

## Introducing TBS2000 Series Oscilloscope

See More, Measure More and Learn More with the newest basic oscilloscope product family



The Time Domain Product Line is proud to introduce the TBS2000 Oscilloscope Series. This brand new basic oscilloscope series is the biggest product introduction in our basic oscilloscope segment in the past 8 years. The product series is based on a brand new hardware and software platform. It introduces a totally new ID (Industry Design) and UI (User Interface) design with a 9-inch WVGA display, 20M point record length and 1 GS/s sample rate.

The TBS2000 Series oscilloscope captures and displays significantly more signal to help you evaluate designs faster. Easily and confidently analyze your signals with new on-waveform cursor readouts and 32 automated measurements, each with informative tips to help you quickly choose the right one. The TekVPI® probe interface works with traditional BNC connections, but also enables wide application coverage with the latest active voltage and current probes.

### Key performance specifications

- 2 and 4 analog channel models
- 100 and 70 MHz bandwidth models
- Up to 1 GS/s sample rate

- 20M record length on all channels
- Standard 5 year warranty

### Key features

- 9-inch WVGA color display
- 15 horizontal grids show 50% more signal at the same horizontal scale setting
- TekVPI<sup>®</sup> probe interface supports active, differential, and current probes with automatic scaling and units
- 32 automated measurements, and FFT function for thorough waveform analysis
- HelpEverywhere provides helpful on-screen tips for specified settings
- Built-in “Scope Intro” handbook provides operation instructions and oscilloscope fundamentals
- 2-channel models are highly-portable at 2.62 kg (5.78lbs)

### Connectivity

- USB 2.0 host port on the front panel for quick and easy data storage
- USB 2.0 device port on rear panel for easy connection to a PC
- Wi-Fi interface support wireless connectivity (optional)
- LXI compliant 10/100Base-T port for remote control over LAN

### Education

- Courseware function presents lab exercise guidance on the display
- Fully compatible with TekSmartLab™ lab management software for education

## Product Summary

Basic Model	TBS2072	TBS2102	TBS2074	TBS2104
Channel	2CH	2CH	4CH	4CH
Bandwidth	70MHz	100MHz	70MHz	100MHz
Sampling Rate	1GS/s	1GS/s	1GS/s	1GS/s
Record Length	20M	20M	20M	20M

The TBS2000 Series based on new platform technology is a range of 2- and 4-channel oscilloscopes positioned as direct displacement of the TDS2000C Series to satisfy customers who use oscilloscope as a visualization tool.

The TBS2000 meets or exceeds industry standard specifications and comes with brand new UI and ID. Furthermore, there are innovative education solutions to solve customer headaches and make the instrument the first choice for the education market. The brand new help system makes each first-time user familiar with the instrument as soon as possible.

## Product Value Proposition

### For Budget Conscious Design Engineers

**The TBS2000 Oscilloscope is the one product which delivers the best signal visualization (50% more signal) and easy data sharing starting at \$1,200**

- *LONGEST 20M points record length lets you capture signals over a longer time period*
- *BIGGEST 9-inch crystal-clear WVGA display with 15 horizontal divisions to see more of your signal*
- *BEST Wi-Fi support, LXI compliance for easy data-sharing and wireless/network/PC control*
- *ONLY TekVPI Probe Interface enables better application coverage with widest range of active and current probes*

### For Undergraduate Professors

**The TBS2000 is the one oscilloscope that enables Undergraduate EE Professors to help more students and devote more time to circuit concepts, with a reliable scope that students will use later in their careers, starting at \$1,200**

- *BIGGEST 9-inch crystal-clear WVGA display makes sharing an instrument between students easier*
- *Built-in "Scope Intro" handbook to help students start using scopes quickly and easily*
- *Built-in lab courseware support lets professors provide lab instructions right on the scope.*
- *Network-based TekSmartLab automated lab management solution with convenient Wi-Fi capability lets professors access student scopes from a central lab station*
- *5 year warranty reduces the risk of having to replace instruments frequently*

## Ordering Information

### Base Product

Model	Description
TBS2072	Basic Oscilloscope; 70MHz bandwidth, 2 channel, 20M record length, 5-year warranty, Certificate of Traceable Calibration Standard
TBS2102	Basic Oscilloscope; 100MHz bandwidth, 2 channel, 20M record length, 5-year warranty, Certificate of Traceable Calibration Standard
TBS2074	Basic Oscilloscope; 70MHz bandwidth, 2 channel, 20M record length, 5-year warranty, Certificate of Traceable Calibration Standard
TBS2104	Basic Oscilloscope; 100MHz bandwidth, 2 channel, 20M record length, 5-year warranty, Certificate of Traceable Calibration Standard

### Instrument Options

Option	Description	Master Price
USBWIFI	USB Wi-Fi dongle (DWA-131), CE, FCC, IC certificated	NA in Taiwan
P2221 (TBS2072, TBS2102)	1X 10X attenuation adjustable	TBD
P2221 (TBS2074, TBS2104)	1X 10X attenuation adjustable	TBD
D1	Calibration Report	TBD

**Standard accessories:** For all TBS2000 instruments, the following standard accessories are included.

**ProbesTPP0100** 100 MHz, 10x passive probe (one per analog channel)

**063-4568-00** Documentation Browser CD

**071-3445-00** Safety and Installation Instructions

**Power cord:** country specific

**Calibration Certificate** documenting traceability to National Metrology Institute(s) and

ISO9001 quality system registration

**Warranty:** Five-year warranty covering all parts and labor, excluding probes.

## Recommended accessories

### Probes

Tektronix offers over 100 different probes to meet your application needs. For a comprehensive listing of available probes, please visit [www.tektronix.com/probes](http://www.tektronix.com/probes).

<b>P5100A</b>	2.5 kV, 500 MHz, 100X high-voltage passive probe
<b>TDP0500</b>	500 MHz TekVPI ® differential voltage probe with ±42 V differential input voltage
<b>THDP0200</b>	±1.5 kV 200 MHz high-voltage differential probe
<b>THDP0100</b>	±6 kV 100 MHz high-voltage differential probe
<b>TAP1500</b>	1.5 GHz TekVPI ® active voltage probe
<b>TCP0020</b>	50 MHz TekVPI ® 20 Ampere AC/DC current probe
<b>TCP0030A</b>	120 MHz TekVPI ® 30 Ampere AC/DC current probe
<b>TCP0150</b>	20 MHz TekVPI ® 150 Ampere AC/DC current probe
<b>TCP2020</b>	50 MHz TekVPI ® 20 Ampere AC/DC current probe

### Accessories

<b>TPA-BNC</b>	TekVPI ® to TekProbe ® BNC adapter
<b>TEK-DPG</b>	TekVPI ® Deskew pulse generator signal source
<b>ACD2000</b>	Soft case for TBS2072 and TBS2102
<b>ACD4000</b>	Soft case for TBS2074 and TBS2104
<b>067-1686-xx</b>	Power measurement deskew and calibration fixture
<b>TEK-USB-488</b>	GPIB-to-USB adapter
<b>Compatible Wi-Fi dongle</b>	TP-LINK TL-WN823N NETGEAR WNA1000M, WNA3100M

## Regional Restriction

Item	Regional Restriction
TEK-USB-WIFI	“This Wi-Fi dongle only support CE, FCC and IC certification and can only be sold in regions which accept these certifications: United States, China, Canada, Australia, New Zealand and EU Region”
TBS2072 USBWIFI	
TBS2074 USBWIFI	
TBS2102 USBWIFI	
TBS2104 USBWIFI	

<b>Warranty</b>	TBS2000 instruments: standard 5 year warranty
<b>Long Term Product Support (LTPS)</b>	5 years
<b>Public Announcement</b>	July 26, 2016 * tentative date
<b>Export Classification</b>	HTS – USA: 9030.20.1000. ECCN – 3A292
<b>Country of Origin</b>	People’s Republic of China