

Industry Comparison: Agilent InfiniiVision 3000 X-Series versus Tektronix DPO3000 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 upgradable

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		Tektronix DPO3000	
Bandwidth	100 MHz, 200 MHz, 350 MHz, 500 MHz	✓	100 MHz, 300 MHz, 500 MHz	✓
Upgradable bandwidth	Yes	✓	Not available	✗
Maximum sampling rate	4 GSa/s	✓	2.5 GSa/s	✗
Maximum memory depth	4 M	✗	5 M	✓
Maximum full channel SR	2 GSa/s	✗	2.5 GSa/s	✓
Maximum full channel memory	2 M	✗	5 M	✓
Display	8.5-inch WVGA (800 x 480)	✓	9-inch WVGA (800 x 480)	✓
Update rate	> 1,000,000 wfms/s	✓	55,000 wfms/s	✗
Mixed signal oscilloscope	Yes – 16 channels integrated	✓	Yes – 16 channels integrated	✓
Upgradable MSO	Yes	✓	No	✗
Function generator	Yes – integrated	✓	Not available	✗
Serial trigger, decode, search	I ² C, SPI, RS232, CAN, LIN, I ² S	✓	I ² C, SPI, RS232, CAN, LIN, I ² S	✓
Hardware-based serial decode	Yes	✓	No	✗
Segmented memory	Yes	✓	Not available	✗
Hardware-based mask test	Yes – up to 240 K/sec	✓	Not available	✗
Pricing	Lower	✓	Higher	✗



Agilent Technologies

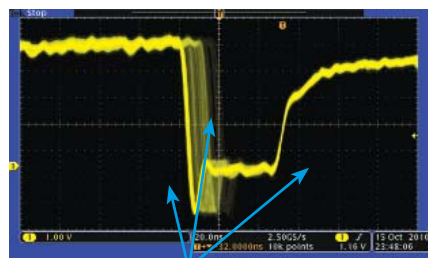
See more

Of your signal, more of the time:

- > 1,000,000 waveforms per second update rate allows you to see infrequent events and subtle signal detail that the DPO3000 will miss



Infrequent glitches and signal jitter captured after 1 second on 3000 X-Series with > 1,000,000 wfms/s



DPO3000 after 20 seconds—it never sees the glitches and shows limited signal jitter due to its slower update rate

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

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.



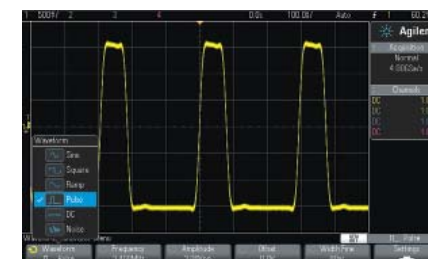
Infrequent LIN bus parity error captured on the 3000 X-Series in less than a second due to hardware-based serial decode



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



500 CAN serial packets over 9 seconds, captured at a high sample rate, using the 3000 X-Series's segmented memory



3000 X-Series industry-exclusive WaveGen function generator saves money and bench space

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

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