

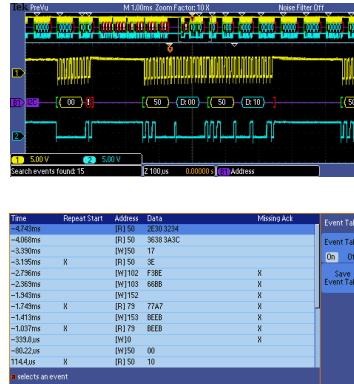
MSO/DPO2000 Series vs. Agilent DSO3000 Series

Competitive Fact Sheet

Serial Triggering and Decode

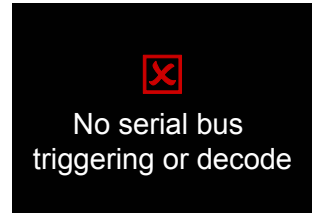
Tektronix MSO/DPO2000 Series

- ✓ **Bus Display** – Provides a higher level, combined view of individual signals that make up your bus.
- ✓ **Bus Decoding** – Decodes each packet on the bus and displays the value in hex, binary, decimal, or ASCII.
- ✓ **Serial Triggering** – Trigger on packet content.
- ✓ **Event Table** – View captured packets in a tabular view.
- ✓ **Search** – Wave Inspector® navigation automatically searches for and marks user-defined events on packet content.



Agilent DSO3000 Series

- ✗ No serial bus triggering or decode offered.
- ✗ No serial search offered.
- ✗ No Event Table offered.



Long Record Length Navigation and Search

Tektronix MSO/DPO2000 Series

- ✓ 1 M point record
- ✓ Wave Inspector® controls.
- ✓ Pan/Zoom controls make easy work of scrolling through long records.
- ✓ Play/Pause button scrolls the waveform across the screen automatically.
- ✓ Search/Mark controls enable you to search for events of interest, mark them, then navigate through the record mark-by-mark.



Agilent DSO3000 Series

- ✗ Only 4,000 point record.
- ✗ Only uses horizontal scale knob to zoom.
- ✗ Manual scrolling of horizontal position to scroll through data.
- ✗ No search capability.

Key Specifications Comparison

	Tektronix MSO/DPO2000 Series	Agilent DSO3000 Series
Channels Analog	✓ 2, 4	✗ 2
Channels Digital	✓ 16 (MSO only)	✗ No equivalent feature
Bandwidth	✓ 100, 200 MHz	✓ 60, 100, 150, 200 MHz
Max. Sample Rate (All channels on)	✓ 1 GS/s	✗ 500 MS/s
Max. Record Length (All analog channels on)	✓ 1 M points	✗ 4 k points
Serial Triggering and Decode (Optional)	✓ I ² C, SPI, CAN, LIN, RS-232/422/485/UART	✗ No serial triggering or decode
Navigation and Search	✓ Wave Inspector controls	✗ Multiplexed zoom controls, no search
Display Size (resolution)	✓ 7.0-inch wide format (480 x 234)	✗ 5.7-inch standard format (320 x 240)

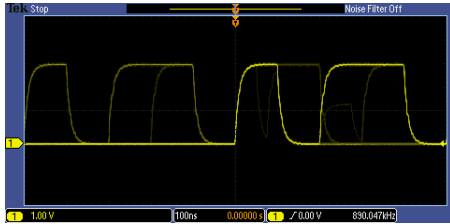
MSO/DPO2000 Series vs. Agilent DSO3000 Series

Competitive Fact Sheet

DPO Acquisition and Variable Persistence with Intensity Grading

Tektronix MSO/DPO2000 Series

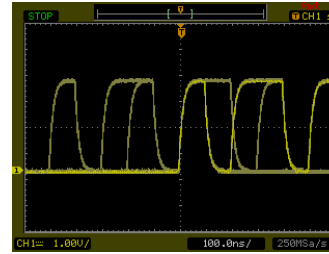
Infinite persistence stopped after 15 seconds capture



- ✓ 5,000 wfms/s capture rate.
- ✓ As shown, glitches and intermittent pulses are captured in 15 seconds.
- ✓ Persistence available in any capture mode.

Agilent DSO3000 Series

Infinite persistence stopped after 10 minutes capture

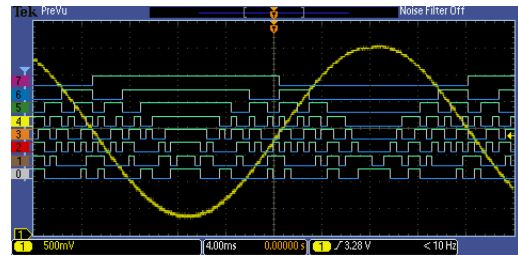


- ✗ No published waveform capture rate.
- ✗ As shown, no glitches or intermittent pulses are captured in 10 minutes.
- ✗ Runt Trigger is not offered.

MSO Series Mixed Signal Debug

Tektronix MSO2000 Series

- ✓ View up to 4 analog, 16 digital, and 2 bus Time Correlated waveforms
- ✓ Create a parallel bus and trigger on specific data values
- ✓ Logical highs are identified in **Green** and lows in **Blue**
- ✓ Group Waveforms and Threshold Settings



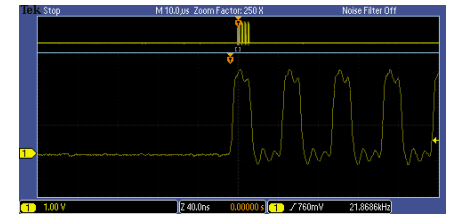
Agilent DSO3000 Series

- ✗ No equivalent feature

Horizontal Zoom

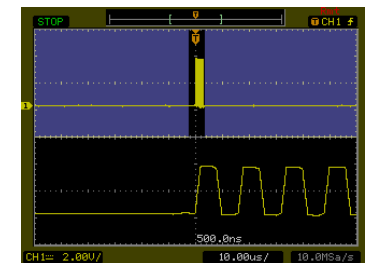
Tektronix MSO/DPO2000 Series

- ✓ Dedicated front panel buttons and knobs for quick access and control of zoom
- ✓ High sample rate and sin(x)/x interpolation in zoom mode assures accurate waveform display



Agilent DSO3000 Series

- ✗ Delayed zoom mode buried in menu and controls multiplexed with horizontal scale and position knobs
- ✗ Linear interpolation in delayed zoom mode may distort displayed waveform



www.tektronix.com/mso2000
www.tektronix.com/dpo2000