



# WAVECREST Signal Integrity Solutions

Serial ATA



## SIA-3000 with GigaView™ Software

### Benefits of the WAVECREST Serial ATA Solution

#### Easy to Use

Improves testing efficiency by providing a single compliance screen with all the required signal integrity test parameters

#### Advanced Diagnostic Capability

Enables fast problem isolation and resolution reducing your time to market

#### Lab and Production Solutions

Fast, accurate and repeatable measurements enable both lab and production testing

#### Upgradeable and Expandable

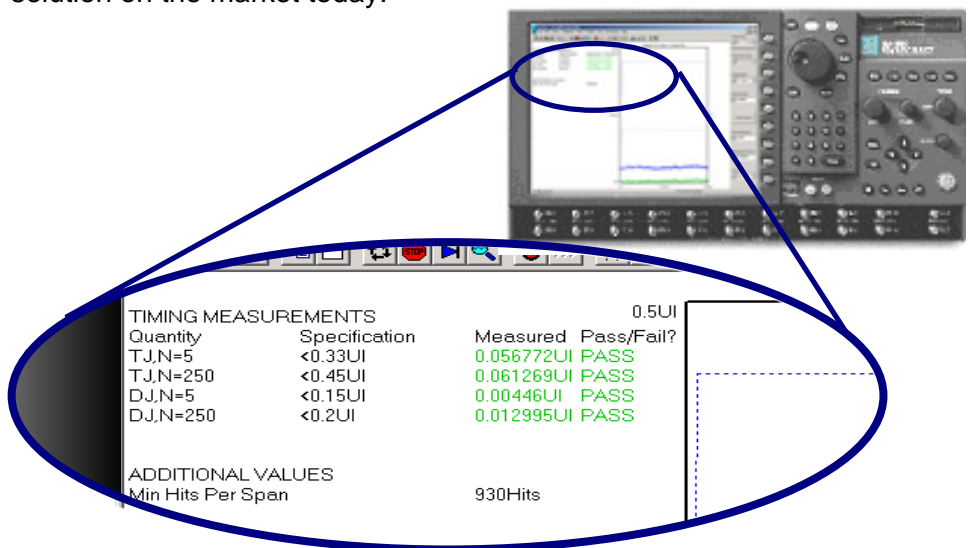
With testing capability above 6Gbps, the SIA-3000 meets your testing needs today (1.5Gbps) and tomorrow (3.0 Gb/s next generation).

### Applications

SERDES, Host Bus Adaptors, Switches, Hard Drives, Motherboards, Cables, Bridges, clocks and PLL's

### Comprehensive Analysis from the Leaders in Signal Integrity

The transition from an ATA bus to 1.5Gbps Serial ATA (SATA) serial data brings on a whole new level of signal integrity design and system challenges. At these high data rates, signal integrity becomes the most critical test for determining overall performance and interoperability. WAVECREST instruments have offered high-speed test capabilities to design engineers for over 10 years. This experience enables us to provide you with all the compliance and diagnostic tools for any SATA application. The WAVECREST solution provides both timing and amplitude compliance measurements in any environment, system or IC. Compliance tests can be completed in seconds with a simple pass/fail indication for each test parameter. It is the most comprehensive and easy to use signal integrity test solution on the market today.



### Detailed Diagnostics for Timing and Amplitude Measurements

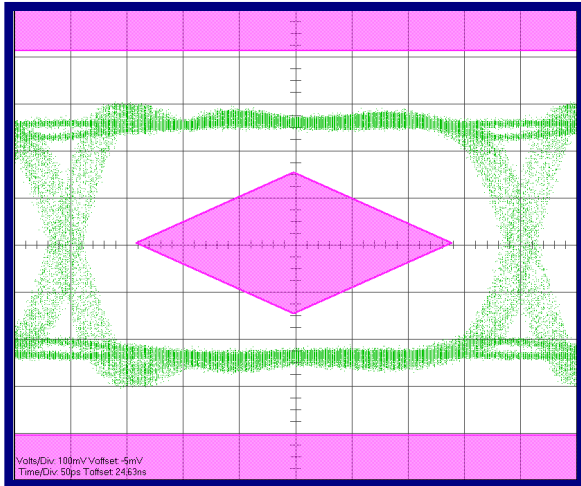
WAVECREST is the leader in signal integrity analysis because of the comprehensive diagnostic tools that take you beyond just making compliance measurements. The most time consuming part of signal integrity analysis is debug and characterization because determining and eliminating signal integrity problems is a lengthy process. With WAVECREST diagnostic tools you can shorten the debug and characterization time considerably so you can get your product to market faster. A few of the diagnostic capabilities include:

- Accurately determine device performance by quantifying random and deterministic jitter components. Accurate performance characterization enables smaller test margins and higher product yield.
- Quickly isolate and quantify unwanted deterministic jitter due to crosstalk and EMI with a spectral view of jitter.
- Perform eye diagram analysis for a quick qualitative view of device performance.

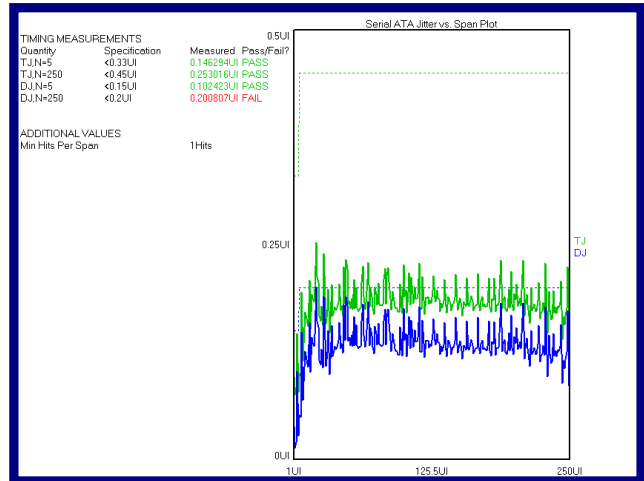
# WAVECREST

The Reference Standard in Signal Integrity

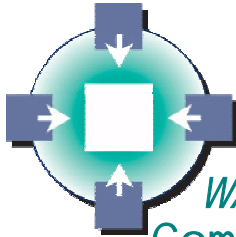
## Eye Mask testing



## Easy Pass/Fail Compliance Testing



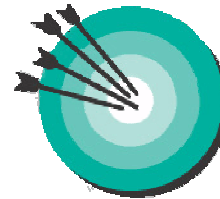
**VERSATILITY**



**COMPLIANCE**

**WAVECREST**  
Comprehensive  
Serial ATA  
Signal Integrity  
Analysis

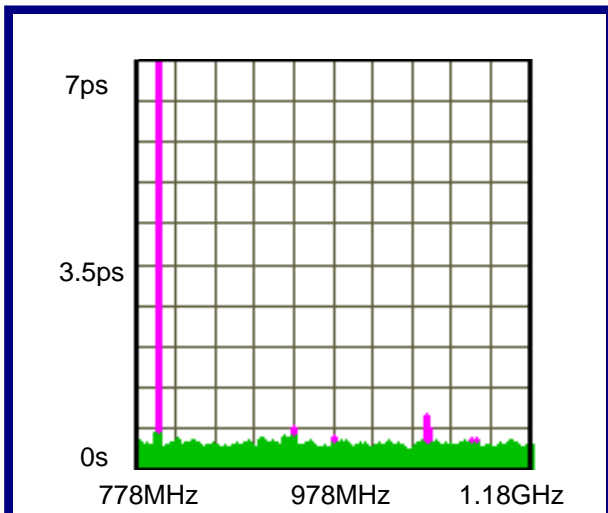
**DIAGNOSTICS**



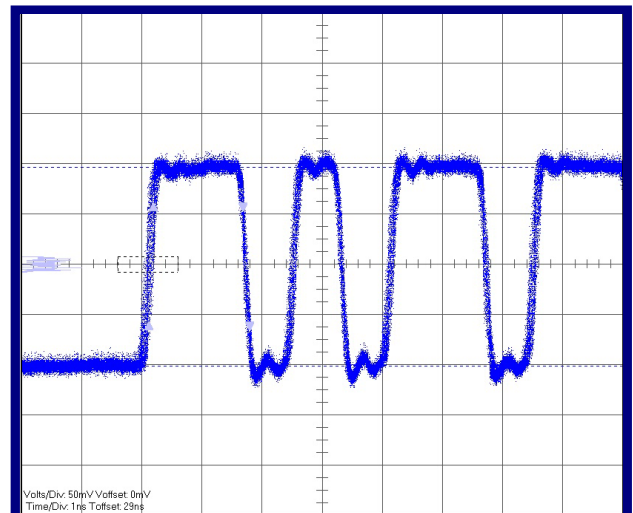
**ACCURACY &  
REPEATABILITY**



**SPEED**



**Spectral view of Jitter**



**Waveform feature analysis**