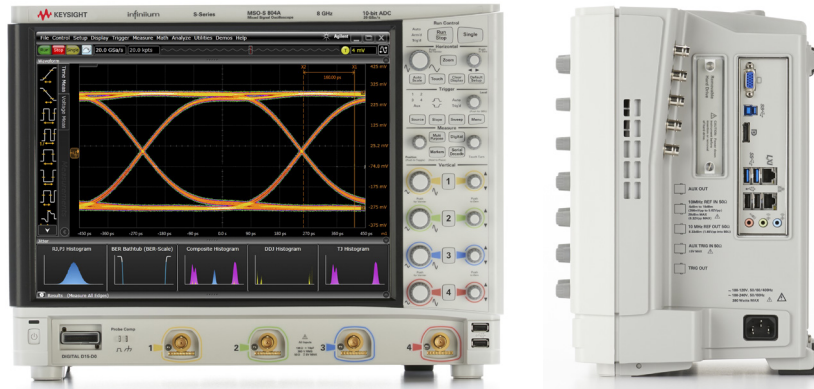


# Keysight Technologies

## Competitive Comparison: Keysight 4000 X-Series versus Rohde & Schwarz RTE Series

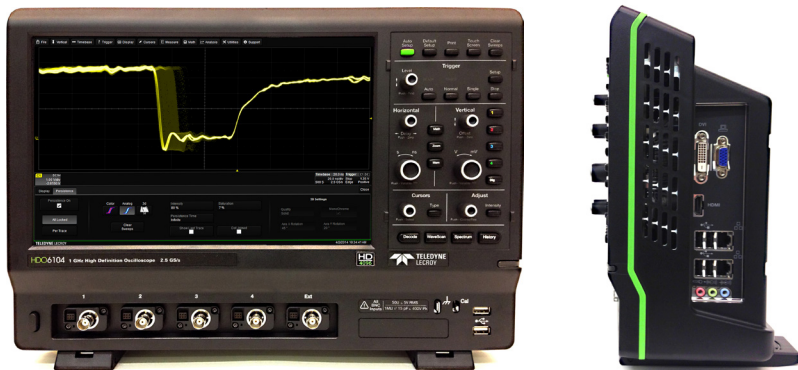
### Keysight S-Series



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 display.

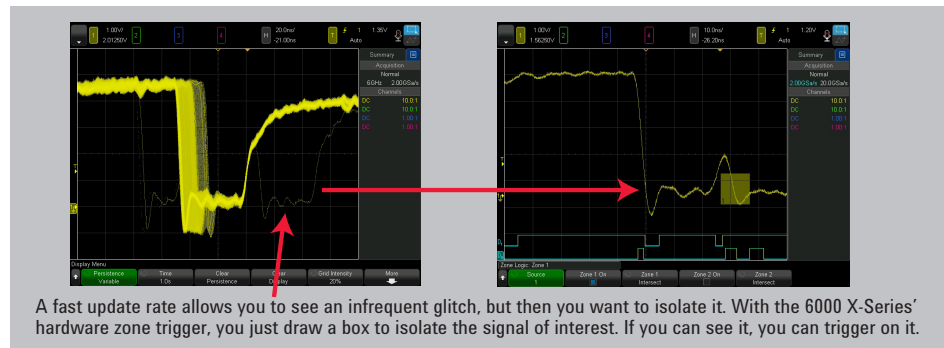
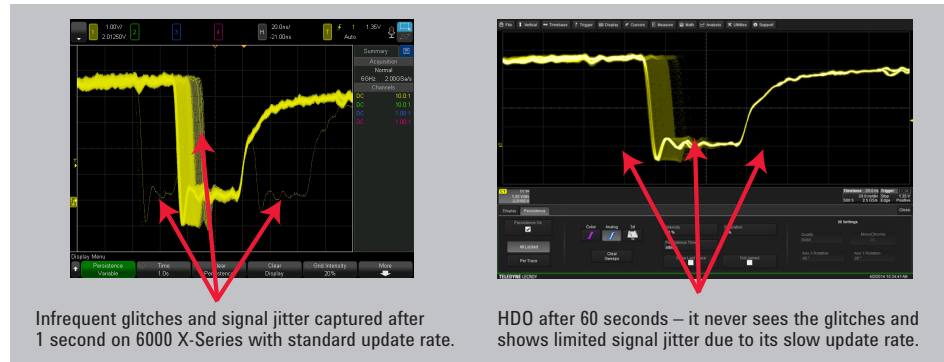
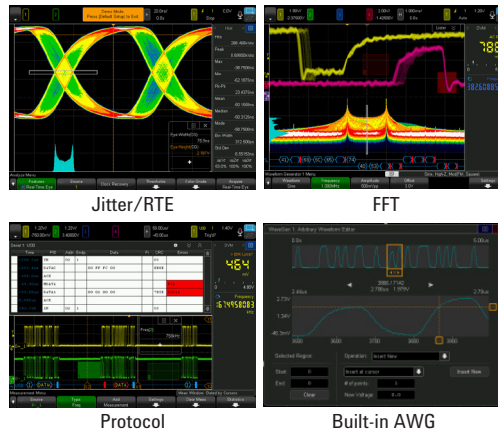
	LeCroy HDO4000/6000		Keysight S-Series	
Bandwidth	Up to 1 GHz	x	Up to 8 GHz	✓
Upgradable bandwidth	No	x	Yes – license key	✓
Max sampling rate	2.5 GSa/s	x	20 GSa/s	✓
Standard memory depth (4 ch)	50 Mpts	✓	50 Mpts	✓
Max memory depth (2 ch)	250 Mpts	x	800 Mpts	✓
ADC bits	12 bits	✓	10 bits	x
Noise at 1 mV/div 1 GHz to 50 Ω	151 $\mu$ V RMS	x	90 $\mu$ V RMS	✓
Display	12.1" resistive touch	x	15" capacitive multi-touch	✓
Knob per vertical channel	No – muxed	x	Yes	✓
Offline analysis software	No	x	Yes	✓
Math functions	8	x	16	✓
Timescale accuracy	$\pm$ 1,500 ppb	x	$\pm$ 75 ppb	✓
Mean time before failure (typical)	Not specified	x	110,000 hours	✓
BenchVue support	Not available	x	Yes	✓

### Teledyne-LeCroy HDO4000/6000



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

# Competitive Comparison: Keysight 6000 X-Series versus Teledyne-LeCroy HDO4000/6000



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.

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



**Three-Year Warranty**  
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 Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.



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 Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.

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