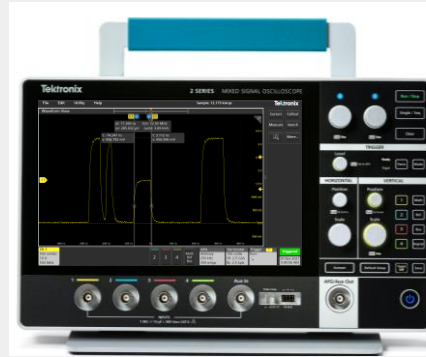# 2 Series MSO vs. Rigol MSO5000
COMPETITIVE FACT SHEET

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 MSO5000

- ✗ 9-inch 1024 x 600 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 MSO5000

- ✗ **Battery:** There is no battery support
- ✗ **Weight:** 7.7 lbs is heavier than the 2 Series MSO without the battery pack
- ✗ **Footprint:** 7.87" x 14.45" x 5.12" (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 MSO5000
Analog Channels	✓	2, 4	✓	2, 4
Digital Channels	✓	16 (with option 2-MSO)	✓	16
Bandwidth	✓	70, 100, 200, 350, 500 MHz	✗	70, 100, 200, 350 MHz
Max. Sample Rate	✗	1.25 GS/s (all channels on) 2.5 GS/s (half channels on)	✓	2 GS/s (all channels on) 4 GS/s (half channels on)
Max. Record Length (All channels on)	✗	10 M points	✓	50 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, Pulse, Slope, Video, Pattern, Duration, Timeout, Runt, Window, Delay, Setup/Hold, and Nth Edge
Arbitrary Function Generator (AFG)	✓	1-channel, 50 MHz	✓	2-channel, 25 MHz
Digital Pattern Generator (DPG)	✓	4 channels, 4k memory length, up to 25Mbps	✗	No

2 Series MSO vs. Rigol MSO5000
COMPETITIVE FACT SHEET

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 MSO5000

✓ Help available on scope

✗ No feature control options available

✗ Complicated front panel with extraneous buttons and no color-coded lights

✗ Only a customizable quick-key button, no other customizable options

✗ Ultra-Scope allows for advanced PC analysis

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 MSO5000

✗ Maximum of 4 active measurements at once

✗ One set of cursors

✗ Serial triggering and decoding available, requires multiple packages to unlock all

✗ Up to 5 math waveforms and up to 4 reference signals

✗ No measurement or FFT gating

✗ 32 automatic measurements

✗ Bode plot requires additional software option

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 MSO5000

✗ One USB 2.0 HOST port

✓ One USB DEVICE port

✓ Ethernet port

✗ Web Control allows for waveform control, measurement, and analysis

✓ HDMI output port