and analysis of Dolby E, Dolby Digital and Dolby Digital Plus
- AES Audio metering
- Waveform monitor
- Vectorscope
- Rugged reliability
- Ethernet based remote operation
- Battery and mains power

## PHABRIX SxA 3-in-1 Generator/Analyzer/Monitor



## **Specifications**

Display resolution440 x 272 pixels auto scalingDisplay type16:9 24 bit color TFTDisplay size95 x 54mmProcessingAlt digitalVideo3G-SDI, HD-SDI, SD-SDISDI3G-SDI, HD-SDI, SD-SDIOutputs1 x 75 Ohm BNCInputs1 x 75 Ohm BNCGentockBi/Tri/SDI with cross lockAdjustable timing0 to 1 frameText identYes with font, color, point sizeLogo identYesEDHYes (SD-SDI)Video Test Signals32± including full frameBesolution10 bitsStatic Test Patterns322± including full frameUser definedDPX, YUV, TGA, BMPZone plate3Gbps, 1.485Gbps, 270 MbpsFrame rate selectionYesVideo Inputs/Outputs3Gbps, 1.485Gbps, 270 MbpsFrame rate selectionYesAudio24 bit stereoAudio DAC24 bit stereoHeadphone socket3.5mm with auto line outGenerator/Monitor48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI)Ats Soutput1 x 75 Ohm BNCAudio base11 Hz 24 kHz in 1 Hz stepsIntermittent toneYesWhite noise generationYesWhite noise generationYesMuita polase invertYesMuita polase invertYesCeneralYesNavigation panelS menu keys, 8 custom selectInterral storageGenerationNavigation panelS menu keys, 8 custom selectIntergral batte	Monitor	
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Carry caseIncludedAC power supplyIncluded (universal)SecurityKensington lock fitting	Remote control	Web browser interface
AC power supply Included (universal) Security Kensington lock fitting	Ethernet	Yes
Security Kensington lock fitting	Carry case	Included
	10 ·····	Included (universal)
	AC power supply	
Size FI: 9211111, W: 22511111, D: 4211111	AC power supply Security	Kensington lock fitting
Weight 0.9Kgs		Kensington lock fitting H: 92mm, W: 225mm, D: 42mm

#### Schematic of the SxA





PHABRIX soft carry case and AC power supply included as standard



# **Ordering Information**

#### Handheld Device

PHSXAES - SxA AES SD/HD/3G Handheld unit with PHABRIX soft carry case

#### SxA Software Options

PHSXOS - Command Scripts and Reports (Repeat testing and create print report)
PHSXOSD - SDI Data Display + VANC/ANC Inspector
PHSXOR - Enhanced Remote Control integration
PHSXOZ - Advanced zone plate generator (Programmable Y zone plate)
PHSXOF - Advanced video formats + 2K (422/444, YUV/RGB, 10/12bit, SMPTE 428-9
D-Cinema/SMPTE ST 2048-2:2011)
PHSXO-DAG - Dolby E/D/D+ analysis + generation (streaming, metering, timing)
PHSXO-AVD - AV Delay Analysis
PHSXO-ENG - Engineering bundle with six options, namely PHSXOS, PHSXOSD, PHSX-OR, PHSXOZ, PHSXOF, PHSXO-DAG

#### Accessories

**PHSXWM** - Sx Wall mounting bracket

#### **Extended Warranty**

PHSX-3YEAR - 3 Year Warranty PHSX-5YEAR - 5 Year Warranty

> Leader Electronics of Europe Limited Omega House, Enterprise Way, Thatcham, Berkshire RG19 44E United Kingdom tel + 44 (0)f638 873030 email: sales@leadereurope.com www.leadereurope.com July 2025