

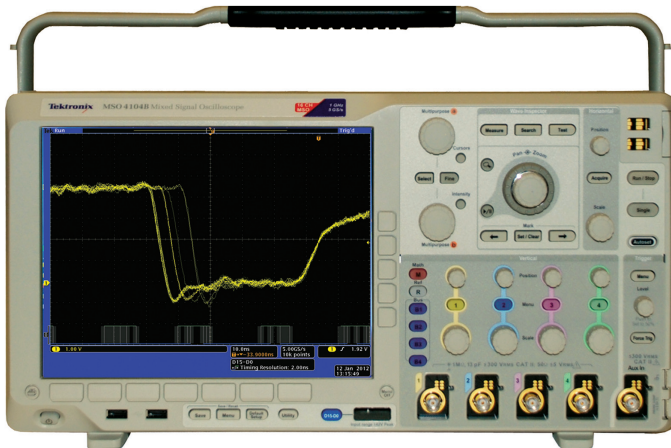
Keysight Competitive Comparison

Keysight 6000 X-Series versus Danaher-Tektronix DPO/MSO/MDO4000B

Keysight 6000 X-Series

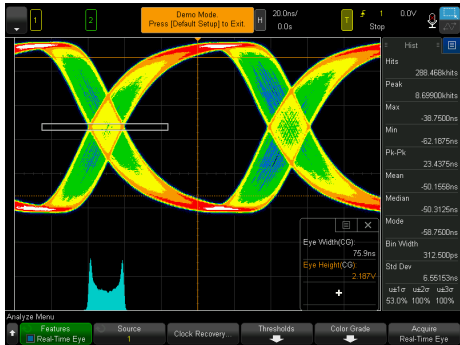


Danaher-Tektronix DPO/MSO/MDO4000B Series

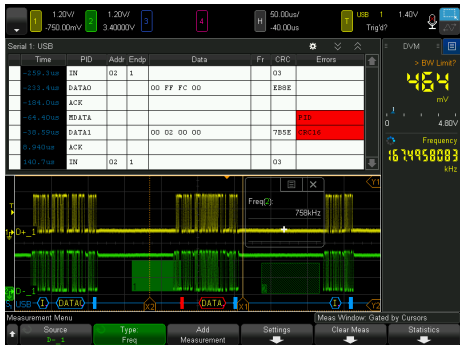


The Keysight Technologies, Inc. 6000 X-Series oscilloscopes offer bandwidths up to 6 GHz with the key benefits of our InfiniiVision line: affordability, excellent visualization, 6-in-1 integration and investment protection. Speed your debugging with its uncompromised fast update rate, combined with the industry's only hardware zone trigger. Operation is simplified with a localized GUI that is designed for touch and the industry's first 12.1" multi-touch capacitive display. Voice control makes doing oscilloscope inputs easy while your hands are holding probes.

	Tektronix DPO/MSO/ MDO4000		Keysight 6000 X-Series	
Bandwidth	Up to 1 GHz	X	Up to 6 GHz	✓
Upgradable bandwidth	No	X	Yes – license key	✓
Max sample rate	5 GSa/s	X	20 GSa/s	✓
Standard memory depth	Up to 20 M	✓	Up to 4 M	X
Segmented smart memory	Not available	X	Standard	✓
Noise at 5 mV/div 1 GHz to 50 Ohms	375 uV RMS	X	183 uV RMS	✓
Max waveform update rate	Up to 340,000 wfms/s	X	Up to 450,000 wfms/s	✓
Max update rate with digital channels on	~100 wfms/s	X	Up to 450,000 wfms/s	✓
Zone trigger	Not available	X	Yes – hardware-based > 100 K triggers/s	✓
Display	10.4" no touch	X	12.1" capacitive multi-touch	✓
Mouse/keyboard	Keyboard only	X	Mouse/keyboard	✓
Upgradable MSO	No	X	Yes	✓
Other integration	Spectrum analyzer (MDO only)	✓	2 channel FG, 10-digit counter/totalizer	✓
Advanced analysis	Not available	X	Jitter, RTE, color grading	✓
Standard passive probe	500 MHz or 1 GHz	✓	700 MHz	X
Measurements	29, 8 simultaneously, cursor gating	X	56, 10 simultaneously, cursor gating	✓
Math functions	Displays one math function	X	Displays four math functions	✓
Hardware-based serial decode and mask testing	No, software post processing	X	Yes	✓
Standard calibration interval	1 year	X	2 years	✓
Voice control	Not available	X	Yes – localized	✓



Jitter/RTE



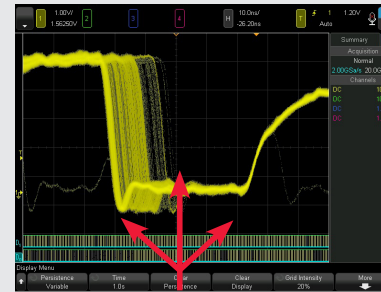
Protocol



FFT



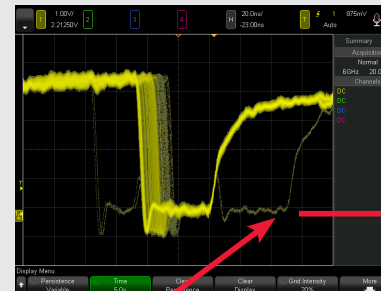
Built-in AWG



Infrequent glitches and signal jitter captured after one second on 6000 X-Series with standard update rate.



DPO7000 after 60 seconds. It never sees the glitches and shows limited signal jitter due to its slow update rate.



A fast update rate allows you to see an infrequent glitch, but then you want to isolate it. With the 6000 X-Series' hardware zone trigger, you can draw a box to isolate the signal of interest. If you can see it, you can trigger on it.