Rx Series

ADVANCED RASTERIZERS FOR SIGNAL GENERATION, ANALYSIS & MONITORING
2K/3G/HD/SD

Rx 500
2 channel analyzer/generator & monitoring solution

Rx 1000
Compact 4 channel analyzer/generator & monitoring solution

Rx 2000
4 channel analyzer/generator & monitoring solution via dual built-in screens and audio speakers

Faster fault diagnosis, ultra flexible monitoring

Based on the award-winning Sx portable test & measurement range, the rackmounted Rx series of rasterizers delivers advanced 2K/3G/HD/SD signal generation, analysis and monitoring for faster compliance testing and fault diagnosis of both video and audio signals.

3x The Choice

The Rx series is available in 3 form factors, from a full 2RU 4 channel rasterizer with built in monitoring to a compact 2 channel rasterizer, all with the same features and tools.

Up to 16 simultaneous instruments

Monitoring workflows are optimized with ultra-flexible, userdefined instrument display layouts. Up to 16 instruments can be presented simultaneously, at sizes ranging from full screen down to 1/16 screen. In multi-channel environments, channel identification is simplified with a dedicated window color per channel.

Monitoring configurations can be built to suit individual operators and key applications, with rapid recall of layout pre-sets for fast turnarounds. Up to 99 presents are available to suit even the largest facility.

Video Capture & Remote Access

To speed intermittent fault finding, the Rx Series offers video and audio capture to help diagnose problems. The capture can be triggered automatically when faults are identified by the analyzer, according to user-defined criteria. Fault diagnosis is also quickened by the remote access capability, which allows engineers to monitor and analyze video via a web browser from any location.

Four Channel Eye & Jitter

Advanced diagnostic tools include up to four simultaneous Real-Time Eye™ and Jitter physical layer analysis instruments plus closed caption, loudness and Dolby® monitoring. This makes the Rx Series ideal for OB trucks, broadcast facilities and video technology manufacturers.

Key Features

- Available in three form factors - 2RU, 1RU, 1/2 1RU

- 2K/3G/HD/SD Signal generation, analysis and monitoring toolsets

- Display up to 16 instruments on a single 1920 x 1080 screen

- Monitor and analyze up to 4 channels simultaneously

- Up to 99 configurable presets with rapid recall to suit individual operators

- Rx 2000 offers monitoring via built in speakers and screens

- Fully-featured video toolset as standard: Waveform, Vectorscope, Closed Caption, AV Delay Generation, ANC Status

- Multi-channel audio analysis including loudness and downstream monitoring as standard

- Fault finding and logging toolset as standard

- AV Delay Analysis

- Optional Dolby® Generator, Metadata Analysis and Decoder Toolsets

- Optional Video and Audio Generation Toolset

- Up to four simultaneous Real-Time Eye (RTE™) and Jitter physical layer analysis instruments

- Video and audio capture to help diagnose intermittent problems

- Enhanced Remote control and monitoring via a web browser in any location

Specifications

Description	Rx 500	Rx 1000	Rx 2000
SD-SDI, HD-SDI as standard	●	●	●
Optional 3G-SDI (license)	O	O	O
Dual 16:9, 24 bit, 4.3" TFT, 480 x 272 pixels	N/A	N/A	●
OLED display	●	●	N/A
Front panel backlit navigation keypad	●	●	●
Front panel volume/gain control	●	●	●
Front panel headphone connector 6.3mm (1/4 inch) Stereo jack	●	●	●
Front panel USB 2.0 host port type A socket + 2 rear panel USB 2.0 ports	●	●	●
Internal loudspeaker	Beeper	Beeper	2 x 7w wide range
I/O Module slots (each supporting a range of audio/video modules)	2	4	4
Internal Dual Dolby® decoder module slot (option)	1	1	1
HDMI instrument output, 1920 x 1080, 4:4:4 RGB, Type A	●	●	●
SDI instrument output, 1920 x 1080, 4:2:2 YUV, BNC 75 Ohm	●	●	●
Basic SDI generator included as standard (replaces instrument output)	●	●	●
8 channel 48kHz PCM audio on HDMI and SDI Instrument outputs	●	●	●
Reference/VITC input, passive loop through, BNC 75 Ohm compensated	●	●	●
AES input AES 3-ID, SMPTE 276M-1995, 75 Ohm BNC	●	●	●
LTC input (via 26 pin high density 'D' Type socket)	●	●	●
8x GPI I/O (via 26 pin high density 'D' Type socket)	●	●	●
Stereo analog audio output, (via 26 pin high density 'D' Type socket)	●	●	●
Calibrated stereo balanced analog audio output (option module)	●	●	●
Ethernet remote control via browser, RJ45 connector, 10/100Base-T	●	●	●
IP sockets based remote control as standard	●	●	●
FPGA firmware/software upgrade via Ethernet/USB	●	●	●
Viewing angle tilt mechanism	N/A	N/A	●
Desktop mounting kit	●	●	N/A
19" Rack-mount kit	1U (options)	1U (standard)	2U (standard)
10.5"/9.5" Rack-mount	O	N/A	N/A
Whisper quiet temperature controlled fan	1 x 40mm internal	2 x 40mm external	1 x 60mm external
Power consumption (variable on modules inserted)	24W typical 40W max	24W typical 70W max	27W typical 80W max
4 Pin XLR power connector, 12V nominal (9V-18V)	●	●	●
AC Power adaptor (included), 90-264VAC, 120W	●	●	●
Dimensions (width x height x depth) excluding ears & projections	210 x 44 x 170mm	440 x 44 x 170mm	440 x 88 x 150mm
Weight (chassis with CPU module and 1x AG option module fitted)	1.3kg	2.0kg	2.3kg
1 year manufacturers warranty - 3 & 5 year warranty options available	●	●	●

Rx Rear Panels and Modules

The Rx range can be configured with a range of plug-in modules (printed circuit boards with dedicated hardware for specific functions) that enable functionality in the software and allow various menus to be selected on the front panel allowing different Instrument panels (windows) to be created on the Monitor output.

Rx 500

The Rx 500 starter configuration includes a single channel video analyzer, with optional signal generation and eye/jitter analysis.

Rx 1000

The Rx 1000 starter configuration includes a single channel video analyzer, with optional signal generation and eye/jitter analysis.

Up to 3 more channels of video analysis/generation, or up to 12x AES audio analysis/generation, can be added with expansion modules.

Rx 2000

The Rx 2000 starter configuration includes a single channel video analyzer, with optional signal generation and eye/jitter analysis.

Up to 3 more channels of video analysis/generation, or up to 12x AES audio analysis/generation, can be added with expansion modules.

Installation

Single Rx 500 rackmount tray with cover (PHRXK1)

Dual Rx 500 rackmount (PHRXK2)

Ordering Information

Please visit www.phabrix.com/products/2k-3g-hd-sd-rasterizers/ for the latest ordering information.