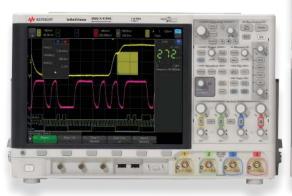
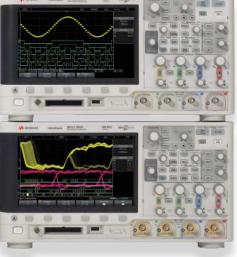
Keysight Technologies InfiniiVision 4000 X-Series Oscilloscopes

Data Sheet







InfiniiVision 4000 X-Series Oscilloscopes

The Keysight Technologies, Inc. next-generation oscilloscopes offer waveform update rates 20 times faster than any other oscilloscope in this class. With the latest capacitive touch screen technology and innovative InfiniiScan Zone touch triggering, your oscilloscope experience will be completely redefined.

Experience the speed

Find even more of your most intermittent signal anomalies

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



Patented MegaZoom IV smart memory gives you more confidence in your design with uncompromised responsiveness, even with MSO, serial protocol decode, math functions and measurements turned on

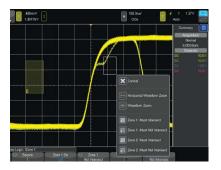
Industry's first capacitive touch screen dramatically speeds setup and operation for unprecedented usability in an embedded OS scope.

Industry's largest display of 12.1 inches gives you more visibility.

Experience the usability

Quickly debug your design with an oscilloscope designed for touch

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



Experience the integration

Get the power of 5 instruments in 1, fully upgradable

- Best-in-class oscilloscope
- 16 digital channels on MSO models and upgrade
- Hardware-based serial protocol analyzer (optional)
- Industry-exclusive WaveGen dual-channel function/arbitrary waveform generator (optional)
- 3-digit voltmeter (optional)



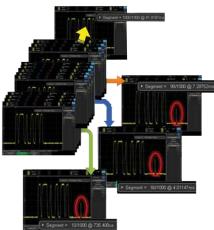
The industry-leading 1,000,000 wfms/sec update rate lets you troubleshoot problems by showing you more signal detail than any other scope in this class.

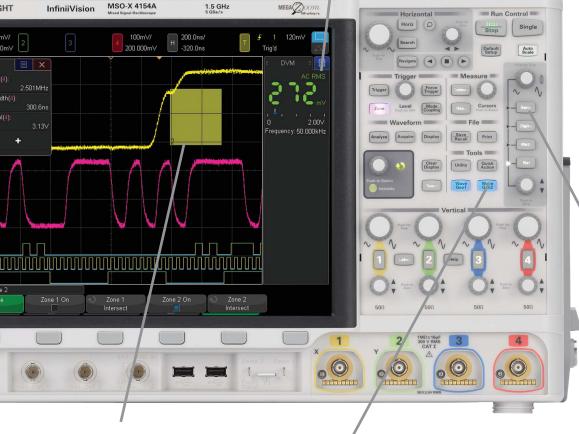
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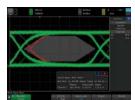
The industry's only integrated 3-digit voltmeter provides DVM capabilities via the scope probes.



Standard segmented memory intelligently utilizes the acquisition memory to capture just the signal of interest to y ou, resulting in an effective ultra-deep memory oscilloscope.



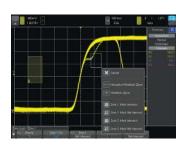




The mask testing option tests devices to your parameters at 270,000 tests per second.

Take advantage of the largest set of application solutions in the industry including serial bus triggering and decode support.

InfiniiScan Zone touch triggering accomplishes advanced triggering with ease. If you can see it, you can trigger on it by simply drawing a box on screen.



Industry's only integrated dual-channel WaveGen 20 MHz function/arbitrary waveform generator lets you simulate a variety of function and arbitrary waveforms including differential signals, clock and data signals, modulations and more in a single instrument.





InfiniiVision 4000 X-Series Oscilloscopes

4000 X-Series oscilloscopes				
Model	Bandwidth	Sample Rate	Memory	Channels
DS0X4022A	200 MHz	5 GSa/s	4 Mpts	2
MS0X4022A	200 MHz	5 GSa/s	4 Mpts	2 + 16
DS0X4024A	200 MHz	5 GSa/s	4 Mpts	4
MS0X4024A	200 MHz	5 GSa/s	4 Mpts	4 + 16
DS0X4032A	350 MHz	5 GSa/s	4 Mpts	2
MS0X4032A	350 MHz	5 GSa/s	4 Mpts	2 + 16
DSOX4034A	350 MHz	5 GSa/s	4 Mpts	4
MS0X4034A	350 MHz	5 GSa/s	4 Mpts	4 + 16
DS0X4052A	500 MHz	5 GSa/s	4 Mpts	2
MS0X4052A	500 MHz	5 GSa/s	4 Mpts	2 + 16
DS0X4054A	500 MHz	5 GSa/s	4 Mpts	4
MS0X4054A	500 MHz	5 GSa/s	4 Mpts	4 + 16
DS0X4104A	1 GHz	5 GSa/s	4 Mpts	4
MS0X4104A	1 GHz	5 GSa/s	4 Mpts	4 + 16
DS0X4154A	1.5 GHz	5 GSa/s	4 Mpts	4
MS0X4154A	1.5 GHz	5 GSa/s	4 Mpts	4 + 16

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	DSOX4B5T154U	Service center bandwidth upgrade from 500 to 1.5 GHz, 4 ch
DS0XPERFMS0 DS0 to MS0 upgrade	DS0XPERFMS0	DSO to MSO upgrade

	Applications
Model	Description
DS0X4EMBD	Embedded serial triggering and analysis (I ² C, SPI)
DS0X4C0MP	Computer serial triggering and analysis (RS232/UART)
DS0X4USBFL	USB 2.0 full/low speed serial decode and triggering
DS0X4USBH *	USB 2.0 hi-speed serial decode and triggering
DS0X4AUT0	Automotive serial triggering and analysis (CAN/LIN)
DS0X4FLEX	FlexRay serial triggering and analysis
DS0X4AUDI0	Audio serial triggering and analysis (I ² S)
DSOX4AERO	Aerospace and defense serial triggering and decode (MIL- STD 1553 and ARINC 429)
DSOX4WAVEGEN2	Dual-channel WaveGen 20 MHz arbitrary/function generator
DSOXDVM	3-digit voltmeter (DVM)
DS0X4PWR	Power analysis application
DS0X4MASK	Mask limit testing
DS0X4VID	Enhanced video/TV application package
DS0X4FPGAX	FPGA dynamic probe option for Xilinx
DSOXEDK	Education and training kit
N8900A	InfiniiView oscilloscope analysis software
64997A	Keysight spectrum visualizer (ASV)
89601B	Vector signal analyzer software (version 15 and higher)
33503A	BenchLink waveform builder pro and basic

Probes		
Model	Description	
N2894A	Passive probe 700 MHz, 10:1, 10 $M\Omega$ (included standard. 1 per scope channel)	
N6450-60001	16 digital channel MSO cable (included on MSOX & DSOXPERFMSO)	
10076B	High-voltage passive probe (250 MHz, 4 kV)	
N2795A	1 GHz / 1 pF / 1 $M\Omega$ active single-ended probe with AutoProbe	
N2796A	2 GHz / 1 pF / 1 $M\Omega$ active single-ended probe with AutoProbe	
N2750A	InfiniiMode 1.5 GHz differential probe with AutoProbe	
N2790A	Differential active probe 100 MHz, ±1.4 kV with AutoProbe	
N2791A	Differential active probe 25 MHz, ±700 V	
N2792A	Differential active probe 200 MHz, ±20V	
N2793A	Differential active probe 800 MHz, ±15V	
1147B	AC/DC Current probe 50 MHz 15 A with AutoProbe	
N2893A	AC/DC current probe 100 MHz 15 A with AutoProbe	

For a complete list of compatible probes, visit www.kesight.com/find/scope_probes.

Model	Description
N4865A	GPIB-to-LAN external adapter
N2763A	Rackmount kit
N2733A	Soft carrying case
N6455A	Hard copy manual

For more information please visit: www.kesight.com/find/4000X-Series

 $[\]ensuremath{^*}$ Only available for 1 GHz or 1.5 GHz models.

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