

TBS2000 Series vs. Keysight X2000 Series

COMPETITIVE FACT SHEET

Visualization

Tektronix TBS2000 Series



- ✓ 9" WVGA display with 15 horizontal grids, 100% waveform display with menu-off
- ✓ 20M record length to capture long time windows

Keysight X2000 Series



- ✗ 8.5" WVGA with 10 horizontal grids, plus 1/5 of the display is occupied by menu bar that cannot be turned off
- ✗ 100k record length as standard, with a 1M option

Key Specifications Comparison

	Tektronix TBS2000 Series	Keysight X2000 Series
Analog Channels	✓ 2, 4	✓ 2, 4
Bandwidth	✗ 70, 100 MHz	✓ 70, 100, 200 MHz
Max. Sample Rate (All channels on)	✗ 500 MS/s	✓ 1 GS/s
Max. Record Length (All channels on)	✓ 20 M points	✗ 100 K points 1 M points (optional)
Time-base Range	✓ 2ns/div to 100s/div (70&100MHz)	✗ 5ns/div to 50s/div (70&100MHz) 2ns/div to 50s/div (200MHz)
Automated Measurements	✓ 32	✗ 24
Trigger Types	✓ Edge, Pulse width, Runt	✓ Edge, Pulse width, Pattern, Video

Probes and Measurements

Tektronix TBS2000 Series



- ✓ TekVPI probe interface supports active, differential, and current without the need for external power. Probes communicate with TBS2000
- ✓ 32 automatic measurements can be categorized and laid out in one page for straight-forward selection
- ✓ Cursor measurement with on-waveform readouts

Keysight X2000 Series



- ✗ Standard BNC interface. No power provided by the scope, and no communication
- ✗ 24 automatic measurements are selected from a long list. You are not able to see them all at once
- ✗ 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

Keysight X2000 Series

- ✓ 5 years of warranty
- ✗ Fans in all models
- ✓ Max. Input Voltage: CATII 300Vrms

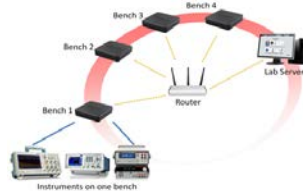
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Tools and Applications Designed Especially for Education

Tektronix TBS2000 Series

- ✓ **HelpEverywhere** – Shows real-time graphic instructions for complex settings
- ✓ **ScopeIntro** – Built-in handbook with detailed introduction of oscilloscope and overview of TBS2000 operation
- ✓ **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



Keysight X2000 Series

- ✗ Simple text introduction by pressing Help button
- ✗ No built-in oscilloscope or operation guide
- ✗ Lab exercises are available from a third-party supplier for a fee.
- ✗ 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 by any device on the same network equipped with a web browser

Keysight X2000 Series



- ✗ No wireless connectivity
- ✓ Two USB ports on rear panel: one USB HOST for flash drive; one USB DEVICE for remote control via PC
- ✗ LAN/VGA module with LXI compatibility is only optional