

Tektronix 5 Series vs. Yokogawa DLM4000

COMPETITIVE FACT SHEET

Oscilloscope Design

Tektronix 5 Series MSO

- ✓ **New** Tektronix FlexChannels (up to 8) (each input is 1 analog or 8 digital)
- ✓ **New** Available in 4, 6, and 8-channel models
- ✓ **New** Available in 350MHz, 500MHz, 1GHz and 2GHz models
- ✓ **New** Field-upgradeable to 500MHz and 1GHz
- ✓ **New** Service Depot-upgradeable to 2GHz
- ✓ **New** HD 1080p 15.6" display
- ✓ **New** Capacitive multi-touch screen
- ✓ **New** 12 bit Analog to Digital Converter
- ✓ **New** >500,000 wfm/s update rate
- ✓ **New** Configure as Windows 10 or Embedded OS
- ✓ **New** Spring loaded Non-collapsing feet!

Yokogawa DLM4000

- ✗ 8 Analog, but only 24 digital
- ✗ Only available in 8-channel model
- ✗ Only available in 350MHz and 500MHz models
- ✗ No field upgrades available
- ✗ No service depot upgrades available
- ✗ 12.1" XGA 1024x768 display
- ✗ Non-touch display
- ✗ 8 bit Analog to Digital Converter
- ? Not Specified
- ✗ Only Embedded
- ✗ Collapsible feet – Ouch!



YOKOGAWA 

Analog to Digital Converter (ADC)

Tektronix 5 Series MSO

- ✓ 12 bit ADC
- ✓ Up to 16 bits in High Res mode
- ✓ 7.6 bits ENOB @ 1GHz 500mV Full Scale

Yokogawa DLM4000

- ✗ 8 bit ADC
- ✗ Up to 12 bits in High Res mode
- ? Not Specified

Included Probing Solution

Tektronix 5 Series MSO

- ✓ Up to 8 passive probes included (on MSO58)
- ✓ Up to 1 GHz passive probes included
- ✓ 3.9 pF Capacitive loading
- ✓ Automated compensation
- ✓ Stores compensation data per channel
- ✓ HW Dynamic Range 500uV/div to 100V/div

Yokogawa DLM4000

- ✗ Only 4 probes included
- ✓ Up to 500 MHz passive probes included
- ✗ 10.5 pF Capacitive loading
- ✗ Manual compensation
- ✗ Can't store compensation data
- ? Not Specified

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Key Specifications Comparison

	Tektronix 5 Series		Yokogawa DLM4000	
Max Bandwidth (all channels)	✓	Up to 2.0 GHz	✗	Up to 500 MHz
Upgradable Bandwidth	✓	Yes	✗	No
Number of Analog Channels	✓	4, 6, or 8	✗	Fixed at only 8
Number of Digital Channels	✓	32, 48, or 64 (FlexChannels handle 8 digital channels)	✗	24
Number of Math / Bus channels	✓	As many as you want!	✗	4 math / 4 buses
Max Analog Sample Rate (all channels)	✓	6.25 GS/s	✗	1.25 GS/s interleave off, 2.5 GS/S interleave on
Max Digital Channel Sample Rate	✓	6.25 GS/s	✗	1.25 GS/s
Optional Arbitrary Function Generator (AFG)	✓	Yes – 50 MHz	✗	Not Available
Optional DVM/ Trigger Freq. Counter	✓	Yes – Free with Registration	✗	Not Available
Standard Analog Probes	✓	Up to 1 GHz at 3.9pF	✗	500 MHz at 10.5pF
Standard Record Length (all channels)	✓	62.5 Mpts	✗	1.25 Mpts, optional up to 25 Mpts
Max Waveform Capture Rate	✓	>500,000 wfms/s	✗	Not Specified
Max ADC Resolution	✓	12 bits	✗	8 bits
Max Vertical Resolution (with filtering)	✓	Up to 16 bits with New High Res	✗	Up to 12 bits with High Res
ENOB** (at 1 GHz)	✓	~7.6 bits	✗	Not Specified
DC Gain Accuracy	✓	1.0 %	✗	1.5 %
Screen Size & Resolution	✓	15.6" High Definition 1920x1080	✗	12.1" XGA 1024x768
Automated Search and Mark	✓	Search and Mark on Standard Triggers and Decoded Bus Events	✓	Search and Mark on Standard Triggers and Decoded Bus Events
Embedded OS or Windows	✓	Both (optional SSD with Windows 10)	✗	Embedded only