

Keysight Technologies

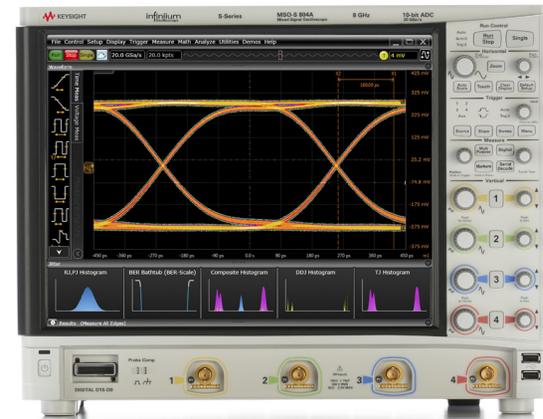
Keysight S-Series versus Danaher-Tektronix DPO7000C

Competitive Comparison

The Keysight Technologies, Inc. S-Series oscilloscope provides bandwidths up to 8 GHz with class-leading signal integrity and analysis. Custom ASICs, including the industry's first 40 GSa/s 10-bit ADC, allow you to see your real signal. Class-leading deep memory and a large suite of analysis tools complement a designed-for-touch user interface and the industry's first 15" multi-touch capacitive touch-screen display.

	Danaher-Tektronix DPO7000C	Keysight S-Series	
Bandwidth	Up to 3.5 GHz	X Up to 8 GHz	✓
Upgradable bandwidth	No	X Yes - license key	✓
Standard full channel sampling rate	10 GSa/s on 2.5/3.5 GHz	✓ 10 GSa/s on all models	✓
	5 GSa/s on 500 MHz/1 GHz	X	✓
Standard memory depth	25 Mpts	X 100 Mpts	✓
Max memory depth (2 ch)	250 Mpts	X 800 Mpts	✓
ADC bits	8 bits	X 10 bits	✓
Waveform update rate (normal mode)	Up to 40 wfms/s	X Up to 2,000 wfms/s	✓
Waveform update rate (special mode)	Up to 250,000 wfms/s	✓ Not available	X
Display	12.1" resistive touch	X 15" capacitive multi-touch	✓
MSO	No	X Optional - 16 ch	✓
Math functions	4	X 16	✓
Internal drive	SSD	✓ SSD	✓
Offline analysis software	No	X Yes	✓

Keysight S-Series



Danaher-Tektronix DPO/MSO/MDO4000B Series



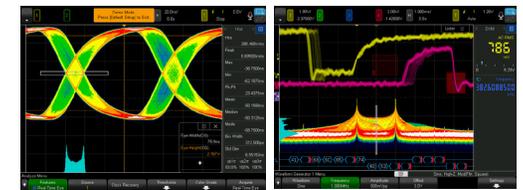
A 15" multi-touch capacitive touch-screen display offers 2x more viewing area and much greater sensitivity to user inputs.

Keysight 6000 X-Series versus Danaher-Tektronix DPO7000C

Competitive Comparison

Keysight's 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 DPO7000C		Keysight 6000 X-Series	
Bandwidth	Up to 3.5 GHz	X	Up to 6 GHz	✓
Upgradable bandwidth	No	X	Yes - license key	✓
Standard full channel sampling rate	10 GSa/s on 2.5/3.5 GHz	✓	10 GSa/s on all models	✓
	5 GSa/s on 500 MHz/1GHz	X		
Standard memory depth (2 ch)	Up to 50 M	✓	Up to 4 M	✓
Noise at 10 mV/div 3.5 GHz bandwidth	625 uV RMS	X	355 uV RMS with 4 GHz bandwidth	✓
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	✓
Display	12.1" resistive touch	✓	12.1" capacitive multi-touch	✓
MSO	No	X	Optional - 16 ch	✓
Other integration	Not available	X	2 ch AWG, counter, DVM	✓
Operating system	Windows 7, 64 bits	X	Embedded	✓
Localized GUI	No	X	Yes - 10 languages	✓
Voice control	No	X	Yes - localized	✓
Size	10.4" deep, 32 lbs	X	6.1" deep, 15 lbs.	✓
Standard calibration interval	1 year	X	2 years	✓
BenchVue support	Not available	X	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.

This information is subject to change without notice.
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