



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 industryexclusive WaveGen, and
integrated protocol analyzer

Industry Comparison: Agilent InfiniiVision 3000 X-Series versus Tektronix TDS3000C 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/arbitrary waveform generator all integrated into one design with a large, 8.5-inch display.





	Agilent 3000 X-Series		Tektronix TDS3000C	
Bandwidth	100 MHz, 200 MHz, 350 MHz, 500 MHz	√	100 MHz, 300 MHz, 500 MHz	√
Upgradable bandwidth	Yes	$\sqrt{}$	Not available	Χ
Maximum sampling rate	Up to 4 GSa/s ¹	\checkmark	Up to 1.25 GSa/s ¹	Χ
	Up to 4 GSa/s ²	$\sqrt{}$	Up to 2.5 GSa/s ²	X
	Up to 4 GSa/s³	X	Up to 5 GSa/s ³	$\sqrt{}$
Maximum memory depth	4 M	$\sqrt{}$	Up to 10 K	Χ
Display	8.5-inch WVGA (800 x 480)	$\sqrt{}$	6.5-inch VGA (640 x 480)	Χ
Update rate	> 1,000,000 wfms/s	$\sqrt{}$	3,600 wfms/s	Χ
Mixed signal oscilloscope	Yes – 16 channels integrated	$\sqrt{}$	Not available	Χ
WaveGen built-in function/arbitrary waveform generator	Yes – integrated	$\sqrt{}$	Not available	Χ
Serial trigger, decode, search	I ² C, SPI, RS232, CAN, LIN, MIL-STD 1553, ARINC 429, FlexRay I ² S	$\sqrt{}$	Not available	Χ
Hardware-based serial decode	Yes	V	No	X
Segmented memory	Yes	V	Not available	X
Hardware-based mask test	Yes – up to 240 K/sec	V	Not available	X

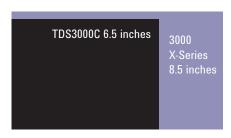
- 1. 100 MHz
- 2. 300/350 MHz
- 3. 500 MHz



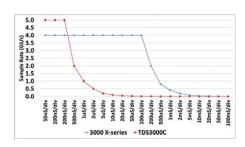
See more

Of your signal, more of the time:

- An 8.5-inch WVGA display offers 50% more viewing area and 25% more resolution versus a 6.5-inch VGA display
- > 1,000,000 waveforms per second update rate allows you to see infrequent events and subtle signal details that the TDS3000C will miss
- Memory depth up to 4 M (400x the TDS3000C) allows you to keep your sample rate high at longer time/division settings



8.5-inch WVGA display offers 50% more viewing area and 25% more resolution



400x the memory allows you to keep sample rates higher on longer time/div 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 navigate for serial buses. With the industry's only hardwarebased 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 20 MHz function/arbitrary waveform generator

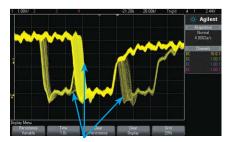
Ideal for educational or design labs where bench space and budget are limited

Get more

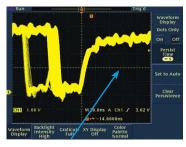
Investment protection and productivity:

- · Upgradable bandwidth
- · Upgradable MSO
- Upgradable memory
- Upgradable WaveGen 20 MHz built-in function/arbitrary waveform generator
- · 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/s



TDS3000 after 40 seconds—it never sees the glitch due to its 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 navigate for serial buses; hardware-based to maintain fast waveform update rates and capture elusive events

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

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

