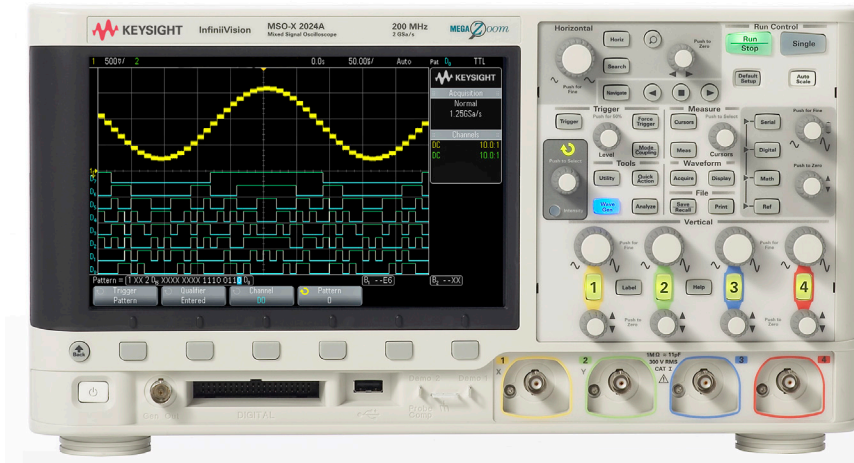


# Keysight InfiniiVision 2000 X-Series

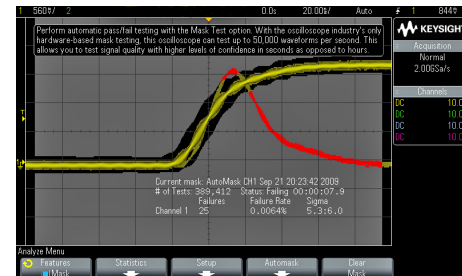
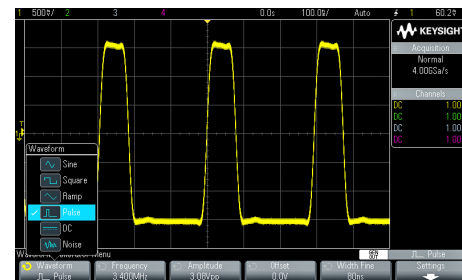
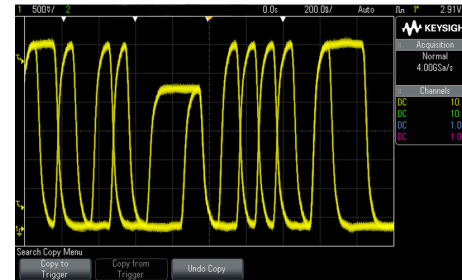
## Oscilloscopes redefined

Breakthrough technology delivers more scope for the same budget



### Key specifications

Bandwidth	70 MHz, 100 MHz, 200 MHz
Channels	2 or 4 analog channels (DSO) +8 digital channels (MSO)
Sample rate	Up to 2 GSa/s
Memory	1 Mpt per channel
Display	8.5-inch WVGA (800 x 480)
Update rate	200,000 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)



## See more

- of your signal more of the time
- High resolution 8.5-inch display
  - Up to 200,000 wfms/s update rate
  - Fast, responsive *MegaZoom IV* deep memory, up to 1 Mpt per channel

## Do more

- with the power of 5 instruments in 1
- Best-in-class oscilloscope
  - Integrated 8-channel mixed signal oscilloscope (MSO) (optional)
  - Serial protocol analyzer (optional)
  - Industry-exclusive WaveGen built-in function generator (optional)
  - Integrated digital voltmeter

## Get more

- investment protection with the industry's only fully upgradable scope
- Upgradable bandwidth
  - Upgradable MSO
  - Upgradable WaveGen built-in 20 MHz function generator
  - Upgradable integrated digital voltmeter
  - Upgradable measurement applications
  - 2-year recommended calibration interval

## Oscilloscope models

Model	Bandwidth	Maximum sample rate	Maximum memory	Analog channels	Digital channels
DSO-X 2002A	70 MHz	2 GSa/s	1 Mpt per channel	2	–
MSO-X 2002A	70 MHz	2 GSa/s	1 Mpt per channel	2	8
DSO-X 2004A	70 MHz	2 GSa/s	1 Mpt per channel	4	–
MSO-X 2004A	70 MHz	2 GSa/s	1 Mpt per channel	4	8
DSO-X 2012A	100 MHz	2 GSa/s	1 Mpt per channel	2	–
MSO-X 2012A	100 MHz	2 GSa/s	1 Mpt per channel	2	8
DSO-X 2014A	100 MHz	2 GSa/s	1 Mpt per channel	4	–
MSO-X 2014A	100 MHz	2 GSa/s	1 Mpt per channel	4	8
DSO-X 2022A	200 MHz	2 GSa/s	1 Mpt per channel	2	–
MSO-X 2022A	200 MHz	2 GSa/s	1 Mpt per channel	2	8
DSO-X 2024A	200 MHz	2 GSa/s	1 Mpt per channel	4	–
MSO-X 2024A	200 MHz	2 GSa/s	1 Mpt per channel	4	8

## Measurement options

Model	Description
DSOX2MSO	MSO upgrade, 8 channel
DSOX2WAVEGEN	Function generator upgrade
DSOX2VDM	Integrated digital voltmeter
DSOX2MASK	Mask limit testing
DSOX2EMBD	Embedded serial triggering and analysis (I <sup>2</sup> C, SPI)
DSOX2COMP	Computer serial triggering and analysis (RS232/422/485/UART)
DSOX2AUTO	Automotive serial triggering and Analysis (CAN, LIN)
33503A	Benchlink waveform builder pro and basic
N8900A	InfiniiView oscilloscope analysis software
Opt SEC	Secure environment mode (Comes standard)
DSOX2BW12	Bandwidth upgrade from 70 MHz to 100 MHz on 2 channel models
DSOX2BW14	Bandwidth upgrade from 70 MHz to 100 MHz on 4 channel models
DSOX2BW22	Bandwidth upgrade from 100 MHz to 200 MHz on 2 channel models
DSOX2BW24	Bandwidth upgrade from 100 MHz to 200 MHz on 4 channel models
N5467B/C	User-defined Application (UDA) software

All products are licensed and customer installable.

[www.keysight.com/find/2000X-Series](http://www.keysight.com/find/2000X-Series)

## Probing options

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)
N6459-60001	8 digital channel MSO cable (1 per scope on all MSO models and on DSOX2MSO upgrades)
N2889A	Passive probe 350 MHz 10:1/1:1 switchable attenuation
10076B	Passive probe 250 MHz 100:1 attenuation
N2791A	Differential active probe 25 MHz ±700 V
N2792A	Differential active probe 200 MHz ±20 V
N2793A	Differential active probe 800 MHz ±15 V
N2891A	Differential active probe 70 MHz ±7 kV
1146A	AC/DC current probe 100 kHz 100 A
N2780B	AC/DC current probe 2 MHz 500 A (requires N2779A power supply)
N2781B	AC/DC current probe 10 MHz 150 A (requires N2779A power supply)
N2782B	AC/DC current probe 50 MHz 30 A (requires N2779A power supply)
N2783B	AC/DC current probe 100 MHz 30 A (requires N2779A power supply)
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 included

Standard SEC mode (Secure Environment)		
Standard probe	N2862A 150 MHz, 10:1 passive probe	Standard one per channel for 70 and 100 MHz models
	N2863A 300 MHz, 10:1 passive probe	Standard one per channel for 200 MHz models
	N2755-60001 8-channel logic probe and accessory kit	Standard on MSO models or with DSOX2MSO upgrade
Built-in help language support for English, Japanese, simplified Chinese, traditional Chinese, Korean, German, French, Spanish, Russian, Portuguese, Italian, Polish, and Thai		
Certificate of Calibration Documentation CD		
Interface language support GUI menus: English, Japanese, simplified Chinese, traditional Chinese, Korean, German, French, Spanish, Russian, Portuguese, Italian, Polish, and Thai		
Localized power cord		

## 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

[www.keysight.com/find/AssurancePlans](http://www.keysight.com/find/AssurancePlans)

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.