

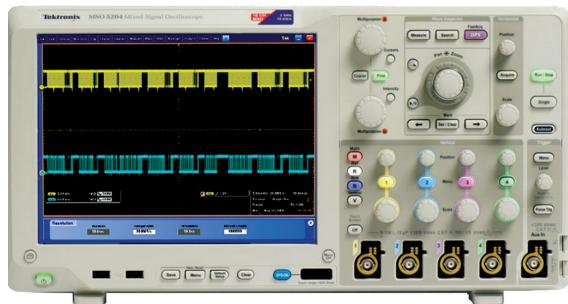
Keysight Competitive Comparison

Keysight 6000 X-Series versus Danaher-Tektronix DPO5000B

Keysight 6000 X-Series

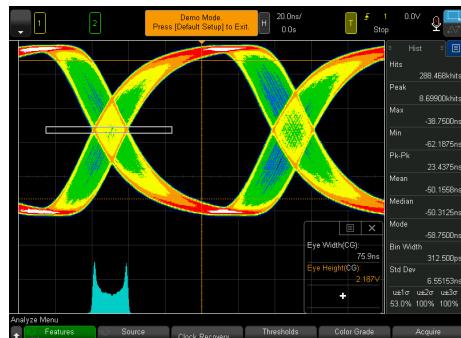


Danaher-Tektronix DPO5000B Series

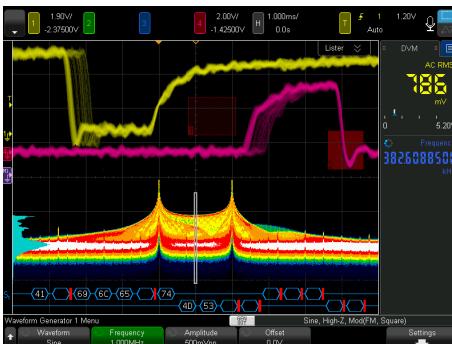


The Keysight Technologies, Inc. 6000 X-Series oscilloscopes offer bandwidths up to 6 GHz with the key benefits of the InfiniiVision line: affordability, excellent visualization, 6-in-1 integration and investment protection. Speed your debugging with its uncompromised fast update rate, combined with the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

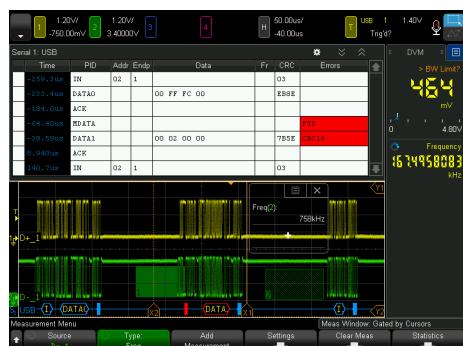
	Danaher-Tektronix DPO5000	Keysight 6000 X-Series
Bandwidth	Up to 2 GHz	✗ Up to 6 GHz ✓
Upgradable bandwidth	No	✗ Yes – license key ✓
Max sampling rate	10 GSa/s on 1, 2 GHz 5 GSa/s on 350/500 MHz	✗ 20 GSa/s on all models
Max memory depth	Up to 50 M	✓ Up to 4 M ✗
Noise at 10 mV/div	750 uV RMS calculated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



Jitter/RTE



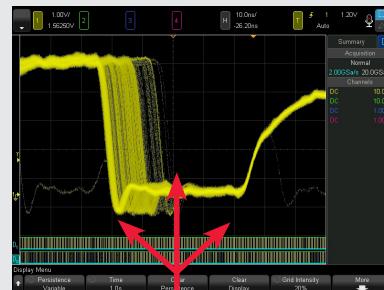
FFT



Protocol



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.

