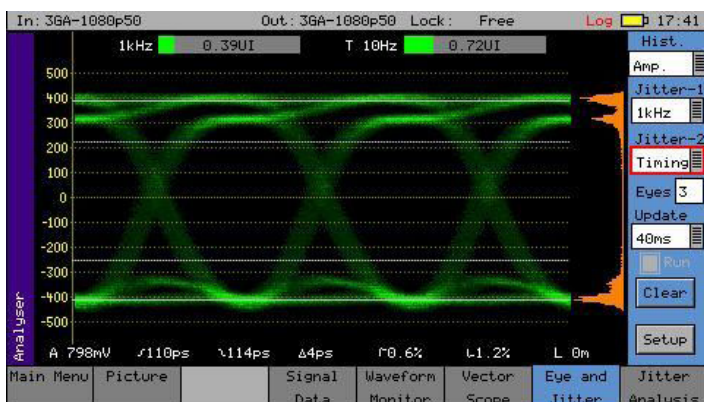# AudioVideo BrandBuilder Corporation

PHABRIX®

ADVANCED EYE & JITTER ANALYSIS

OPTION CODE: PHSXOEA

The analysis option for the PHABRIX SxE adds an additional jitter screen plus enhancements to the eye display and is focused toward broadcast manufacturers who have a need for high end analysis tools.
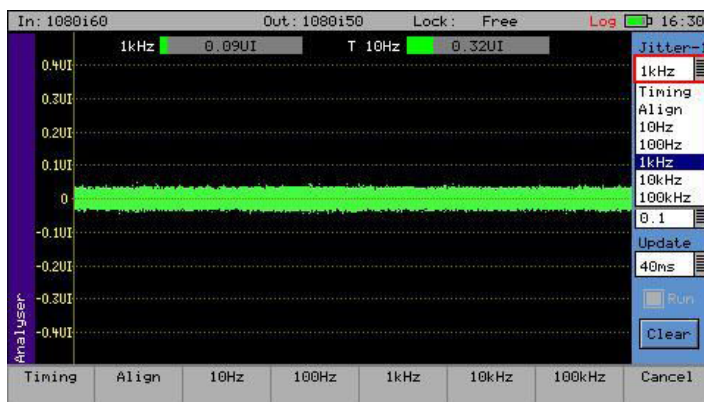
FEATURES HIGHLIGHTS

- EYE & JITTER ANALYSIS
- HISTOGRAMS
- DECADE FILTERS
- MULTIPLE EYE DISPLAY
- FULL SCREEN JITTER DISPLAY
- AUTOMATIC EYE/JITTER MEASUREMENTS

APPLICATIONS

- R&D DEPARTMENTS
- SYSTEM INTEGRATORS
- SUPPORT ENGINEERS

AVAILABLE FOR

- PHABRIX® SxE ONLY

HISTOGRAMS

Histograms give statistical information which can be used to accurately measure rise time, fall time and amplitude. These automatic accurate measurements can then be logged for extended periods of time. Measurements like rise time and fall time are notoriously difficult to make with SDI signals and here is when the PHABRIX® SxE excels - providing user friendly automatic measurements even in the presence of excessive jitter.

DECADE FILTERS

In addition to the standard timing and alignment jitter filters, *Decade Filters* are provided allowing an engineer to analyze the frequency content of any jitter present. The number of eyes displayed is adjustable from one eye up to one frame of an eye – a useful feature for detecting source related power supply problems.

MULTIPLE EYE DISPLAY

Multiple eye selection also enables analysis when serializer jitter is present: Products process video in either a 10 or 20 bit parallel data domain which is subsequently transmitted as a single bit serial data stream. By triggering every 10 or 20 eyes you can reveal repetitive parallel/serial clock domain jitter in the equipment being analyzed.

FULL SCREEN JITTER DISPLAY

The separate jitter analysis screen incorporated into the advanced option enables the engineer to analyze the nature of jitter present using a graph of jitter versus time. Again, the decade filters are present and the time base can be adjusted from one line through to one frame. By analyzing jitter in this detailed way an engineer can determine if a signal is in or out of specification and also get a feel for where any problems lie. A spiky waveform could indicate power supply noise and these visual clues aid the diagnosis. Vertical gain and horizontal magnify controls are provided to help further identify problems.

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