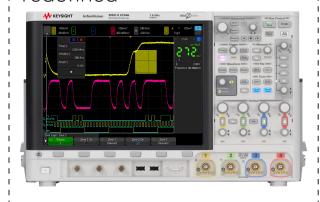
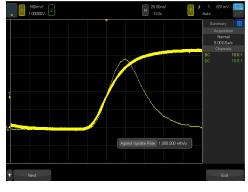
### Keysight InfiniiVision 4000 X-Series Oscilloscopes

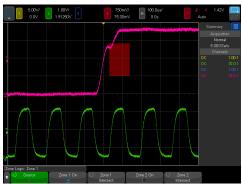
# The oscilloscope experience redefined



#### Key specifications

- 1	
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, serial bus debugging applications at any time after purchase	

<sup>1.</sup> Embedded OS oscilloscope market.

#### Oscilloscope models

Model	Bandwidth	Max sample rate	Memory	Channels
DS0X4022A	200 MHz	5 GSa/s	4 Mpts	2
MSOX4022A	200 MHz	5 GSa/s	4 Mpts	2 + 16
DSOX4024A	200 MHz	5 GSa/s	4 Mpts	4
MSOX4024A	200 MHz	5 GSa/s	4 Mpts	4 + 16
DSOX4032A	350 MHz	5 GSa/s	4 Mpts	2
MSOX4032A	350 MHz	5 GSa/s	4 Mpts	2 + 16
DSOX4034A	350 MHz	5 GSa/s	4 Mpts	4
MSOX4034A	350 MHz	5 GSa/s	4 Mpts	4 + 16
DSOX4052A	500 MHz	5 GSa/s	4 Mpts	2
MSOX4052A	500 MHz	5 GSa/s	4 Mpts	2 + 16
DSOX4054A	500 MHz	5 GSa/s	4 Mpts	4
MSOX4054A	500 MHz	5 GSa/s	4 Mpts	4 + 16
DS0X4104A	1 GHz	5 GSa/s	4 Mpts	4
MSOX4104A	1 GHz	5 GSa/s	4 Mpts	4 + 16
DSOX4154A	1.5 GHz	5 GSa/s	4 Mpts	4
MSOX4154A	1.5 GHz	5 GSa/s	4 Mpts	4 + 16

www.keysight.com/find/4000X-Series

#### Bandwidth and MSO upgrade options

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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
DS0X4B3T52U	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
DS0X4B2T54U	Service center bandwidth upgrade from 200 to 500 MHz, 4 ch models
DS0X4B2T104U	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
DS0X4B3T104U	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
N7040A	AC current probe 23 MHz, 3 kA
N7041A	AC current probe 30 MHz, 600 A
N7042A	AC current probe 30 MHz, 300 A
N7026A	AC/DC high-sensitivity current probe, 150 MHz, 40 Apk with AutoProbe

#### Measurements options

Model	Description
DS0X4AERO	MIL-STD 1553 & ARINC 429 serial triggering and analysis
DS0X4AUDI0	Audio serial triggering and analysis (I2S)
DS0X4AUT0	Automotive serial triggering and analysis (CAN/LIN)
DS0X4C0MP	Computer serial triggering and analysis (RS232/ UART)
DS0X4EMBD	Embedded serial triggering and analysis (I <sup>2</sup> C, SPI)
DSOX4FLEX	FlexRay serial triggering and analysis
DS0X4USBFL	USB 2.0 full/low speed serial decode and triggering
DS0X4USBH	USB 2.0 hi-speed serial decode and triggering
DS0X4USBSQ	USB 2.0 signal quality test
DSOX4UPD	USB power delivery serial decode and triggering
DS0X4CXPI	CXPI serial decode and triggering
DS0X4NRZ	User-definable Manchester/NRZ serial decode and triggering
DS0X4NFC	NFC trigger and automated test software
DSOX4MASK	Mask limit testing
DS0X4PWR	Power analysis application
DS0X4VID	Enhanced video/TV application package
DSOX4WAVEGEN2	Dual-channel 20 MHz WaveGen function/arbitrary waveform generator
N8900A	InfiniiView oscilloscope analysis software
N5467B/C	User-defined Application (UDA) PC-based test automation software
64997A	Keysight spectrum visualizer (ASV)
89601B	Vector signal analyzer software (Ver.16 and higher only)
BV0004B	BenchVue oscilloscope control and automation

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



## Keysight Assurance Plans 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.

