TBS2000 Series vs. Rigol DS2000A Series
COMPETITIVE FACT SHEET

Visualization

Tektronix TBS2000 Series

Rigol DS2000A Series

- ✓ 9" WVGA display with 15 horizontal grids
- ✗ 8" WVGA with 14 horizontal grids
- ✓ 20M record length to capture long time windows
- ✗ 14M record length as standard, with a 56M option

Key Specifications Comparison

	Tektronix TBS2000 Series		Rigol DS2000A Series	
Analog Channels	✓	2, 4	✗	2
Bandwidth	✗	70, 100 MHz	✓	70, 100, 200, 300 MHz
Max. Sample Rate (All channels on)	✗	500 MS/s	✓	1 GS/s
Max. Record Length (All channels on)	✓	20 M points	✗	7 M points 28 M points (optional)
Time-base Range	✓	2ns/div to 100s/div (70&100MHz)	✓	5ns/div to 1ks/div (70&100MHz) 2ns/div to 1ks/div (200MHz) 1ns/div to 1ks/div (300MHz)
Auto Measurement	✓	32	✗	29
Standard Trigger Types	✗	Edge, Pulse width, Runt	✓	Edge, Pulse width, Runt, Slope, Pattern, Setup/Hold, RS-232, I^{2}C, SPI

Probe and Measurement

Tektronix TBS2000 Series

Rigol DS2000A Series

- ✓ TekVPI probe interface supports active, differential, and current probes without the need for external power. Probes communicate with TBS2000
- ✗ Standard BNC interface. No power provided by the scope, and no communication
- ✓ 32 automatic measurements can be categorized and laid out in one page for straight-forward selection
- ✗ 24 automatic measurements are selected from a long list. You are not able to see them all at once
- ✓ Cursor measurement with on-waveform readouts
- ✗ Cursor measurement readouts are off to the side of the screen

Safety and Reliability

Tektronix TBS2000 Series

- ✓ 5 years of warranty
- ✓ No fans in 2-channel models, for low noise operation
- ✓ Max. Input Voltage: CATII 300Vrms

Rigol DS2000A Series

- ✗ 3 years of warranty
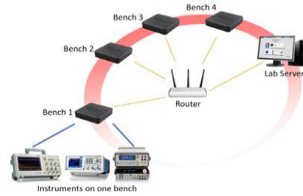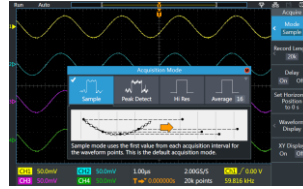- ✗ Fans in all models
- ✗ Max. Input Voltage: CATII 100Vrms

Tektronix

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Education for Everybody

Tektronix TBS2000 Series

- ✓ **HelpEverywhere** – Shows real-time instructions for key operations like triggering or measuring

- ✓ **ScopeIntro** – Built-in knowledge book with detailed introduction of oscilloscope and current models

- ✓ **Courseware** – Lab exercises may be downloaded for free and may be loaded and viewed on the oscilloscope

- ✓ **TekSmartLab** – TBS2000 is fully compatible with TekSmartLab software for presetting lab stations and monitoring student progress from a professor's workstation

Rigol DS2000A Series

- ✗ No instructions for key operations

- ✗ No built-in oscilloscope or operation guide

- ✗ Lab exercises may not be loaded or viewed on the oscilloscope

- ✗ No solution for presetting lab stations or monitoring student progress during labs from a professor's workstation

Remote Connectivity

Tektronix TBS2000 Series

- ✓ First basic oscilloscope with Wi-fi Dongle support

- ✓ Two USB ports on rear panel: one USB HOST for flash drive or wi-fi dongle; one USB DEVICE for remote control via PC

- ✓ LAN with LXI compatibility is included. TBS2000 can be remotely accessed on any device on the network equipped with a web browser

Rigol DS2000A Series

- ✗ No wireless connectivity

- ✗ Only one USB port on rear panel: USB DEVICE

- ✓ LAN as standard with LXI compatibility

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