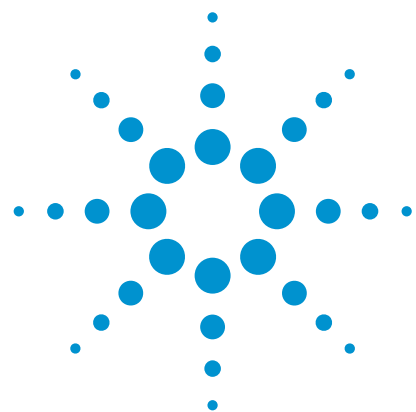




Industry Comparison: Agilent InfiniiVision 3000 X-Series versus Tektronix DPO2000 Oscilloscopes

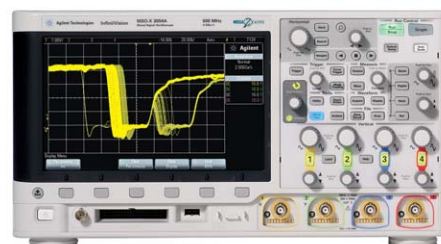
Agilent's new 3000 X-Series oscilloscopes use breakthrough technology to deliver value, functionality and flexibility at prices that fit into existing budgets. Using an Agilent-designed *MegaZoom IV* Custom ASIC technology, the 3000 X-Series provides unprecedented signal visibility with over 1,000,000 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 DPO2000	
Bandwidth	100 MHz, 200 MHz, 350 MHz, 500 MHz	✓	100 MHz, 200 MHz	X
Upgradable bandwidth	Yes	✓	Not available	X
Maximum sampling rate	4 GSa/s	✓	1 GSa/s	X
Maximum memory depth	4 M	✓	1 M	X
Maximum full channel SR	2 GSa/s	✓	1 GSa/s	X
Maximum full channel memory	2 M	✓	1 M	X
Display	8.5-inch WVGA (800 x 480)	✓	7-inch WQVGA (480 x 234)	X
Update rate	> 1,000,000 wfms/s	✓	5,000 wfms/s	X
Mixed signal oscilloscope	Yes – 16 channels integrated	✓	Yes – 16 channels integrated	✓
Upgradable MSO	Yes	✓	No	X
Function generator	Yes – integrated	✓	Not available	X
Serial trigger, decode, search	I ² C, SPI, RS232, CAN, LIN, I ² S	✓	I ² C, SPI, RS232, CAN, LIN	✓
Hardware-based serial decode	Yes	✓	No	X
Segmented memory	Yes	✓	Not available	X
Hardware-based mask test	Yes – up to 240 K/s	✓	Not available	X
Pricing	Similar	✓	Similar	✓



Agilent Technologies

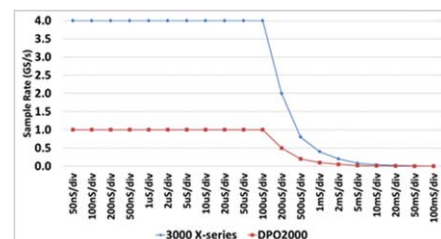
See more

Of your signal, more of the time:

- An 8.5-inch WVGA display offers 50% more viewing area and > 3 times more resolution versus a 7-inch QWVGA display
- > 1,000,000 waveforms per second update rate allows you to see infrequent events and subtle signal details that the DPO2000 will miss
- Memory depth up to 4 M (4x the DPO2000) allows you to keep your sample rate high at longer time/division settings



8.5-inch WVGA display offers 50% more viewing area and > 3x more resolution



4x the memory allows you to keep sample rates higher on longer time/div settings

Do more

With the power of 4 instruments in 1:

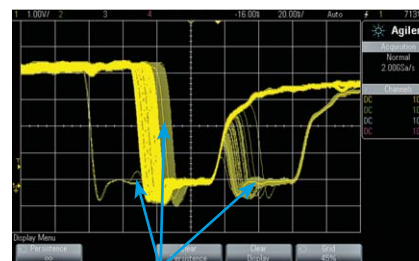
- **Best-in-class oscilloscope**
Provides features not normally found in this class of scope such as a large display, deep memory, and powerful triggering
- **Protocol analyzer**
Provides protocol-aware triggering, decode, search, and navigate for serial buses. With the industry's only hardware-based 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

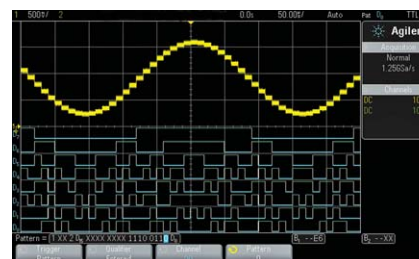
Investment protection and productivity:

- Upgradable bandwidth
- Upgradable MSO
- Upgradable memory
- Upgradable WaveGen
- Optional measurement applications

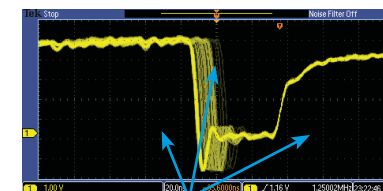
Buy only what you need today. Simple, after purchase upgrades protect your investment and allow you to enhance your equipment as your needs change.



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



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



DPO2000 after 40 seconds—it never sees the glitches and shows limited signal jitter due to its slower update



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

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

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