



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

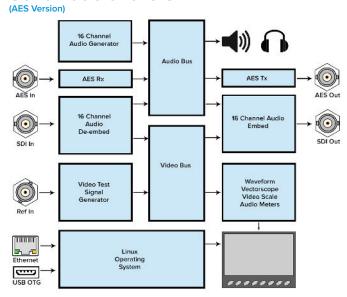
PHABRIX SxA 3-in-1 Generator/Analyzer/Monitor



Specifications

Monitor	
Display resolution	480 x 272 pixels auto scaling
Display type	16:9 24 bit color TFT
Display size	95 x 54mm
Processing	All digital
Video	
SDI	3G-SDI, HD-SDI, SD-SDI
Outputs	1 x 75 Ohm BNC
Inputs	1 x 75 Ohm BNC
Genlock	Bi/Tri/SDI with cross lock
Adjustable timing	0 to 1 frame
Text ident	Yes with font, color, point size
Logo ident	Yes
EDH	Yes (SD-SDI)
Video Test Signals	
Resolution	10 bits
Static Test Patterns	32+ including full frame
User defined	DPX, YUV, TGA, BMP
Zone plate	Yes
Video Inputs/Outputs	103
SDI bit rates	3Gbps, 1.485Gbps, 270 Mbps
Frame rate selection	Yes
SMPTE formats supported	See www.phabrix.com
A 11	
Audio	
Internal speaker	0.5 W
Internal speaker Audio DAC	24 bit stereo
Internal speaker Audio DAC Headphone socket	24 bit stereo 3.5mm with auto line out
Internal speaker Audio DAC Headphone socket Generator/Monitor	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI)
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI)
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Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 17 1 Hz-24 kHz in 1 Hz steps Yes
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 17 1 Hz-24 kHz in 1 Hz steps Yes Yes
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation Audio levels variable	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 Hz-24 kHz in 1 Hz steps Yes Yes 0 to 100dB in 1 dB steps
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation Audio levels variable Audio phase invert	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 17 1 Hz-24 kHz in 1 Hz steps Yes Yes
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation Audio levels variable	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 Hz-24 kHz in 1 Hz steps Yes Yes 0 to 100dB in 1 dB steps
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation Audio levels variable Audio phase invert General Navigation panel	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 17 1 Hz-24 kHz in 1 Hz steps Yes Yes 0 to 100dB in 1 dB steps Yes 5 menu keys, 8 custom select
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation Audio levels variable Audio phase invert General Navigation panel Integral battery supply	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 17 1 Hz-24 kHz in 1 Hz steps Yes Yes 0 to 100dB in 1 dB steps Yes 5 menu keys, 8 custom select 2 hours lithium polymer
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation Audio levels variable Audio phase invert General Navigation panel	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 17 1 Hz-24 kHz in 1 Hz steps Yes Yes 0 to 100dB in 1 dB steps Yes 5 menu keys, 8 custom select
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation Audio levels variable Audio phase invert General Navigation panel Integral battery supply Internal storage Remote control	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 Hz-24 kHz in 1 Hz steps Yes 0 to 100dB in 1 dB steps Yes 0 to 100dB in 1 dB steps Yes 5 menu keys, 8 custom select 2 hours lithium polymer 8GB Web browser interface
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation Audio levels variable Audio phase invert General Navigation panel Integral battery supply Internal storage Remote control Ethernet	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 Hz-24 kHz in 1 Hz steps Yes 0 to 100dB in 1 dB steps Yes 0 to 100dB in 1 dB steps Yes 2 hours lithium polymer 8 GB Web browser interface Yes
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation Audio levels variable Audio phase invert General Navigation panel Integral battery supply Internal storage Remote control Ethernet Carry case	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 Hz-24 kHz in 1 Hz steps Yes 0 to 100dB in 1 dB steps Yes 0 to 100dB in 1 dB steps Yes 5 menu keys, 8 custom select 2 hours lithium polymer 8GB Web browser interface Yes Included
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation Audio levels variable Audio phase invert General Navigation panel Integral battery supply Internal storage Remote control Ethernet Carry case AC power supply	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 Hz-24 kHz in 1 Hz steps Yes 0 to 100dB in 1 dB steps Yes 0 to 100dB in 1 dB steps Yes 5 menu keys, 8 custom select 2 hours lithium polymer 8GB Web browser interface Yes Included Included (universal)
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation Audio levels variable Audio phase invert General Navigation panel Integral battery supply Internal storage Remote control Ethernet Carry case AC power supply Security	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 Hz-24 kHz in 1 Hz steps Yes 0 to 100dB in 1 dB steps Yes 0 to 100dB in 1 dB steps Yes 5 menu keys, 8 custom select 2 hours lithium polymer 8GB Web browser interface Yes Included Included (universal) Kensington lock fitting
Internal speaker Audio DAC Headphone socket Generator/Monitor AES Output AES Input Audio Test Signal Fixed tones Variable tones Intermittent tone White noise generation Audio levels variable Audio phase invert General Navigation panel Integral battery supply Internal storage Remote control Ethernet Carry case AC power supply	24 bit stereo 3.5mm with auto line out 48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI) 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 x 75 Ohm BNC 1 Hz-24 kHz in 1 Hz steps Yes 0 to 100dB in 1 dB steps Yes 0 to 100dB in 1 dB steps Yes 5 menu keys, 8 custom select 2 hours lithium polymer 8GB Web browser interface Yes Included Included (universal)

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)

 PHSXOD - SDI Data Display + VANC/ANC Inspector

 PHSXOR - Enhanced Remote Control integration

 PHSXOF - 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-ENG - Engineering bundle with six options, namely PHSXOS, PHSXOSD, PHSXOR, PHSXOZ, PHSXOF, PHSXO-DAG

 Accessories

PHSXWM - Sx Wall mounting bracket

Extended Warranty

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

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