

# Test Equipment Solutions Datasheet

Test Equipment Solutions Ltd specialise in the second user sale, rental and distribution of quality test & measurement (T&M) equipment. We stock all major equipment types such as Spectrum Analyzers, Signal Generators, Oscilloscopes, Power Meters, Network Analyzers etc from all the major suppliers such as Keysight, Tektronix, Anritsu and Rohde & Schwarz.

We are focused at the professional end of the marketplace, primarily working with customers for whom high performance, quality and service are key, whilst realising the cost savings that second user equipment offers. We fully test & refurbish equipment in our in-house, traceable Lab. Items are supplied with manuals, accessories and typically a full no-quibble 1 year warranty. Our staff have extensive backgrounds in T&M which enables us to deliver industry-leading service and support. We endeavour to be customer focused in every way right down to the detail, such as offering free delivery on sales, presenting flexible technical + commercial solutions and supplying a loan unit during warranty repair, if available.

As well as the headline benefit of cost saving, second user offers shorter lead times, higher reliability and multivendor solutions. Rental, of course, is ideal for shorter term needs and offers fast delivery, flexibility, try-before-you-buy, zero capital expenditure, lower risk and off balance sheet accounting. Both second user and rental improve the key business measure of Return On Capital Employed.

We are based in at Oakley, Bedfordshire in the UK from where we supply test equipment worldwide. Our facility incorporates Sales, Support, Admin, Logistics and our own in-house Lab.

All products supplied by Test Equipment Solutions include:

- No-quibble parts & labour warranty (we provide transport for UK mainland addresses).
- Free loan equipment during warranty repair, if available.
- Full electrical, mechanical and safety refurbishment in our 40GHz in-house Lab.
- Certificate of Conformance (calibration available on request).
- Manuals and accessories required for normal operation.
- Free insured delivery to your UK mainland address (sales).
- Support from our team of seasoned Test & Measurement engineers.
- ISO9001 quality assurance.

Test Equipment Solutions Ltd  
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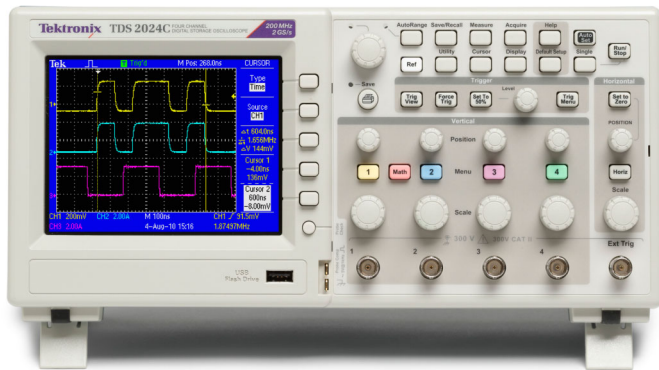
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# Digital Storage Oscilloscopes

## TDS2000C Series Data Sheet



## Features & Benefits

### Key Performance Specifications

- 200 MHz, 100 MHz, 70 MHz, 50 MHz Bandwidth Models
- 2- and 4-channel Models
- Up to 2 GS/s Sample Rate on All Channels
- 2.5k point Record Length on All Channels
- Advanced Triggers including Pulse Width Trigger and Line-selectable Video Trigger

### Ease-of-Use Features

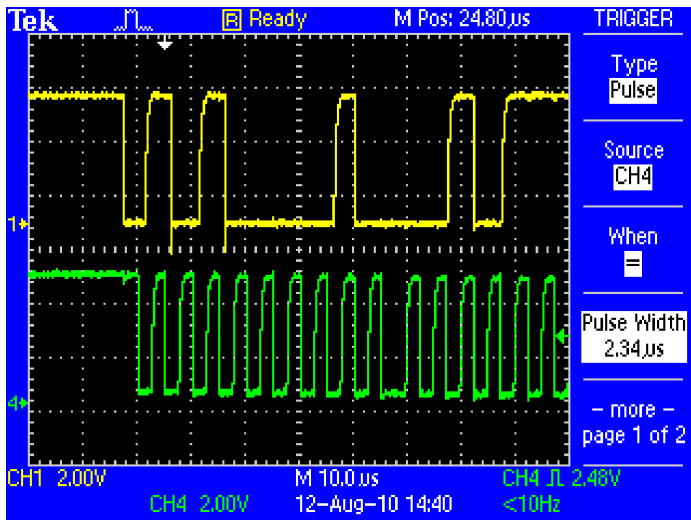
- 16 Automated Measurements, and FFT Analysis for Simplified Waveform Analysis
- Built-in Waveform Limit Testing
- Automated, Extended Data Logging Feature
- Autoset and Signal Auto-ranging
- Built-in Context-sensitive Help
- Probe Check Wizard
- Multiple-language User Interface
- 5.7 in. (144 mm) Active TFT Color Display
- Small Footprint and Lightweight – Only 4.9 in. (124 mm) Deep and 4.4 lb. (2 kg)

### Connectivity

- USB 2.0 Host Port on the Front Panel for Quick and Easy Data Storage, Printing, and Connecting a USB Keyboard
- USB 2.0 Device Port on Rear Panel for Easy Connection to a PC or Direct Printing to a PictBridge®-compatible Printer
- Includes National Instrument's LabVIEW SignalExpress™ TE Limited Edition and Tektronix OpenChoice® Software for Connecting Your Bench

### Lifetime Warranty\*1

\*1 Limitations apply. For terms and conditions, visit [www.tektronix.com/lifetimewarranty](http://www.tektronix.com/lifetimewarranty).



Quickly and easily capture waveforms with advanced triggering.

## Performance You Need at a Price You Can Afford

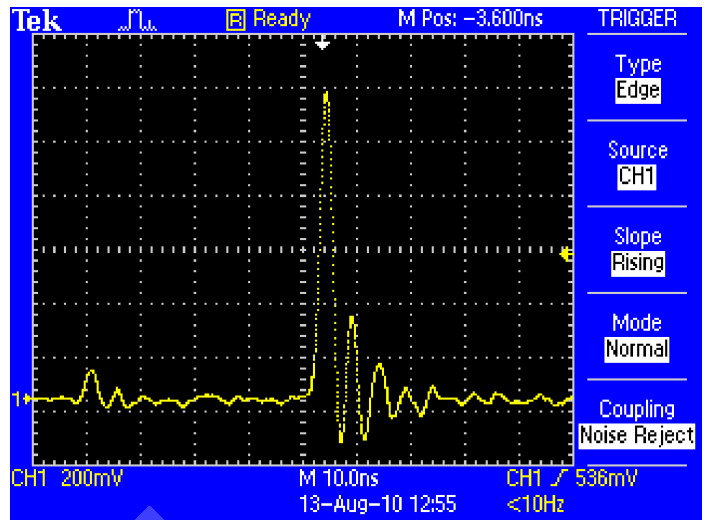
The TDS2000C Digital Storage Oscilloscope Series provides you with affordable performance in a compact design. Packed with standard features – including USB connectivity, 16 automated measurements, limit testing, data logging, and context-sensitive help – the TDS2000C Series oscilloscopes help you get more done, in less time.

## Digital Precision for Accurate Measurements

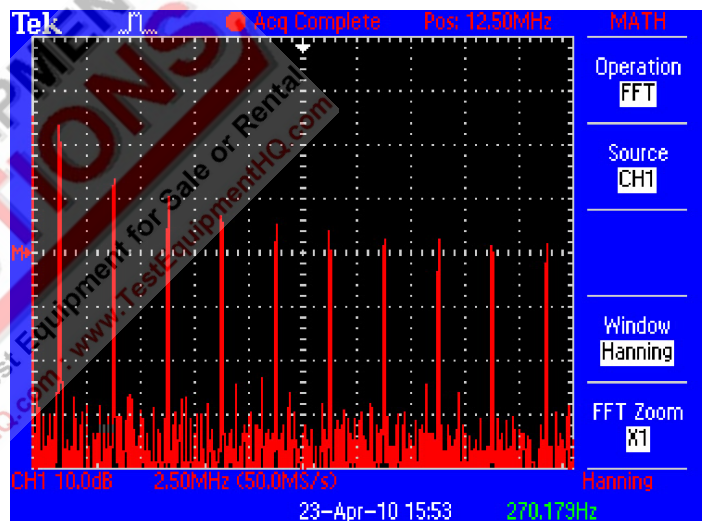
With up to 200 MHz bandwidth and 2 GS/s maximum sample rate, no other digital storage oscilloscope offers as much bandwidth and sample rate for the price. Tektronix proprietary sampling technology provides real-time sampling with a minimum of 10X oversampling on all channels, all the time to accurately capture your signals. Sampling performance is not reduced when using multiple channels.

## Critical Tools for Troubleshooting Your Device

Advanced triggers – rising/falling edge, pulse width, and video – help you quickly isolate your signals of interest. Once you've captured a signal, advanced math capabilities and automated measurements can speed your analysis. Quickly perform an FFT or add, subtract, or multiply waveforms. Sixteen automated measurements quickly and reliably calculate important signal characteristics such as frequency or rise time, while the built-in Limit Test function enables you to easily identify problems in your signal.



See all the details other oscilloscopes might miss with Tektronix proprietary digital real-time sampling.



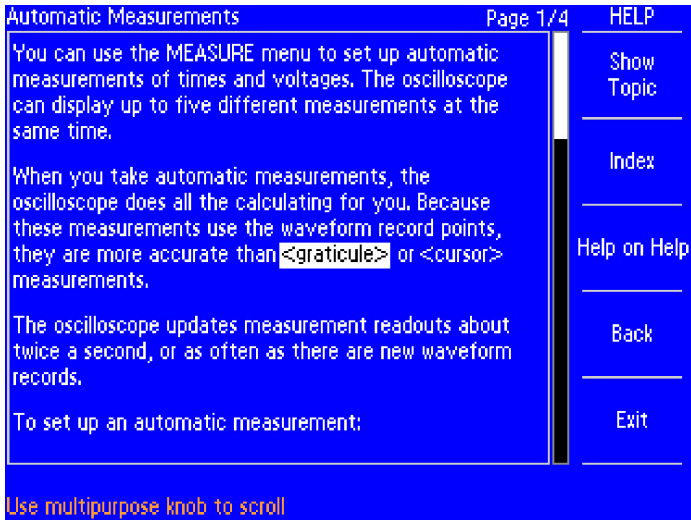
Quickly perform an FFT with the advanced math functions.

## Designed to Make Your Work Easy

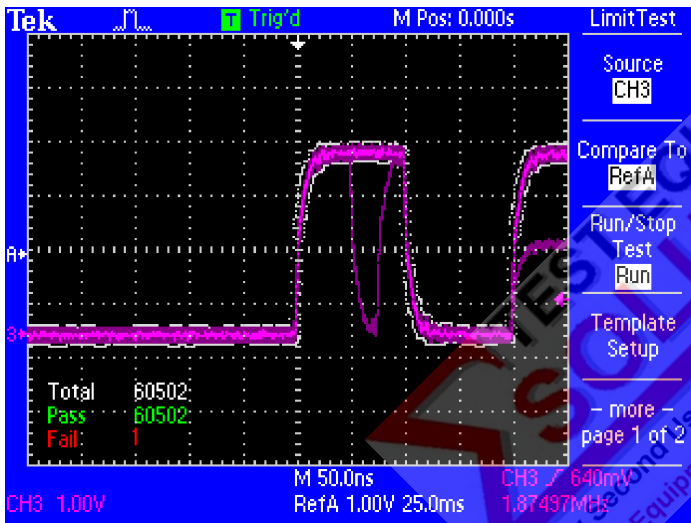
The TDS2000C Series oscilloscopes are designed with the ease of use and familiar operation you have come to expect from Tektronix.

## Intuitive Operation

The intuitive user interface with dedicated per-channel vertical controls, auto-setup, and auto-ranging makes these instruments easy to use, reducing learning time and increasing efficiency.



The context-sensitive Help system provides important information specific to the task you are working on.



Limit Test provides a quick pass/fail comparison of any triggered input signal to a user-defined template.

### Help When You Need It, Where You Need It

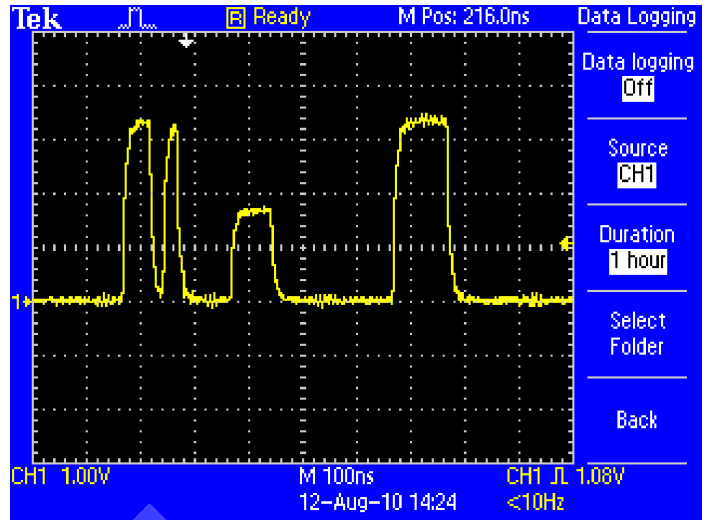
The built-in Help menu provides you with important information on your oscilloscope's features and functions. Help is provided in the same languages as the user interface.

### Probe Check Wizard

Check out your probe compensation before making measurements with just one button that starts a fast, easy procedure.

### Limit Test

The oscilloscope can automatically monitor source signals and output Pass or Fail results by judging whether the input waveform is within predefined



Data Logging enables automatic saving of triggered waveforms for up to 8 hours.



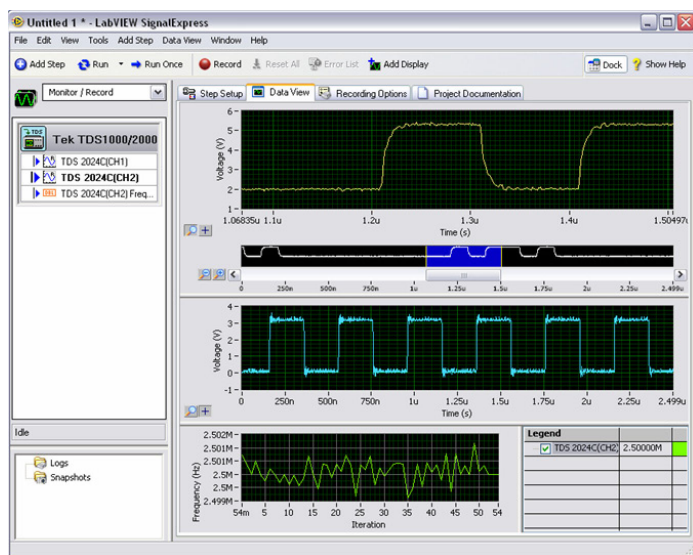
Conveniently use your USB flash drive to store screenshots and waveform data.

boundaries. Specific actions can be triggered on violation including stopping waveform acquisition, stopping Limit Test functions, saving the failed waveform data or screen image to a USB memory device, or any combination of the above. This is an ideal solution for manufacturing or service applications where you need to make decisions quickly.

### Flexible Data Transfer

The USB host port on the front panel enables you to save your instrument settings, screenshots, and waveform data in a flash. The built-in data logging feature means you can set up your oscilloscope to save user-specified triggered waveforms to a USB memory device for up to 8 hours.





Easily capture, save, and analyze measurement results with included National Instrument's LabVIEW SignalExpress, Limited Tektronix Edition software.

### Easy PC Connectivity

Easily capture, save, and analyze measurements results by connecting to your PC with the rear-panel USB device port and the included copy of OpenChoice PC Communications Software. Simply pull screen images

and waveform data into the stand-alone desktop application or directly into Microsoft Word and Excel. Alternatively, if you prefer not to use your PC, you can simply print your image directly to any PictBridge-compatible printer.

### Connect Your Bench for Intelligent Debug

Every TDS2000C Series oscilloscope ships with an included copy of the Limited Tektronix Edition of National Instrument's LabVIEW SignalExpress for basic instrument control, data logging, and analysis.

SignalExpress supports the range of Tektronix bench instruments\*<sup>2</sup> enabling you to connect your entire test bench. You can then access the feature-rich tools packed into each instrument from one intuitive software interface. This allows you to automate complex measurements requiring multiple instruments, log data for an extended period of time, time correlate data from multiple instruments, and easily capture and analyze your results, all from your PC. Only Tektronix offers a connected test bench of intelligent instruments to simplify and speed debug of your complex design.

### Performance You Can Count On

In addition to industry-leading service and support, every TDS2000C Series oscilloscope comes backed with a Lifetime Warranty\*<sup>1</sup> as standard.

\*<sup>1</sup> Limitations apply. For terms and conditions, visit [www.tektronix.com/lifetimewarranty](http://www.tektronix.com/lifetimewarranty).

\*<sup>2</sup> For a complete listing of Tektronix instruments supported by NI LabVIEW Signal Express, visit [www.tektronix.com/signalexpress](http://www.tektronix.com/signalexpress).

## Characteristics

### TDS2000C Series Digital Storage Oscilloscopes

|                                          | TDS2001C                                                                                                                                                         | TDS2002C         | TDS2004C         | TDS2012C           | TDS2014C           | TDS2022C           | TDS2024C           |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|
| Display (QVGA LCD)                       | TFT                                                                                                                                                              | TFT              | TFT              | TFT                | TFT                | TFT                | TFT                |
| Bandwidth*3                              | 50 MHz                                                                                                                                                           | 70 MHz           | 70 MHz           | 100 MHz            | 100 MHz            | 200 MHz            | 200 MHz            |
| Channels                                 | 2                                                                                                                                                                | 2                | 4                | 2                  | 4                  | 2                  | 4                  |
| External Trigger Input                   | Included on all models                                                                                                                                           |                  |                  |                    |                    |                    |                    |
| Sample Rate on Each Channel              | 500 MS/s                                                                                                                                                         | 1.0 GS/s         | 1.0 GS/s         | 2.0 GS/s           | 2.0 GS/s           | 2.0 GS/s           | 2.0 GS/s           |
| Record Length                            | 2.5k points at all time bases on all models                                                                                                                      |                  |                  |                    |                    |                    |                    |
| Vertical Resolution                      | 8 bits                                                                                                                                                           |                  |                  |                    |                    |                    |                    |
| Vertical Sensitivity                     | 2 mV to 5 V/div on all models with calibrated fine adjustment                                                                                                    |                  |                  |                    |                    |                    |                    |
| DC Vertical Accuracy                     | ±3% on all models                                                                                                                                                |                  |                  |                    |                    |                    |                    |
| Vertical Zoom                            | Vertically expand or compress a live or stopped waveform                                                                                                         |                  |                  |                    |                    |                    |                    |
| Maximum Input Voltage                    | 300 V <sub>RMS</sub> CAT II; derated at 20 dB/decade above 100 kHz to 13 V <sub>p-p</sub> AC at 3 MHz                                                            |                  |                  |                    |                    |                    |                    |
| Position Range                           | 2 mV to 200 mV/div +2 V<br>>200 mV to 5 V/div +50 V                                                                                                              |                  |                  |                    |                    |                    |                    |
| Bandwidth Limit                          | 20 MHz for all models                                                                                                                                            |                  |                  |                    |                    |                    |                    |
| Input Coupling                           | AC, DC, GND on all models                                                                                                                                        |                  |                  |                    |                    |                    |                    |
| Input Impedance                          | 1 MΩ in parallel with 20 pF                                                                                                                                      |                  |                  |                    |                    |                    |                    |
| Time Base Range                          | 5 ns to 50 s/div                                                                                                                                                 | 5 ns to 50 s/div | 5 ns to 50 s/div | 2.5 ns to 50 s/div | 2.5 ns to 50 s/div | 2.5 ns to 50 s/div | 2.5 ns to 50 s/div |
| Time Base Accuracy                       | 50 ppm                                                                                                                                                           |                  |                  |                    |                    |                    |                    |
| Horizontal Zoom                          | Horizontally expand or compress a live or stopped waveform                                                                                                       |                  |                  |                    |                    |                    |                    |
| <b>I/O Interfaces</b>                    |                                                                                                                                                                  |                  |                  |                    |                    |                    |                    |
| USB Ports                                | USB host port on front panel supports USB flash drives<br>USB device port on back of instrument supports connection to PC and all PictBridge-compatible printers |                  |                  |                    |                    |                    |                    |
| GPIO                                     | Optional                                                                                                                                                         |                  |                  |                    |                    |                    |                    |
| <b>Nonvolatile Storage</b>               |                                                                                                                                                                  |                  |                  |                    |                    |                    |                    |
| Reference Waveform Display               | (2) 2.5k point reference waveforms                                                                                                                               |                  |                  |                    |                    |                    |                    |
| Waveform Storage without USB Flash Drive | (2) 2.5k point                                                                                                                                                   | (2) 2.5k point   | (4) 2.5k point   | (2) 2.5k point     | (4) 2.5k point     | (2) 2.5k point     | (4) 2.5k point     |
| Maximum USB Flash Drive Size             | 64 GB                                                                                                                                                            |                  |                  |                    |                    |                    |                    |
| Waveform Storage with USB Flash Drive    | 96 or more reference waveforms per 8 MB                                                                                                                          |                  |                  |                    |                    |                    |                    |
| Setups without USB Flash Drive           | 10 front-panel setups                                                                                                                                            |                  |                  |                    |                    |                    |                    |
| Setups with USB Flash Drive              | 4000 or more front-panel setups per 8 MB                                                                                                                         |                  |                  |                    |                    |                    |                    |
| Screen Images with USB Flash Drive       | 128 or more screen images per 8 MB (the number of images depends on file format selected)                                                                        |                  |                  |                    |                    |                    |                    |
| Save All with USB Flash Drive            | 12 or more Save All operations per 8 MB<br>A single Save All operation creates 3 to 9 files (setup, image, plus one file for each displayed waveform)            |                  |                  |                    |                    |                    |                    |

\*3 Bandwidth is 20 MHz at 2 mV/div, all models.

**Acquisition Modes**

| Mode            | Description                                                                                                                                       |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Peak Detect     | High-frequency and random glitch capture. Captures glitches as narrow as 12 ns (typical) at all time base settings from 5 $\mu$ s/div to 50 s/div |
| Sample          | Sample data only                                                                                                                                  |
| Average         | Waveform averaged, selectable: 4, 16, 64, 128                                                                                                     |
| Single Sequence | Use the Single Sequence button to capture a single triggered acquisition sequence                                                                 |
| Roll            | At acquisition time base settings of >100 ms/div                                                                                                  |

**Trigger System**

| Characteristic | Description                   |
|----------------|-------------------------------|
| Trigger Modes  | Auto, Normal, Single Sequence |

**Trigger Types**

| Trigger                 | Description                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Edge (Rising/Falling)   | Conventional level-driven trigger. Positive or negative slope on any channel. Coupling selections: AC, DC, Noise Reject, HF Reject, LF Reject |
| Video                   | Trigger on all lines or individual lines, odd/even or all fields from composite video, or broadcast standards (NTSC, PAL, SECAM)              |
| Pulse Width (or glitch) | Trigger on a pulse width less than, greater than, equal to, or not equal to, a selectable time limit ranging from 33 ns to 10 s               |

**Trigger Source**

| Characteristic   | Description                             |
|------------------|-----------------------------------------|
| 2-channel Models | CH1, CH2, Ext, Ext/5, AC Line           |
| 4-channel Models | CH1, CH2, CH3, CH4, Ext, Ext/5, AC Line |

**Trigger View**

Displays trigger signal while Trigger View button is depressed.

**Trigger Signal Frequency Readout**

Provides a frequency readout of the trigger source.

**Cursors**

| Characteristic | Description                            |
|----------------|----------------------------------------|
| Types          | Amplitude, Time                        |
| Measurements   | $\Delta T$ , $1/\Delta T$ , $\Delta V$ |

**Automatic Waveform Measurements**

Period, Frequency, +Width, –Width, Rise Time, Fall Time, Max, Min, Peak-to-Peak, Mean, RMS, Cycle RMS, Cursor RMS, Duty Cycle, Phase, Delay

**Waveform Math**

| Characteristic   | Description                                                                                          |
|------------------|------------------------------------------------------------------------------------------------------|
| Operators        | Add, Subtract, Multiply, FFT                                                                         |
| FFT              | Windows: Hanning, Flat Top, Rectangular<br>2048 sample points                                        |
| Sources          |                                                                                                      |
| 2-channel models | CH1 – CH2, CH2 – CH1, CH1 + CH2, CH1 $\times$ CH2                                                    |
| 4-channel models | CH1 – CH2, CH2 – CH1, CH3 – CH4, CH4 – CH3, CH1 + CH2, CH3 + CH4, CH1 $\times$ CH2, CH3 $\times$ CH4 |

**Autoset Menu**

Single-button, automatic setup of all channels for vertical, horizontal, and trigger systems, with undo Autoset.

| Signal Type              | Autoset Menu Choices                                            |
|--------------------------|-----------------------------------------------------------------|
| Square Wave              | Single Cycle, Multicycle, Rising or Falling Edge                |
| Sine Wave                | Single Cycle, Multicycle, FFT Spectrum                          |
| Video (NTSC, PAL, SECAM) | Field: All, Odd, or Even<br>Line: All or Selectable Line Number |

**Autorange**

Automatically adjust vertical and/or horizontal oscilloscope settings when probe is moved from point to point, or when the signal exhibits large changes.

**Display Characteristics**

| Characteristic | Description                  |
|----------------|------------------------------|
| Display        | QVGA Active Color TFT        |
| Interpolation  | Sin(x)/x                     |
| Display Types  | Dots, vectors                |
| Persistence    | Off, 1 s, 2 s, 5 s, infinite |
| Format         | YT and XY                    |

**Multiple-language User Interface and Context-sensitive Help**

| Characteristic      | Description                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------------------|
| Languages Available | English, French, German, Italian, Japanese, Korean, Portuguese, Russian*, Simplified Chinese, Spanish, Traditional Chinese |

\*4 Requires Russian firmware, indicated by "RUS" suffix.

**Environmental and Safety**

| Characteristic                | Description                                                                 |
|-------------------------------|-----------------------------------------------------------------------------|
| Temperature                   |                                                                             |
| Operating                     | 0 to +50 °C                                                                 |
| Nonoperating                  | –40 to +71 °C                                                               |
| Humidity                      |                                                                             |
| Operating and nonoperating    | Up to 80% RH at or below +40 °C<br>Up to 45% RH up to +50 °C                |
| Altitude                      |                                                                             |
| Operating and nonoperating    | Up to 3,000 m                                                               |
| Electromagnetic Compatibility | Meets Directive 2004/108/EC, EN 61326-2-1 Class A; Australian EMC Framework |
| Safety                        | UL61010-1:2004, CSA22.2 No. 61010-1:2004, EN61010-1:2001, IEC61010-1:2001   |

**Physical Characteristics**

| <b>Instrument</b>          |           |            |
|----------------------------|-----------|------------|
| <b>Dimensions</b>          | <b>mm</b> | <b>in.</b> |
| Width                      | 326.3     | 12.85      |
| Height                     | 158.0     | 6.22       |
| Depth                      | 124.2     | 4.89       |
| <b>Weight</b>              | <b>kg</b> | <b>lb.</b> |
| Instrument Only            | 2.0       | 4.4        |
| With accessories           | 2.2       | 4.9        |
| <b>Instrument Shipping</b> |           |            |
| <b>Package Dimensions</b>  | <b>mm</b> | <b>in.</b> |
| Width                      | 476.2     | 18.75      |
| Height                     | 266.7     | 10.5       |
| Depth                      | 228.6     | 9.0        |
| <b>RM2000B Rackmount</b>   | <b>mm</b> | <b>in.</b> |
| Width                      | 482.6     | 19.0       |
| Height                     | 177.8     | 7.0        |
| Depth                      | 108.0     | 4.25       |

**Ordering Information****Models**

| <b>Model</b> | <b>Description</b>              |
|--------------|---------------------------------|
| TDS2001C     | 50 MHz, 2 Ch, 500 MS/s, TFT DSO |
| TDS2002C     | 70 MHz, 2 Ch, 1 GS/s, TFT DSO   |
| TDS2004C     | 70 MHz, 4 Ch, 1 GS/s, TFT DSO   |
| TDS2012C     | 100 MHz, 2 Ch, 2 GS/s, TFT DSO  |
| TDS2014C     | 100 MHz, 4 Ch, 2 GS/s, TFT DSO  |
| TDS2022C     | 200 MHz, 2 Ch, 2 GS/s, TFT DSO  |
| TDS2024C     | 200 MHz, 4 Ch, 2 GS/s, TFT DSO  |

**Standard Accessories**

| <b>Accessory</b>                                                                                           | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Passive Probes                                                                                             | TPP0101: 100 MHz passive probe for TDS2001C/TDS2002C/TDS2004C<br><br>TPP0201: 200 MHz passive probe for TDS2012C/TDS2014C/TDS2022C/TDS2024C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power Cord                                                                                                 | (Please specify plug option)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| NIM/NIST                                                                                                   | Traceable Certificate of Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Documentation                                                                                              | User Manual (Please specify preferred language option)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| OpenChoice PC Communications Software                                                                      | Enables fast and easy communication between a Windows PC and the TDS2000C Series using USB. Transfer and save settings, waveforms, measurements, and screen images                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| National Instruments SignalExpress<br>Tektronix Edition<br>Interactive Measurement Software – Base Version | A fully interactive measurement software environment optimized for the TDS2000C Series. Enables you to instantly acquire, generate, analyze, compare, import, and save measurement data and signals using an intuitive drag-and-drop user interface that does not require any programming. Standard TDS2000C Series support for acquiring controlling, viewing, and exporting your live signal. A 30-day trial period of the Professional Version provides additional signal processing, advance analysis, mixed signal, sweeping, limit testing, and user-defined step capabilities. Order SIGEXPTE for permanent Professional Version capability |
| Limited Lifetime Warranty <sup>*5</sup>                                                                    | Covers labor and parts for defects in materials and workmanship for a minimum of 10 years, excluding probes and accessories <sup>*6</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

<sup>\*5</sup> Lifetime is defined as 5 years after Tektronix discontinues manufacturing the product, but the warranty length shall be at least ten years from date of original purchase. Lifetime warranty is nontransferable, proof of original purchase is required. Limitations apply. For terms and conditions visit [www.tektronix.com/lifetimewarranty](http://www.tektronix.com/lifetimewarranty).

<sup>\*6</sup> Probes and accessories are not covered by the oscilloscope warranty and Service Offerings. Refer to the data sheet of each probe and accessory model for its unique warranty and calibration terms.

**Power Plug Options**

| <b>Option</b> | <b>Description</b>          |
|---------------|-----------------------------|
| A0            | North America               |
| A1            | Universal Euro              |
| A2            | United Kingdom              |
| A3            | Australia                   |
| A5            | Switzerland                 |
| A6            | Japan                       |
| A10           | China                       |
| A11           | India                       |
| A99           | No power cord or AC adapter |



### User Manual Options

Translated front-panel overlays included with their respective user manuals.

| Option | Description             |
|--------|-------------------------|
| L0     | English manual          |
| L1     | French manual           |
| L2     | Italian manual          |
| L3     | German manual           |
| L4     | Spanish manual          |
| L5     | Japanese manual         |
| L6     | Portuguese manual       |
| L7     | Simple Chinese manual   |
| L8     | Standard Chinese manual |
| L9     | Korean manual           |
| L10    | Russian manual          |

### Recommended Accessories

| Accessory   | Description                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------------------|
| TEK-USB-488 | GPIO-to-USB converter                                                                                        |
| SIGEXPTE    | National Instruments SignalExpress Tektronix Edition Interactive Measurement Software – Professional Version |
| AC2100      | Soft Carrying Case for Instrument                                                                            |
| HCTEK4321   | Hard Plastic Carrying Case for Instrument (requires AC2100)                                                  |
| RM2000B     | Rackmount Kit                                                                                                |
| 071-1075-xx | Programmer Manual – English Only                                                                             |
| 071-1828-xx | Service Manual – English Only                                                                                |
| 174-4401-xx | USB host to device cable, 3 ft. long                                                                         |

### Recommended Probes

| Probe            | Description                                                   |
|------------------|---------------------------------------------------------------|
| TPP0101          | 10X Passive Probe, 100 MHz bandwidth                          |
| TPP0201          | 10X Passive Probe, 200 MHz bandwidth                          |
| P2220            | 1X/10X Passive Probe, 200 MHz bandwidth                       |
| P6101B           | 1X Passive Probe (15 MHz, 300 V <sub>RMS</sub> CAT II rating) |
| P6015A           | 1000X High-voltage Passive Probe (75 MHz)                     |
| P5100            | 100X High-voltage Passive Probe (250 MHz)                     |
| P5200            | High-voltage Active Differential Probe (25 MHz)               |
| P6021            | 15 A, 60 MHz AC-current Probe                                 |
| P6022            | 6 A, 120 MHz AC-current Probe                                 |
| A621             | 2000 A, 5 to 50 kHz AC-current Probe                          |
| A622             | 100 A, 100 kHz AC/DC Current Probe/BNC                        |
| TCP303/TCPA300   | 150 A, 15 MHz AC/DC Current Probe/Amplifier                   |
| TCP305/TCPA300   | 50 A, 50 MHz AC/DC Current Probe/Amplifier                    |
| TCP312/TCPA300   | 30 A, 100 MHz AC/DC Current Probe/Amplifier                   |
| TCP404XL/TCPA400 | 500 A, 2 MHz AC/DC Current Probe/Amplifier                    |

### Service Options\*6

| Option | Description                                                                                                    |
|--------|----------------------------------------------------------------------------------------------------------------|
| C3     | Calibration Service 3 Years                                                                                    |
| C5     | Calibration Service 5 Years                                                                                    |
| D1     | Calibration Data Report                                                                                        |
| D3     | Calibration Data Report 3 Years (with Opt. C3)                                                                 |
| D5     | Calibration Data Report 5 Years (with Opt. C5)                                                                 |
| CA1    | Provides a single calibration event or coverage for the designated calibration interval, whichever comes first |

\*6 Probes and accessories are not covered by the oscilloscope warranty and Service Offerings. Refer to the data sheet of each probe and accessory model for its unique warranty and calibration terms.

### Service Offerings (Available after purchase)

| Option       | Description                                                                                                    |
|--------------|----------------------------------------------------------------------------------------------------------------|
| TDSxxxxC-CA1 | Provides a single calibration event or coverage for the designated calibration interval, whichever comes first |



Product(s) are manufactured in ISO registered facilities.



Product(s) complies with IEEE Standard 488.1-1987, RS-232-C, and with Tektronix Standard Codes and Formats.









Contact Tektronix:

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