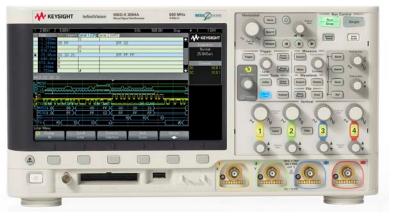
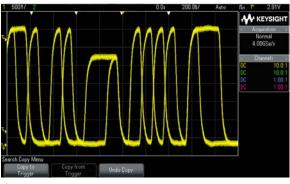
# Product Fact Sheet Keysight InfiniiVision 3000A X-Series

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





## 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

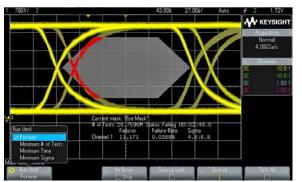


## Do more with the power of 5 instruments in 1

- 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)

### Key specifications

2		
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)	



# 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



#### Keysight | InfiniiVision 3000A X-Series - Product Fact Sheet

#### 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
	o language support for English, J Chinese, Korean, German, French	

an, German, French, Spanish, Russ e, r ш, г 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

DSOX3MemUpMemory upgrade - 4 MDSOX3MSOMSO upgrade, 16 channel for 500 MHz models and belowDSOX7PERFMSOMSO upgrade, 16 channels for 1 GHz modelsDSOX3WAVEGENFunction/Arbitrary Waveform Generator upgradeDSOX3MAXKMask limit testingDSOX3ADVMATHAdvanced waveform math functionsDSOX3ADVMATHAdvanced waveform math functionsDSOX3ADVMATHAdvanced waveform math functionsDSOX3VIDHDTV video triggering and measurement analysisDSOX3VRRPower measurement and analysis (Embedded in the scope)DSOX3EROAerospace triggering and analysis (intl-STD 1553, ARINC 429)DSOX3EMBDEmbedded serial triggering and analysis (I²C, SPI)DSOX3COMPComputer serial triggering and analysis (CAN, LIN)DSOX3AUTOAutomotive serial triggering and analysis (CAN, LIN)DSOX3AUDIOAudio serial triggering and analysis (I²S)33503ABenchlink Waveform Builder Pro and BasicDSOX3BW24Educator's oscilloscope training kitN8900AInfiniium offline oscilloscope analysis software64997AKeysight spectrum vsualizer (ASV)DSOX3BW321Bandwidth upgrade from 100 MHz to 350 MHz on 2 channel modelsDSOX3BW54Bandwidth upgrade from 350 MHz to 500 MHz on 4 channel modelsDSOX3BW54Bandwidth upgrade from 350 MHz to 1 GHz on 2 channel modelsDSOX3BW11Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel modelsDSOX3BW14Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel modelsDSOX3BW14Bandwidth upgrade from 500 MHz to 1 GHz o	Model	Description	
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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   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   DSOX3BW14 1 Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel models   DSOX3BW14 1 Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel models   DSOX3BW14 1 Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel models   N5467B/C User-defined Application (UDA) software	64997A		
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   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   DSOX3BW14 1 Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel models   N5467B/C User-defined Application (UDA) software	DSOX3BW24		
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 <sup>1</sup> Bandwidth upgrade from 500 MHz to 1 GHz on 2 channel models   DSOX3BW14 <sup>1</sup> Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel models   DSOX3BW14 <sup>1</sup> Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel models   DSOX3BW14 <sup>1</sup> Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel models   NS467B/C User-defined Application (UDA) software	DSOX3BW32 <sup>1</sup>		
2 channel models   DSOX3BW54 Bandwidth upgrade from 350 MHz to 500 MHz on 4 channel models   DSOX3BW12 <sup>1</sup> Bandwidth upgrade from 500 MHz to 1 GHz on 2 channel models   DSOX3BW14 <sup>1</sup> Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel models   DSOX3BW14 <sup>1</sup> Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel models   N5467B/C User-defined Application (UDA) software	DSOX3BW34 <sup>1</sup>		
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	DSOX3BW52		
models     DSOX3BW14 <sup>-1</sup> Bandwidth upgrade from 500 MHz to 1 GHz on 4 channel models     N5467B/C   User-defined Application (UDA) software	DSOX3BW54		
models     N5467B/C   User-defined Application (UDA) software	DSOX3BW12 <sup>1</sup>		
	DSOX3BW14 <sup>1</sup>		
Opt SEC Secure Environment Mode (comes standard)	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.

#### www.keysight.com/find/3000X-Series

## Probing options

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

#### Model Description

mouct	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 $\pm$ 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 $\pm$ 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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