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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX2024A

Agilent Keysight MSOX2024A InfiniiVision Mixed Signal Oscilloscope The Agilent/Keysight MSOX2024A is a 200 MHz InfiniiVision 2000 X-Series mixed-signal oscilloscope with 4 analog plus 8 digital channels. OEM product data list up to 2 GSa/s sample rate, up to 1 Mpts memory, greater than 200,000 wfms/s update rate, and an 8.5 inch WVGA display. Embedded mixed-signal debug, serial bus troubleshooting, education labs, and general-purpose analog/digital timing analysis to 200 MHz. Waveform Update Rate: greater than 200000 waveforms per second The Agilent/Keysight MSOX2024A is a 200 MHz InfiniiVision 2000 X-Series mixed-signal oscilloscope with 4 analog plus 8 digital channels. OEM product data list up to 2 GSa/s sample rate, up to 1 Mpts memory, greater than 200,000 wfms/s update rate, and an 8.5 inch WVGA display. Embedded mixed-signal debug, serial bus troubleshooting, education labs, and general-purpose analog/digital timing analysis to 200 MHz. Waveform Update Rate: greater than 200000 waveforms per second Input Sensitivity Range: 1 mV/div to 5 V/div



MODEL

**Agilent / Keysight
MSOX2024A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX2024A

LISTING

<https://aumictechlabs.com/products/msox2024a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight MSOX2024A is a 200 MHz mixed-signal oscilloscope combining 4 analog channels with 8 digital MSO channels in a single, compact instrument. Built on MegaZoom IV custom ASIC technology, it delivers analog sampling up to 2 GSa/s interleaved and digital sampling at 1 GSa/s,

with waveform update rates reaching 200,000 wfms/s. The 8.5-inch WVGA capacitive touch display and intuitive interface support rapid signal characterization across education, design validation, and complex system debugging.

Technical Specifications

Bandwidth: 200 MHz

Analog Channels: 4 with 1 mV/div to 5 V/div sensitivity

Digital Channels: 8 at 1 GSa/s

Sample Rate: 1 GSa/s or 2 GSa/s interleaved (analog); 1 GSa/s (digital)

Memory Depth: 100 kpts or 1 Mpts standard; segmented memory available

Vertical Resolution: 8-bit

Rise Time: 1.75 ns

Input Impedance: 1 M Ω $\pm$ 2% (11 pF)

Waveform Update Rate: Up to 200,000 wfms/s

Display: 8.5-inch WVGA (800 $\times$ 480) with 64 intensity levels and capacitive touch

Key Features

23 automated measurements for voltage, time, and frequency analysis

Integrated 5-digit hardware counter and digital voltmeter

Advanced trigger types: edge, pulse width, pattern, video, and serial protocol triggering (optional)

Math functions including FFT (magnitude and phase)

Optional 20 MHz WaveGen function generator supporting sine, square, ramp, pulse, DC, and noise waveforms

Optional protocol analyzer and mask testing

Standard BenchVue software license included

Multi-language GUI and built-in help

Bandwidth, measurement applications, and instrument upgrades available

Typical Applications

Signal integrity verification, digital protocol analysis, power electronics debugging, embedded system design, educational instruction, and mixed-signal system characterization.

Connectivity & Integration

USB host (1 front, 1 back) and USB device ports

Optional LAN, GPIB, and VGA interfaces

Dimensions: 381 mm (L) $\times$ 204 mm (W) $\times$ 142 mm (D)

Weight: 3.9 kg

Operating temperature: 0°C to +55°C

Power supply: 100–240 V (50/60 Hz, $\pm$ 10%) auto-ranging

MSOX2024A Characteristics / Specifications

PARAMETER	VALUE
Analog Bandwidth	200 MHz
Analog Channels	4
Digital Channels	8
Maximum Sample Rate	2 GSa/s
Maximum Memory Depth	1 Mpts
Waveform Update Rate	greater than 200000 waveforms per second
Display Size	8.5 inch WVGA
Vertical Resolution	8 bit
Input Sensitivity Range	1 mV/div to 5 V/div
Input Impedance	1 MOhm plus or minus 2 percent with about 11 pF
Hardware Counter	5 digit frequency counter
External Reference Counter Digits	8 digits with 10 MHz reference
Segmented Memory	Standard
WaveGen Option Bandwidth	20 MHz function arbitrary generator
Standard USB Ports	USB 2.0 device and host ports
Passive Probe Included Class	N2863B 300 MHz 10:1 per channel class
Logic Probe Kit	N2755 8 channel logic probe kit
Form Factor	Benchtop InfiniiVision 2000 X
Series Family	InfiniiVision 2000 X Series
Vertical High Res Mode Class	Up to 12 bit high resolution mode class
Mask Testing Option	Available
Serial Trigger Option	Available
Bandwidth	200 MHz

MSOX2024A Specifications

PARAMETER	VALUE
Applications	Embedded mixed-signal debug, serial bus troubleshooting, education labs, and general-purpose analog/digital timing analysis to 200 MHz.
Key Features	Integrated 8 channel MSO
MegaZoom IV fast update architecture	Optional 20 MHz WaveGen
Technical Specifications	Analog Bandwidth: 200 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.

Specifications	
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Analog Bandwidth	200 MHz
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Maximum Sample Rate	2 GSa/s
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Waveform Update Rate	greater than 200000 waveforms per second
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Hardware Counter	5 digit frequency counter
External Reference Counter Digits	8 digits with 10 MHz reference
Segmented Memory	Standard
WaveGen Option Bandwidth	20 MHz function arbitrary generator
Standard USB Ports	USB 2.0 device and host ports
Optional Connectivity: LAN video and GPIB options	
Specifications	
PARAMETER	VALUE
Passive Probe Included Class	N2863B 300 MHz 10:1 per channel class
Logic Probe Kit	N2755 8 channel logic probe kit
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Series Family	InfiniiVision 2000 X Series
Vertical High Res Mode Class	Up to 12 bit high resolution mode class
Mask Testing Option	Available
Serial Trigger Option	Available

Notes

From Keysight/Agilent InfiniiVision MSOX2024A product specifications. Some reseller sheets list alternate memory/sample figures; OEM 2000 X-Series 200 MHz 4-channel MSO rows above are used.

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.