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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX3014T

Keysight / Agilent MSOX3014T Mixed Signal Oscilloscope 100 MHz 4+16 The Keysight/Agilent InfiniiVision MSOX3014T is a 3000T X-Series oscilloscope with 100 MHz bandwidth and 4 analog channels plus 16 digital channels. OEM 3000T data sheets list 5 GSa/s half-channel and 2.5 GSa/s all-channel sample rate, 4 Mpts standard memory, greater than 1,000,000 waveforms/s update rate, and an 8.5-inch capacitive touch display with InfiniiScan Zone touch trigger. Mixed-signal embedded debug, touch-zone triggered anomaly capture, optional serial protocol decode, and general-purpose analog measurements on the 3000T X-Series platform. The Keysight/Agilent InfiniiVision MSOX3014T is a 3000T X-Series oscilloscope with 100 MHz bandwidth and 4 analog channels plus 16 digital channels. OEM 3000T data sheets list 5 GSa/s half-channel and 2.5 GSa/s all-channel sample rate, 4 Mpts standard memory, greater than 1,000,000 waveforms/s update rate, and an 8.5-inch capacitive touch display with InfiniiScan Zone touch trigger. Mixed-signal embedded debug, touch-zone triggered anomaly capture, optional serial protocol decode, and general-purpose analog measurements on the 3000T X-Series platform.



MODEL

**Agilent / Keysight
MSOX3014T**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX3014T

LISTING

<https://aumictechlabs.com/products/msox3014t-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight MSOX3014T is a 100 MHz mixed-signal oscilloscope delivering 4 analog channels, 16 digital channels, and 1,000,000 waveforms/sec update rate for capture of transient events and elusive signal anomalies. The 8.5-inch capacitive touch display with gesture support provides intuitive navigation, while 5 GSa/s sampling (half channels) and 2.5 GSa/s (all channels) enable precise waveform acquisition across diverse signal frequencies.

Technical Specifications
Bandwidth: 100 MHz Analog Channels: 4 Digital Channels: 16 Maximum Sampling Rate: 5 GSa/s (half channels), 2.5 GSa/s (all channels) Memory Depth: 4 Mpts standard; upgradeable with segmented memory support Waveform Update Rate: 1,000,000 wfms/s Display: 8.5-inch capacitive touch screen, WVGA resolution, gesture support Vertical Resolution: 8 bits Input Capacitance: 8 pF Integrated WaveGen (Optional): 20 MHz arbitrary waveform generator with AM, FM, FSK modulation

Key Features
Trigger Capabilities: Edge, Pulse Width, Pattern, Rise/Fall Time, Runt, Setup & Hold, Video, Logic, Sequence, Holdoff, and Zone Touch triggering for rapid isolation of specific signal conditions 7-in-1 Instrument Integration: Oscilloscope, Frequency Response Analyzer, Logic Analyzer/MSO, Protocol Analyzer, WaveGen, Voltmeter, and Counter in single platform Serial Bus Analysis (Optional): Hardware-based decoding for I2C, SPI, UART, I2S, USB PD, CAN, CAN FD, LIN, FlexRay, SENT, CXPI, PSI5, MIL-STD 1553, ARINC 429 Math Functions: Add, Subtract, Multiply, FFT, d/dt, Integrate, Square Root; advanced options include Ax+B, Exponential, Logarithm, filters, and logic bus timing analysis Fully Upgradeable: Bandwidth, memory, instrument modules, and applications expandable to protect long-term investment

Typical Applications
Mixed-signal debugging, embedded system development, digital protocol analysis, power electronics characterization, and multi-domain signal correlation.

Connectivity & Expansion
USB host and device ports enable connectivity to memory devices and peripherals. Optional modules support serial protocol decoding and arbitrary waveform generation.

MSOX3014T Characteristics / Specifications

PARAMETER	VALUE
Model	MSOX3014T
Series Family	InfiniiVision 3000T X-Series
Instrument Type	Mixed signal oscilloscope
Bandwidth	100 MHz
Calculated Rise Time 10 To	less than or equal to 3.5 ns
Analog Channels	4
Digital Channels	16
Maximum Sample Rate Half Channel	5 GSa/s
Maximum Sample Rate All Channels	2.5 GSa/s
Maximum Memory Depth Standard	4 Mpts
Maximum Memory Depth All Channels Class	2 Mpts class sharing
Display	8.5 inch capacitive touch gesture-enabled
Waveform Update Rate	greater than 1,000,000 waveforms per second
Time Base Range	5 ns/div to 50 s/div
Time Base Accuracy	+/-1.6 ppm plus aging factor
Digital Min Detectable Pulse Width	5 ns
Digital Channel To Channel Skew Typical	2 ns
Digital Channel To Channel Skew Maximum	3 ns
Segmented Memory Maximum Segments	1000
Segmented Memory Rearm Time	1 us minimum
Connectivity Standard	USB 2.0 host and device
Interfaces Optional	LAN video GPIB class modules
Vertical Resolution	8 bits; up to 12 bits high-resolution mode class
Chassis Form	benchtop oscilloscope

PARAMETER	VALUE
Rise Time	10 To 90: less than or equal to 3.5 ns

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Keysight InfiniiVision 3000T X-Series oscilloscope data sheet model columns for MSOX3014T. Installed bandwidth/MSO/WaveGen licenses determine final capability.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.