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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX2012A

Keysight / Agilent MSOX2012A InfiniiVision Oscilloscope 100 MHz 2+16 The Keysight/Agilent MSOX2012A is an InfiniiVision 2000 X-Series oscilloscope with 100 MHz analog bandwidth, 2 analog channels, and 16 digital channels. OEM 2000 X-Series fact sheets rate MegaZoom IV class update performance with 2 GSa/s class maximum sample rate and 1 Mpts class memory depth on an 8.5 inch WVGA display. Embedded mixed-signal debug, education labs, serial decode with options, and general-purpose analog measurements. The Keysight/Agilent MSOX2012A is an InfiniiVision 2000 X-Series oscilloscope with 100 MHz analog bandwidth, 2 analog channels, and 16 digital channels. OEM 2000 X-Series fact sheets rate MegaZoom IV class update performance with 2 GSa/s class maximum sample rate and 1 Mpts class memory depth on an 8.5 inch WVGA display. Embedded mixed-signal debug, education labs, serial decode with options, and general-purpose analog measurements. MegaZoom IV ultra-responsive update class Series Family: InfiniiVision 2000 X-Series



MODEL

**Agilent / Keysight
MSOX2012A**

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX2012A

LISTING

<https://aumictechlabs.com/products/msox2012a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight MSOX2012A is a 100 MHz mixed-signal oscilloscope combining 2 analog channels with 8 digital channels for simultaneous acquisition and analysis in mixed-signal environments. Built on MegaZoom IV custom ASIC technology, it delivers up to 500,000 waveforms per second and captures signal sequences up to 1 Mpts at sample rates reaching 2 GSa/s, making it ideal for detailed transient

analysis and rare-event detection. The 8.5-inch WVGA display (800 × 480 pixels) provides twice the viewing area and five times the resolution of QVGA alternatives, enabling clear visualization of complex waveforms across multiple signal domains.

Technical Specifications

Bandwidth: 100 MHz

Analog Channels: 2

Digital Channels: 8 (MSO)

Sample Rate: Up to 2 GSa/s per channel; up to 2 GSa/s in half-channel interleaved mode

Memory Depth: Up to 1 Mpts

Waveform Update Rate: Up to 500,000 waveforms/s

Vertical Resolution: 8 bits

Vertical Sensitivity: 1 mV/div to 5 V/div

Input Impedance: 1 MΩ

Display: 8.5-inch WVGA color (800 × 480 pixels)

Automated Measurements: Over 23 measurements including voltage, time, and frequency parameters

Math Functions: FFT capability

Trigger Types: Edge, Pulse Width, Pattern, Video, Logic, Sequence, and Glitch

Key Features

Integrated logic timing analyzer for mixed-signal applications

Optional 20 MHz WaveGen integrated function generator

USB host and device ports; optional LAN, VGA, and GPIB interfaces

Fully upgradable bandwidth, MSO, WaveGen, memory, and measurement applications

Compatible with BenchVue software for test automation

Included Accessories & Support

5-year warranty

One N2862B 150 MHz 10:1 passive probe per analog channel

N2755-60001 8-channel logic probe and accessory kit

Physical Specifications

Dimensions: Approximately 15 inches wide × less than 6 inches deep

Weight: Approximately 8.5 pounds

MSOX2012A Characteristics / Specifications

PARAMETER	VALUE
Model	MSOX2012A
Series Family	InfiniiVision 2000 X-Series
Instrument Type	Mixed signal oscilloscope
Analog Bandwidth	100 MHz
Analog Channels	2
Digital Channels	16
Maximum Sample Rate	2 GSa/s class
Maximum Memory Depth	1 Mpts class
Waveform Update Rate	1000000 waveforms per second class
Display Size	8.5 inch WVGA
Vertical Resolution	8 bit
Memory Architecture	MegaZoom IV deep memory
Input Coupling	DC AC ground
Input Impedance Class	1 MOhm and 50 ohm paths class
Hardware Counter	Integrated frequency counter class
Segmented Memory	Available
WaveGen Path	Built-in function/arbitrary generator option path
Digital Voltmeter Path	Integrated DVM option path
Serial Trigger Analysis	Optional protocol packages
Chassis Form	Benchtop InfiniiVision
Remote Interfaces	USB standard with LAN GPIB options
Brand Lineage	Keysight / Agilent
Mso Capability	Yes
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 with 2 GSa/s class maximum sample rate and 1 Mpts class memory depth on an 8.5 inch WVGA display.

Applications

Embedded mixed-signal debug, education labs, serial decode with options, and general-purpose analog measurements.

Key Features

MegaZoom IV ultra-responsive update class

Mixed signal digital channel capture

Optional WaveGen and DVM upgrade path

Serial protocol option packages

Bandwidth and MSO upgradability class

Technical Specifications

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Chassis Form	Benchtop InfiniiVision

PARAMETER	VALUE
Remote Interfaces	USB standard with LAN GPIB options
Brand Lineage	Keysight / Agilent
Mso Capability	Yes

Notes
From Keysight/Agilent InfiniiVision 2000 X-Series fact sheet model row for MSOX2012A. Exact memory split by channel mode follows the published family table.

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.