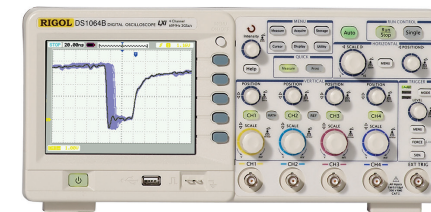
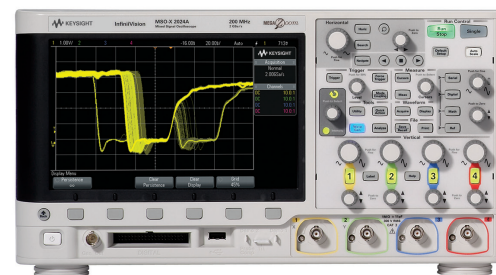
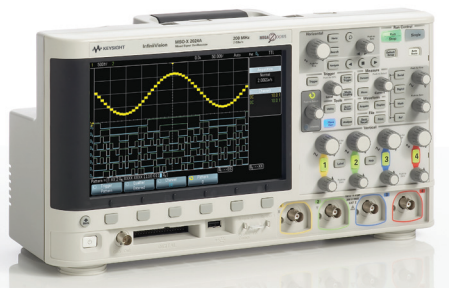


Keysight Technologies

2000 X-Series versus Rigol DS1000CA/B Oscilloscopes

Competitive Comparison

The new Keysight Technologies, Inc. 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 and logic analyzer. Keysight-designed MegaZoom IV Custom ASIC technology allows you to see more signal detail with update rates of over 50,000 waveforms per second. Now with hardware serial decode and deeper memory.



InfiniiVision 2000 X-Series

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

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



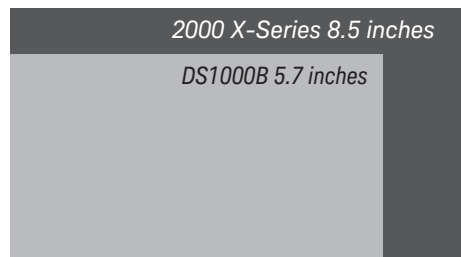
	Keysight 2000 X-Series		Rigol DS1000CA/B	
Bandwidth	70 MHz, 100 MHz, 200 MHz	✓	60 MHz, 100 MHz, 200 MHz, 300 MHz	✓
Upgradable bandwidth	Yes	✓	No	X
Sampling rate	Up to 2 GSa/s ¹	✓	Up to 1 GSa/s ¹	X
	Up to 2 GSa/s ²	✓	Up to 2 GSa/s ²	✓
Memory depth	Up to 1 M (2 channel models)	✓	Up to 10 kpts (2 channel model)	X
	Up to 1 M (4 channel models)	✓	Up to 16 kpts (4 channel model)	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	✓	Unspecified	X
Segmented memory	Yes	✓	Yes	✓
Hardware-based mask test	Yes	✓	No	X
Serial support	I ² C, SPI, RS232, CAN, LIN	✓	No	X
Hardware serial decode	Yes	✓	No	X

1. On 60/70 MHz models.
2. On 100 and 200 MHz models.
3. Applies to all orders on or after April 3, 2013.

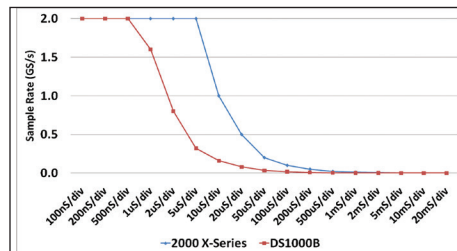
See more

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 DS1000A/B will miss
- Memory depth up to 1 M (> 60 to 100x the DS1000A/B) 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



> 6x the memory allows you to keep sample rates higher on longer time/div settings

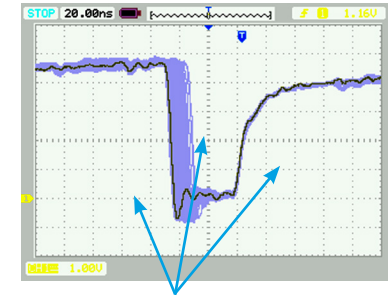
Do more

With the power of 5 instruments in 1:

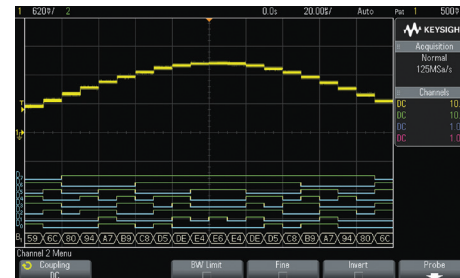
- Best-in-class oscilloscope provides features not normally found in this class of scope such as a large display, deep memory, and powerful triggering
 - Protocol analyzer provides protocol-aware triggering, decode, search, and navigation for serial buses.
 - Logic timing analyzer (MSO) is ideal for R&D engineers on a tight budget who need more than the traditional 2 or 4 analog channels.
 - Industry-exclusive WaveGen 20 MHz built-in function generator is ideal for educational or design labs where bench space and budget are limited
 - Integrated digital voltmeter provides a 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 and productivity:
- Upgradable bandwidth
 - Upgradable MSO
 - Upgradable memory
 - Upgradable WaveGen 20 MHz built-in function generator
 - Upgradable digital voltmeter
 - Optional measurement applications



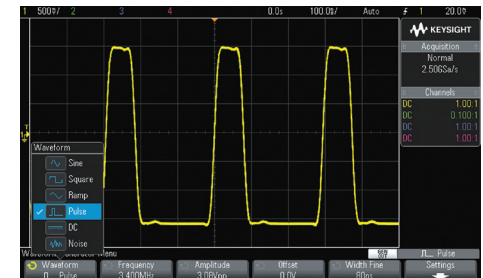
Infrequent glitch and signal jitter captured after 2 seconds on 2000 X-Series with > 50,000 wfms/s



DS1000B after 40 seconds—it never sees the glitches and shows limited signal jitter due to its significantly slower update rate



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 integrated 20-MHz function generator saves money and space

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

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Accelerate Technology Adoption. **Lower costs.**

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Keysight Services helps you improve productivity and product quality with our comprehensive service offerings of one-stop calibration, repair, asset management, technology refresh, consulting, training, and more.

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