

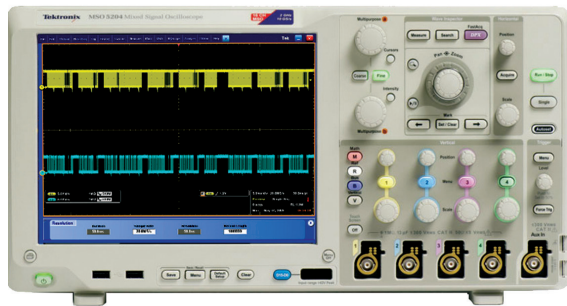
Keysight Competitive Comparison

Keysight 6000 X-Series versus Danaher-Tektronix DPO5000B

Keysight 6000 X-Series

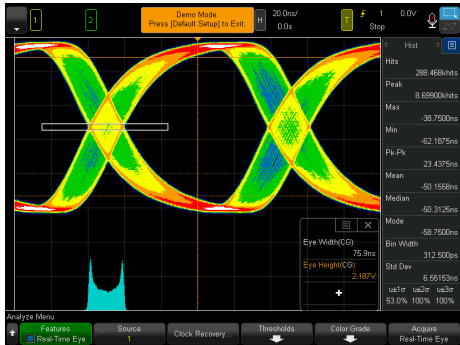


Danaher-Tektronix DPO5000B Series

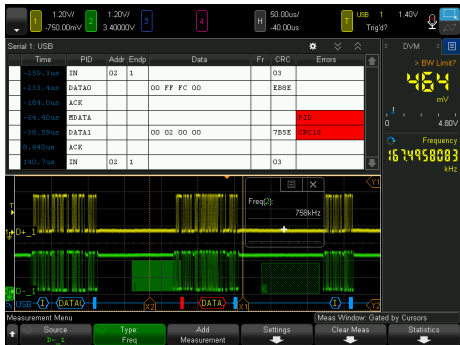


The Keysight Technologies, Inc. 6000 X-Series oscilloscopes offer bandwidths up to 6 GHz with the key benefits of the InfiniiVision line: affordability, excellent visualization, 6-in-1 integration and investment protection. Speed your debugging with its uncompromised fast update rate, combined with the 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.

	Danaher-Tektronix DPO5000		Keysight 6000 X-Series	
Bandwidth	Up to 2 GHz	X	Up to 6 GHz	✓
Upgradable bandwidth	No	X	Yes – license key	✓
Max sampling rate	10 GSa/s on 1, 2 GHz	X	20 GSa/s on all models	✓
	5 GSa/s on 350/500 MHz	X		
Max memory depth	Up to 50 M	✓	Up to 4 M	X
Noise at 10 mV/div 2 GHz to 50 Ω	750 uV RMS calculated	X	369 uV RMS with 2.5 GHz	✓
Waveform update rate (normal mode)	Up to 40 wfms/s	X	Up to 140,000 wfms/s	✓
Waveform update rate (special mode)	Up to 250,000 wfms/s	X	Up to 450,000 wfms/s	✓
Zone trigger	Yes – software based 40 triggers/s	X	Yes – hardware based > 100 K triggers/s	✓
Hardware-based serial decode and mask	No – software based	X	Yes	✓
Display	10.4" resistive touch	X	12.1" capacitive multi-touch	✓
Upgradable MSO	No	X	Yes	✓
Other integration	Not available	X	2 ch AWG, counter, DVM	✓
Operating system	Windows 7, 64 bit	X	Embedded	✓
Std passive probe	500 MHz or 1 GHz	✓	700 MHz	X
Localized GUI	No	X	Yes	✓
Voice control	No	X	Yes – localized	✓
Standard calibration interval	1 year	X	2 years	✓
BenchVue support	Not available	X	Yes	✓



Jitter/RTE



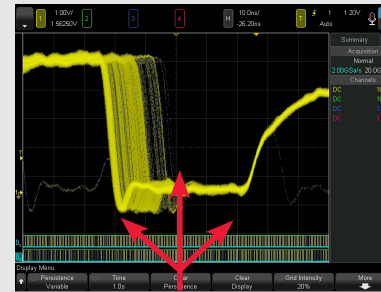
Protocol



FFT



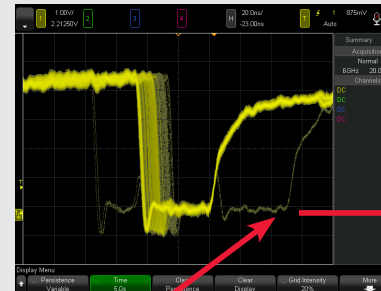
Built-in AWG



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.

