

# Keysight Competitive Comparison

## Keysight 6000 X-Series versus Teledyne-LeCroy 6Zi

### Keysight 6000 X-Series

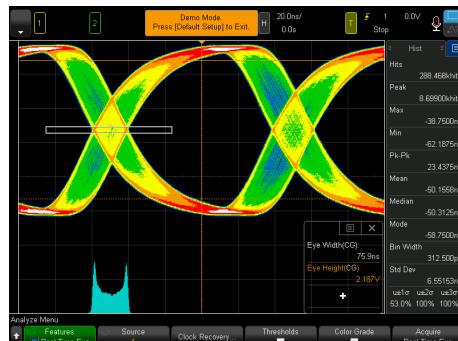


### Teledyne-LeCroy 6Zi Series

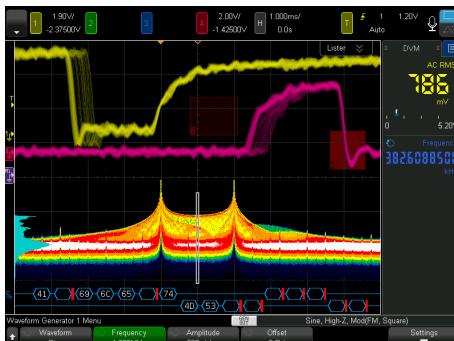


The Keysight Technologies, Inc. 6000 X-Series oscilloscopes offer bandwidths up to 6 GHz with the key benefits of the InfiniiVision line: affordability, excellent visualization, 6-in-1 integration and investment protection. Speed your debugging with its uncompromised fast update rate, combined with the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

	LeCroy 6Zi	Keysight 6000 X-Series
Bandwidth	Up to 4 GHz	X Up to 6 GHz ✓
Upgradable bandwidth	No	X Yes – license key ✓
Max sampling rate	Up to 40 GSa/s	✓ Up to 20 GSa/s X
Standard memory depth	Up to 32 M	✓ Up to 4 M X
Noise at 5 mV/div	400 uV RMS	X 220 uV RMS at 3 GHz ✓
4 GHz to 50 Ohms		276 uV RMS at 6 GHz
Waveform update rate	Up to 580 wfms/s using WaveStream™	X Up to 450,000 wfms/s ✓
Zone trigger	Not available	X Yes – hardware-based > 100 K triggers/s ✓
Hardware-based serial decode and mask	No – software based	X Yes ✓
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 ✓
Standard passive probe	500 MHz	X 700 MHz ✓
Localized GUI	No	X Yes ✓
Standard calibration interval	1 year	X 2 years ✓
Voice control	No	X Yes – localized ✓
Depth, weight	8.9", 25.4 lbs	X 6.1", 15 lbs ✓
Operating range	5 to 40 °C, 3,048 M	X 0 to 50 °C, 4,000 M ✓
Power	Up to 500 W	X Up to 250 W ✓
Mean Time Between Failure (MTBF)	Not specified	X > 120,000 hours ✓
BenchVue support	Not available	X Yes ✓



Jitter/RTE



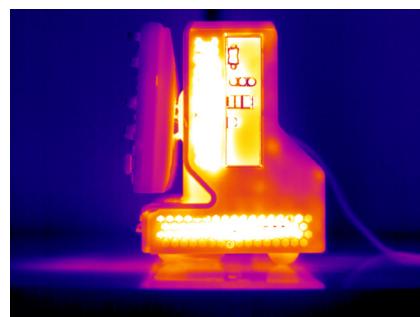
FFT



Protocol



Built-in AWG



LeCroy 6Zi consumes double the max power and runs significantly hotter than the 6000 X-Series.



The 6000 X-Series' low power consumption helps it reach an excellent MTBF of > 120,000 hours.



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.

