

Keysight Technologies

InfiniiVision 3000 X-Series versus LeCroy WaveJet Oscilloscopes

Product Fact Sheet

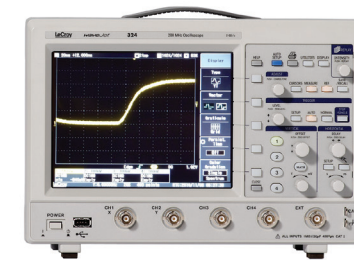
The new Keysight, Technologies, Inc. 3000 X-Series oscilloscopes use breakthrough technology to deliver value, functionality and flexibility at prices that fit into existing budgets. Using a Keysight-designed MegaZoom IV Custom ASIC technology, the 3000 X-Series provides unprecedented signal visibility with over 1,000,000 waveforms per second. The 3000 X-Series is the industry's first 5-in-1 product with a full-featured scope, logic analyzer, protocol analyzer, and a function/arbitrary waveform generator, digital voltmeter all integrated into one design with a large, 8.5-inch display..



InfiniiVision 3000 X-Series

- 1,000,000 waveforms per second
- 5 instruments in 1
- Fully upgradable

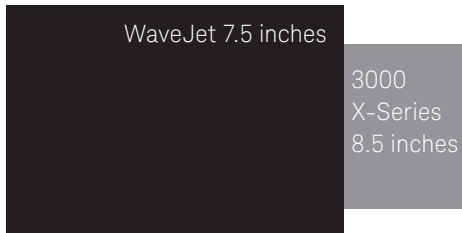
Keysight-designed MegaZoom IV custom ASIC technology powers the fastest waveform update rates, responsive deep memory, integrated MSO, integrated industry-exclusive WaveGen, and integrated protocol analyzer



	Keysight 3000 X-Series		LeCroy WaveJet	
Bandwidth	100 MHz, 200 MHz, 350 MHz, 500 MHz, 1 GHz	✓	100 MHz, 200 MHz, 350 MHz, 500 MHz	✗
Upgradable bandwidth	Yes	✓	No	✗
Maximum sampling rate	5 GSa/s ¹	✓	2.5 GSa/s	✗
Maximum memory depth	4 M	✓	500 K	✗
Display	8.5-inch WVGA (800 x 480)	✓	7.5-inch VGA (640 x 480)	✗
Update rate, Maximum	> 1,000,000 wfms/s	✓	3,600 wfms/s	✗
Mixed signal oscilloscope	Yes – 16 channels integrated	✓	Not available	✗
WaveGen built-in function/arbitrary waveform generator	Yes – integrated	✓	Not available	✗
Integrated Digital Voltmeter	Yes	✓	No	✗
Serial trigger, decode, search	Broad support, hardware-based	✓	Not available	✗
Mask Testing	Yes - hardware-based 240K/s	✓	Not available	✗
Pricing	Lower 100 to 200 MHz	✓	Lower 350 to 500 MHz	✗

See more of your signal,
more of the time:

- An 8.5-inch WVGA display offers 14% more viewing area and 25% more resolution versus a 7.5-inch VGA display
- > 1,000,000 waveforms per second update rate allows you to see infrequent events and subtle signal details that the WaveJet will miss
- Memory depth up to 4 M (8x the WaveJet) allows you to keep your sample rate high at longer time/division settings



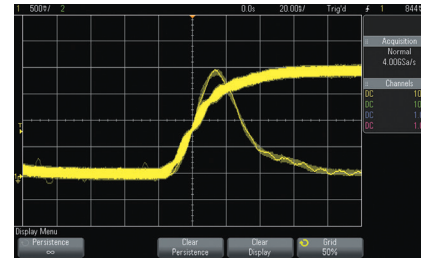
Do more with the power of
5 instruments in 1:

- Best-in-class oscilloscope
Provides features not normally found in this class of scope such as a large display, deep memory, and powerful triggering
- Protocol analyzer
Provides protocol-aware triggering, decode, search, and navigation for serial buses.
- Logic timing analyzer (MSO)
Ideal for R&D engineers on a tight budget who need more than the traditional 2 or 4 analog
- Industry-exclusive WaveGen
20 MHz built-in function/arbitrary waveform
- Ideal for educational or design labs where bench space and budget are limited
- Integrated Digital Voltmeter
Provides a 3-digit voltmeter (DVM) and 5-digit counter inside the oscilloscopes. The voltmeter operates through the same probes as the oscilloscope channels

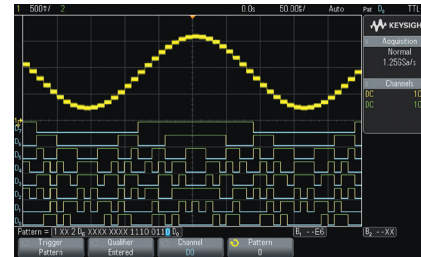
Get more investment
protection and productivity:

- Upgradable bandwidth
- Upgradable MSO
- Upgradable memory
- Upgradable WaveGen 20 MHz built-in function/arbitrary waveform generator
- Upgradable Digital Voltmeter
- Optional measurement applications

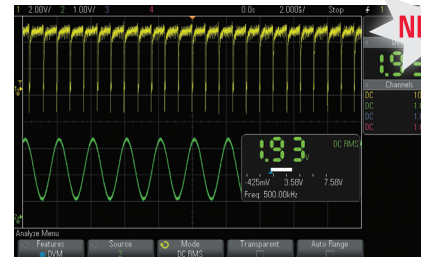
Buy only what you need today. Simple, after purchase upgrades protect your investment and allow you to enhance your equipment as your needs change.



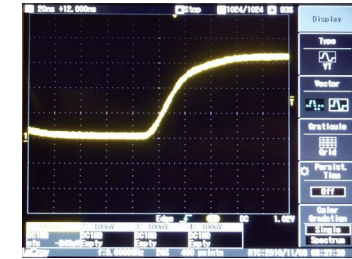
Infrequent glitch captured in less than 1 second on 3000 X-Series with > 1,000,000 wfms/s



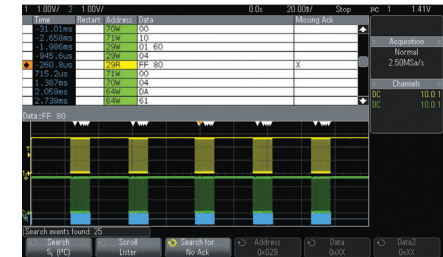
3000 X-Series MSO adds 16 integrated digital channels for extra triggering and analysis; DSO models are customer-upgradable to MSO models



Integrated Digital Voltmeter (DVM) allows you to characterize signals independently of the scopes triggering system



WaveJet after 2 minutes—it never sees the glitch due to its significantly slower update rate



3000 X-Series protocol-aware triggering, decode, search, and navigation for serial buses; hardware-based to maintain fast waveform update rate and capture elusive errors

KEYSIGHT SERVICES

Accelerate Technology Adoption. *Lower costs.*

www.keysight.com/find/services

Keysight Services helps you improve productivity and product quality with our comprehensive service offerings of one-stop calibration, repair, asset management, technology refresh, consulting, training, and more.

www.keysight.com/find/3000X-Series

This information is subject to change without notice.

© Keysight Technologies, 2017
Published in USA, December 1, 2017
5990-6685EN
www.keysight.com