Product Fact Sheet

Keysight InfiniiVision 3000A X-Series

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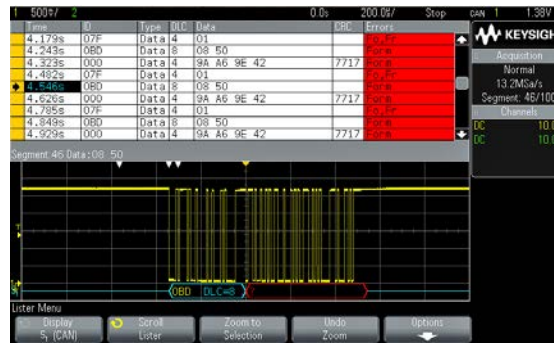

Key specifications

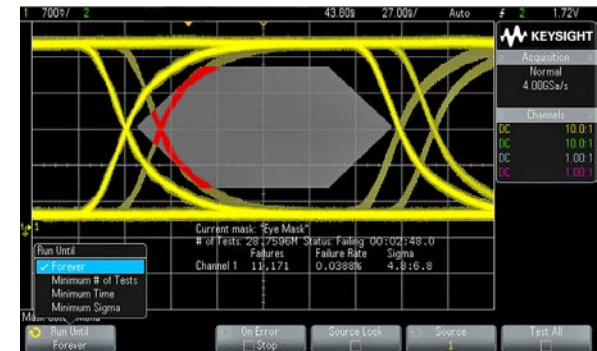|	
Bandwidth	100 MHz, 200 MHz, 350 MHz, 500 MHz, 1 GHz
Channels	2 or 4 analog channels (DSO)
	+16 digital channels (MSO)
Sample rate	Up to 5 GSa/s
Memory	Up to 4 Mpts (2 Mpts standard)
Display	8.5-inch WVGA (800 x 480)
Update rate	1,000,000 wfms/s
Upgradable	Bandwidth, MSO, measurement applications, integrated digital voltmeter 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 5 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 (optional)

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
– Upgradeable integrated digital voltmeter
– 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	N2862A passive probe 150 MHz 10:1 attenuation	1 per channel included 100 MHz models
	N2863A passive probe 300 MHz 10:1 attenuation	1 per channel included 200 MHz models
	N2890A passive probe 500 MHz 10:1 attenuation	1 per channel included 350/500 MHz models
	N6450-60001 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

Measurement options

Model	Description
DSOX3MemUp	Memory upgrade - 4 M
DSOX3MSO	MSO upgrade, 16 channel for 500 MHz models and below
DSOXPERFMSO	MSO upgrade, 16 channels for 1 GHz models
DSOX3WAVEGEN	Function/Arbitrary Waveform Generator upgrade
DSOXDVM	Integrated Digital Voltmeter
DSOX3MASK	Mask limit testing
DSOX3ADVMATH	Advanced waveform math functions
DSOX3VID	HDTV video triggering and measurement analysis
DSOX3PWR	Power measurement and analysis (Embedded in the scope)
DSOX3AERO	Aerospace triggering and analysis (MIL-STD 1553, ARINC 429)
DSOX3SGM	Segmented memory
DSOX3EMBD	Embedded serial triggering and analysis (I^{2}C, SPI)
DSOX3COMP	Computer serial triggering and analysis (RS232/422/485/UART)
DSOX3AUTO	Automotive serial triggering and analysis (CAN, LIN)
DSOX3FLEX	FlexRay triggering and analysis
DSOX3AUDIO	Audio serial triggering and analysis (I^{2}S)
33503A	Benchlink Waveform Builder Pro and Basic
DSOXEDK	Educator's oscilloscope training kit
N8900A	Infiniium offline oscilloscope analysis software
64997A	Keysight spectrum vsualizer (ASV)
DSOX3BW24	Bandwidth upgrade from 100 MHz to 200 MHz on 4 channel models
DSOX3BW32 [1]	Bandwidth upgrade from 100 MHz to 350 MHz on 2 channel models
DSOX3BW34 [1]	Bandwidth upgrade from 200 MHz to 350 MHz on 4 channel models
DSOX3BW52	Bandwidth upgrade from 350 MHz to 500 MHz on 2 channel models
DSOX3BW54	Bandwidth upgrade from 350 MHz to 500 MHz on 4 channel models
DSOX3BW12 [1]	Bandwidth upgrade from 500 MHz to 1 GHz on 2 channel models
DSOX3BW14 [1]	Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel models
N5467B/C	User-defined Application (UDA) software
Opt SEC	Secure Environment Mode (comes 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
N2862B	Passive probe 150 MHz 10:1 attenuation (1 per channel included 100 MHz models)
N2863B	Passive probe 300 MHz, 10:1 attenuation (1 per channel included 200 MHz models)
N2890A	Passive probe 500 MHz, 10:1 attenuation (1 per channel included 350/500 MHz and 1 GHz models)
N6450-60001	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

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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.

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