



## **WAVECREST**

7626 Golden Triangle Drive, Eden Prairie, MN 55344

---

### **NEW PRODUCT FOR IMMEDIATE RELEASE**

#### **Company Contact:**

Avery Scheib  
Director of Marketing  
(952) 831-0030  
ascheib@wavecrest.com

### **Wavecrest Introduces High-Performance Signal Integrity Analyzer with GigaView™ Software**

**Eden Prairie, Minnesota - December 16, 2002** - Wavecrest Corporation announces the release of a new, advanced general-purpose instrument and software package that overcomes the inherent weaknesses and limitations found in oscilloscopes, bit error rate testers, and third-party oscilloscope software. The enhanced Signal Integrity Analyzer SIA-3000™, is the only single instrument solution for industry-standard compliant amplitude and timing measurements that meets PCI Express, Fibre Channel, SAS, Gigabit Ethernet, SATA, DVI/LVDS, InfiniBand™, RapidIO, HyperTransport and XAUI design and test requirements.

Dennis Leisz, president and CEO of Wavecrest states, “The new SIA-3000 with the GigaView™ software takes the guesswork out of designing and production testing to a compliance standard. As a matter of fact, many of our customers come to us after discovering that their oscilloscopes and jitter software packages haven’t provided accurate and repeatable signal integrity measurements. Wavecrest customers want to ensure that their products will meet their customers’ interoperability standards.”

The heart of the enhanced SIA-3000 measurement platform is its twin-engine design. This twin-engine platform utilizes independent circuitry for timing and amplitude measurements. This unique approach for separating timing and amplitude measurements provides a more complete foundation for accurate and repeatable signal integrity analysis. “Real-time digitizing oscilloscopes, such as the latest product offerings from Tektronix, Agilent and LeCroy, are not optimized for high-speed serial data analysis. Digitizing oscilloscopes do not have separate timing hardware and are limited by resolution for these types of measurements. Their timing and jitter software packages are designed to try to overcome the limitations of their hardware,” says Leisz.

The enhanced SIA-3000 with built-in GigaView software provides complete diagnostic analysis and compliance measurements, which are accurate and repeatable. With new Eye Diagram capabilities, the SIA-3000 can easily detect mask violations quickly and accurately. The SIA-3000 can measure PLLs & clocks to 6.25 GHz and data rates up to 6.25 Gb/s with a trigger-less architecture that eliminates errors common to trigger-based instruments. The SIA-3000 GigaView software utilizes Wavecrest’s patented TailFit™ algorithm, an industry-standard approved methodology for separating and identifying various jitter components and providing a true and accurate total jitter number. This capability allows the user to predict the future performance of a device or system to a bit error rate of 10<sup>-12</sup> or lower.

Another advantage of the SIA-3000 over oscilloscope and BERTs is its ability to provide focused diagnostics that quickly identify the causes of signal integrity problems, enabling users to shorten their design and debug cycle. With the easy-to-use Plot Interpreter™, users are able to benefit from Wavecrest's 15 years of expertise in high-speed signal integrity analysis. The instrument's familiar oscilloscope display and controls enable new users to quickly move through the learning curve and realize the measurement and analysis benefits of this instrument.

The SIA-3000 and the SpeedView™ software are available for production test applications on many major ATE systems. The SIA-3000 can be integrated into ATE systems provided by Advantest, Agilent, Credence, and NPTest. It can be retrofitted in the field or purchased directly from the ATE suppliers as a SoC performance option. The SIA-3000 is the only test instrument presently available that meets industry compliance standards in both lab and production test applications.

The instrument is available in configurations from 2-to-10 differential channels, with various performance options addressing the specific needs of users. Prices start at \$49,500. An upgrade program is in place for current SIA-3000 customers.

#### **About Wavecrest**

Headquartered in Eden Prairie, Minnesota, Wavecrest manufactures test and measurement products for the design and production of electrical and optical components and systems. Wavecrest's signal integrity, amplitude, jitter and timing analysis test systems are widely used to measure diagnose and analyze diverse applications. For more information, please access [www.wavecrest.com](http://www.wavecrest.com).