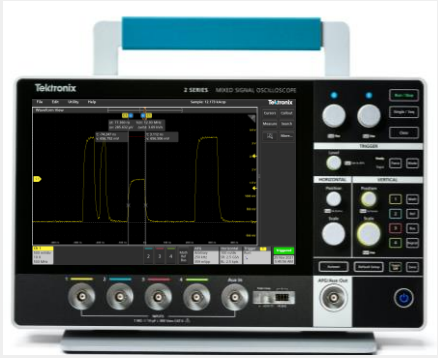
2 Series MSO vs. Rigol DHO1000

COMPETITIVE FACT SHEET

Visualization & Usability

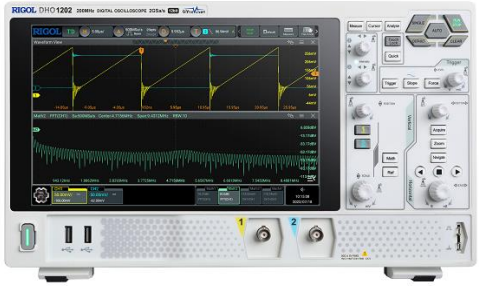
Tektronix 2 Series MSO

- ✓ 10.1-inch WXGA (1280 x 800) resolution display with touchscreen
- ✓ Touchscreen capabilities with intuitive control commands
- ✓ Ability to view multiple waveform slices in stacked mode
- ✓ Common user interface across the scope family



Rigol DHO1000

- ✓ 10.1-inch HD 1280 X 800 resolution display with touchscreen
- ✓ Touchscreen capabilities
- ✗ Waveform view is limited to one display window
- ✗ Different user interfaces across different models



Portability & Physical Characteristics

Tektronix 2 Series MSO

- ✓ **Battery:** Optional battery pack can power the instrument for up to 8 hours
- ✓ **Weight:** 4 lbs standalone and 8 lbs total with battery pack and two batteries
- ✓ **Footprint:** 8.26” x 13.54” x 1.59” (H x W x D) dimensions allows for more desk space
- ✓ **Flexibility:** VESA Mount allows for the scope to be positioned in many ways

Rigol DHO1000

- ✗ **Battery:** No battery pack
- ✗ **Weight:** 8.4 lbs is heavier than the 2 Series MSO without the battery pack
- ✗ **Footprint:** 8.45” x 14.1” x 4.75” (H x W x D) dimensions takes up more space on the lab bench
- ✗ **Flexibility:** No VESA Mount

Key Specifications Comparison

	Tektronix 2 Series MSO		**Rigol** DHO1000	
Analog Channels	✓	2 or 4	✓	2, 4
Digital Channels	✓	16 (with option 2-MSO)	✗	No
Bandwidth	✓	70, 100, 200, 350, 500 MHz	✗	70, 1000, 200MHz
Max. Sample Rate	✓	1.25 GS/s (all channels on) 2.5 GS/s (half channels on)	✗	1 GS/s (per channel) 2 GS/s (half channels)
Max. Record Length (All channels on)	✗	10 M points	✓	50 M points
Maximum Input Voltage	✓	CATII 300 Vrms	✗	CATI 300 Vrms
Standard Trigger Types	✗	Edge, Pulse Width, Runt, Timeout, Logic, Setup & Hold, Rise/Fall Time, Parallel Bus	✓	Edge, Pattern, Pulse Width, Video, Timeout, Runt, Window, Setup/Hold, Delay, Nth Edge, Serial Bus
Arbitrary Function Generator (AFG)	✓	1-channel, 50 MHz	✗	No
Digital Pattern Generator	✓	4 channels, 4k memory length, up to 25 Mbps	✗	No

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Productivity

Tektronix 2 Series MSO

- ✓ **Help:** Shows graphical images and explanatory text to provide quick feature overviews. Application notes and more information available on website
- ✓ **Feature Control:** Allows disabling of autoset, cursors, and automated measurements
- ✓ **Front Panel:** Simplified front panel with LED color coded ring lights
- ✓ **Highly Customizable Software:** Change font sizes, colors, autoset, window sizes, and much more
- ✓ **PC Analysis:** Perform advanced analysis using TekScope™, with same UI as 2 Series

Rigol DHO1000

- ✗ Built in help menu provides help on selected options
- ✗ No feature control available
- ✓ Simplified front panel
- ✗ No customizability options
- ✗ No comprehensive software to perform advanced analysis on PC

Measurement

Tektronix 2 Series MSO

- ✓ Display unlimited measurements either as measurement badge or collectively in a results table
- ✓ One set of cursors per display, can be enabled in any window simultaneously
- ✗ Perform serial protocol triggering and analysis on the most common buses (requires 2-SERIAL)
- ✓ Unlimited math waveforms and reference signals
- ✓ Gate both measurements and FFTs
- ✗ 37 automatic measurements
- ✓ Frequency Response Analysis (Bode plot, requires 2-SOURCE)

Rigol DHO1000

- ✗ Maximum of 14 active measurements at once
- ✗ Two set of XY cursors
- ✓ Serial triggering and decoding standard
- ✗ 4 math waveforms and 10 reference waveforms
- ✗ No measurement or FFT gating
- ✓ 41 automatic measurements
- ✗ No Bode plot

Connectivity

Tektronix 2 Series MSO

- ✓ Two USB 2.0 HOST ports
- ✓ One USB DEVICE port
- ✓ Ethernet port for network connectivity
- ✓ TekDrive™ is natively integrated as a T&M collaborative data workspace that allows for seamless data access anywhere and much more
- ✗ No HDMI output port

Rigol DHO1000

- ✓ Two USB 3.0 HOST port
- ✓ One USB 3.0 DEVICE port
- ✓ Ethernet port
- ✗ Web Control Interface allows waveform control, measurement and analysis. No data collaboration sharing.
- ✓ HDMI output port