

Waveform Analysis and Network Software

► OpenChoice



Tektronix Open Windows Oscilloscopes Software

Provide More Choices for Your Analysis and Networking Solutions

OpenChoice software is a collection of software libraries, utilities, samples and industry-standard protocols that are included as standard features on all Tektronix Open Windows oscilloscopes. This software enables you to blend waveform acquisition, analysis and networking into your customized solution using Tektronix Open Windows oscilloscopes in:

- Design, test and manufacturing
- Automated test and measurements systems in the lab or networked environments

Tektronix Windows oscilloscopes are "open" to supporting more choices of industry-standard software tools, applications and protocols. The integrated Windows desktop of these models enables popular commercial programs or custom-written applications, to run on the instrument. This capability not only enables faster communication between the oscilloscope and Windows programs, it provides a high degree of flexibility to automate data acquisition, measurement and analysis. You can use third-party analysis applications, write custom programs, network and adapt the instrument into new or existing systems using industry-standard, rather than proprietary, protocols. By working with industry leaders – National Instruments and The MathWorks – examples of software programs from these companies are featured on all Tektronix Open Windows oscilloscopes.

► Features & Benefits

Included on Tektronix Open Windows® Oscilloscopes

As an Industry-standard Protocol, TekVISA Enables Fast Communications

Supports VB, VBA, C/C++, .NET to Create Custom Programs Using Popular Application Development Tools and Environments

Compatible with Leading Test and Measurement Software Solutions

Plug-and-Play Drivers Enable Popular Programs Such as LabVIEW and LabWindows, to Operate with the Advanced Features of the Oscilloscope

VXI 11.2 Server/Client Provides Communication Via LAN with Networked Windows, UNIX or LINUX Hosts

► Applications

Design, Test, Debug

Automation and Control of Manufacturing Systems and Networked/Lab Environments

Tektronix Open Windows Oscilloscope Models

- TDS5000 Series
- TDS6000 Series
- TDS/CSA7000 Series
- CSA/TDS8000B Series

Software Components

- TekVISA V1.1
A subset of VISA specifications V2.0
(Format I/O operations are not implemented)
- VXI 11.2 Server
- PnP Drivers
Recommended for use with LabVIEW or LabWindows on external PC connections
- Excel Toolbar Sample
Integrates the oscilloscope with Excel
Provides sample source code for VB with ActiveX control
Requires Excel 2000 or Excel XP

COMPUTING

COMMUNICATIONS

VIDEO

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Tektronix Analysis Software

Our application software lets you transform your Tektronix Open Windows oscilloscope into a highly specialized analysis tool capable of performing functions such as jitter and timing analysis, microprocessor memory system verification, communications standards testing, disk drive measurements, video measurements, power measurements and much more.

TekVISA

TekVISA is Tektronix' implementation of VISA. This industry-standard protocol enables a high level of flexibility and fast communication between data acquisition and programs running on the internal Windows desktop.

Supports VB, VBA, C/C++ and .NET

The Open Windows desktop enables you to create custom programs using popular application development tools and environments. Windows applications written with popular products such as MATLAB, LabVIEW and LabWindows/CVI are also directly supported on the Tektronix Open Windows oscilloscopes.

TekVISA Controls

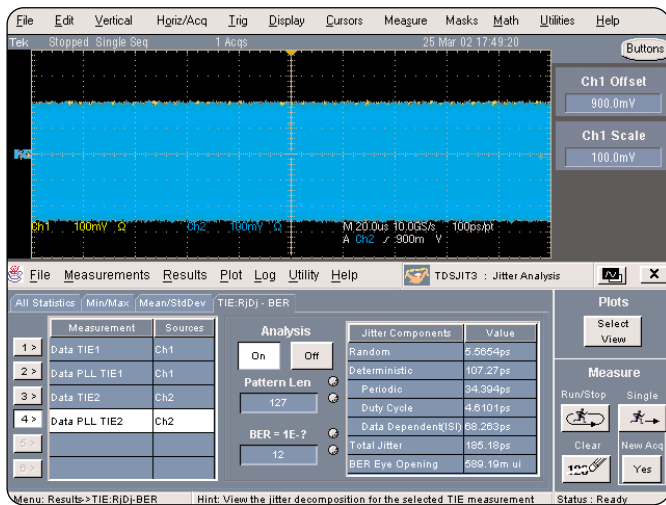
ActiveX controls enable the exchange of data between the oscilloscope and Windows applications. An example of this, using VB and ActiveX control, is included in all Open Windows oscilloscopes as the TekVISA Excel Toolbar (Excel 2000 and XP).

Plug-and-Play Drivers

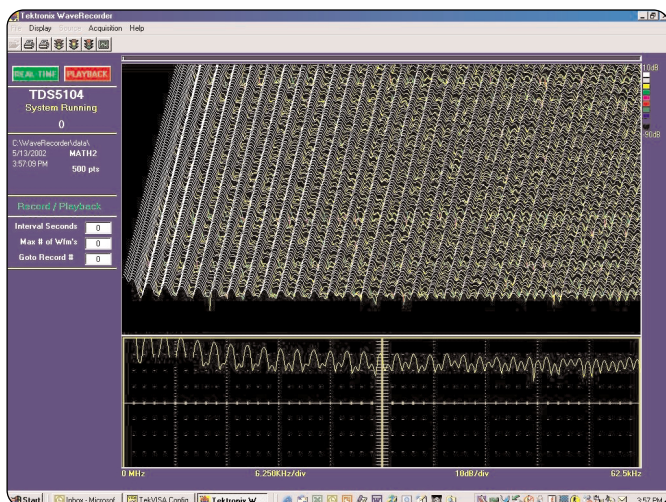
These tools enable new or existing programs, written with market-critical test and measurement application development environments, such as LabVIEW and LabWindows, to operate with the advanced features of the Tektronix Open Windows oscilloscopes.

VXI 11.2 Server/Client

The use of this industry-standard Ethernet communication protocol enables Open Windows oscilloscopes to communicate via LAN with networked Windows, UNIX or Linux hosts. A VXI 11.2 client is required for the host device.



► **TDSJIT3.** Tektronix Jitter and Timing Analysis software.



► **WaveRec.** Sample of custom design, test and debug software.

Applications

This software functionality provides powerful new options to you – from collecting and interpreting data over network connections to remote host computers to analyzing data with more powerful and customized applications.

Design, Test and Debug

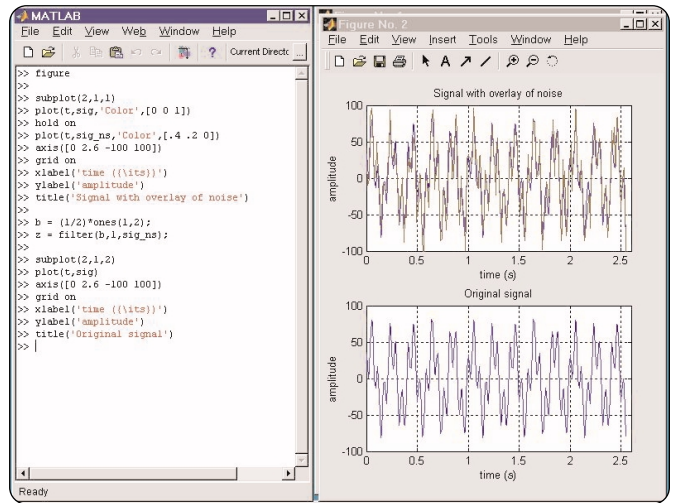
Choose from a combination of embedded measurement applications on the Tektronix Open Windows instruments; Tektronix proprietary vertical application (e.g., TDSJIT3); commercial Windows programs; and custom-written applications to create the best overall test and measurement solution.

Automation and Control

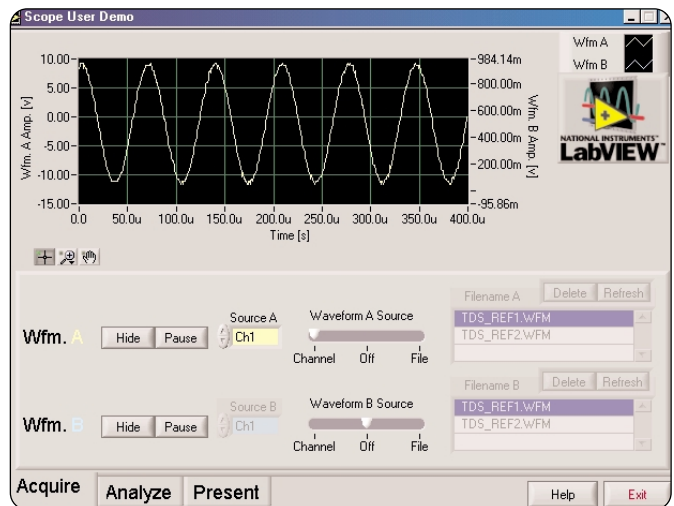
The Open Windows oscilloscopes can be automated easily with popular application development environments such as VB, VBA, .NET, C/C++, LabVIEW, LabWindows/CVI and MATLAB. The instruments can also be adapted into networked or lab environments using industry-standard protocols to external instruments such as signal sources and power supplies.

Manufacturing

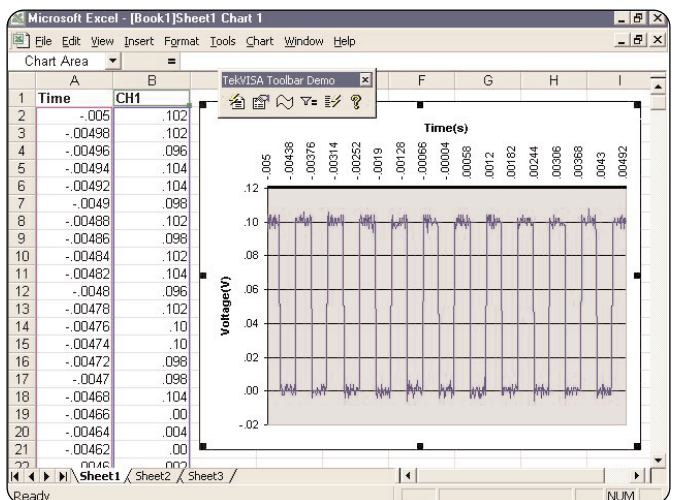
Using common programming environments and Ethernet connections, the Open Windows oscilloscopes fit into automated systems connected to Windows, UNIX, Linux and other hosts.



▶ MATLAB.



▶ LabVIEW.



▶ TekVISA Excel Toolbar demo.

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► TDS5000 Series -

With high-performance features and up to 1 GHz bandwidth, the TDS5000 Series allows you to efficiently troubleshoot, characterize and verify your design with complete confidence – all at a price you can afford. They are designed to enable you to work quickly and easily, allowing you to collaborate with others seamlessly.



► TDS6000 Series -

With the world's first 6 GHz oscilloscope, the TDS6000 Series takes you to a higher level of signal integrity for next-generation digital designs by providing you with the performance you need to verify the integrity of your signals and a suite of tools that simplify and accelerate your design process.



► TDS/CSA7000 Series -

TDS/CSA7000 Series oscilloscopes, with bandwidth up to 4 GHz and sample rate up to 20 GS/s, are high-performance real-time oscilloscopes for verification, debug and characterization of sophisticated electrical and optical designs.



► CSA/TDS8000 Series -

The CSA/TDS8000B sample oscilloscope, with electrical and optical modules, provides complete optical test solutions for design evaluation and manufacturing test of datacom and telecom components, transceiver subassemblies and transmission systems, addressing standards up to 40 Gb/s.

Contact Tektronix:

ASEAN Countries & Pakistan (65) 6356 3900

Australia & New Zealand (65) 6356 3900

Austria +43 2236 8092 262

Belgium +32 (2) 715 89 70

Brazil & South America 55 (11) 3741-8360

Canada 1 (800) 661-5625

Central Europe & Greece +43 2236 8092 301

Denmark +45 44 850 700

Finland +358 (9) 4783 400

France & North Africa +33 (0) 1 69 86 80 34

Germany +49 (221) 94 77 400

Hong Kong (852) 2585-6688

India (91) 80-2275577

Italy +39 (02) 25086 1

Japan 81 (3) 3448-3111

Mexico, Central America & Caribbean 52 (55) 56666-333

The Netherlands +31 (0) 23 569 5555

Norway +47 22 07 07 00

People's Republic of China 86 (10) 6235 1230

Poland +48 (0) 22 521 53 40

Republic of Korea 82 (2) 528-5299

Russia, CIS & The Baltics +358 (9) 4783 400

South Africa +27 11 254 8360

Spain +34 (91) 372 6055

Sweden +46 8 477 6503/4

Taiwan 886 (2) 2722-9622

United Kingdom & Eire +44 (0) 1344 392400

USA 1 (800) 426-2200

USA (Export Sales) 1 (503) 627-1916

For other areas contact Tektronix, Inc. at: 1 (503) 627-7111

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www.tektronix.com



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