

Environmental and Safety

Characteristic	Operating	Non-operating
Temperature	0 °C to +50 °C	-40 °C to +71 °C
Humidity	Operating and Nonoperating: Up to 95% RH at or below +30 °C Operating and Nonoperating: Up to 45% RH +30 °C up to +50 °C	
Altitude	To 3,000 m	15,000 m
Electromagnetic Compatibility	Meets or exceeds EN61326 Class A, Annex D radiated and conducted emissions and immunity; EN6100-3-2 AC Powerline Harmonic Emissions; EN6100-3-3 Voltage Changes, Fluctuation, and Flicker; FCC 47 CFR, Part 15, Subpart B, Class A; Australian EMC framework	
Safety	UL61010B-1, CSA1010.1, IEC61010-1, EN61010-1	

Physical Characteristics

Instrument		
Dimensions	mm	in.
Width	375.0	14.8
Height	176.0	6.9
Depth	149.0	5.9
Weight	kg	lb.
Instrument only	3.2	7.0
with accessories	4.5	9.8

Instrument Shipping

Package Dimensions	mm	in.
Width	502.0	19.8
Height	375.0	14.8
Depth	369.0	14.5

Rackmount (RM3000)

Dimension	mm	in.
Width	484.0	19.0
Height	178.0	7.0
Depth	152.0	6.0

Ordering Information**TDS3000C Series Digital Phosphor Oscilloscopes**

Model	Description
TDS3012C	100 MHz, 2 Channel, 1.25 GS/s
TDS3014C	100 MHz, 4 Channel, 1.25 GS/s
TDS3032C	300 MHz, 2 Channel, 2.5 GS/s
TDS3034C	300 MHz, 4 Channel, 2.5 GS/s
TDS3052C	500 MHz, 2 Channel, 5 GS/s
TDS3054C	500 MHz, 4 Channel, 5 GS/s

Standard Accessories

Accessory	Description
One P6139B, 500 MHz, 10x passive probe per channel	
User Manual and Translated Front-panel Overlay	Please specify preferred language option - see chart below
Power Cord	Please specify plug option - see chart below
Accessory Tray	
Protective Front Cover	
OpenChoice® PC Communication Software	Enables fast and easy communication between Windows PC and the TDS3000C Series through LAN, GPIB, or RS-232. Transfer and save settings, waveforms, measurements, and screen images
NI LabVIEW SignalExpress™ Tektronix Edition LE	A fully interactive measurement software environment optimized for the TDS3000C Series. Enables you to 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 TDS3000C Series support for acquiring, controlling, viewing, and exporting your live signal data is permanently available through the software. A 30-day trial period of the full version provides additional signal processing, advance analysis, mixed signal, sweeping, limit testing, and user-defined step capabilities. Order SIGEXPTE for permanent full version capability
Traceable Certificate of Calibration	NIM/NIST
Documentation CD	
3 Year Warranty	Covering all labor and parts excluding probes and accessories

Options

Option	Description
Opt. A0	North America
Opt. A1	Universal Euro
Opt. A2	United Kingdom
Opt. A3	Australia
Opt. A5	Switzerland
Opt. A6	Japan
Opt. A10	China
Opt. A11	India
Opt. A99	No power cord

Language Options

Option	Description
Opt. L0	English
Opt. L1	French
Opt. L2	Italian
Opt. L3	German
Opt. L4	Spanish
Opt. L5	Japanese
Opt. L6	Portuguese
Opt. L7	Simplified Chinese
Opt. L8	Traditional Chinese
Opt. L9	Korean
Opt. L10	Russian
Opt. L99	No manual

Recommended Accessories

Accessory	Description
TDS3GV	GPIO, VGA, RS-232 interface
TDS3AAM	Advanced Analysis Module. Adds extended math capability, arbitrary math expressions, measurement statistics, and additional automated measurements
TDS3LIM	Limit Testing Module. Adds custom waveform limit testing capabilities
TDS3TMT	Telecom Mask Testing Module. Adds pass/fail compliance of ITU-T G.703 and ANSI T1.102 standards, custom mask testing, and more
TDS3VID	Extended Video Analysis Module. Adds video quickmenu, autose, hold, line count trigger, video picture mode, vectorscope*2 mode, HDTV format trigger gratitudes, and more
TDS3SDI	Serial/Digital Video Module. Adds 601 serial digital video to analog video conversion, video picture, vectorscope*2, and analog HDTV triggering capabilities, and more
TDS3BATC	Lithium-ion battery pack for up to 3 hours continuous operation without line power
AC3000	Soft case for carrying instrument
HCTEK4321	Hard plastic case for carrying instrument (requires AC3000)
RM3000	Rackmount kit
SIGEXPTE	NI LabVIEW SignalExpress™ Tektronix Edition Software full version
Service Manual	English only (071-2507-xx)
TNGTDS01	Extensive instructions and step-by-step lab exercises provide education about the operation of TDS3000C Series Oscilloscopes. Kit includes self-paced CD-ROM based manual and signal source board. Optional hardcopy manual available for order separately

*2 Vectorscope does not support composite video.

Recommended Probes

Probe	Description
P6243	1 GHz, ≤1 pF input C 10x active probe
P5205	1.3 kV, 100 MHz high-voltage differential probe
P5210	5.6 kV, 50 MHz high-voltage differential probe
P5100	2.5 kV, 100x high-voltage passive probe
TCP202	50 MHz, 15 A AC/DC current probe
TCP303*3	15 MHz, 150 A current probe
TCP305*3	50 MHz, 50 A current probe
TCP312*3	100 MHz, 30 A current probe
TCPA300	100 MHz probe amplifier
TCP404XL*4	2 MHz, 500 A current probe
TCPA400	50 MHz probe amplifier
ADA400A	100x, 10x, 1x, 0.1x high-gain differential amplifier

*3 Requires TCPA300 probe amplifier.

*4 Requires TCPA400 probe amplifier.

Service Options

Option	Description
Available at time of purchase	
Opt. CA1	Provides a single calibration event or coverage for the designated calibration interval, whichever comes first
Opt. D1	Calibration Data Report
Opt. R5	Repair Service - 5 year
Available after purchase	
TDS30xxC-CA1	Provides a single calibration event or coverage for the designated calibration interval, whichever comes first
TDS30xxC-R1PW	Repair service coverage 1 year post warranty
TDS30xxC-R2PW	Repair service coverage 2 years post warranty
TDS30xxC-R5DW	Repair service coverage 5 years (includes product warranty period); 5-year period starts at time of customer instrument purchase



Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.



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



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