

TBS2000B Series vs. Keysight X2000 Series

COMPETITIVE FACT SHEET

Visualization

Tektronix TBS2000B Series



- ✓ 9" WVGA display with 15 horizontal grids, 100% waveform display with menu-off.
- ✓ 5M record length to capture long time windows.
- ✓ Small form factor 2-channel instrument reduces bench footprint.

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.
- ✗ 1M record length as standard.
- ✗ No reduction in size on 2-channel instruments.

Key Specifications Comparison

| | Tektronix TBS2000B Series | Keysight X2000 Series |
|--------------------------------------|---|---|
| Analog Channels | ✓ 2, 4 | ✓ 2, 4 |
| Bandwidth | ✓ 70, 100, 200 MHz | ✓ 70, 100, 200 MHz |
| Max. Sample Rate (All channels on) | ✓ 1GS/s | ✓ 1 GS/s |
| Max. Record Length (All channels on) | ✓ 5 M points | ✗ 1 M points |
| Time-base Range | ✓ 1ns/div to 100s/div (70/100MHz) 2ns/div to 100s/div (200MHz) | ✗ 5ns/div to 50s/div (70/100MHz) 2ns/div to 50s/div (200MHz) |
| Automated Measurements | ✓ 32 | ✗ 26 |
| Trigger Types | ✗ Edge, Pulse width, Runt | ✓ Edge, Pulse width, Pattern, Video, Runt, Rise/Fall |

Probes and Measurements

Tektronix TBS2000B Series



- ✓ TekVPI® probe interface supports active, differential, and current without the need for external power. Probes communicate with TBS2000B.
- ✓ 32 automatic measurements can be categorized and laid out in one page for straight-forward selection.
- ✓ Cursor measurement with on-waveform readouts.
- ✓ Autoset, Cursors and measurements can be disabled individually to teach basic concepts.

Keysight X2000 Series



- ✗ Standard BNC interface. No power provided by the scope, and no auto scaling.
- ✗ 26 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.
- ✗ Only Autoset can be disabled.

Safety and Reliability

Tektronix TBS2000B 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.

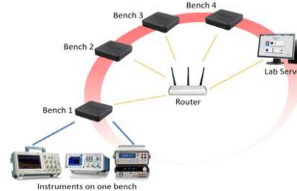
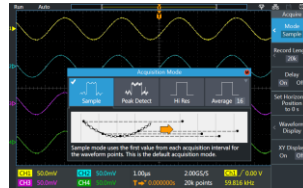
TBS2000B Series vs. Keysight X2000 Series

COMPETITIVE FACT SHEET

Tools and Applications Designed Especially for Education

Tektronix TBS2000B Series

- ✓ **HelpEverywhere** – Shows real-time graphic instructions for complex settings.
- ✓ **ScopeIntro** – Built-in handbook with detailed introduction of oscilloscope and overview of TBS2000B operation.
- ✓ **Courseware** – Lab exercises may be downloaded for free and may be loaded and viewed on the oscilloscope.
- ✓ **TekSmartLab** – TBS2000B 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 TBS2000B Series



- ✓ First basic oscilloscope family 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 port included standard. TBS2000B 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.

Find more valuable resources at [TEK.COM](https://www.tek.com)

Copyright © Tektronix. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks or registered trademarks of their respective companies.
022420 3GW-61661-0
