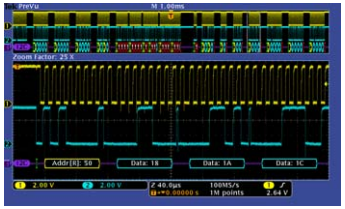
MSO/DPO3000 Series vs. Yokogawa DLM2000 Series

Competitive Fact Sheet

Serial Triggering and Decode

Tektronix MSO/DPO3000 Series

- ✓ Simple time-correlated and labeled bus form display with color coded decode.
- ✓ Wave Inspector® controls quickly navigate through long records to find events of interest.
- ✓ Large easy to read tabular listing view with timestamp.
- ✓ Highlighting a packet centers the YT display on that packet.
- ✓ Serial search completely integrated into Wave Inspector search.



Yokogawa DLM2000 Series

- ✗ Time-correlated and color coded decode bus is not labeled and cannot be moved within the display.
- ✗ Serial bus options are factory configured only.
- ✗ Serial search appears to be a separate function and does not mark found events.

Navigation and Search

Tektronix MSO/DPO3000

- ✓ Dedicated pan/zoom Wave Inspector front panel controls quickly navigate through long records.
- ✓ Search automatically runs when a new acquisition is taken.
- ✓ Search events found counter.
- ✓ Automated search marks on any search.

Yokogawa DLM2000

- ✗ Multiplexed controls to pan and zoom.
- ✗ You must manually initiate a new search following a new acquisition.
- ✗ Serial search appears to be a separate function and does not mark found events.
- ✗ No search events found counter.

Key Specifications Comparison

	Tektronix MSO/DPO3000 Series		**Yokogawa** DLM2000 Series	
Channels	✓	2, 4 (+16 digital MSO)	✓	2, 4 or 3 + 8 digital
Bandwidth	✓	100, 300, 500 MHz	✓	200, 350, 500 MHz
Max. Sample Rate (All channels on)	✓	2.5 GS/s	✗	1.25 GS/s
Std. Record Length (All channels on)	✓	5 M points All Acquisition Modes	✗	1.25 M points Repetitive Acquisition Only
Max. Record Length	✗	5 M points All Acquisition Modes, all ch	✓	125 M points (optional) Single shot, ½ ch Acquisition
Input Impedance	✓	1MΩ, 75Ω, 50Ω	✗	1MΩ, 50Ω
Serial Triggering and Decode	✓	I^2C, SPI, CAN, LIN, RS-232/422 /485/UART, I^2S/LJ/RJ/TDM	✓	I^2C, SPI, CAN, LIN, RS-232/UART, FlexRay
Navigation and Search	✓	Wave Inspector® controls	✗	Horizontal position, zoom search

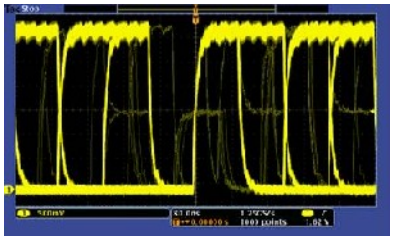
Tektronix

MSO/DPO3000 Series vs. Yokogawa DLM2000 Series

Competitive Fact Sheet

Discovering an Intermittent Pulse

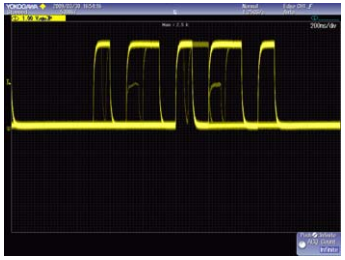
Tektronix MSO/DPO3000 Series



Many glitches and intermittent pulses are captured in 10 seconds.

- ✓ >50,000 wfms/s maximum waveform capture rate.
- ✓ User selectable record length across all channels in all acquisition modes.

Yokogawa DLM2000



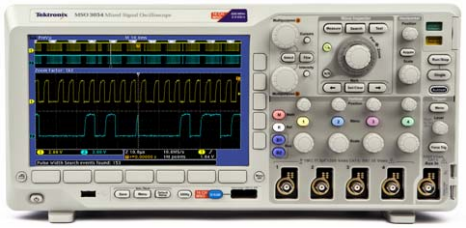
Few glitches or intermittent pulses are captured in 30 seconds.

- ✓ History mode stores up to 20,000 waveforms and can replay each waveform.
- ✗ 20,000 wfms/s maximum waveform capture rate.
- ✗ Record length determined by the acquisition mode (repetitive, single shot) and number of channels on. Maximum record length only available in half channels and in single shot.

User Experience

Tektronix MSO/DPO3000 Series

- ✓ Text is clear and readable, with common readouts in the display at all times.
- ✓ User interface uses Tektronix' consistent, time tested menu system with no stacked menus.
- ✓ Per channel vertical controls.
- ✓ Wave Inspector dedicated front panel control used for search and navigation through deep records.



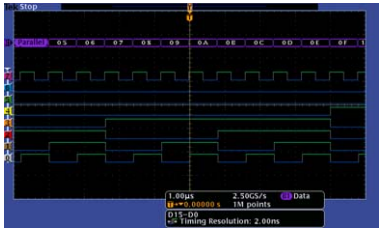
Yokogawa DLM2000

- ✗ Text in the display is very small and is difficult to read.
- ✗ Setup is made difficult by the stacked menu system.
- ✗ Multiplexed vertical channel controls.
- ✗ Trigger level readout only visible if the trigger menu is selected.
- ✗ Multifunction jog shuttle control used for most settings changes.

Digital Debug with MSO

Tektronix MSO3000 Series

- ✓ Fully integrated digital channels with single probe connection on front.
- ✓ Digital channels can be grouped and independently moved in the display.
- ✓ Green trace for highs (1), blue trace for lows (0).
- ✓ Clocked or unclocked parallel bus decode.
- ✓ Digital signals fully integrated into Wave Inspector search and navigation.



Yokogawa DLM2000*

- ✓ Per channel threshold setting.
- ✗ There is no visible difference between a low and a high.
- ✗ No clocked parallel bus decode.
- ✗ Cannot arrange ordering of bits in display. Hardware order only.
- ✗ Bus waveform shows transitions that aren't in the individual channels.

** Digital probe must be ordered separately.*

www.tektronix.com/mso3000

Tektronix