

Industry Comparison: Agilent InfiniiVision 3000 X-Series versus LeCroy WaveJet Oscilloscopes

Agilent's new 3000 X-Series oscilloscopes use breakthrough technology to deliver value, functionality and flexibility at prices that fit into existing budgets. Using an Agilent-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 4-in-1 product with a full-featured scope, logic analyzer, protocol analyzer, and a function generator all integrated into one design with a large, 8.5-inch display.



InfiniiVision 3000 X-Series

- 1,000,000 waveforms per second
- 4 instruments in 1
- Fully upgradeable

Agilent-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



	Agilent 3000 X-Series	LeCroy WaveJet	
Bandwidth	100 MHz, 200 MHz, 350 MHz, 500 MHz	✓	100 MHz, 200 MHz, 350 MHz, 500 MHz
Upgradable bandwidth	Yes	✓	No
Maximum sampling rate	4 GSa/s ¹ 4 GSa/s ²	✓ ✓	1 GSa/s ¹ Up to 2.5 GSa/s ²
Maximum memory depth	4 M	✓	500 K
Display	8.5-inch WVGA (800 x 480)	✓	7.5-inch VGA (640 x 480)
Update rate	> 1,000,000 wfms/s	✓	3,600 wfms/s
Mixed signal oscilloscope	Yes – 16 channels integrated	✓	Not available
Function generator	Yes – integrated	✓	Not available
Serial trigger, decode, search	I ² C, SPI, RS232, CAN, LIN, I ² S	✓	Not available
Hardware-based mask test	Yes – up to 280 K/s	✓	Not available
Pricing	Lower 100 to 200 MHz	✓	Lower 350 to 500 MHz

1. 100 MHz
2. 200/350MHz/500MHz

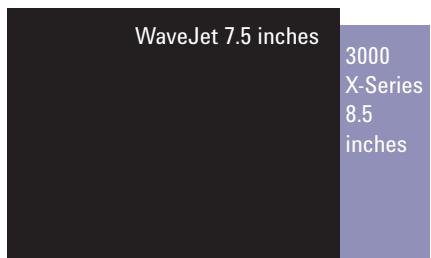


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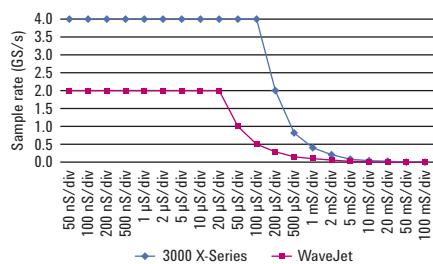
See more

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



8.5-inch WVGA display offers 14% more viewing area and 25% more resolution



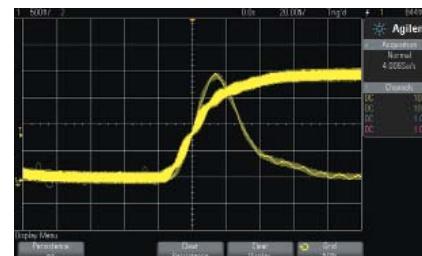
Up to 8x the memory allows you to keep sample rates higher on longer time/division settings

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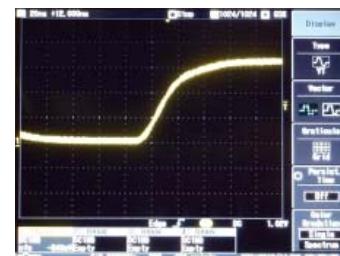
Do more

With the power of 4 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. With the industry's only hardware-based decode including multi-lane analysis, you can be sure you will never miss elusive errors
- **Logic timing analyzer (MSO)**
Ideal for R&D engineers on a tight budget who need more than the traditional 2 or 4 analog channels to troubleshoot today's digital designs
- **Industry-exclusive WaveGen built-in function generator**
Ideal for educational or design labs where bench space and budget are limited



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



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



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



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

Get more

Investment protection and productivity:

- Upgradable bandwidth
- Upgradable MSO
- Upgradable memory
- Upgradable WaveGen
- 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.

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

Product specifications and descriptions in this document subject to change without notice.



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