

Infiniium EXR-Series Oscilloscope

While the Infiniium S-Series is an outstanding general-purpose oscilloscope, the new Infiniium EXR-Series combines the best signal integrity and capabilities of our industry-first technology in our advanced high-performance UXR-Series scope with the instrument integration and speed of our InfiniiVision scopes. This makes the Infiniium EXR-Series the best scope from 500 MHz to 2.5 GHz in the industry.



The Benefits of the Keysight EXR-Series over the Keysight S-Series Oscilloscope

The EXR-Series is faster

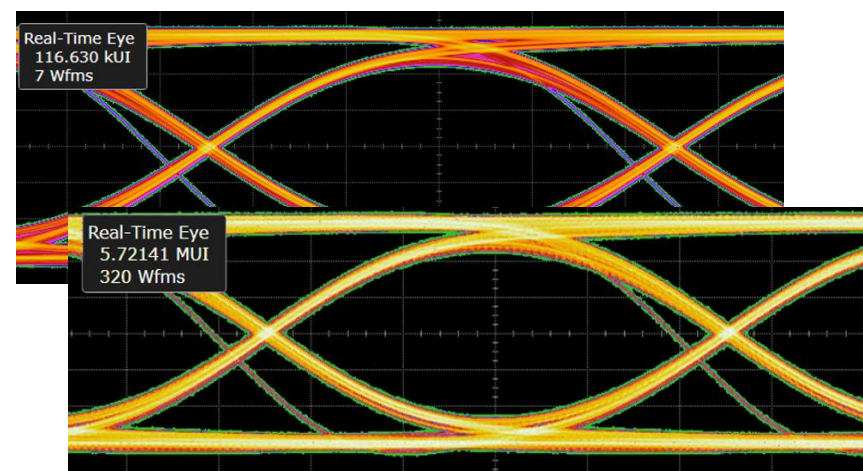
- Waveform update rate > 200x faster
- Build eye-diagrams > 50x faster
- On screen measurements > 20% faster
- Waveform averaging > 120x faster

The EXR-Series has much more test capability

- 8 analog channels
- New Fault Hunter
- 7 instruments in 1
- Digital oscilloscope
- Logic analyzer
- Protocol analyzer
- New digital voltmeter
- New 10-digit counter
- New arbitrary waveform generator
- New frequency response analyzer

The EXR-Series is more accurate

- ENOB is equal or higher at every frequency, period!
- Up to 25% lower noise (as low as 73 μ V at 1 GHz)



The Infiniium EXR-Series builds eye diagrams 50 times faster than the S-Series. In the same amount of time, the EXR-Series captures 5.7 million UI while the S-Series captures only 0.12 million UI

Spec/Criteria	InfiniiVision 6000 X-Series	Infiniium S-Series	Infiniium EXR-Series
Channel count, analog	2 or 4	4	✓ 4 or 8
Channel upgrades	No	No	✓ Yes
Bandwidths available	✓ 1, 2.5, 4, 6 GHz	✓ 500 MHz, 1, 2, 2.5, 4, 6, 8 GHz	500 MHz, 1, 2, 2.5 GHz
Max bandwidth (2 channel)	6 GHz	✓ 8 GHz	2.5 GHz
Max bandwidth (4 channels)	✓ 4 GHz	✓ 4 GHz	2.5 GHz
Max bandwidth (8 channels)	-	-	✓ 2.5 GHz
Max sampling rate (all channels)	10 GSa/s	10 GSa/s	✓ 16 GSa/s
Total scope sample rate	40 GSa/s	40 GSa/s	✓ 128 GSa/s
Vertical resolution (ADC bits)	8	✓ 10	✓ 10
Standard memory (all channels)	2 Mpts	✓ 100 Mpts	✓ 100 Mpts
Maximum memory (all channels)	2 Mpts	✓ 400 Mpts	✓ 400 Mpts
Arbitrary waveform generator	Yes (20 MHz)	No	✓ Yes (50 MHz)
Counter	Yes, one (10 digits)	No	✓ Yes, three (10 digits)
Digital voltmeter	✓ Yes (4 digits)	No	✓ Yes (4 digits)
Fault hunter	No	No	✓ Yes
Fast capture history mode	No	No	✓ Yes
Waveform update rate	✓ > 200,000 wfm/s	< 1,000 wfm/s	✓ > 200,000 wfm/s
Eye diagram plotting speed	> 15,000 UI/s	> 15,000 UI/s	✓ > 750,000 UI/s
Noise floor (100 mV/div, 1 GHz)	3,150 μ V	960 μ V	✓ 821 μ V
ENOB (50mV/div)	< 7.0	7.8 (1 GHz), 7.4 (2.5 GHz)	✓ 8.0 (1 GHz), 7.5 (2.5 GHz)
Timebase accuracy	\pm 1,600 ppb	\pm 12 ppb	✓ \pm 8 ppb
Intrinsic jitter (w/ ext. ref)	600 fs rms	145 fs rms	✓ 120 fs rms
Waveform averaging speed	> 100 wfm/s	> 100 wfm/s	✓ > 12,000 wfm/s
Screen size/resolution	12.1" / 800 x 600	15" / 1024 x 768 XGA	✓ 15.6", / 1920 x 1080 (Full HD)
Standard storage (removable)	None	256 GB SSD	✓ 500 GB SSD (1 TB SSD optional)
Power	200 W	380 W	4ch: 450 W; 8ch: 650 W
Weight	15 lbs. (6.8 kg)	26.4 lbs. (12 kg)	4ch: 30 lbs. (13.7 kg); 8ch: 32 lbs. (14.5 kg)
Dimensions	H 29 cm x W 43 cm x D 15 cm	H 33 cm x W 43 cm x D 23 cm	H 33 cm x W 44 cm x D 23 cm

Future proof your EXR-Series - Upgrade

- From 4-channels to 8-channels
- Bandwidth from 500 MHz to 2.5 GHz (license key upgrade)
- Add capture and analysis memory
- Extensive protocol decodes and compliance applications
- Full complement of probes

EXR-Series industry firsts

- Supports > 2 GHz on 8 channels and fully upgradeable
- Upgrade from 4 to 8-channels
- Always-on update rate > 200,000 wfm/s
- On-Screen Waveform Editor for AWG
- Keysight Fault Hunter analysis application

Learn more at: www.keysight.com

Find us at www.keysight.com

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