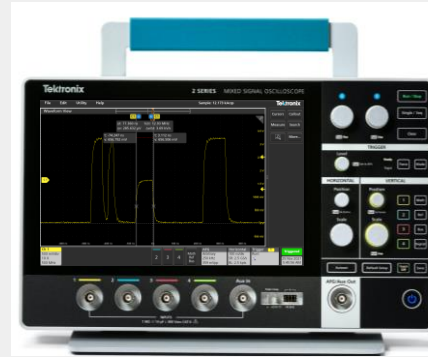# 2 Series MSO vs. Rigol DHO800/900
COMPETITIVE FACT SHEET

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 DHO800/900

- ✗ 7-inch HD 1024 X 600 resolution display with touchscreen
- ✓ Touchscreen capabilities
- ✗ Waveform view is limited to one display window
- ✗ Different user interfaces across different models

USB Type C connection to generic battery bank. Unit shown in the image above is the DHO900. DHO800 is in color white instead.

Portability & Physical Characteristics

Tektronix 2 Series MSO

- ✓ **Battery:** Optional battery pack can power the instrument for up to 8 hours
- ✓ **Weight:** 4lbs standalone and 8lbs 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 DHO800/900

- ✗ **Battery:** USB type C to 3rd party regular USB battery bank
- ✓ **Weight:** 3.9lbs without attached to the battery bank
- ✓ **Footprint:** " 6.4" x 10.4" x 3" (H x W x D) dimensions takes up less space on the lab bench
- ✗ **Flexibility:** No VESA Mount

Key Specifications Comparison

		Tektronix 2 Series MSO		Rigol DHO800/900
Analog Channels	✓	2, 4	✓	2, 4
Digital Channels	✓	16 (with option 2-MSO)	✓	16 (DHO900 only)
Bandwidth	✓	70, 100, 200, 350, 500 MHz	✗	70, 100, 125, 250 MHz
Max. Sample Rate	✓	1.25 GS/s (all channels on) 2.5 GS/s (half channels on)	✗	312.5MS/s (all channels on) 625MS/s (half channels on) 1.25GS/s (single channel on)
Max. Record Length (All channels on)	✗	10 M points	✓	DHO800: 6.25 M points DHO900: 12.5 M points
Maximum Input Voltage	✓	CATII 300Vrms	✗	CATI 300Vrms
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	✗	1-channel, 25 MHz (DHO900 only)
Digital Pattern Generator	✓	4 channels, 4k memory length, up to 25Mbps	✗	No

2 Series MSO vs. Rigol DHO800/900
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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 DHO800/900

✗ 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 DHO800/900

✗ Maximum of 10 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

✓ Bode plot (only with DHO914S/924S)

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 DHO800/900

✗ One 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