VISI Virtual Instruments™ Signal Integrity

Simple Solutions for Jitter Analysis

Jitter analysis has quickly become an absolute prerequisite for ensuring signal integrity in high-speed systems and components. Unfortunately, the process of jitter analysis has not gotten any easier. Until now.

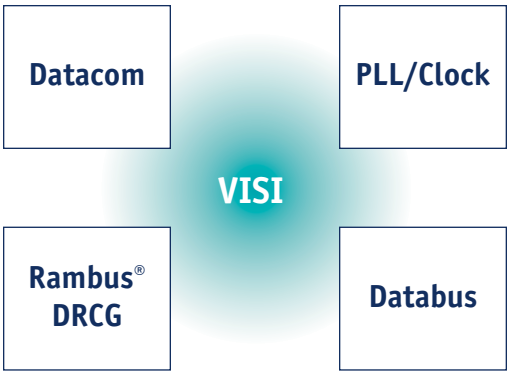
Virtual Instruments™ Signal Integrity (VISI) Software from *WAVECREST* gives test engineers, production managers and technicians a simple, straightforward way to perform complex jitter analyses—and generate clear, concise results that help you optimize device performance faster than ever before. With VISI and one of the *WAVECREST* SIA-3000 family of signal integrity analyzers, you can:

- **Perform complete jitter testing with one solution**
- **Use the Wizard utility to set up tools and tests automatically**
- **Use the Plot Interpreter for guided troubleshooting**
- **Identify trends by overlaying windows with different data patterns**
- **Create macros to repeat common keystrokes easily**
- **Save special settings or an entire test session with one keystroke**

VISI software delivers a comprehensive set of jitter analysis tools in a remarkably easy-to-use interface that helps simplify timing, jitter and signal integrity characterizations. It not only allows design and test engineers to analyze device performance with greater accuracy, it helps you diagnose problems and make modifications more quickly.

One platform, multiple applications

With VISI software, you gain a single, flexible platform for all your test and measurement needs. Choose from one of four software modules to analyze jitter in clock, DRCG, datacom and databus applications. And count on ***WAVECREST*** to develop new modules for emerging technologies.



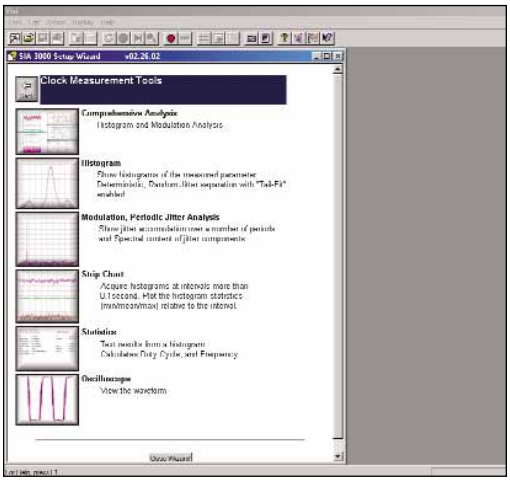
With VISI software, you can perform complex jitter analysis for datacom, PLL/clock, Rambus® DRCG and databus applications. Plus, *WAVECREST* is constantly developing new modules for the latest high-speed systems and components.

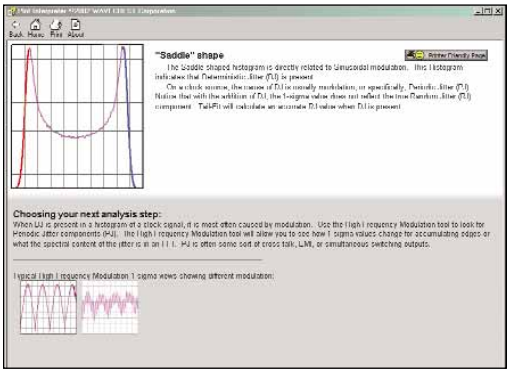
Automated setup and data analysis

VISI software comes standard with two unique features that make setup and data analysis faster and easier.

The Wizard utility prompts you to answer a few simple questions about the basic measurement setup, then automatically configures the display to show correct views of data. With the Wizard, even first-time operators can look like seasoned jitter analysis experts. The Wizard also provides access to help files, so you can take advantage of advanced features and settings without opening the manual.

The Plot Interpreter provides examples of actual plot data from real applications. Descriptions of the plots help you understand what may have caused similar results in your application, and direct you toward possible avenues for further analysis. The descriptions help both new and experienced users achieve a deeper understanding of their data.





For beginning and intermediate-level jitter analysts, the Wizard utility (upper) and the Plot Interpreter (lower) can be invaluable guides.

Create customized macros

With macros, you can recall session settings or test results with a single keystroke. Setup files and data files can be transported via the Internet to remote locations, which simplifies site-to-site correlation exercises. Macro commands follow the Visual Basic command style and Windows DLL format, so you can copy command sequences from the macro editor into Windows-based programs. You can also use the macro editor to create dialog boxes or control scripts for other GPIB instruments.

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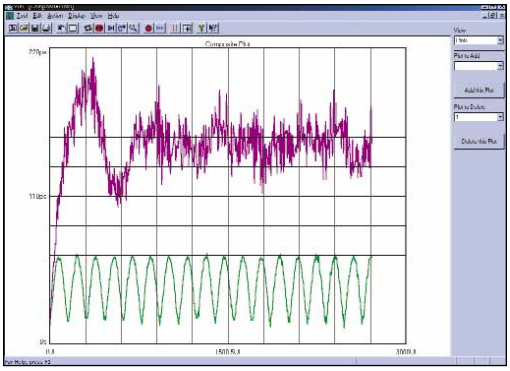
WAVECREST SIA-3000

- **Up to 10 parallel channels at 3 GHz/4.5 Gb/s**
- **Repeatable measurements with 200 fs resolution**
- **Multi-instrument functionality in the lab or production test**
- **The getting started wizard enables you to characterize period jitter, quantify RJ/DJ, and obtain a spectral view of jitter over a user-defined bandwidth at the touch of a button**

Recognize trends in record time

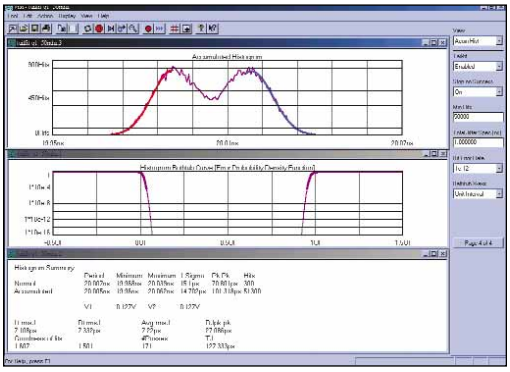
Use the composite tool to overlay several different windows of saved or recently acquired data. This enables you to examine trends across a production line or within a certain measurement setup much faster than with other software packages. For example, you can quickly and easily compare "golden" data with current measurements. Or you can instantly compare histograms from four separate test sessions and identify commonalities in RJ and DJ components.

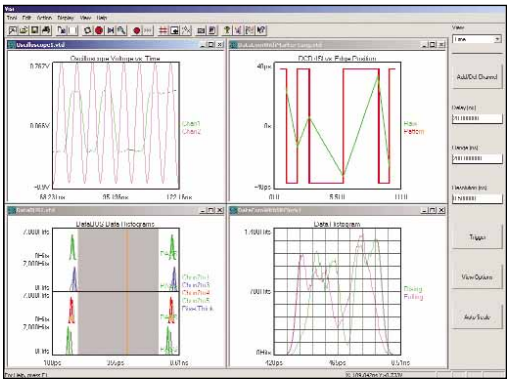


With the composite tool, you can easily compare any two data sets (with the same X and Y axes).

View multiple tools simultaneously

VISI software provides exceptional flexibility for jitter analysis. You can examine multiple views of the same data set within a single window. You can also open multiple testing tools and use them to analyze different signals from separate channels simultaneously. When you identify the critical data, you can use the free VISI Reader software to analyze results offline from a laptop or workstation. VISI Reader software also enables you to download results to a PC and quickly share them with others.





VISI software can provide multiple views of the same data (upper), or simultaneous views of several related data sets (lower), for at-a-glance analysis.

Developed by the jitter analysis experts

WAVECREST is the leader in jitter analysis. It is a position we have earned in our industry since 1987. And it is the reason why market leaders in datacom, telecom and semiconductors depend on ***WAVECREST*** instruments to ensure signal integrity and consistently meet JEDEC, ANSI, IEEE and ITU standards. VISI software represents the most advanced jitter analysis our experts can deliver, in a format that even beginners will find accessible.

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