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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX3014A

Agilent Keysight MSOX3014A InfiniiVision Mixed Signal Oscilloscope The Agilent/Keysight MSOX3014A adds integrated digital channels to the 100 MHz 4-analog-channel 3000 X-Series platform. OEM data list 16 digital channels on 3000 X MSO models, MegaZoom IV update performance, and the same upgradable WaveGen/serial option path as DSO siblings. Mixed-signal embedded debug correlating analog and digital buses, serial protocol work, and education labs needing MSO capability at 100 MHz. Four analog plus sixteen digital channels The Agilent/Keysight MSOX3014A adds integrated digital channels to the 100 MHz 4-analog-channel 3000 X-Series platform. OEM data list 16 digital channels on 3000 X MSO models, MegaZoom IV update performance, and the same upgradable WaveGen/serial option path as DSO siblings. Mixed-signal embedded debug correlating analog and digital buses, serial protocol work, and education labs needing MSO capability at 100 MHz. Four analog plus sixteen digital channels Waveform Update Rate Class: greater than 1000000 waveforms per second class



MODEL

**Agilent / Keysight
MSOX3014A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX3014A

LISTING

<https://aumictechlabs.com/products/msox3014a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight MSOX3014A is a 100 MHz mixed-signal oscilloscope that combines four analog channels with 16 digital channels for comprehensive signal debugging and verification. This

InfiniiVision 3000 X-Series instrument delivers up to 4 GSa/s sampling with MegaZoom IV smart memory technology, enabling simultaneous high-speed acquisition and deep waveform storage. The 8.5-inch capacitive touchscreen display and 1,000,000 waveforms/s update rate provide real-time signal visibility for complex design analysis. Built-in math functions, FFT analysis, and optional protocol triggering support serial communication verification. Hardware-based mask testing executes 270,000 tests per second for automated compliance checking. The modular architecture supports bandwidth upgrades, MSO expansion, and optional function generation - protecting your investment while adapting to evolving test requirements.

Technical Specifications
Bandwidth: 100 MHz Analog Channels: 4 Digital Channels: 16 (MSO) Sampling Rate: Up to 4 GSa/s Memory Depth: 2 Mpts standard; 4 Mpts optional Vertical Resolution: 8-bit Calculated Rise Time: 3.5 ns Waveform Update Rate: 1,000,000 wfms/s Display: 8.5-inch WVGA (800 × 480) capacitive touchscreen LCD

Key Features
MegaZoom IV smart memory technology combines high sample rates with deep memory for detailed signal capture Waveform math includes FFT and 20 math operators Integrated frequency counter and hardware-based mask testing (270,000 tests/s) Optional 20 MHz function generator with arbitrary waveforms, modulation, and 10 standard waveform shapes Optional protocol analyzer with serial triggering and HDTV video triggering capability Two USB host ports (one front, one rear) for device control and data transfer AutoProbe interface supports active, differential, and current probes Fully upgradable: bandwidth, MSO capability, and function generation

Compatibility & Integration
Supplied with one 150 MHz passive probe (10:1 attenuation) per analog channel and 16-channel MSO cable Optional LAN, VGA, and GPIB interfaces available Power requirement: 120V, 60 Hz (US/Canada, NEMA 5-15P)

MSOX3014A Characteristics / Specifications

PARAMETER	VALUE
Analog Bandwidth	100 MHz
Analog Channels	4
Digital Channels	16
Maximum Sample Rate Analog	4 GSa/s
Waveform Update Rate Class	greater than 1000000 waveforms per second class
Display Size	8.5 inch WVGA
Vertical Resolution	8 bit
Memory Architecture	MegaZoom IV deep memory
Input Impedance Class	1 MOhm and 50 ohm paths class
Hardware Counter	Integrated frequency counter
Segmented Memory	Available
WaveGen Option	Function arbitrary generator option
Digital Voltmeter Option	Integrated DVM option path
Serial Trigger Analysis	Optional protocol packages
Form Factor	Benchtop InfiniiVision 3000 X
Series Family	InfiniiVision 3000 X Series MSO
Remote Interfaces	USB standard with LAN GPIB options
Logic Probe Support	MSO logic cable and accessories
Mask Testing	Optional
Search And Navigate	Standard class feature
Time Correlated MSO	Analog and digital time correlated views
Probe Support	AutoProbe compatible class
Bandwidth	100 MHz

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.

performance, and the same upgradable WaveGen/serial option path as DS0 siblings.

Applications

Mixed-signal embedded debug correlating analog and digital buses, serial protocol work, and education labs needing MSO capability at 100 MHz.

Key Features

Four analog plus sixteen digital channels

MegaZoom IV fast update architecture

Optional WaveGen and DVM

Serial trigger and decode options

USB LAN GPIB connectivity options

Technical Specifications

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Notes

From Keysight/Agilent MSOX3014A / 3000 X-Series MSO product documentation. Digital channel count is per 3000 X MSO OEM configuration (16 digital).

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.