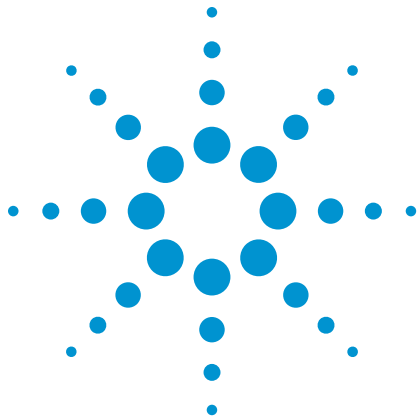


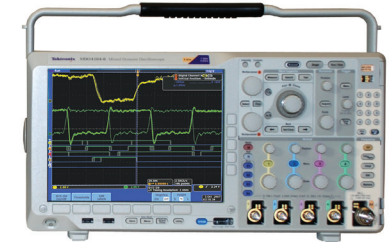


Industry Comparison Guide:

Agilent InfiniiVision 3000 X-Series versus Tektronix MDO4000 Series Oscilloscopes

Agilent's 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 5-in-1 product with a full-featured scope, logic analyzer, protocol analyzer, function/arbitrary waveform generator and digital voltmeter (DVM) all integrated into one design.

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.



InfiniiVision 3000 X-Series

- 1,000,000 wfms/s
- 5 instruments in 1
- Fully upgradable

Tektronix MDO	Agilent scope	Agilent spectrum analyzer
MDO4054-3	MSOX3054A	N9340B
MDO4054-6	MSOX3054A	N9342C
MDO4104-3	MSOX3104A	N9340B
MDP4104-6	MSOX3104A	N9342C

The Tektronix MDO4000 is a similar price to an Agilent InfiniiVision 3000 X-Series AND an Agilent Handheld Spectrum Analyzer combined.

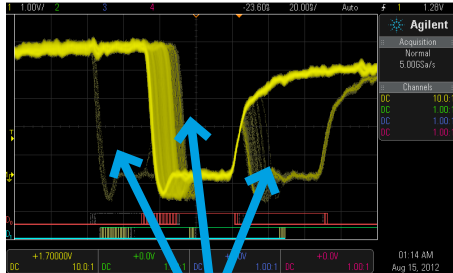
	Agilent 3000 X-Series		Tektronix MDO4000 Series	
Bandwidth	100/200/350/500 MHz, 1 GHz	✓	500 MHz, 1 GHz	x
Channels	2, 4 + 16 digital	✓	4 + 16 digital	✓
1 GHz all four channels	Yes	✓	No	x
Upgradable bandwidth	Yes	✓	No	x
Maximum sampling rate	4 GSa/s (100 to 500 MHz), 5 GSa/s (1 GHz)	✓	2.5 GSa/s (500 MHz), 5 GSa/s (1 GHz)	x
Maximum memory depth	4 Mpts	x	Up to 20 Mpts	✓
Segmented memory option	Yes	✓	No	x
Max update rate - Analog Ch only	1,000,000 wfms/s	✓	62,000 wfms/s	x
Max update rate - Analog and MSO	1,000,000 wfms/s	✓	90 wfms/s	x
Max update rate - Analog and MSO and Serial	1,000,000 wfms/s	✓	30 wfms/s	x
Max update rate - Analog, MSO, RF and Serial	N/A		1 update every 9 seconds	x
Display	8.5" WVGA	x	10.4" XGA LCD	✓
Integrated function generator/AWG	Yes	✓	No	x
Integrated digital voltmeter (DVM)	Yes	✓	No	x
Integrated spectrum analyzer	No	x	Yes	✓
Hardware based serial decode	Yes	✓	No, software based	x
Standard calibration time period	2 years	✓	1 year	x
Price				
Scope	Lower	✓	Higher	x
Scope + HSA	Same	✓	Same	✓



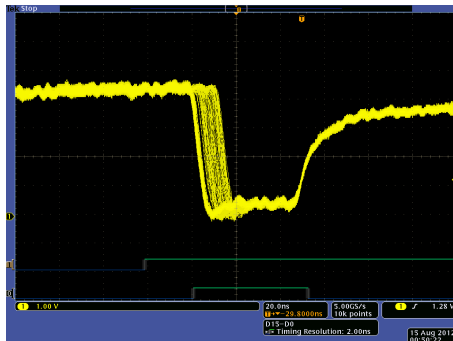
See more

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 DPO4000B will miss



Infrequent glitches and signal jitter captured after 1 second on 3000 X-Series, D0 and D1 turned on with > 1,000,000 wfms/s.



MDO4000 with D0 and D1 after 5 seconds, it never sees the glitches and shows limited signal jitter due to its slower update rate.



www.agilent.com

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

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

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5991-1030EN

Do more

With the power of 5 instruments in 1:

- Best-in-class oscilloscope**
Industry's only upgradable scope from 100 MHz through 1 GHz
- Protocol analyzer**
Hardware-based serial decode
- Logic timing analyzer (MSO)**
Integrated, upgradable MSO
- WaveGen 20 MHz built-in function/arbitrary waveform generator**
Industry-exclusive
- Integrated 3-digit voltmeter**
Industry-exclusive

Get more

Investment protection and productivity:

- Upgradable bandwidth through 1 GHz
- Upgradable MSO
- Upgradable memory
- Upgradable WaveGen 20 MHz built-in function/arbitrary waveform generator
- Upgradable Digital Voltmeter
- Upgradable measurement applications

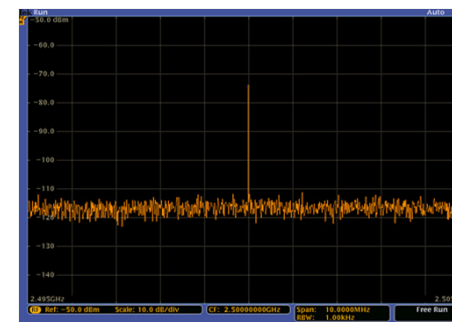
Buy an Agilent InfiniiVision 3000 X-Series AND an Agilent Handheld Spectrum Analyzer for a similar price as the Tektronix MDO4000.

Tek MDO4000 = compromised scope and built-in spectrum analyzer

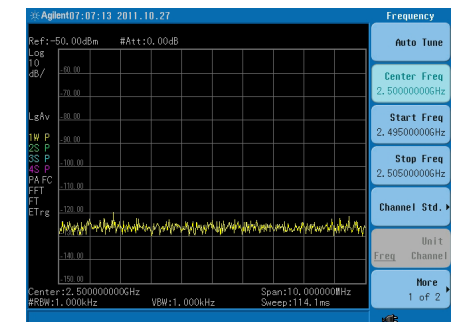
Agilent 3000X Scope + Agilent HSA = superior products in each domain for the *same price*

Agilent HSAs offers

- Better performance and insight on the signals of interest
- > 10 dB better DANL performance
- Better residual response performance which makes you confident with the measurement results
- No coupling of analog channels into RF channel, significant in the MDO4000
- Richer spectrum and signal analysis features needed when doing RF domain work



A typical residual response of MDO4000 which may impact measurement accuracy.



HSA has a clean spectrum with the same settings and > 10 dB better DANL.

Features	HSA	MDO4000
Task planner ¹	Yes	No
Channel scanner ¹	Yes	No
Tracking generator	Yes	No
Cable and antenna test ²	Yes	No
AM/FM demodulation metrics	Yes	No
ASK/FSK demodulation metrics	Yes	No
Spectrum emission mask	Yes	No
Limit lines, corrections	Yes	No
USB power meter	Yes	No
Remote control software	Yes	No

¹ Not available on N9340B HSA.

² Only available on N9342C HSA.



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