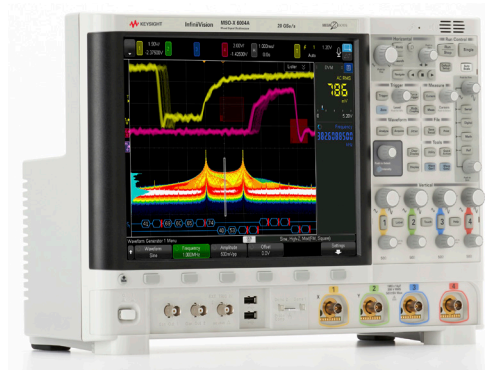


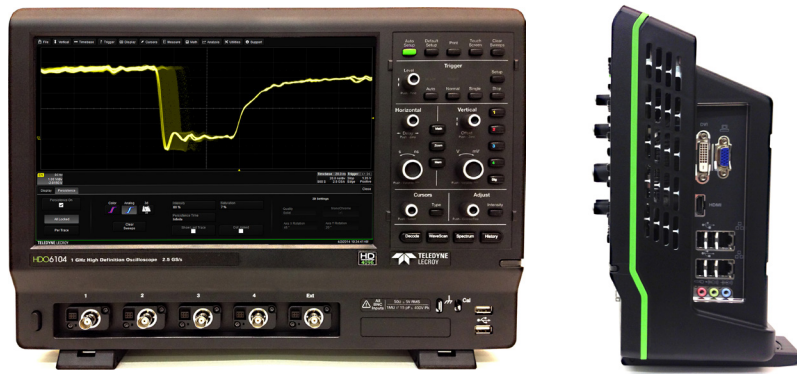
Keysight Competitive Comparison

Keysight 6000 X-Series versus Teledyne-LeCroy HDO4000/6000

Keysight 6000 X-Series

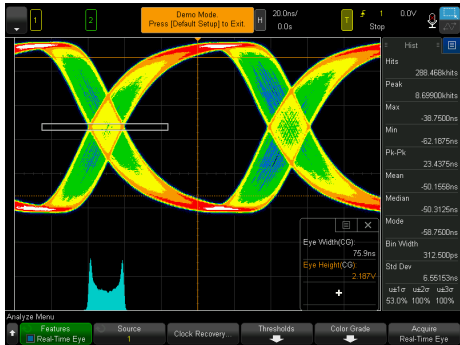


Teledyne-LeCroy HDO4000/6000

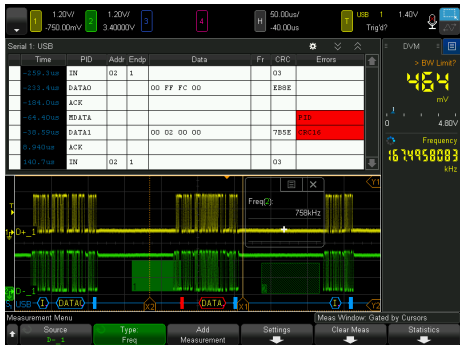


The Keysight Technologies, Inc. 6000 X-Series oscilloscopes offer bandwidths up to 6 GHz with the key benefits of the InfiniiVision line: affordability, excellent visualization, 6-in-1 integration and investment protection. Speed your debugging with its uncompromised fast update rate, combined with the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

	LeCroy HDO4000/6000		Keysight 6000 X-Series	
Bandwidth	Up to 1 GHz	X	Up to 6 GHz	✓
Upgradable bandwidth	No	X	Yes – license key	✓
Max sampling rate	Up to 2.5 GSa/s	X	Up to 20 GSa/s	✓
Std memory depth	Up to 50 M	✓	Up to 4 M	X
ADC bits	12 bits	✓	8 bits	X
Noise at 1 mV/div 1 GHz to 50 Ω	151 uV RMS	X	115 uV RMS	✓
Waveform update rate	< 1,000 wfms/s	X	Up to 450,000 wfms/s	✓
Zone trigger	Not available	X	Yes – hardware-based > 100 K triggers/s	✓
Display	12.1" resistive touch	X	12.1" capacitive multi-touch	✓
Other integration	Not available	X	2 ch AWG, counter, DVM	✓
Operating system	Windows 7	X	Embedded	✓
Std passive probe	500 MHz	X	700 MHz	✓
Voice control	No	X	Yes – localized	✓
Knob per vertical channel	No – muxed	X	Yes	✓
Operating range	5 to 40 °C, 3,048 M	X	0 to 50 °C, 4,000 M	✓
Calibration interval	1 year	X	2 years	✓
Mean time between failure	Not specified	X	> 120,000 hours	✓
BenchVue support	Not available	X	Yes	✓



Jitter/RTE



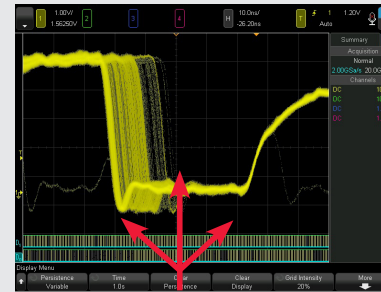
Protocol



FFT



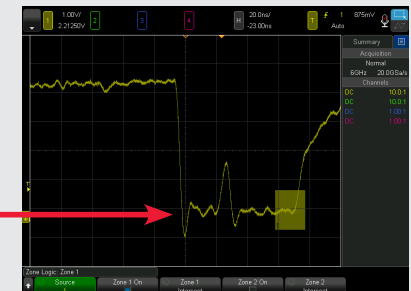
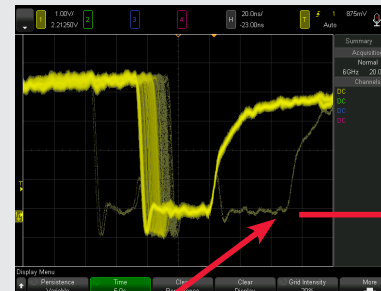
Built-in AWG



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.