

# Keysight InfiniiVision 3000T X-Series Oscilloscopes



Touch  
Discover  
Solve

## Key features

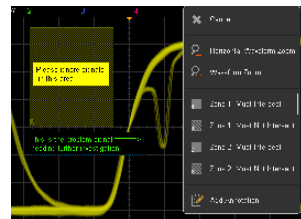
Features	Descriptions
Bandwidth	100, 200, 350, 500 MHz, 1 GHz
Channels	2 or 4 analog channels (DSO) + 16 digital channels (MSO)
Max sample rate	5 GSa/s
Max memory	4 Mpts
Display	8.5 inch capacitive touch display
Wfm update rate	> 1,000,000 waveforms per second
Trigger	InfiniiScan Zone touch trigger + standard trigger modes
Advanced math	Standard, display 1 function and FFT simultaneously
Connectivity	USB2.0 (mouse & keyboard support), optional LAN, video, GPIB
Upgradability	Bandwidth, MSO, WaveGen, serial protocol trigger and decode, DVM, 8-digit counter and other applications
Analysis	Segmented memory, search/navigate, advanced math functions, limit/mask test (option), gated FFT
Serial protocol options	I <sup>2</sup> C, SPI, UART, CAN, CAN-FD, CAN symbolic, SENT, LIN, FlexRay, I <sup>2</sup> S, MIL-STD1553, ARINC429



## Touch

Increase productivity with capacitive touch screen technology

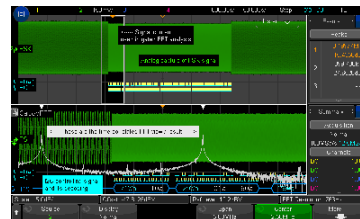
- 8.5-inch capacitive touch screen with gesture support
- Four on-screen annotations and a touch interface simplifies documentation
- Reconfigurable side bar provides full customization



## Discover

Identify anomalies with the fast waveform update, then isolate with zone trigger

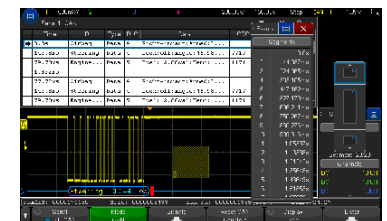
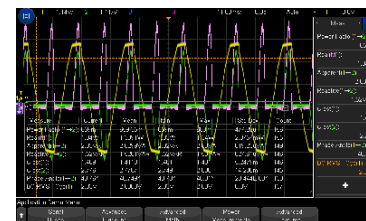
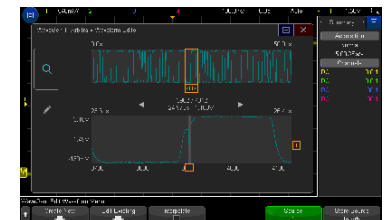
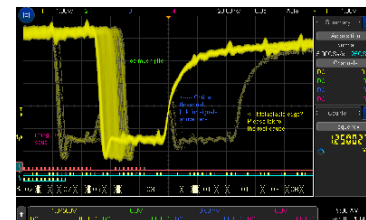
- Uncompromised > 1,000,000 wfms/sec update rate, even with digital channels, measurements, functions, or serial decoding on
- Hardware-based zone touch trigger with two-zone support
- Standard segmented memory and advanced math



## Solve

Find the root cause and solve your analog, digital, and frequency domain problems

- 6-in-1 instrument with integrated 16 digital channels, protocol analysis, arbitrary/function generator, 3-digit DVM, 8-digit counter/totalizer
- Time/frequency domain correlation measurements with gated FFT and peak search
- BenchVue next-generation remote connectivity solution and Infiniium Offline scope data analysis tool



## Key specifications

InfiniiVision 3000T X-Series oscilloscope models											
		3012T	3014T	3022T	3024T	3032T	3034T	3052T	3054T	3102T	3104T
Bandwidth * (– 3 dB)		100 MHz		200 MHz		350 MHz		500 MHz		1 GHz	
Input channels	DSOX	2	4	2	4	2	4	2	4	2	4
	MSOX	2 + 16	4 + 16	2 + 16	4 + 16	2 + 16	4 + 16	2 + 16	4 + 16	2 + 16	4 + 16
Sampling rate		5 GSa/s half channel, 2.5 GSa/s all channel									
Memory depth		Standard 4 Mpts, standard segment memory									
Display size and type		8.5-inch capacitive touch display with standard zone trigger									
Waveform update rate		> 1,000,000 waveforms per second									
Integrations (6-in-1) (options)		Oscilloscope, logic analysis, protocol analysis, 20 MHz arbitrary/function generator, 3 digit DVM, 8 digit counter									

Model number	Recommended probes and accessories	Standard / Optional
<b>Probes</b>		
N2843A	Passive probe 500 MHz, 10:1	Standard (1 per channel)
N2756A	16 digital channel MSO cable	Standard on MSOX models and DSOX6MSO
N2870A	Passive probe 35 MHz, 1:1, 1 M $\Omega$	Optional
10076B	Passive probe 250 MHz 100:1 attenuation (4 kV)	Optional
N2795A	Active single-ended probe 1 GHz 1 pF 1 M $\Omega$ with AutoProbe	Optional
N2797A	Active single-ended probe 1.5 GHz extreme temperature	Optional
N2750A	InfiniiMode differential probe 1.5 GHz 700 fF 200 k $\Omega$ with AutoProbe	Optional
N2790A	Differential active probe 100 MHz, $\pm$ 1.4 kV with auto probe	Optional
N2791A	Differential active probe 250 MHz, $\pm$ 700 V	Optional
N2818A	200 MHz 10:1 Differential Probe with AutoProbe	Optional
N2819A	800 MHz 10:1 Differential Probe with AutoProbe	Optional
1147B	AC/DC Current probe 50 MHz 15 A with auto probe	Optional
N2893A	AC/DC current probe 100 MHz 15 A with auto probe	Optional
N2820A	2-channel high-sensitivity current probe 50 uA - 5 A	Optional
<b>Accessories</b>		
DSOXLAN	LAN/VGA connection module	Optional
DSOXGPIB	GPIB connection module	Optional
N2747A	Front panel cover	Optional
N6456A	Rack mount kit	Optional
N6457A	Soft carrying case with front panel cover	Optional



## 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.

Model number	Option description
<b>Bandwidth and digital channels</b>	
DSOXT3B1T22U	License only 100 MHz to 200 MHz upgrade, 2 ch
DSOXT3B1T32U	Service center 100 MHz to 350 MHz upgrade, 2 ch
DSOXT3B1T52U	Service center 100 MHz to 500 MHz upgrade, 2 ch
DSOXT3B1T102U	Service center 100 MHz to 1 GHz upgrade, 2 ch
DSOXT3B1T24U	License only 100 MHz to 200 MHz upgrade, 4 ch
DSOXT3B1T34U	Service center 100 MHz to 350 MHz upgrade, 4 ch
DSOXT3B1T54U	Service center 100 MHz to 500 MHz upgrade, 4 ch
DSOXT3B1T104U	Service center 100 MHz to 1 GHz upgrade, 4 ch
DSOXT3B2T32U	Service center 200 MHz to 350 MHz upgrade, 2 ch
DSOXT3B2T52U	Service center 200 MHz to 500 MHz upgrade, 2 ch
DSOXT3B2T102U	Service center 200 MHz to 1 GHz upgrade, 2 ch
DSOXT3B2T34U	Service center 200 MHz to 350 MHz upgrade, 4 ch
DSOXT3B2T54U	Service center 200 MHz to 500 MHz upgrade, 4 ch
DSOXT3B2T104U	Service center 200 MHz to 1 GHz upgrade, 4 ch
DSOXT3B3T52U	License only 350 MHz to 500 MHz upgrade, 2 ch
DSOXT3B3T102U	Service center 350 MHz to 1 GHz upgrade, 2 ch
DSOXT3B3T54U	License only 350 MHz to 500 MHz upgrade, 4 ch
DSOXT3B3T104U	Service center 350 MHz to 1 GHz upgrade, 4 ch
DSOXT3B5T102U	Service center 500 MHz to 1 GHz upgrade, 2 ch
DSOXT3B5T104U	Service center 500 MHz to 1 GHz upgrade, 4 ch
DSOXT3MSO	MSO upgrade
<b>Serial protocol trigger and decode</b>	
DSOX3AERO	MIL-STD 1553 and ARINC 429
DSOX3AUDIO	Audio (I <sup>2</sup> S)
DSOXT3AUTO	Automotive (CAN/CANFD/LIN)
DSOX3COMP	Computer (RS232/UART)
DSOX3EMBD	Embedded (I <sup>2</sup> C, SPI)
DSOX3FLEX	FlexRay
DSOXT3SENSOR	Single Edge Nibble Transmission (SENT)
<b>Measurement applications</b>	
DSOX3MASK	Mask limit testing
DSOX3PWR	Power analysis application
DSOX3VID	Enhanced video/TV application package
DSOX3WAVEGEN	WaveGen 20 MHz AWG
DSOXDVMCTR	Integrated digital voltmeter/8-digit counter
DSOXT3APBNDL	SW application bundle license for 3000T X-Series
<b>Productivity tools</b>	
DSOXEDK	Education and training kit
N8900A	Infiniium offline oscilloscope analysis software
34840B	BenchVue

This information is subject to change without notice.

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Published in USA, September 29, 2014

5992-0150EN

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