PHABRIX®
broadcast excellence

PICK HIT
BroadcastEngineering 2009

iabm AWARD

PHABRIX® SxE
Generator/Analyser/Monitor
EYE AND JITTER + AES

Introducing the next generation from PHABRIX® representing a huge leap of technology for hand held test and measurement.
The new eye and jitter PHABRIX SxE

The PHABRIX SxE is a revolutionary new product designed to meet the specific demands of both broadcast and manufacturing industries who require eye and jitter measurement. With all the toolsets available in the award winning PHABRIX SxA, the new SxE is a technological marvel.

The ability of the SxE to produce eye patterns from a 3G signal is particularly significant for those users requiring a solution for testing high end products in the 3G arena. The SxE's 3G-SDI, HD-SDI and SD-SDI eye display allow highly detailed measurements to be made. Jitter measurements are among the more important requirements in the design and operation of high-speed serial links and these can be obtained using the SxE's thermometer display for 'go' or 'no- go' SMPTE compliance testing. These comprehensive features propel the SxE into the domain of much more expensive bench bound products.
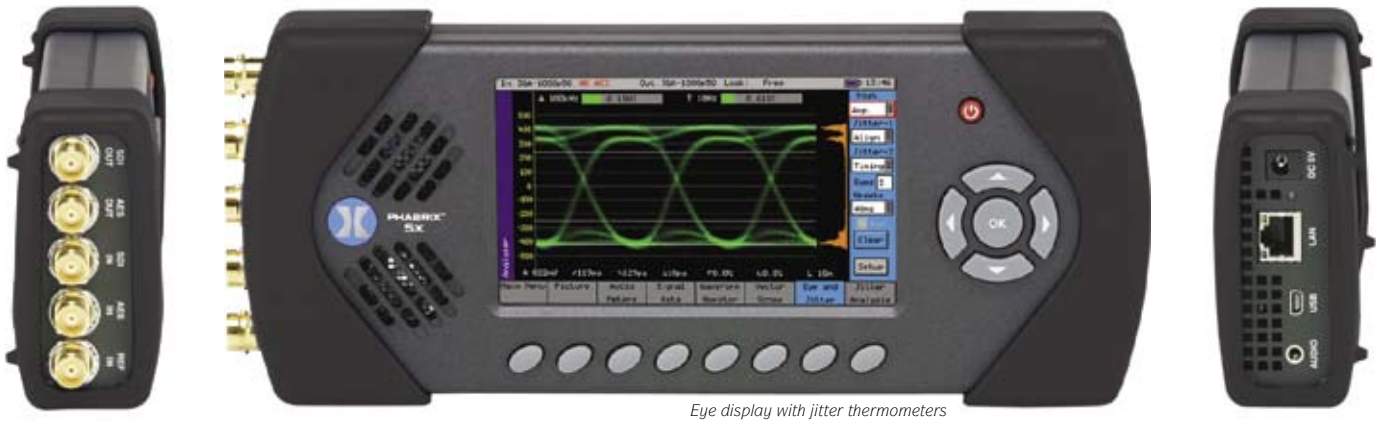
The SxE's intuitive interface and logical workflow allow the professional engineer to quickly select from the numerous on-board toolsets. Feedback is smooth and interactive clearly displaying eye and jitter waveforms with optional filter selection for timing and alignment measurements on its clear 4.3" 16:9 colour TFT screen.

FEATURE HIGHLIGHTS
PHABRIX SxE (AES)

- **3 IN 1**, **GENERATOR/ANALYSER/MONITOR**
- EYE MEASUREMENTS
- JITTER MEASUREMENTS
- 3G-SDI, HD-SDI, SD-SDI, AES
- HIGH QUALITY 16:9 PICTURE MONITOR
- SUPERIOR EASE OF USE
- 32 + VIDEO TEST SIGNALS STANDARD
- MOVING ZONE PLATE STANDARD
- TEXT AND LOGO IDENT
- 16 CHANNEL EMBEDDED AUDIO
- AUTO GENLOCK BI/TRI/SDI CROSS LOCK
- 16 CHANNEL AUDIO METERING
- WAVEFORM MONITOR
- VECTORSCOPE
- RUGGED RELIABILITY
- ETHERNET BASED REMOTE OPERATION
- BATTERY + MAINS POWER

Eye display with jitter thermometers

PHABRIX® SxE 3 in1 Generator/Analyser/Monitor with Eye and Jitter

MONITOR

Display resolution	480 x 272 pixels auto scaling
Display type	16:9 24 bit colour TFT
Display size	95 x 54 mm
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, colour, 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 INPUT/OUTPUTS

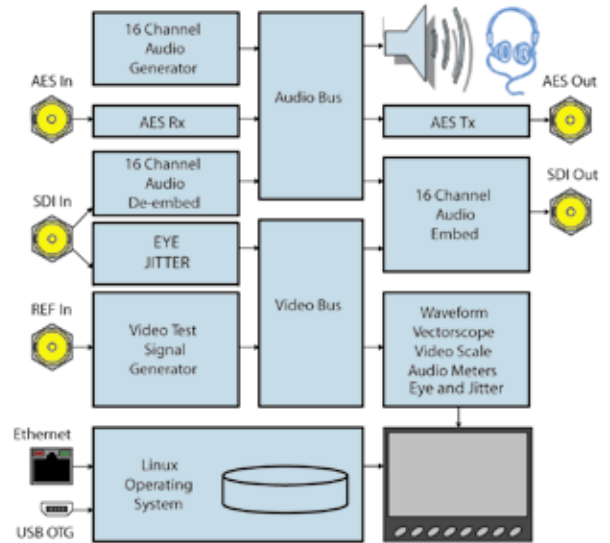|	
SMPTE formats supported	See www.phabrix.com
Eye bit rates	3Gbps,1.485Gbps, 270 Mbps
Jitter	SMPTE specification filters
Jitter thermometers	Alignment, Timing

AUDIO

Internal speaker	0.5 watts
Audio DAC	24 bit stereo
Headphone socket	3.5 mm with auto line out
Generator/Monitor	48 kHz 20-bit (SD-SDI) 24-bit (HD-SDI)
16 channel embedded audio	Yes
AES output	1 x 75 Ohm BNC
AES onput	1 x 75 Ohm BNC

AUDIO TEST SIGNAL

Fixed tones	17
Variable tones	1Hz-24Khz in 1Hz steps
Intermittent Tone	Yes
White noise generation	Yes
Audio levels variable	0 to -100dB in 1dB steps
Audio phase invert	Yes

GENERAL

Navigation panel	5 menu keys, 8 custom select
Integral battery supply	3 hours lithium polymer
Internal Storage	2GB (upgradable)
Remote control	Web Browser Interface
Ethernet	Yes
Carry case	Included
AC power supply	Included (universal)
Security	Kensington™ lock fitting
Size	H: 92mm W: 225mm D: 42mm

Schematic of the PHABRIX SxE (EYE & JITTER version)

Carry case and AC power supply as standard

PHABRIX®

ORDERING INFORMATION

Hardware

PHABRIX SX-E	EYE and JITTER SDI and AES I/O
Product code	**PHSXE**

Options

Please see separate options sheet for available engineering upgrade features.

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