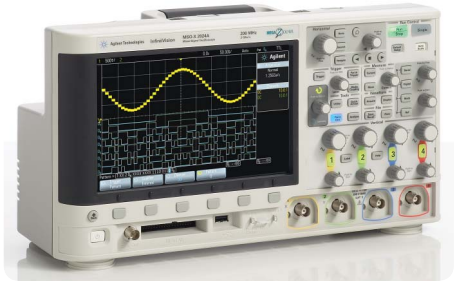
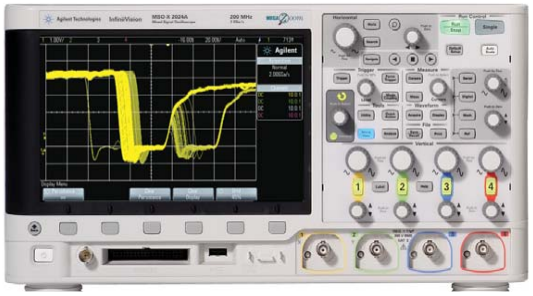
Agilent 2000 X-Series versus Tektronix TDS2000C Oscilloscopes

Agilent's new 2000 X-Series oscilloscopes use breakthrough technology to deliver value, functionality, and flexibility at prices that fit into existing budgets. The 2000 X-Series offers an 8.5-inch WVGA high resolution display and our new industry-exclusive integrated function generator, digital voltmeter and logic analyzer. Agilent-designed *MegaZoom* IV Custom ASIC technology allows you to see more signal detail with update rates of over 50,000 waveforms per second.





InfiniiVision 2000 X-Series

- 50,000 waveforms per second
- 4 instruments in 1
- Fully upgradable

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

	Agilent 2000 X-Series		Tektronix TDS2000C	
Bandwidth	70 MHz, 100 MHz, 200 MHz	X	50 MHz, 70 MHz, 100 MHz, 200 MHz	√
Upgradable bandwidth	Yes	√	No	X
Maximum sampling rate	Up to 2 GSa/s[1] Up to 2 GSa/s[2]	√	Up to 1 GSa/s[1] Up to 2 GSa/s[2]	X √
Memory depth	Up to 100 kpts (all models)	√	Up to 2.5 kpts	X
Display	8.5-inch WVGA (800 x 480)	√	5.7-inch QVGA (320 x 240)	X
WaveGen built-in function generator	Yes	√	No	X
Integrated Digital Voltmeter	Yes	√	No	X
Mixed signal oscilloscope	Yes – 8 channels	√	No	X
Update rate	> 50,000 wfms/s	√	200 wfms/s	X
Segmented memory	Yes	√	No	X
Hardware-based mask test	Yes	√	No	X
Standard warranty	3 years	X	Limited lifetime	√

1. *On 70 MHz models*
2. *On 100 and 200 MHz models*

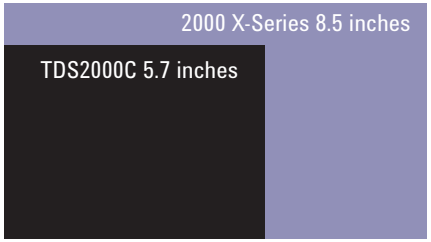
Anticipate ___Accelerate ___Achieve

Agilent Technologies

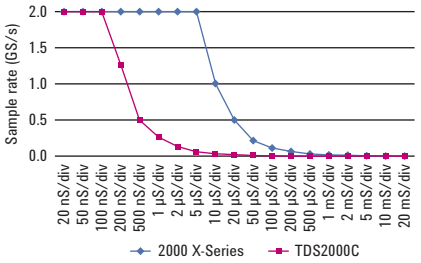
See more

Of your signal, more of the time:

- The 8.5-inch WVGA display offers 2x the viewing area and 5x the resolution versus a 5.7-inch QVGA display
- > 50,000 waveforms per second update rate allows you to see infrequent events and subtle signal details that the TDS2000C will miss
- Memory depth up to 100 kpts (40x the TDS2000C) allows you to keep your sample rate high at longer time/division settings



8.5-inch WVGA display offers 2x the viewing area and 5x the resolution



40x the memory allows you to keep sample rates higher on longer time/div settings

Do more

With the power of 4 instruments in 1:

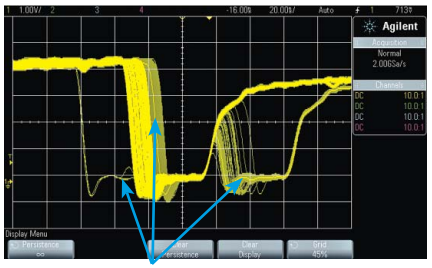
- Best-in-class oscilloscope
  Provides features not normally found in this class of scope such as a large display, deep memory, and powerful triggering
- Industry-exclusive WaveGen built-in function generator
  Ideal for educational or design labs where bench space and budget are limited
- Logic timing 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 design
- Integrated Digital Voltmeter
  Porvides 3-digit voltmeter measurements (DVM) and 5-digit counter measurements inside the oscilloscope. The voltmeter operates through the same probes as the oscilloscope channels.

Get more

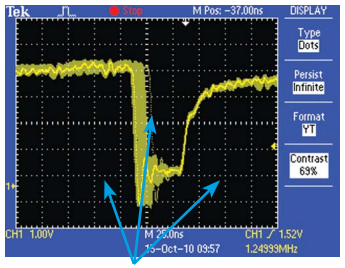
Investment protection with the industry's only fully-upgradable oscilloscope:

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

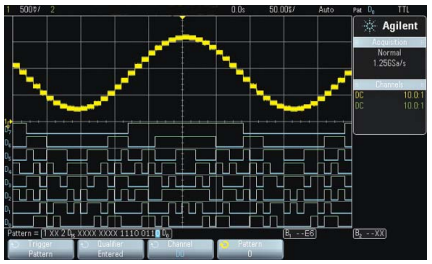
Buy only what you need today. Simple, after purchase upgrades protect your investment and allow you to enhance your equipment as your needs change.



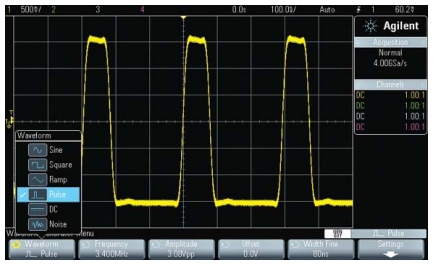
Infrequent glitch and signal jitter captured after 2 seconds on 2000 X-Series with > 50,000 wfms/s



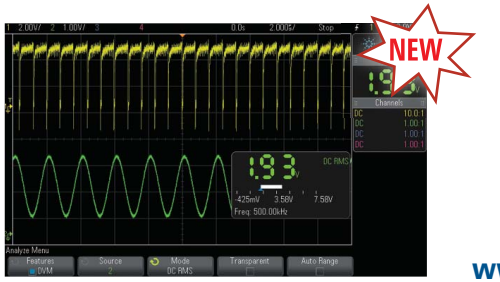
TDS2000C after 40 seconds—it never sees the glitches and shows limited signal jitter due to its slow update rate of 180 wfms/s



2000 X-Series' exclusive MSO adds eight integrated digital channels for extra triggering or logic analysis; DSO models are customer-upgradable to MSO models



2000 X-Series' exclusive WaveGen built-in 20-MHz function generator saves money and space



Integrated digit voltmeter (DVM) allows you to characterize signals independent of the scopes triggering system.

www.agilent.com
www.agilent.com/find/2000X-Series

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

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