

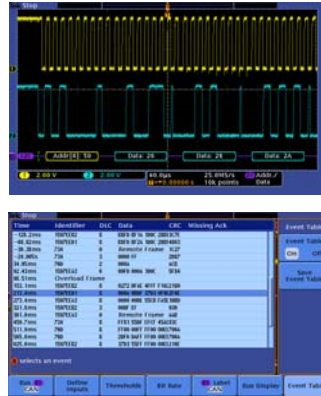
MSO/DPO3000 Series vs. Agilent DSO5000A Series

Competitive Fact Sheet

Serial Triggering and Decode

Tektronix MSO/DPO3000 Series

- ✓ **Serial Bus Support** – I²C, SPI, CAN, LIN, RS-232/422/485/UART, and I²S/LJ/RJ/TDM available for all models.
- ✓ **Bus Display** – View up to 2 serial buses simultaneously.
- ✓ **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 listing view.
- ✓ **Search** – Wave Inspector® navigation automatically searches for and marks user-defined events on packet content.



Agilent DSO5000A Series

- ✗ **Serial Bus Support** – I²C, SPI, CAN, LIN, RS-232/UART, and I²S (4-channel products only).
- ✗ **Bus Display** – Single serial bus display, anchored at the bottom of the screen.
- ✗ **Bus Decoding** – Hardware decode of each packet on the bus in hex, but not always time-aligned.
- ✓ **Serial Triggering** – Trigger on packet content. Limited serial triggering standard.
- ✓ **Event Table** – View captured packets in a tabular listing view.
- ✗ **No Automated Search**



Navigation and Search

Tektronix MSO/DPO3000 vs. Agilent DSO5000A Series



- | | |
|---|---|
| <ul style="list-style-type: none"> ✓ Wave Inspector® controls. ✓ Pan/Zoom controls for easy 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. | <ul style="list-style-type: none"> ✗ Only uses horizontal scale control to zoom. ✗ Manual scrolling of horizontal position to scroll through data. ✗ No automated search capability. |
|---|---|
- ✗ Navigation by horizontal position
 - ✗ No Automated Search

Key Specifications Comparison

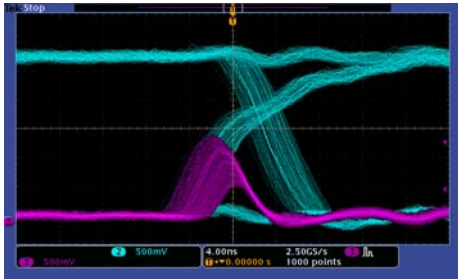
	Tektronix MSO/DPO3000 Series	Agilent DSO5000A Series
Channels	✓ 2, 4 (+16 digital MSO)	✗ 2, 4
Bandwidth	✓ 100, 300, 500 MHz	✓ 100, 300, 500 MHz
Max. Sample Rate (All channels on)	✓ 2.5 GS/s	✗ 2 GS/s
Max. Record Length (All channels on)	✓ 5 M points	✗ 4 M points – requires option
Input Impedance	✓ 1MΩ, 75Ω, 50Ω	✗ 1MΩ, 50Ω
Navigation and Search	✓ Wave Inspector® controls	✗ Horizontal position, zoom
Power Measurements (Optional)	✓ Built-in	✗ PC-Based

MSO/DPO3000 Series vs. Agilent DSO5000A Series

Competitive Fact Sheet

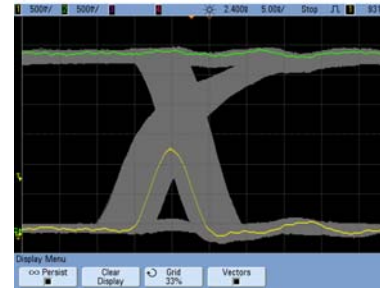
Discovering an Intermittent Pulse

Tektronix MSO/DPO3000 Series



- ✓ >50,000 wfms/s maximum waveform capture rate
- ✓ Channels represented with different colors.
- ✓ Intensity grading shows frequency of occurrence.
- ✓ Intensity grading is preserved when stopped.
- ✓ Variable persistence also available.

Agilent DSO5000A Series

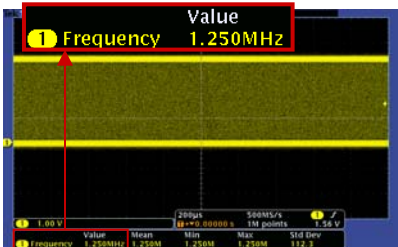


- ✓ 100,000 wfms/s maximum waveform capture rate
- ✗ No intensity grading in persistence mode – whether running or stopped.
- ✗ Cannot distinguish channel history when stopped – only last acquisition.
- ✗ No variable persistence.

Measurement and Channel Math

Tektronix MSO/DPO3000

- ✓ Can use all the record length – up to 5 M points for measurements, averaging, and math, and up to 1M for FFT.
- ✓ Advanced math with arbitrary expression.
- ✓ Gate measurements by screen or cursors.



Agilent DSO5000A

- ✗ Uses only the 1000 displayed points for measurements, averaging, FFT and math.
- ✗ Limited math choices.
- ✗ No gating control, other than zoom.



Long Record Length

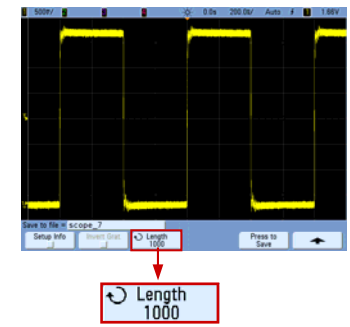
Tektronix MSO/DPO3000

- ✓ User-selectable record length – up to 5 M points on all channels, including digital channels on MSO models.

Agilent DSO5000A

- ✗ No direct control over record length.
- ✗ Record length compromised as channels are turned on.
- ✗ Maximum 8 M record length* never available while in Run mode.

* 8 M maximum record length requires option (2 M standard)



Agilent DSO5054A screen shot