

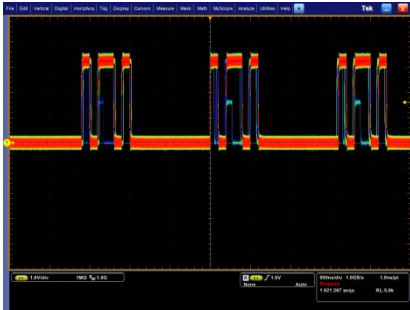
MSO/DPO5000B Series vs. LeCroy WavePro 7Zi Series

Competitive Fact Sheet

Discovering an Intermittent Pulse

Tektronix MSO/DPO5000B Series

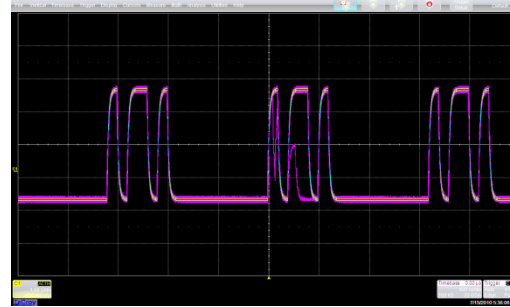
Infinite persistence, stopped after 10 seconds



- ✓ >250,000 wfms/s maximum waveform capture rate.
- ✓ Channels represented with different colors or color intensity grading.
- ✓ Color or grey-scale intensity grading shows frequency of occurrence.

LeCroy WavePro 7Zi Series

Infinite persistence, stopped after over an hour



- ✗ Waveform capture rate not specified for normal operation.
- ✗ 2,500 wfms/s maximum waveform capture rate in WaveStream™ Fast Viewing mode.
- ✗ As shown, few glitches or intermittent pulses are captured, even after over an hour.

Dedicated Front Panel Controls

Tektronix MSO/DPO5000B LeCroy WavePro 7Zi

- | | |
|--|---|
| <ul style="list-style-type: none"> ✓ Per-channel vertical controls. ✓ Wave Inspector® controls make navigation and search easy. ✓ Quick front panel access to Math, Reference, Bus Setup, and Measurements. | <ul style="list-style-type: none"> ✗ Multiplexed vertical controls. ✓ Front-panel WaveScan and Zoom/Math position and zoom controls ✗ Math, Reference, Bus Setup and Measurements are all accessed through Windows UI with touchscreen and/or mouse. |
|--|---|



Key Specifications Comparison

| | Tektronix MSO/DPO5000B Series | | LeCroy WavePro 7Zi Series | |
|--|-------------------------------|---|---------------------------|--|
| Channels | ✓ | 4 (+16 digital MSO) | ✓ | 4 (+18 to 36 with optional MSO) |
| Analog Bandwidth | ✓ | 350 MHz, 500 MHz, 1 GHz, 2 GHz | ✓ | 1.5 GHz, 2.5 GHz, 3.5 GHz, 4 GHz, 6 GHz |
| Max. Sample Rate (All channels on) | ✗ | 5 GS/s | ✓ | 10 - 20 GS/s |
| Max. Standard Record Length (All channels on) | ✓ | 25 M points | ✗ | 10 M points |
| Max. Record Length (All channels on) | ✓ | 125 Mpts. (analog channels) 40 Mpts. (digital channels) | ✓ | 128 M points (analog) 25M - 50 M (digital) |
| Standard Passive Probes | ✓ | 1 GHz, 3.9 pF, 10 MΩ (1-2 GHz oscilloscopes); 500 MHz, 3.9 pF, 10 MΩ | ✗ | 500 MHz, 11 pF, 10 MΩ |
| Display | ✗ | 10.4 in XGA (1024 X 768) | ✓ | 15.3 in WXGA (1280 X 768) |

MSO/DPO5000B Series vs. LeCroy WavePro 7Zi Series

Competitive Fact Sheet

Navigation and Search

Tektronix MSO/DPO5000B Series

- ✓ Wave Inspector® pan/zoom controls for easy navigation through long records.
- ✓ Search/Mark controls enable you to search for events of interest, mark them, then navigate through the record mark by mark.
- ✓ Easily copy setups between trigger and search.
- ✓ Simultaneously search up to 8 types of events.
- ✓ View captured serial packets in time-stamped protocol event table format.



LeCroy WavePro 7Zi Series

- ✓ Front panel zoom controls.
- ✗ Search limited to a single event.
- ✗ No search events found counter.
- ✗ No marks (user or automated).
- ✗ No copying setups between trigger and search.
- ✓ Serial decode search available, but completely separate from WaveScan™.



Digital Debug with MSO

Tektronix MSO5000B

- ✓ Integrated design, with small probe pods.
- ✓ Main digital sample rate of 500 MS/s, with MagniVu sample rate of 16.5 GS/s.
- ✓ Per-channel digital thresholds enable analysis of multiple logic families.
- ✓ Typical channel-to-channel skews <200 ps, and analog-to-digital deskew capability provided
- ✓ Clocked (state) and unclocked (pattern) logic triggering.
- ✓ Clocked or unclocked 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.
- ✓ Up to 16 buses available.
- ✓ Digital channels can be grouped and/or independently moved on the display.



LeCroy WavePro 7Zi + MSO adapter

- ✗ Large external brick form factor, with a bundle of relatively short probe leads.
- ✗ Digital sample rate varies between models from 1 – 2 GS/s maximum.
- ✗ Digital thresholds limited to one per 9-channel digital probe pod. Limited ability to analyze multiple logic families.
- ✗ >1 ns analog-to-digital channel timing skews with no deskew capability affects time-correlation on the display.
- ✗ No clocked logic trigger.
- ✗ No clocked parallel bus decode.
- ✗ No color difference between a logical low and high value.
- ✗ Channels displayed as a bus waveform or as individual signals, but displaying both consumes 2 of the 4 digital traces.
- ✗ Maximum of 4 digital traces, including displayed signals.
- ✗ Digital channels must be displayed in hardware order.