National Instruments SignalExpress™ Tektronix Edition (TE)

Increase your productivity with the industry's most seamless oscilloscope-to-PC connectivity solution, only available from Tektronix and NI.

Configuring test instruments to connect with PC-based software is often a difficult and frustrating challenge. To address this time-consuming task, Tektronix has worked with National Instruments to create NI SignalExpress Tektronix Edition (TE) – interactive measurement and analysis software designed to meet the needs of design and test engineers who need to quickly acquire, analyze and document measurements without programming.

Industry's first true USB plug-and-play connectivity for oscilloscopes

SignalExpress TE provides users with the ultimate oscilloscope-to-PC connectivity experience. With USB plug-and-play support, the Tektronix DPO4000 Series is immediately detected when connected to the PC [1] and prompts the user with an auto play dialog. With one mouse click, SignalExpress TE configures all instrument communication and provides a live view of the data acquisition and immediate control of the oscilloscope.

Intuitive drag-and-drop user interface

SignalExpress TE introduces an innovative approach to configuring measurements using intuitive drag-and-drop steps that do not require any programming. Instantly measure a

Applications

– Device Validation

– Component Characterization

– Simulation Analysis

– Advanced Digital Signal Processing

– Automated Test

Features and Benefits

– Enables true USB plug-and-play connectivity for the DPO4000 Series oscilloscopes and AFG3000 Series Arbitrary/Function Generators [2]

– Get to measurements quickly with an intuitive drag-and-drop interface that does not require any programming

– Advanced analysis and reporting capabilities

– Quickly and easily import your simulated results and compare against actual measured results live on-screen

– Automatic sweeping

– Limit testing

– Connect and control multiple instruments from within one software environment

signal, perform time and frequency domain analysis and save data to file using a variety of built-in measurement, processing, analysis, and data storage steps. Thus, combining the optimal balance of measurement functionality and ease-of-use to assist engineers in streamlining design and test processes.

Advanced analysis and reporting capabilities

SignalExpress TE contains more than 200 different measurement, processing, analysis, and reporting capabilities that can be applied to data being acquired from Tektronix instruments. Perform live distortion, tone, transition and many other measurements instantly and avoid tedious, off-line analysis. Drag-and-drop acquired data and waveform captures directly into Microsoft Excel, Word, Outlook, PowerPoint, and WordPad.

[1] True plug-and-play experience requires Microsoft Windows XP or newer operating system

[2] Also includes LAN and GPIB support for the DPO4000 Series and TDS3000 Series oscilloscopes, and the AFG3000 Series Arbitrary/Function Generator

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▶ Application Fact Sheet

Quickly and Easily Import Your Simulated Results and Compare Against Actual Measured Results Live On-screen

SignalExpress TE contains industry-leading connectivity with popular circuit board design tools such as Electronics Workbench Multisim, OrCAD PSpice, and other Berkeley SPICE compatible EDA tools. This enables electronic design engineers to quickly and easily import simulated results and compare against real-world measurements – saving time and improving design accuracy.

Automated Sweeping and Limit Testing

SignalExpress TE provides several major time-saving features, including automated measurement sweeping and limit testing, to relieve engineers from this traditionally manual, time-intensive process. The built-in sweep functionality automatically calculates the intervals for linear and exponential sweeps and provides for custom sweep operations, streamlining common swept measurement tasks such as characterization tests. Limit testing provides the ability to perform pass / fail measurements of signals based on either predefined guard bands or custom waveform limits.

Connect and Control Multiple Instruments from One Software Environment

Connecting and controlling multiple instruments from one PC user interface is a difficult task without programming a custom application. SignalExpress TE remedies this with built-in support for controlling more than 400 Tektronix and third party instruments, all within a single drag-and-drop user interface. This removes a lot of the guesswork when connecting test instruments to a PC, enabling increased measurement productivity by creating a virtual benchtop for interactive, PC-based instrument control, acquisition, analysis, and documentation.

Our most up-to-date product information is available at: **www.tektronix.com**

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