What's New
Sx Series Release 14.02

PHABRIX®
A Leader Company

Advanced, Handheld Test and Measurement

This free upgrade provides the Sx with a set off new features and support for a wide range of 2K-HD, 422/10 low frame-rate formats. New features include:

- Improved, dual ST352 Payload ID View with Error Indication in the Byte and Field.
- Free-run Frequency Control (+/– 100 ppm) Tool for the Generator.
- Support for Single Link of a Quad, Dual UHD SDI Interface for 2 Sample Interleave (2SI) and Square Division (SQ).
- Automatic Link Detection of Single Links of Multi-link 3G- and HD-based UHD formats (for example, 4 x 3G, 4 x 1.5 and 2 x 3G Signals.)
- Support for 2K-HD 422/10 and 3GB-DS 2K Low Frame-rate Formats.
- Support for Additional Cable Types: Draka 0.6/2.8 AF S and Percon VK 5/0.6
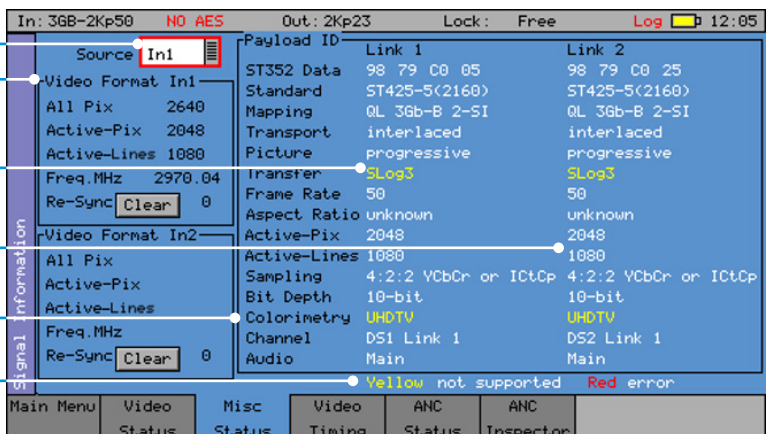- Improved Eye Jitter Logging (SxE Only).

Support for New Video Standards

- SMPTE 292 M (HD/2K, YCbCr 422 10-bit, progressive and progressive segmented frame rates)
- SMPTE 425-1 3G Level-B DS 2.97 Gb/s (2 x (2048 x1080) YCbCr 422 10-bit, progressive and progressive segmented frame rates)

- SMPTE 425-5 3G Level-A/-B Quad Link 2.97 Gb/s (3840 x 2160 and 4096 x 2160, 422 YCbCr, 4224 YCbCrA, RGB, RGBA, 10/12-bit, progressive frame rates)

For a comprehensive list of standards supported consult the PHABRIX website or Sx *User Manuals*

Dual ST352 Payload ID View with Error Indication

The Misc Status menu displays auto-detected and SMPTE ST352 (VPID) parameters for both links of the selected SDI source. As source input for payload inspection, you can select the Analyser input or Generator output for comparison.

SxA and SxE

Selected SDI Source for Analysis
Auto-detected Video Format: Input 1

SMPTE 352 Payload details for Link 1

SMPTE 352 Payload Details for Link 2

Colorimetry Parameter Now Displayed

Detected Errors in Red;
Sx Unsupported Parameters in Yellow

SxD

Selected SDI Source for Analysis
Auto-detected Video Format: Input 1

SMPTE 352 Payload details for Link 1

Auto-detected video format: Input 2 (on SxD Only)
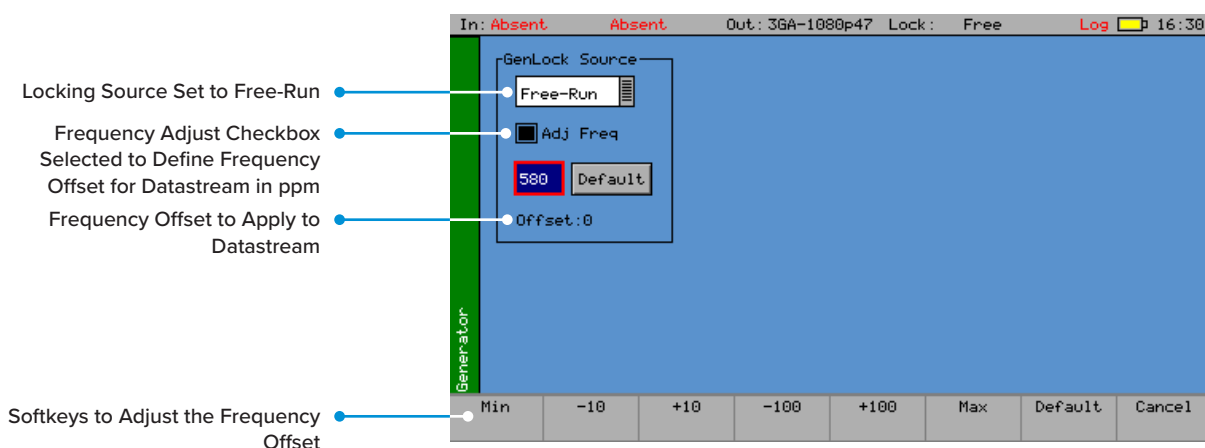
SMPTE 352 Payload Details for Link 2

Detected Errors in Red;
Sx Unsupported Parameters in Yellow

Free-Run Frequency Control

The GenLock menu allows the Sx to be locked to an external studio reference, SDI input or to free-run.

- Setting the Generator Genlock Source of the Sx unit to Free-Run enables you to select an **Adj Freq** checkbox to adjust the frequency of the datastream by more than + / − 100 ppm..
- Use this feature to generate SDI signals that are *off-frequency* to test the susceptibility of a system to absolute clock frequency.

- Adjustable frequency range from 0 to 1024, with the nominal mid-point at approximately 580.
- Increment the value to increase the signal frequency and decrement to decreases the frequency.

Locking Source Set to Free-Run

Frequency Adjust Checkbox Selected to Define Frequency Offset for Datastream in ppm

Frequency Offset to Apply to Datastream

Softkeys to Adjust the Frequency Offset

New Cable Types Supported

The following additional cable types are now supported for cable length indication:

- Draka 0.6/2.8 AF S
- Percon VK 5/0.6

Improved Logging of Eye Jitter on SxE

Jitter thresholds may be set independently for each jitter meter (Jitter-1 and Jitter-2):

- Set different jitter thresholds for each of the three SDI data rates (SD / HD / 3G).
- Independent thresholds for both jitter meters.
- Jitter threshold defaults are the maximum values specified by the SMPTE standard.

New Fields for SD, HD and 3G Data Rates