# Keysight Competitive Comparison
## Keysight S–Series versus Danaher-Tektronix DPO5000B

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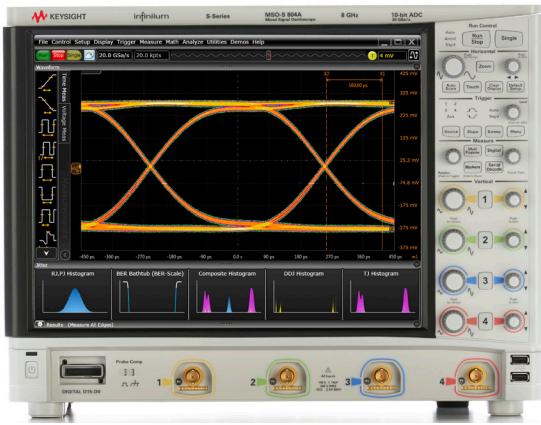
The Keysight Technologies, Inc. S-Series oscilloscopes provide bandwidths up to 8 GHz with class-leading signal integrity and analysis. Custom ASICs, including the industry's first 40 GSa/s, 10-bit ADC, allow you to see your real signal. Class-leading deep memory and a large suite of analysis tools complement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

Danaher-Tektronix DPO5000B Series
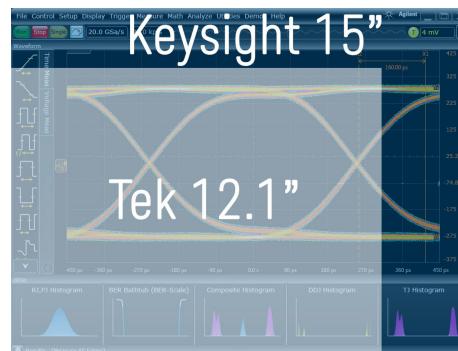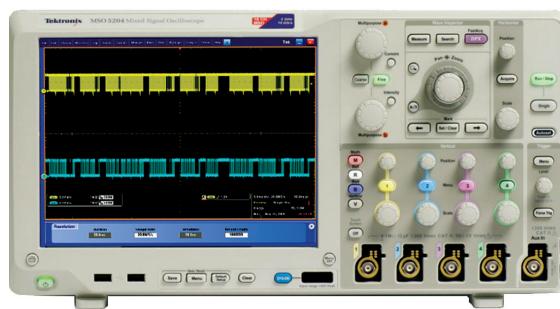
A 15" multi-touch capacitive touch-screen display offers 2x more viewing area and much greater sensitivity to user inputs.

KEYSIGHT
TECHNOLOGIES

Unlocking Measurement Insights

	Danaher-Tektronix DPO5000		Keysight S-Series	
Bandwidth	Up to 2 GHz	X	Up to 8 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		√
Std memory depth (4 ch)	25 Mpts	X	50 Mpts	√
Max memory depth	250 Mpts	X	800 Mpts	√
ADC bits	8 bits	X	10 bits	√
Effective Number of Bits (ENOB) at 1 GHz	6.0	X	8.0	√
Noise at 10 mV/div 2 GHz to 50 Ω	750 uV RMS calculated	X	163 uV RMS	√
Bandwidth filters	Up to 5	X	Up to 16	√
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	10.4" resistive touch	X	15" capacitive multi-touch	√
Upgradable MSO	No	X	Yes	√
Math functions	4	X	16	√
Offline analysis software	No	X	Yes	√
Std passive probe	500 MHz or 1 GHz	√	500 MHz	X
BenchVue support	Not available	X	Yes	√

KEYSIGHT
TECHNOLOGIES

Unlocking Measurement Insights