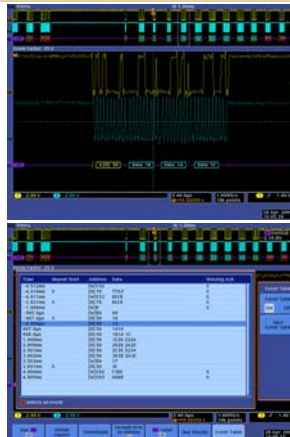# MSO/DPO4000 Series vs. Yokogawa DLM2000 Series
Competitive Fact Sheet

Serial Triggering and Decode

Tektronix MSO/DPO4000 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.
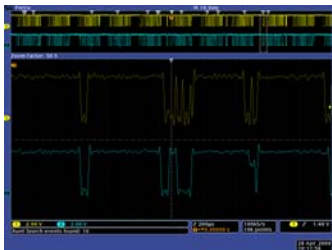

Yokogawa DLM2000 Series

✗ 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/DPO4000

✓ 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.

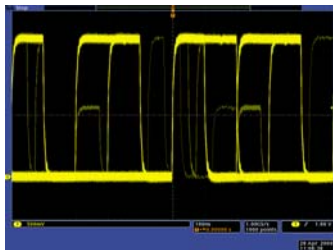✗ No search events found counter.

Key Specifications Comparison

		Tektronix MSO/DPO4000 Series		Yokogawa DLM2000 Series
Channels	✓	2, 4 (+16 digital MSO)	✓	2, 4 or 3 + 8 digital
Bandwidth	✓	350, 500 MHz, 1 GHz	✓	200, 350, 500 MHz
Max. Sample Rate (All channels on)	✓	350 MHz - 2.5 GS/s 1 GHz - 5 GS/s	✗	1.25 GS/s
Std. Record Length (All channels on)	✓	10 M points All Acquisition Modes	✗	1.25 M points Repetitive Acquisition Only
Max. Record Length	✗	10 M points All Acquisition Modes, all ch	✓	125 M points (optional) Single shot, ½ ch Acquisition
Input Impedance	✓	1MΩ, 50Ω	✓	1MΩ, 50Ω
Serial Triggering and Decode	✓	I²C, SPI, CAN, LIN, RS-232/422 /485/UART, I²S/LJ/RJ/TDM, FlexRay	✓	I²C, SPI, CAN, LIN, RS-232/UART, FlexRay
Navigation and Search	✓	Wave Inspector® controls	✗	Horizontal position, zoom search

www.tektronix.com/mso4000

Tektronix

MSO/DPO4000 Series vs. Yokogawa DLM2000 Series
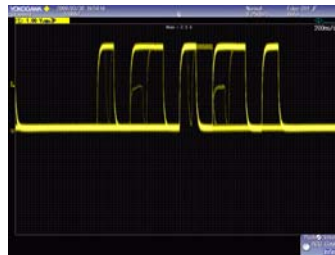## Competitive Fact Sheet

Capturing an Intermittent Pulse

Tektronix MSO/DPO4000 Series

✓ >50,000 wfms/s maximum waveform capture rate to quickly see intermittent glitches.

✓ Consistent, user selectable record length across all channels in all acquisition modes.

Many glitches and intermittent pulses are captured in 30 seconds.

Yokogawa DLM2000

✓ 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), number of channels on, and time-base setting. Maximum record length only available in half channels and in single shot.

Few glitches or intermittent pulses are captured in 30 seconds.

User Experience

Tektronix MSO/DPO4000 Series

✓ 10.4" XGA display. Text is clear and readable.

✓ Easy-to-use, tested menu system without stacked menus.

✓ Per channel vertical controls.

✓ Wave Inspector® dedicated front panel control for search and intuitive navigation through deep records.

Yokogawa DLM2000
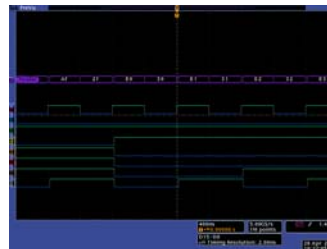
✗ Display text is small and difficult to read.

✗ 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 MSO4000 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 integrated into Wave Inspector search and navigation.

Yokogawa DLM2000*

✗ 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.

Mystery transitions

www.tektronix.com/mso4000

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