

# 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

# Waveform Analysis and Network Software

► OpenChoice

## 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

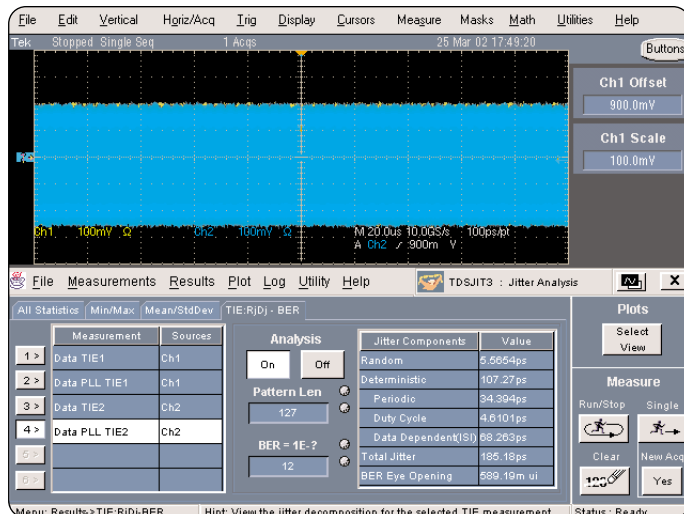
ActiveX controls enable the exchange of data between the oscilloscope and Windows applications. An example of this, using VB and ActiveX control, is included in all Open Windows oscilloscopes as the TekVISA Excel Toolbar (Excel 2000 and XP).

## Plug-and-Play Drivers

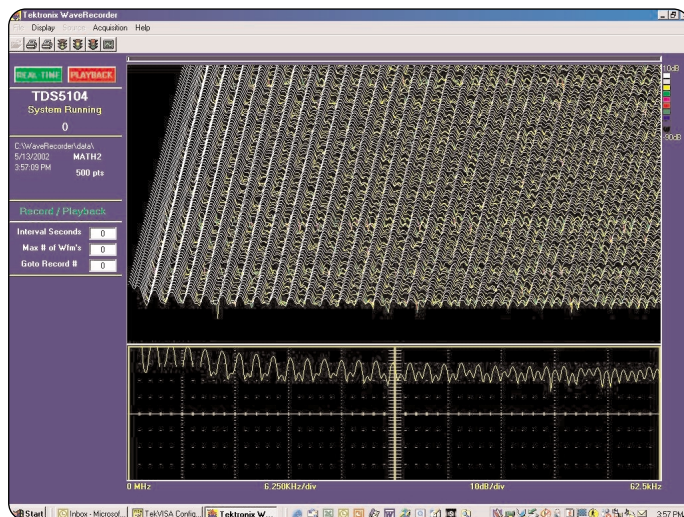
These tools enable new or existing programs, written with market-critical test and measurement application development environments, such as LabVIEW and LabWindows, to operate with the advanced features of the Tektronix Open Windows oscilloscopes.

## 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

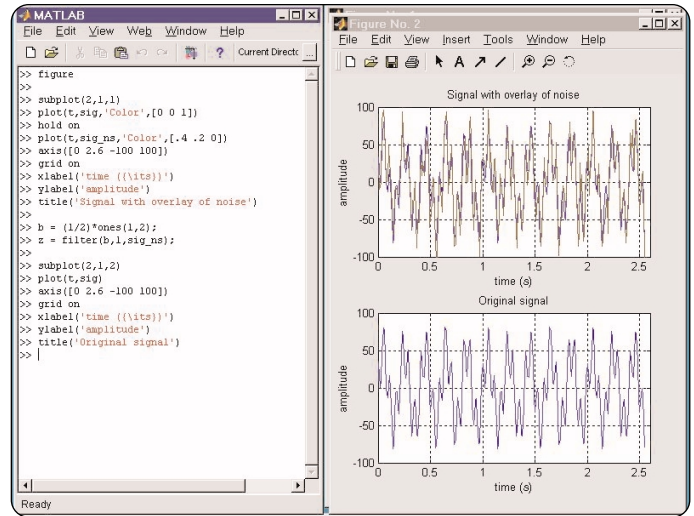
Choose from a combination of embedded measurement applications on the Tektronix Open Windows instruments; Tektronix proprietary vertical application (e.g., TDSJIT3); commercial Windows programs; and custom-written applications to create the best overall test and measurement solution.

### Automation and Control

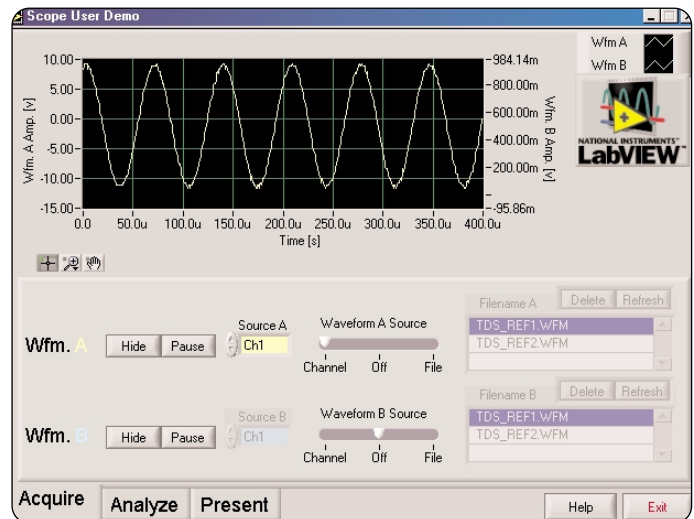
The Open Windows oscilloscopes can be automated easily with popular application development environments such as VB, VBA, .NET, C/C++, LabVIEW, LabWindows/CVI and MATLAB. The instruments can also be adapted into networked or lab environments using industry-standard protocols to external instruments such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

### Manufacturing

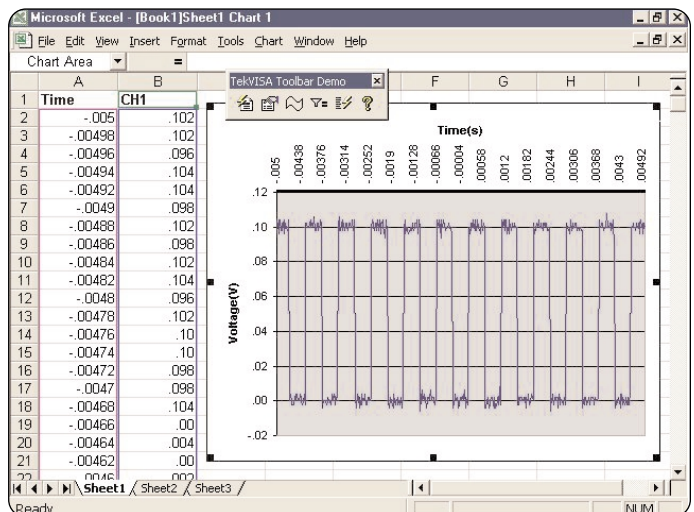
Using common programming environments and Ethernet connections, the Open Windows oscilloscopes fit into automated systems connected to Windows, UNIX, Linux and other hosts.



► **MATLAB.**



► **LabVIEW.**



► **TekVISA Excel Toolbar demo.**

# Waveform Analysis and Network Software

► OpenChoice



## ► 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

Updated 18 April 2002

Our most up-to-date product information is available at:  
[www.tektronix.com](http://www.tektronix.com)



Copyright © 2002, Tektronix, Inc. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks or registered trademarks of their respective companies.

06/02 HB/XXX

55W-15786-0