Installation Manual

Tektronix

Optional Applications Software on Windows Based Oscilloscopes

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www.tektronix.com

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General Safety Summary

Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it.

While using this product, you may need to access other parts of the system. Read the *General Safety Summary* in other system manuals for warnings and cautions related to operating the system.

***NOTE**. Refer also to the application online help for the* General Safety Summary *specific to the application.*

To Avoid Fire or Personal Injury

Connect and Disconnect Properly. Do not connect or disconnect probes or test leads while they are connected to a voltage source.

Observe All Terminal Ratings. To avoid fire or shock hazard, observe all ratings and markings on the product. Consult the product manual for further ratings information before making connections to the product.

Terms on the Product. These terms may appear on the product:



***WARNING.** Warning statements identify conditions or practices that could result in injury or loss of life.*



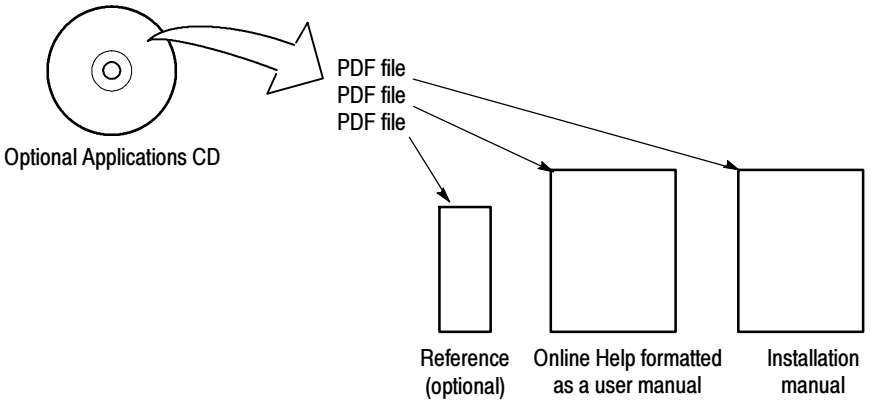
***CAUTION.** Caution statements identify conditions or practices that could result in damage to this product or other property.*

Preface

You can use information in this manual to install any application from the *Optional Applications Software for Windows-Based Oscilloscopes CD-ROM* (CD) onto your Microsoft Windows based Tektronix oscilloscope. For compatibility information, refer to the table on page 3.

Documentation and Online Help

This installation manual is part of a set of documents that you can use to understand how to operate an application. For each application, the CD contains the software, a PDF (portable document format) file of each corresponding document, and the online help formatted like a user manual.



***NOTE**. If you do not have an Acrobat reader to view a PDF file, you can get a free copy of the reader from the* www.adobe.com/products/acrobat *web page.*

The documentation set consists of the following items:

- This installation manual provides instructions on applying the authorized Option Installation key label, installing an application from the CD, enabling the application, and downloading an application from the Tektronix web site.
- The optional application-specific reference quickly introduces you to the steps required to take measurements and includes a diagram of the menu structure.
- The Online Help contains the following types of information:

  A *Getting Started* group of topics briefly describes the application, lists oscilloscope compatibility, contains connection procedures, and includes a deskew procedure, if required.

  An *Operating Basics* group of topics covers basic operating principles of the application. The sequence of topics reflects the steps you perform to operate the application and includes definitions for all menus and options.

  A *Tutorial* group of topics that teach you how to set up the application to acquire a waveform, take a measurement, view the results, and save data to a log file.

  An optional *Application Examples* (or laboratory) group of topics includes examples of tests and measurements to give you ideas on how to solve your own measurement problems.

  A *Reference* group of topics includes the parameters (range of values) for all options and the default values.

  A measurement *Algorithms* group of topics with information on measurement guidelines and on how the application calculates each measurement.

  An optional *GPIB Command Syntax* group of topics contains a list of arguments and values that you can use with the GPIB commands and their associated parameters. To show you how to operate the application using GPIB commands, this part may also contain a simple GPIB program.

- A printable PDF file of the online help formatted to resemble a user manual.

Contacting Tektronix

Phone	1-800-833-9200*
Address	Tektronix, Inc. Department or name (if known) 14200 SW Karl Braun Drive P.O. Box 500 Beaverton, OR 97077 USA
Web site	www.tektronix.com
Sales support	1-800-833-9200, select option 1*
Service support	1-800-833-9200, select option 2*
Technical support	www.tektronix.com/support 1-800-833-9200, select option 3* 6:00 a.m. – 5:00 p.m. Pacific Standard Time

* **This phone number is toll free in North America. After office hours, please leave a voice mail message.**
Outside North America, contact a Tektronix sales office or distributor; see the Tektronix web site for a list of offices.

Product Description

There are many applications available for Microsoft Windows based oscilloscopes by Tektronix that you can use to test, to analyze, and to debug many types of electronic devices and products. To learn about most applications, you can browse the documentation folder on the *Optional Applications Software on Windows Based Oscilloscopes CD-ROM* and view any document listed. You can also access the Tektronix web site for information on how to use an application to resolve complex problems, such as an application note on how to analyze jitter or an application note on how to verify compliance to a serial data standard.

It is recommended that you upgrade your oscilloscope to the latest firmware prior to installing or operating an application. You may download the latest firmware from the www.tektronix.com website. To do so, follow the instructions on page 16. Be sure to select the firmware version appropriate for your specific oscilloscope model.

***NOTE**. Be sure to install the oscilloscope software before you install any optional application software.*

Application Upgrades

The Optional Applications CD contains all the current applications. Some of these applications are offered as upgrades to previous products. The following upgrades are available:

- TDSJIT3 V1 upgrade to TDSJIT3 V2 Advanced
- TDSJIT3 V1 Essentials upgrade to TDSJIT3 V2 Essentials
- TDSPWR2 upgrade to TDSPWR3
- TDSET2 upgrade to TDSET3

TDSJIT3 V2 Advanced and TDSJIT3 V2 Essentials

New versions of the TDSJIT3 application have been released:

- TDSJIT3 V2 Advanced
- TDSJIT3 V2 Essentials

TDSJIT3 V2 Advanced offers significant improvements to the state of the art jitter analysis. A new license must be purchased to enable TDSJIT3 V2 Advanced beyond the five time free trial period. An upgrade is available from earlier versions, please contact your local Tektronix sales office or Tektronix account manager to order an upgrade.

TDSJIT3 V2 Essentials provides capability similar to TDSJIT3 V1 Essentials and temporarily operates with either an option J3E or JE3 license key.

It is recommended that you upgrade to TDSJIT3 V2 Essentials or TDSJIT3 Advanced to maintain the optimum performance for your oscilloscope. Please contact your Tektronix sales office or Tektronix account manager to order an upgrade.

Please see the TDSJIT3 and TDSJIT3 V2 readme.txt files for further information, instrument compatibility and system requirements.

TDSPWR2 to TDSPWR3

The TDSPWR2 application has been replaced by the TDSPWR3 application and the TDSPWR2 application is no longer included on the Optional Applications CD.

***NOTE**. The oscilloscope recognizes this upgrade only when the TDSPWR2 application is enabled (Option Authorization key) prior to the installation of the TDSPWR3 application. If you do not enable the TDSPWR2 application before installing the TDSPWR3 application, you will only be able to run the 5-time free trials of the TDSPWR3 application.*

TDSET2 to TDSET3

The TDSET2 application has been replaced by the TDSET3 application and the TDSET2 application is no longer included on the Optional Applications CD. To order an upgrade, please contact your Tektronix sales office or Tektronix account manager.

Application and Oscilloscope Compatibility

The next table lists the applications included on the Optional Applications CD with the compatible oscilloscope models and firmware version numbers.

***NOTE**. To check the firmware version number of the oscilloscope, select Help> About TekScope in the menu bar. Information will appear that includes the firmware version.*

If access is denied when installing software on Windows 2000 or Windows XP operating systems, you may need administrator rights to install.

Applications on this CD and compatible oscilloscopes

Application name	Software version	Oscilloscope model	Recommended firmware version
TDSCPM2* Communications Pulse Measurements	V 1.2.2 and above	TDS6124C, TDS6154C	V 5.0.0 and above
		TDS6604B, TDS6804B	V 4.0.8 and above
		CSA7404B, TDS7154B, TDS7254B, TDS7404B, TDS7704B	V 4.0.4 and above
		TDS5032B, TDS5034B, TDS5052B, TDS5054B, TDS5054BE, TDS5104B	V 2.0.8 and above
		CSA7154, CSA7404, TDS7054, TDS7104, TDS7154, TDS7254, TDS7404	V 2.5.3 and above

Applications on this CD and compatible oscilloscopes (Cont.)

Application name	Software version	Oscilloscope model	Recommended firmware version
TDSDDM2 Disk Drive Measurements	V 1.3.2 and above	TDS6124C, TDS6154C	V 5.0.0 and above
		TDS6604B, TDS6804B	V 4.0.8 and above
		CSA7404B, TDS7154B, TDS7254B, TDS7404B, TDS7704B	V 4.0.4 and above
		TDS5052B, TDS5054B, TDS5054BE, TDS5104B	V 2.0.8 and above
		CSA7154, CSA7404, TDS7054, TDS7104, TDS7154, TDS7254, TDS7404	V 2.5.3 and above
		TDS5052, TDS5054, TDS5104	V 1.2.1 and above
TDSDVI DVI Compliance Solution	V 1.3.0 and above	TDS6124C, TDS6154C	V 5.0.0 and above
		TDS6604B, TDS6804B	V 4.0.8 and above
		CSA7404B, TDS7254B, TDS7404B, TDS7704B	V 4.0.4 and above
		CSA7404, TDS7254, TDS7404, TDS6404, TDS6604	V 2.5.3 and above
TDSET3 Ethernet Compliance SW	V 1.3.0 and above	TDS6124C, TDS6154C	V 5.0.0 and above
		TDS6604B, TDS6804B	V 4.0.8 and above
		CSA7404B, TDS7154B, TDS7254B, TDS7404B, TDS7704B	V 4.0.4 and above
		TDS5032B, TDS5034B, TDS5052B, TDS5054B, TDS5104B	V 2.0.8 and above

Applications on this CD and compatible oscilloscopes (Cont.)

Application name	Software version	Oscilloscope model	Recommended firmware version
		CSA7154, CSA7404, TDS6404, TDS6604, TDS7054, TDS7104, TDS7154, TDS7254, TDS7404	V 2.5.3 and above
TDSHT3 HDMI Compliance SW	V 1.4.0 and above	TDS6124C, TDS6154C	V 5.0.0 and above
		TDS6604B, TDS6804B	V 4.0.8 and above
		CSA7404B, TDS7254B, TDS7404B, TDS7704B	V 4.0.4 and above
		CSA7404, TDS7254, TDS7404	V 2.5.3 and above
TDSJIT3V2A Jitter Analysis Advanced and TDSJIT3V2E Jitter Analysis Essentials	V 2.1.0 and above	TDS6124C, TDS6154C	V 5.0.0 and above
		TDS6604B, TDS6804B	V 4.0.8 and above
		CSA7404B, TDS7154B, TDS7254B, TDS7404B, TDS7704B	V 4.0.4 and above
		TDS5034B, TDS5054B, TDS5054BE, TDS5104B	V 2.0.8 and above
		CSA7154, CSA7404, TDS6404, TDS6604, TDS7054, TDS7104, TDS7154, TDS7254, TDS7404	V 2.5.3 and above
		TDS5034, TDS5054, TDS5104	V 1.2.1 and above
		TDS5034, TDS5054, TDS5104	V 1.2.1 and above

Applications on this CD and compatible oscilloscopes (Cont.)

Application name	Software version	Oscilloscope model	Recommended firmware version
TDSPWR3 Power Analysis Measurements	V 1.7.0 and above	TDS6124C, TDS6154C	V 5.0.0 and above
		TDS6604B, TDS6804B	V 4.0.8 and above
		CSA7404B, TDS7154B, TDS7254B, TDS7404B, TDS7704B	V 4.0.4 and above
		TDS5032B, TDS5034B, TDS5052B, TDS5054B, TDS5054BE, TDS5104B	V 2.0.8 and above
		CSA7154, CSA7404, TDS6404, TDS6604, TDS7054, TDS7104, TDS7154, TDS7254, TDS7404	V 2.5.3 and above
		TDS5032, TDS5034, TDS5052, TDS5054, TDS5104	V 1.2.1 and above
RT-Eye† Serial Data Compliance and Analysis	V 1.3.5 and above	TDS6124C, TDS6154C	V 5.0.0 and above
		TDS6604B, TDS6804B	V 4.0.8 and above
		CSA7404B, TDS7154B, TDS7254B, TDS7404B, TDS7704B	V 4.0.4 and above
		CSA7154, CSA7404, TDS6404, TDS6604, TDS7154, TDS7254, TDS7404	V 2.5.3 and above
SATA and SAS† Test Modules (requires RT-Eye application)	V 1.0.0 and above	TDS6124C, TDS6154C	V 5.0.0 and above
		TDS6604B, TDS6804B	V 4.0.8 and above
		TDS7704B	V 4.0.4 and above
		TDS6604	V 2.5.3 and above

Applications on this CD and compatible oscilloscopes (Cont.)

Application name	Software version	Oscilloscope model	Recommended firmware version
InfiniBand Compliance Module† (requires RT-Eye application)	V 1.1.0 and above	TDS6124C, TDS6154C	V 5.0.0 and above
		TDS6604B, TDS6804B	V 4.0.8 and above
		CSA7404B, TDS7404B, TDS7704B	V 4.0.4 and above
		CSA7404, TDS6404, TDS6604, TDS7404	V 2.5.3 and above
PCI Express Compliance Module† (requires RT-Eye application)	V 1.2.5 and above	TDS6124C, TDS6154C	V 5.0.0 and above
		TDS6604B, TDS6804B	V 4.0.8 and above
		CSA7404B, TDS7404B, TDS7704B	V 4.0.4 and above
		CSA7404, TDS6404, TDS6604, TDS7404	V 2.5.3 and above
TDSUSB2 USB2.0 Compliance Test Package	V 1.9.1 and above	TDS6124C, TDS6154C	V 5.0.0 and above
		TDS6604B, TDS6804B	V 4.0.8 and above
		CSA7404B, TDS7154B, TDS7254B, TDS7404B, TDS7704B	V 4.0.4 and above
		TDS5034B, TDS5054B, TDS5054BE, TDS5104B	V 2.0.8 and above
		CSA7154, CSA7404, TDS6404, TDS6604, TDS7054, TDS7104, TDS7154, TDS7254, TDS7404	V 2.5.3 and above
		TDS5034, TDS5054, TDS5104	V 1.2.1 and above
TDSPTD Protocol Trigger and Decode	V 1.0.0 and above	TDS6124C, TDS6154C	V 5.0.0 and above

Applications on this CD and compatible oscilloscopes (Cont.)

Application name	Software version	Oscilloscope model	Recommended firmware version
TekConnect Adjustment Application§	V 1.11 and above	TekScope with TekConnect devices	All

*** Oscilloscope requires Option SM, Serial Masks, except CSA7000/B models.**

† Requires Windows 2000 or Windows XP operating system.

§ For installation instructions, refer to page 15.

5-Time Free Trial

A 5-Time Free Trial is available for all applications in the previous table. You can start and exit an application up to five times to help you evaluate Tektronix software solutions.

***NOTE**. If an application becomes available after you receive your oscilloscope, you can download the new application as described on page 16 to begin your free trials.*

To start an application, refer to page 14.

Application Installation

This manual contains information on the following tasks:

- Reinstalling a newer version of an application
- Installing an application from the optional applications compact disc (CD)
- Applying a new label
- Enabling an application
- Starting an application
- Installing the TekConnect Adjust software from the optional applications CD
- Downloading an application from the www.tektronix.com web site

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***NOTE**. Some applications may require a deskew fixture or a test fixture. The application online help includes connection procedures for these fixtures. If the application requires a fixture, read the* General Safety Summary *in the fixture user manual before you start the connection procedure.*

Reinstalling an Application

Most available applications are factory installed on the hard disk in the oscilloscope at the time the oscilloscope is shipped. The *Optional Applications Software on Windows Based Oscilloscopes* CD-ROM serves as a way to deliver applications to you that were introduced after you received your oscilloscope, and as a backup in case you have to rebuild the hard disk.

The optional applications CD may contain a newer version of the application software than the version on your oscilloscope. The www.tektronix.com web site may include an even newer version of the application software than the version on the CD.

Before you continue, determine if you need to reinstall a newer version of the application. To do this, follow these steps:

1. In the menu bar of the TekScope window, select File > Run> <application name> or App> <application name> as appropriate for your oscilloscope.
2. In the menu bar of the application, select Help> About <application>.

   The application displays information about the application that includes the software version number.
3. Check the version number of the application on the web site. To do so, follow these steps:

   a. Access the www.tektronix.com web site and select Software & Drivers.

   The Software and Firmware Finder page appears. To define the search criteria, use one of the following methods:

   - Make selections in the Browse by Product Category and Browse by Product Series fields.
   - Enter information in the Find by Model Number or Keyword field. For example, Keyword Search TDSHT3.

   b. Select Go. The search returns a list of software.

   c. Scroll through the list to the desired application, select the link, and view the web page instructions to download the application to your oscilloscope. The version number is at the top of the web page.

   If the version number is higher than the version number in the compatibility table (on page 3), then follow the *Downloading Updates Through the Web Site* procedures on page 16.

The next table shows an example of how to check the application version numbers and whether or not you need to reinstall the application.

Checking the application software version number example

Application on the oscilloscope	As listed in the table on page 3	As shown on the web site	Reinstall?
V 1.0.0	V 1.0.0	V 1.0.0	No
V 1.0.0	V 1.1.0	V 1.1.0	Yes, from the CD or web site
V 1.0.0	V 1.1.0	V 1.2.0	Yes, from the web site

Installing an Application

Normally, application software resides on the hard disk of your oscilloscope. However, you may still need to install the application software for the following reasons:

- You receive an application introduced after you received your oscilloscope.
- You have to rebuild the hard disk of the oscilloscope.
- You download an update for an application from the Tektronix web site.

***NOTE**. For information on how to install the TekConnect Adjust application, refer to page 15.*

The table on page 3 lists the available applications, compatible oscilloscope models, and the corresponding software version and firmware version numbers.

The installation procedure may require a mouse attached to the oscilloscope.

Application Introduced After You Received an Oscilloscope. To install an application that does not currently reside on the hard disk of the oscilloscope from the optional applications CD, follow these steps:

1. If the mouse is not installed, connect it to the oscilloscope rear panel or use the touchscreen.
2. Power on the oscilloscope to start Windows.
3. Insert the optional applications CD in the CD-ROM reader.

   The oscilloscope may automatically start the Installation Browser program.
4. If the oscilloscope does not start the Installation Browser program, follow these steps:
   a. Select and open the **My Computer** icon.
   b. In the Exploring - My Computer window, select the **D**: (CD-ROM) drive and then the Launch.exe file.
5. Select the appropriate button for the application to install.
6. Follow the on-screen instructions given by the InstallShield Wizard. Answer "OK" if prompted to install the JRE, accept all defaults, and do not change the default directory.

   The oscilloscope must reboot to complete the installation process.

Newer Version than the Application on the Oscilloscope. To install a newer version of the application, you must first remove the version that currently resides on the hard disk of the oscilloscope.

To remove the current version of the application software, follow these steps:

1. Select File> Minimize in the menu bar to minimize the oscilloscope.
2. Select Start> Settings> Control Panel> Add/Remove Programs.
3. Scroll through the list until the name of the application is highlighted.

4. Select the Add/Remove button and follow the on-screen instructions from the InstallShield Wizard.

   The oscilloscope must reboot to complete the removal process.

To install the newer version of software, follow the procedure on page 11.

***NOTE**. If you install a newer version of an application than was previously enabled, you do not have to enter the authorized Option Installation key again.*

Applying a New Label

You may need to apply a new authorized Option Installation key label to the rear-panel of the oscilloscope for the following reasons:

- You purchase a software license to an application already installed on the oscilloscope; the license allows you to enable the application
- You upgrade the licensed application to a newer application
- You purchase an application introduced after you received your oscilloscope

The label contains important information, such as the serial number of the oscilloscope, options purchased for that serial number, and an authorized Option Installation key number. Since each label is unique, apply the new label over the existing one.

Enabling an Application

You must enter the authorized Option Installation key to enable all purchased applications and product options on your oscilloscope. The key is unique; it is specific to the serial number of the oscilloscope and purchased options.

NOTE. *You do not need to enable the TekConnect Adjust application or any applications controlled by a PC connected to a TDS694C oscilloscope.*

Follow these steps to enter your alphanumeric key number:

1. If the oscilloscope powered on in the toolbar mode (default), select the Menu button (upper right corner of the display) to put the oscilloscope into menu-bar mode. In menu-bar mode you should see a PC-style menu across the top of the display.
2. Go to the Utility menu in the menu bar and select Option Installation.
3. Follow the on-screen instructions to enter the alphanumeric key number exactly as it is printed on the rear-panel label.

Starting an Application

To start an application, select File> Run> <application name> or App> <application name> from the menu bar of the oscilloscope.

NOTE. *You can view Online Help (OLH) topics from the oscilloscope or a PC.*

To view OLH topics from an oscilloscope, follow these steps:

1. Select Start> Programs> TekApplications> <application name>> Help. The corresponding OLH system displays.
2. Use standard techniques to navigate through the Help topics.

You can view (and print out) a PDF file of the OLH formatted to resemble a user manual from an oscilloscope. To do so, follow these steps:

1. Select Start> Programs> TekApplications> <application name>> PDF. The corresponding PDF file displays.
2. Use standard techniques (such as the File> Find search function) to locate specific information.

Installing TekConnect Adjustment Software

You must install the application on the hard disk of your oscilloscope for the application to communicate with TekConnect devices. The application software uses internal commands to validate test hardware, and to communicate with TekConnect devices.

***NOTE**. The TekConnect Adjust application does not require the JRE software and does not need to be enabled.*

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1. If the mouse is not installed, connect it to the oscilloscope rear panel or use the touchscreen.
2. Power on the oscilloscope to start Windows.
3. Select File> Minimize in the menu bar to minimize the oscilloscope.
4. Insert the optional applications CD in the CD-ROM reader.

   The oscilloscope may automatically start the Installation Browser program.
5. If the oscilloscope does not start the Installation Browser program, follow these steps:
   a. Select and open the My Computer icon.
   b. In the Exploring - My Computer window, select the D: (CD-ROM) drive and then the Launch.exe file.
6. Select the TekConnect Adjust button.
7. Follow the on-screen instructions given by the InstallShield Wizard and reboot if recommended.

For a list of other adjustment procedures required for products with TekConnect devices, refer to the service manual for your TekConnect device. The service manuals are located in the documentation folder on the CD.

After installation, the Service Manuals and the application are available on the oscilloscope from Start Menu>Programs>Tektronix>TekConnect Adjust.

Downloading Updates Through the Web Site

You can find information about applications and firmware for your oscilloscope on the www.tektronix.com web site. Click the Software and Drivers link to download updates to the software and other free applications.

NOTE. *When updating an application, the* Release Notes *file on the www.tektronix.com web site supercedes the* Readme.txt *file in the web download self extracting.exe file.*

To download an application to your oscilloscope or personal computer, follow these steps:

1. Access the www.tektronix.com web site and select Software & Drivers.

   The Software and Firmware Finder page appears. To define the search criteria, use one of the following methods:

   - Select oscilloscope in the Browse by Product Category and a product in the Browse by Product Series fields.
   - Enter information in the Find by Model Number or Keyword field. For example, Keyword Search TDSHT3.

2. Select Go. The search returns a list of software.
3. Browse to and select the link for your software.

   Notice that the software link you selected includes other links to view the Installation Instructions and the Release notes, plus the version number of the application at the top of the page.

4. Select the Download button and a MyTek Profile appears.

   a. Log on to your MyTek Profile or create a new profile. When finished, a File Download pop-up appears.

   b. Select Save on the File Download pop-up, and then specify a location to save to, for example, your personal computer or oscilloscope desktop.

   If you saved the downloaded file to your personal computer, you may want to copy this file to a CD-ROM or a USB memory device to transfer it to your oscilloscope.

5. To start the installation, double-click the .exe file and follow the on-screen prompts. To complete the installation, reboot your oscilloscope.