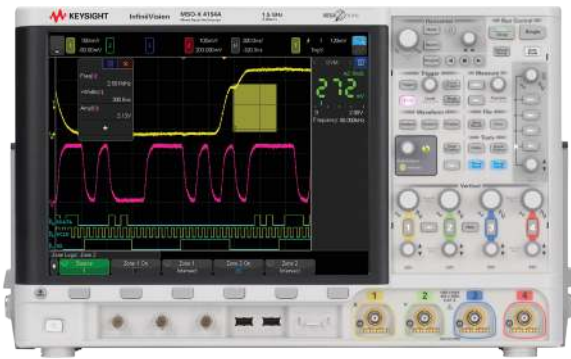


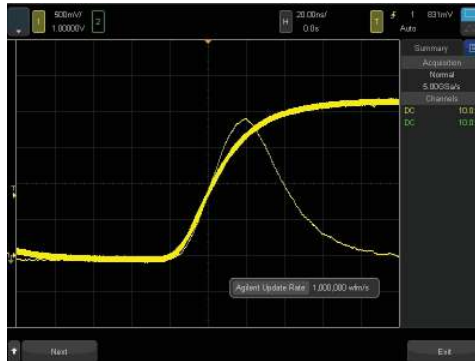
# Keysight InfiniiVision 4000 X-Series Oscilloscopes

The oscilloscope experience redefined



## Key specifications

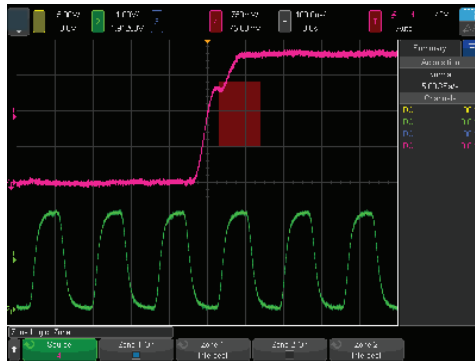
Bandwidth	200 MHz, 350 MHz, 500 MHz, 1 GHz, 1.5 GHz
Channels	2 or 4 analog channels (DSO) + 16 digital channels (MSO)
Sample rate	5 GSa/s
Memory	Standard 4 Mpts, Standard segmented memory
Display	12.1-inch capacitive touch display
Update rate	1,000,000 waveforms per second
Trigger	InfiniiScan Zone touch trigger 21 standard trigger modes
Upgradable	Bandwidth, MSO, integrated digital voltmeter, integrated dual-channel WaveGen, serial analysis, and other measurement applications
Warranty	3 year
Calibration	2-year interval
Connectivity	USB 2.0 (host x3, device x1), LAN, VGA out, GPIB (option)



## Experience the speed

Find even more of your most intermittent signal anomalies

- 1,000,000 waveforms/sec update rate
- Uncompromised MegaZoom IV smart memory
- Standard segmented memory



## Experience the usability

Quickly debug your design with an oscilloscope designed for touch

- Industry's largest 12.1-inch display
- Only capacitive touch screen
- Exclusive InfiniiScan Zone touch triggering



## Experience the integration

Get the power of 5 instruments in 1, fully upgradable

- Best-in-class oscilloscope
- Integrated 16 digital channels on MSO models
- Serial protocol analyzer (optional)
- Industry-exclusive WaveGen built-in, dual-channel function/arbitrary waveform generator (optional)
- Integrated 3-digit voltmeter (optional)

Industry-exclusive features <sup>1</sup>	Mean tangible advantages for you
1 million waveforms/sec update rate	You are able to see more signal detail and infrequent anomalies than with any other scope
Capacitive touch screen	Unprecedented usability speeds setup and debugging
InfiniiScan Zone touch triggering	Simply touch the display to trigger on anything you see
Standard segmented memory	Turns your scope into an efficient ultra-deep memory scope that captures only the events you care about
Complete oscilloscope upgradability	Protect your investment with the ability to add bandwidth, MSO, WaveGen, DVM, or serial bus debugging applications at any time after purchase

1. Embedded OS oscilloscope market.

## Oscilloscope models

Model	Bandwidth	Max sample rate	Memory	Channels
DSOX4022A	200 MHz	5 GSa/s	4 Mpts	2
M5OX4022A	200 MHz	5 GSa/s	4 Mpts	2 + 16
DSOX4024A	200 MHz	5 GSa/s	4 Mpts	4
M5OX4024A	200 MHz	5 GSa/s	4 Mpts	4 + 16
DSOX4032A	350 MHz	5 GSa/s	4 Mpts	2
M5OX4032A	350 MHz	5 GSa/s	4 Mpts	2 + 16
DSOX4034A	350 MHz	5 GSa/s	4 Mpts	4
M5OX4034A	350 MHz	5 GSa/s	4 Mpts	4 + 16
DSOX4052A	500 MHz	5 GSa/s	4 Mpts	2
M5OX4052A	500 MHz	5 GSa/s	4 Mpts	2 + 16
DSOX4054A	500 MHz	5 GSa/s	4 Mpts	4
M5OX4054A	500 MHz	5 GSa/s	4 Mpts	4 + 16
DSOX4104A	1 GHz	5 GSa/s	4 Mpts	4
M5OX4104A	1 GHz	5 GSa/s	4 Mpts	4 + 16
DSOX4154A	1.5 GHz	5 GSa/s	4 Mpts	4
M5OX4154A	1.5 GHz	5 GSa/s	4 Mpts	4 + 16

[www.keysight.com/find/4000X-Series](http://www.keysight.com/find/4000X-Series)

## Bandwidth and MSO upgrade options

Model	Description
DSOX4B2T32U	Service center bandwidth upgrade from 200 to 350 MHz, 2 ch models
DSOX4B2T34U	Service center bandwidth upgrade from 200 to 350 MHz, 4 ch models
DSOX4B3T52U	Licensed bandwidth upgrade from 350 to 500 MHz, 2 ch models
DSOX4B3T54U	Licensed bandwidth upgrade from 350 to 500 MHz, 4 ch models
DSOX4B5T104U	Service center bandwidth upgrade from 500 MHz to 1 GHz, 4 ch models
DSOX4B1T154U	Service center bandwidth upgrade from 1 GHz to 1.5 GHz, 4 ch models
DSOX4B2T52U	Service center bandwidth upgrade from 200 to 500 MHz, 2 ch models
DSOX4B2T54U	Service center bandwidth upgrade from 200 to 500 MHz, 4 ch models
DSOX4B2T104U	Service center bandwidth upgrade from 200 to 1 GHz, 4 ch models
DSOX4B2T154U	Service center bandwidth upgrade from 200 to 1.5 GHz, 4 ch models
DSOX4B3T104U	Service center bandwidth upgrade from 350 to 1 GHz, 4 ch models
DSOX4B3T154U	Service center bandwidth upgrade from 350 to 1.5 GHz, 4 ch models
DSOX4B5T154U	Service center bandwidth upgrade from 500 to 1.5 GHz, 4 ch models
DSOXPERFMSO	DSO to MSO upgrade

## Accessories

Model	Description
N2750A	1.5 GHz InfiniiMode differential active probe
N2795A	1 GHz active single-ended probe (recommended)
N2763A	Rackmount kit
N2733A	Soft carrying case
N2894A	700 MHz 10:1 passive probe (1 per ch included standard)
N2821A	1-channel high-sensitivity current probe
N2820A	2-channel high-sensitivity current probe
N4865A	GPIB connection module
N6455A	Hard copy manual

For probing information, see the Keysight Oscilloscope Probes and Accessories Selection Guide, publication number 5989-6162EN.

## Measurements options

Model	Description
DSOX4AERO	MIL-STD 1553 & ARINC 429 serial triggering and analysis
DSOX4AUDIO	Audio serial triggering and analysis (I <sup>2</sup> S)
DSOX4AUTO	Automotive serial triggering and analysis (CAN/LIN)
DSOX4COMP	Computer serial triggering and analysis (RS232/UART)
DSOX4EMBD	Embedded serial triggering and analysis (I <sup>2</sup> C, SPI)
DSOX4FLEX	FlexRay serial triggering and analysis
DSOX4USBFL	USB 2.0 full/low speed serial decode and triggering
DSOX4USBH	USB 2.0 hi-speed serial decode and triggering
DSOX4USBSQ	USB 2.0 signal quality test
DSOXDVM	Integrated digital voltmeter (DVM)
DSOXEDK	Education and training kit
DSOX4FPGAX	FPGA dynamic probe option for Xilinx
DSOX4MASK	Mask limit testing
DSOX4PWR	Power analysis application
DSOX4VID	Enhanced video/TV application package
DSOX4WAVEGEN2	Dual-channel 20 MHz WaveGen function/arbitrary waveform generator
N8900A	InfiniiView oscilloscope analysis software
64997A	Keysight spectrum visualizer (ASV)
89601B	Vector signal analyzer software (Ver.16 and higher only)
33503A	BenchLink waveform builder pro and basic



### Three-Year Warranty

[www.keysight.com/find/ThreeYearWarranty](http://www.keysight.com/find/ThreeYearWarranty)  
Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.

### Keysight Assurance Plans

[www.keysight.com/find/AssurancePlans](http://www.keysight.com/find/AssurancePlans)  
Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.