

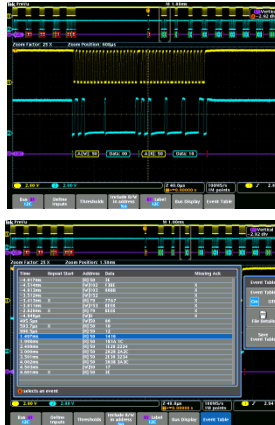
MDO/MSO/DPO4000B Series vs. LeCroy WaveSurfer MXs-B Series

Competitive Fact Sheet

Serial Triggering and Decode

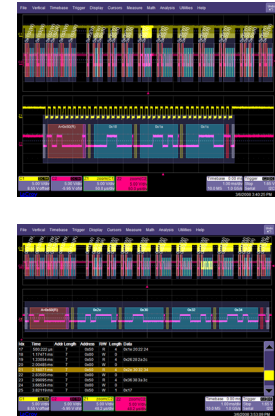
Tektronix MDO/MSO/DPO4000B Series

- ✓ Simple time-correlated and labeled bus form display with color coded decode
- ✓ Large easy to read tabular view with timestamp
- ✓ View all packets in memory whether on screen or not
- ✓ Wave Inspector® controls seamlessly integrate serial into automated search
- ✓ Search the entire record whether on screen or not



LeCroy WaveSurfer MXs-B Series

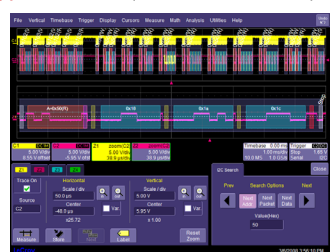
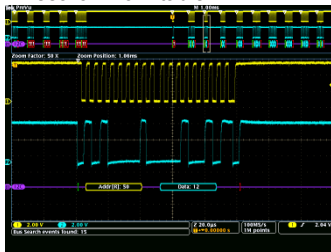
- ✗ Overlaid color coding obscures waveforms, is difficult to read, and waveforms are not labeled
- ✗ Table of packets in lower half of display only
- ✗ Only displays packets that are visible on screen
- ✗ Serial decode search is completely separate from WaveScan™
- ✗ Searches only serial decode information on screen and does not place marks



Navigation and Search

Tektronix MDO/MSO/DPO4000B LeCroy WaveSurfer MXs-B

- ✓ Dedicated Wave Inspector® front panel controls to quickly navigate and search through long records
- ✓ Same controls for analog, digital, and serial and parallel bus waveforms
- ✓ Search events found counter
- ✓ Automated search marks and search mark table
- ✗ Horizontal position used to scroll through data. Zoom uses multiple windows with multiplexed knobs.
- ✗ Serial decode search completely separate from WaveScan™.
- ✗ No search events found counter.
- ✗ No marks (user or automated).



Key Specifications Comparison

	Tektronix MDO/MSO/DPO4000B Series	LeCroy WaveSurfer MXs-B Series
Channels	✓ 2, 4 (+16 digital on MDO/MSO models)	✓ 2, 4 (+18 digital on MSO models)
Bandwidth	✓ 100 MHz, 350 MHz, 500 MHz, 1 GHz	✓ 200, 400, 600 MHz, 1 GHz
Max. Sample Rate (All channels on)	✓ 5 GS/s (1 GHz, non-L models) 2.5 GS/s (other models)	✓ 2.5 GS/s (200 MHz model), 5 GS/s (others)
Max. Record Length (All channels on)	✓ 20 M (non-L models) 5 M	✓ 16 M
Serial Triggering and Decode	✓ I ² C, SPI, USB, Ethernet, CAN, LIN, RS-232/422/485/UART, FlexRay, I ² S/LJ/RJ/TDM, MIL-STD-1553	✓ I ² C, SPI, CAN, LIN, FlexRay, D-PHY, DigRF, RS-232/UART, USB2, Ethernet, I ² S/LJ/RJ/TDM, MIL-STD-1553, SENT
Standard Passive Probe	✓ 1 GHz, 3.9 pF, 10 MΩ (1 GHz models) 500 MHz, 3.9 pF, 10 MΩ	✗ 500 MHz, 9.5 pF, 10 MΩ

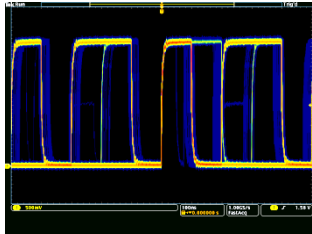
MSO/DPO4000B Series vs. LeCroy WaveSurfer MXs-B Series

Competitive Fact Sheet

Discovering an Intermittent Pulse / Standard Passive Probe Performance

Tektronix MDO/MSO/DPO4000B Series

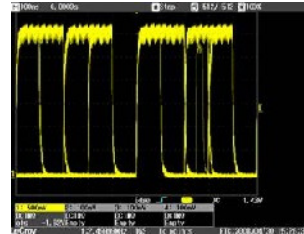
Infinite persistence stopped after 10 second capture



- ✓ >340,000 wfms capture rate, with color- and intensity-graded displays
- ✓ As shown, many glitches and intermittent pulses are captured in 10 seconds
- ✓ Persistence available in any capture mode
- ✓ 1 GHz probe (1 GHz models)
500 MHz probe (100-500 MHz models)
- ✓ Probe Loading Input Capacitance 3.9 pF

LeCroy WaveSurfer MXs-B Series

Infinite persistence stopped after 1 minute capture

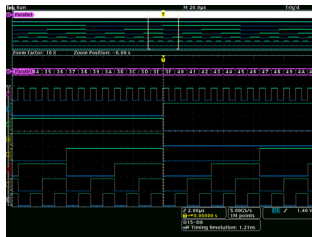


- ✗ Waveform capture rate not specified for normal acquisition.
- ✗ As shown, few glitches or intermittent pulses are captured in 1 minute.
- ✗ Persistence not available in WaveStream™ high speed capture mode.
- ✗ 500 MHz probe
- ✗ Probe Loading Input Capacitance ~9.5 pF

Digital Debug with MDO/MSO

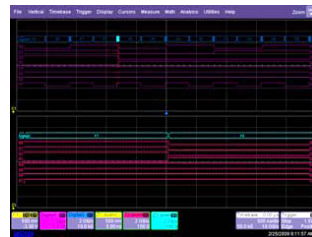
Tektronix MDO/MSO4000B

- ✓ Per channel digital thresholds enable analysis of multiple logic families.
- ✓ Clocked or unclocked parallel bus decode.
- ✓ Event table for parallel bus decode.
- ✓ Green trace for logic highs (1), blue trace for logic lows (0).
- ✓ Channels can be displayed as a bus and/or individual signals.
- ✓ Digital channels can be grouped and/or independently moved in the display.



LeCroy WaveSurfer MXs-B MSO

- ✗ Digital thresholds limited to one per 9-channel digital probe pod. Limited ability to analyze multiple logic families.
- ✗ No clocked parallel bus decode.
- ✗ No event table for parallel bus decode.
- ✗ No color difference between a logical low and high value.
- ✗ Channels displayed as a bus waveform or as individual signals, but not both at the same time.
- ✗ Digital channels must be displayed in hardware order.



Dedicated Front Panel Controls

Tektronix MDO/MSO/DPO4000B

- ✓ Per-channel vertical controls.
- ✓ Wave Inspector® controls make navigation and search easy.
- ✓ Quick front panel access to Math, Reference, Bus Setup, and Measurements.



LeCroy WaveSurfer MXs-B

- ✗ Multiplexed vertical controls.
- ✗ Multiplexed zoom controls.
- ✗ Windows UI requires using a touch screen and/or a mouse.

