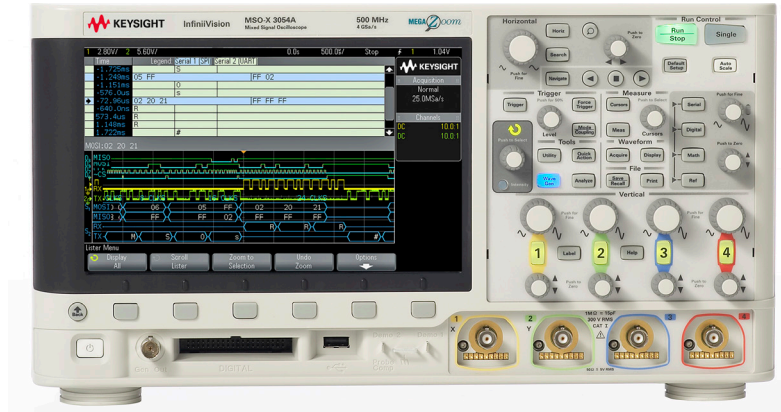


InfiniiVision 3000A X-Series

Oscilloscopes redefined: Breakthrough technology delivers more scope for the same budget

PRODUCT FACT SHEET



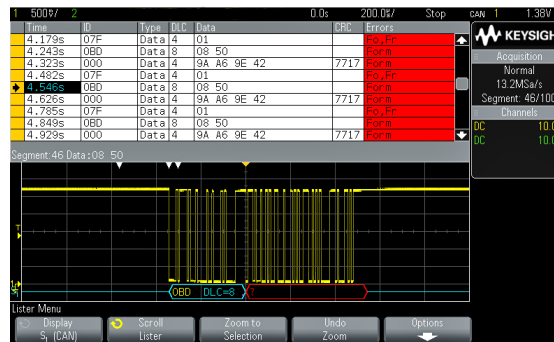
Key specifications

Bandwidth	100 MHz, 200 MHz, 350 MHz, 500 MHz, 1 GHz
Channels	2 or 4 analog channels (DSO) +16 digital channels (MSO)
Sample rate	Up to 5 GSa/s
Memory	Up to 4 Mpts (2 Mpts standard)
Display	8.5-inch WVGA (800 x 480)
Update rate	1,000,000 wfms/s
Upgradable	Bandwidth, MSO, measurement applications, and WaveGen
Calibration interval	2 year
Connectivity	USB host (one front, one back), USB device, LAN (optional), GPIB (optional)
Secure environment	Provides compliance with NISPOM chapter 8 requirements (standard)



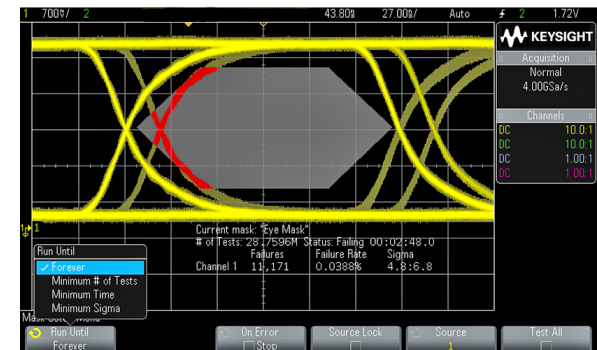
See more of your signal more of the time

- High resolution 8.5-inch display
- Up to 1,000,000 wfms/s update rate
- Fast, responsive **MegaZoom** IV deep memory, up to 4 M



Do more with the power of 6 instruments in 1

- Best-in-class oscilloscope
- Integrated 16 digital channel mixed signal oscilloscope (MSO) (optional)
- Serial protocol analyzer (optional)
- Industry-exclusive WaveGen built-in 20 MHz Function/Arbitrary WaveForm Generator (optional)
- Integrated digital voltmeter
- Integrated frequency counter



Get more investment protection with the industry's only fully upgradable scope

- Upgradable bandwidth
- Upgradable to MSO
- Upgradable to WaveGen 20 MHz Function/Arbitrary Waveform Generator
- Upgradable measurement applications
- 2-year recommended calibration interval

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Oscilloscope models

Model	Bandwidth	Maximum sample rate	Maximum memory	Analog channels	Digital channels
DSOX3012A	100 MHz	4 GSa/s	4 M	2	–
MSOX3012A	100 MHz	4 GSa/s	4 M	2	16
DSOX3014A	100 MHz	4 GSa/s	4 M	4	–
MSOX3014A	100 MHz	4 GSa/s	4 M	4	16
DSOX3024A	200 MHz	4 GSa/s	4 M	4	–
MSOX3024A	200 MHz	4 GSa/s	4 M	4	16
DSOX3032A	350 MHz	4 GSa/s	4 M	2	–
MSOX3032A	350 MHz	4 GSa/s	4 M	2	16
DSOX3034A	350 MHz	4 GSa/s	4 M	4	–
MSOX3034A	350 MHz	4 GSa/s	4 M	4	16
DSOX3052A	500 MHz	4 GSa/s	4 M	2	–
MSOX3052A	500 MHz	4 GSa/s	4 M	2	16
DSOX3054A	500 MHz	4 GSa/s	4 M	4	–
MSOX3054A	500 MHz	4 GSa/s	4 M	4	16
DSOX3102A	1 GHz	5 GSa/s	4 M	2	–
MSOX3102A	1 GHz	5 GSa/s	4 M	2	16
DSOX3104A	1 GHz	5 GSa/s	4 M	4	–
MSOX3104A	1 GHz	5 GSa/s	4 M	4	16

Accessories included

Standard SEC mode (Secure Environment), Certificate of Calibration, Documentation CD		
Standard probe	N2841A passive probe 150 MHz 10:1 attenuation	1 per channel included 100 MHz models
	N2842A passive probe 300 MHz 10:1 attenuation	1 per channel included 200 MHz models
	N2843A passive probe 500 MHz 10:1 attenuation	1 per channel included 350/500 MHz models
	N2756A 16 digital channel MSO cable	1 per scope included on all MSO models, DSOX3MSO and DSOXPERFMSO
Built-in help language support for English, Japanese, simplified Chinese, traditional Chinese, Korean, German, French, Spanish, Russian, Portuguese and Italian		
Interface language support GUI menus: English, Japanese, simplified Chinese, traditional Chinese, Korean, German, French, Spanish, Russian, Portuguese and Italian		
Localized power cord		

After-purchase options

Model	Description
Software packages	
D3000GENA	Embedded software package: I ² C, SPI, UART (RS232/422/485), and I ² S serial trigger & decode, plus Mask Limit Testing, Enhanced Video Analysis, and Advanced Waveform Math.
D3000AUTA	Automotive software package: CAN, LIN, and FlexRay serial trigger & decode, plus Mask Limit Testing (CAN mask files available to download) and Advanced Waveform Math
D3000AERA	Aero software package: MIL-STD 1553 and ARINC 429 serial trigger & decode, plus Mask Limit Testing (standard mask files available to download) Enhanced Video Analysis, and Advanced Waveform Math
D3000PWRA	Power measurements & analysis software package: Power quality, current harmonics, switching loss, transient response, turn-on/off time, output ripple, efficiency, plus Mask Limit Testing and Advanced Waveform Math
D3000BDLA	Ultimate bundle software package: Includes all serial protocols and measurements contained in D3000GENA, D3000AUTA, D3000AERA, and D3000PWRA.
Hardware upgrade options	
DSOX3WAVEGEN	Built-in 20 MHz WaveGen function generator/AWG upgrade (license only)
DSOX3MSO	16 digital timing channels upgrade for ≤ 500 MHz BW models (license + MSO logic probe delivered separately)
DSOX3PERFMSO	16 digital timing channels upgrade for 1 GHz BW models (license + MSO logic probe delivered separately)
DSOX3MEMUP	Acquisition memory upgrade from 2 to 4 Mpts (license only)
DSOX3BW24	Bandwidth upgrade from 100 to 200 MHz, 4-ch models (license only)
DSOX3BW32 ¹	Bandwidth upgrade from 100 to 350 MHz, 2-ch models (return to Keysight service center)
DSOX3BW34 ¹	Bandwidth upgrade from 100 to 350 MHz, 4-ch models (return to Keysight service center)
DSOX3BW52	Bandwidth upgrade from 350 to 500 MHz, 2-ch models (license only)
DSOX3BW54	Bandwidth upgrade from 350 to 500 MHz, 4-ch models (license only)
DSOX3BW12 ¹	Bandwidth upgrade from 500 MHz to 1 GHz, 2-ch models (return to Keysight service center)
DSOX3BW14 ¹	Bandwidth upgrade from 500 MHz to 1 GHz, 4-ch models (return to Keysight service center)
Productivity tools	
D9010BSEO	Infiniium offline analysis software
D9010UDAA	User-definable application (UDA) PC-based test automation software
BV0004B	BenchVue oscilloscope control and automation software (standard)

1. Requires return to Keysight Service Center. All other products are licensed and customer installable.

Probing options

For complete list of compatible probes, see Keysight document 5968-8153EN.

Model	Description
N2841A	Passive probe 150 MHz 10:1 attenuation (1 per channel included 100 MHz models)
N2842A	Passive probe 300 MHz, 10:1 attenuation (1 per channel included 200 MHz models)
N2843A	Passive probe 500 MHz, 10:1 attenuation (1 per channel included 350/500 MHz and 1 GHz models)
N2756A	16 digital channel MSO cable (1 per scope included MSO models, DSOX3MSO and DSOXPERFMSO upgrades)
N2889A	Passive probe 350 MHz 10:1/1:1 switchable attenuation
10076C	Passive probe 250 MHz 100:1 attenuation
N2790A	Differential active probe 100 MHz ± 1.4 kV with AutoProbe interface
N2791A	Differential active probe 25 MHz ± 700 V
N2792A	Differential active probe 200 MHz ± 20 V
N2793A	Differential active probe 800 MHz ± 15 V
1146B	AC/DC current probe 100 kHz 100 A
1147B	AC/DC current probe 50 MHz 15 A with AutoProbe interface
N2795A	Single-ended active probe 1 GHz ± 8 V with AutoProbe interface (limit 2)
N2796A	Single-ended 2 GHz active probe with the AutoProbe interface
N2893A	AC/DC current probe 100 MHz 15 A with AutoProbe interface
N2744A	T2A (Tektronix TekProbe interface to Keysight AutoProbe) probe interface adapter
N7040A	AC current probe 23 MHz, 3 kA
N7041A	AC current probe 30 MHz, 600 A
N7042A	AC current probe 30 MHz, 300 A

Accessories

Model	Description
DSOXLAN	Module - LAN and VGA
DSOXGPIB	Module - GPIB
N6456A	Rack mount kit
N6457A	Soft carrying case and front cover
N6458A	Hard copy manual
N2747A	Front panel cover only



Keysight Assurance Plans

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Up to ten years of protection and no budgetary surprises to ensure your instruments are operating to specification, so you can rely on accurate measurements.