

software

for Sampling Oscilloscopes

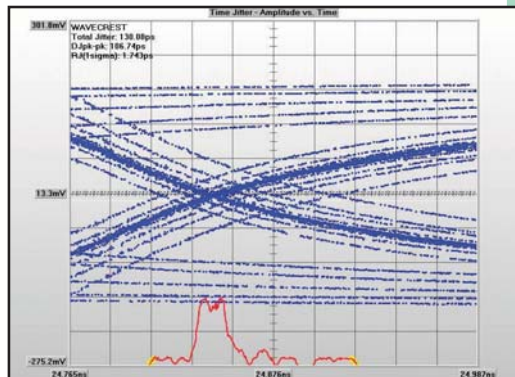
GigaView™ SA

Comprehensive Analysis Software
From the Leader in Signal Integrity

For data rates above 1 Gb/s, signal integrity becomes the most critical issue for determining overall device performance, meaning more comprehensive analysis tools are required. By using WAVECREST's GigaView SA software with a sampling oscilloscope, it is now possible to significantly expand your analysis capabilities. You can quantify Random and Deterministic Jitter and Amplitude components, measure Total Jitter and Total Amplitude Noise to 10^{-16} BER and quantify Data Dependent Jitter. You can determine the horizontal and vertical eye opening to 10^{-16} BER in seconds. GigaView SA works with both Agilent and Tektronix sampling oscilloscopes ensuring your results will correlate independent of manufacturer.

Expand the capabilities of your sampling oscilloscope

- Quantify Random and Deterministic Jitter and Noise
- Determine Total Jitter to 10^{-16} BER
- Determine Total Amplitude Noise to 10^{-16} BER
- Quantify Data Dependent Jitter



Horizontal and vertical eye opening to 10^{-16} BER

Detailed Diagnostics for Timing and Amplitude Measurements

WAVECREST is the leader in signal integrity analysis because of the comprehensive diagnostic tools that take you beyond basic signal integrity measurements. The most time consuming part of signal integrity analysis is during the debug and characterization phases because determining and eliminating signal integrity problems is a lengthy process. With GigaView SA you can shorten the debug and characterization time considerably enabling you to get your product to market faster. The diagnostic capabilities include:

- Identify jitter and noise sources by quantifying random and deterministic components for both timing jitter and amplitude noise. Improved diagnostic capabilities enables faster device characterization and improved problem isolation
- Quantify DDJ on repeating patterns to determine device bandwidth limitations

Benefits of GigaView SA

Improved Diagnostic Capabilities for your Sampling Oscilloscope

Quantify Random and Deterministic Jitter and Noise components and determine Data Dependent Jitter allowing fast problem isolation and resolution

Compliance Measurements

Many of the new high-speed standards require testing devices to 10^{-15} BER, now that measurement can be performed on sampling oscilloscopes

High Throughput

Quantifies important signal integrity parameters in seconds reducing your device characterization time

Proven Technology

Patented algorithms set the standard for signal integrity analysis that can now be utilized on other instruments. WAVECREST delivers results you can trust

Platform Independent

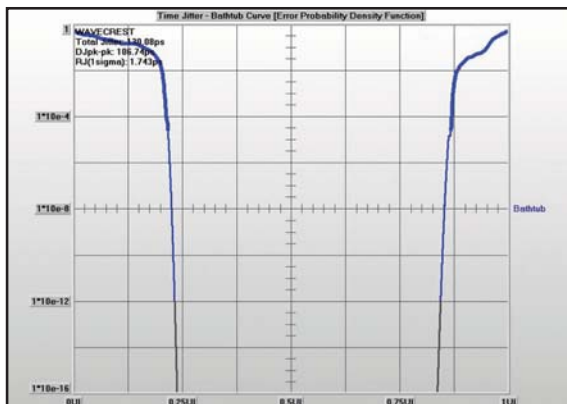
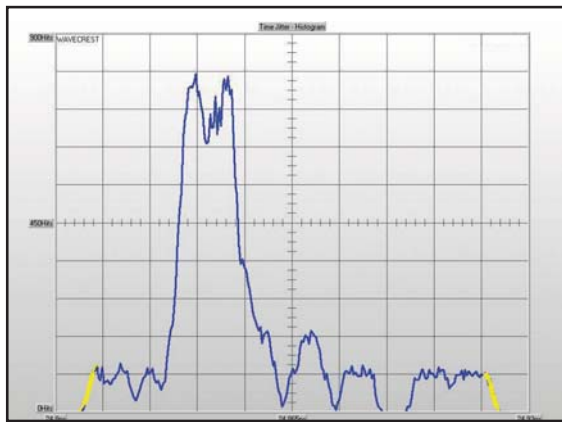
GigaView SA works on Agilent 86100 and Tektronix CSA, TDS 8000 and 8200 Sampling Oscilloscopes ensuring correlation on any platform



WAVECREST

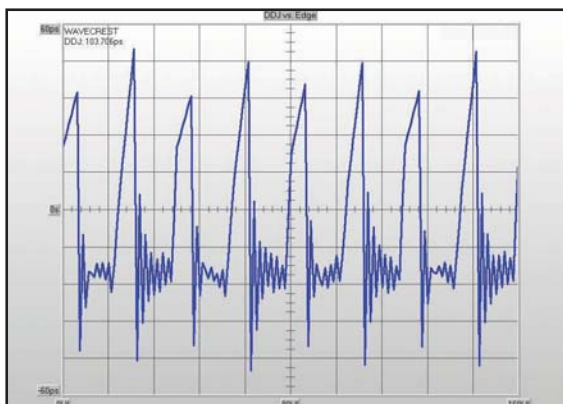
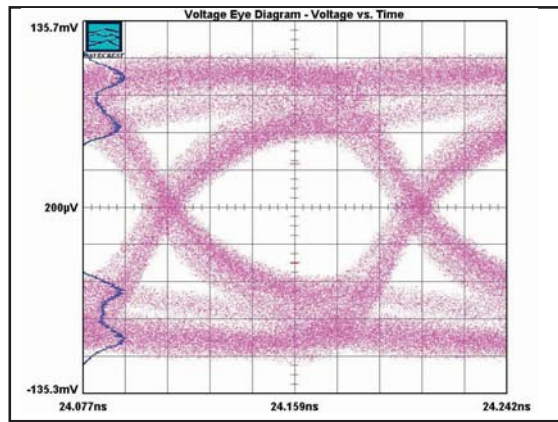
Detailed Diagnostics for Timing and Amplitude

Timing Jitter Analysis



Bathtub Curve Showing Horizontal Eye Opening to 10^{-16} BER

Quantify Random and Deterministic Noise



Data Dependent Jitter of a backplane as a function of bit position

Product Specifications

GigaView SA controls the following equivalent time sampling oscilloscopes:



Agilent 86100 A, B, or C

Tektronix CSA 8000 or TDS 8000 and TDS 8200

- Data rate: 50 Mb/s to 40 Gb/s
- GigaView SA operates on PC and Workstations
- GigaView communicates to the Agilent 86100 via GPIB* and resides on the oscilloscope PC for Tektronix products

*A National instruments GPIB card is required for the Agilent setup.

WAVECREST

Be certain of the signal you send.