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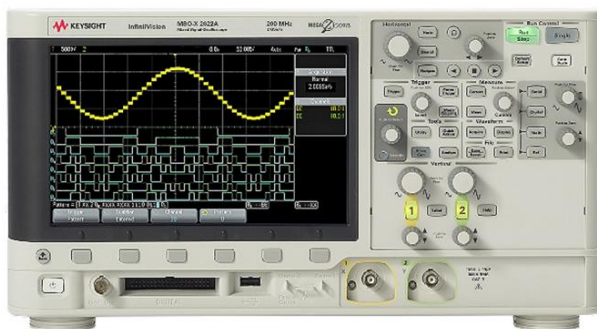
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX2002A

Agilent Keysight MSOX2002A InfiniiVision 2000 X-Series Oscilloscope The Agilent/Keysight MSOX2002A is an InfiniiVision 2000 X-Series oscilloscope with 2 + 8 channels and 70 MHz bandwidth. OEM 2000 X-Series datasheets list up to 2 GSa/s sample rate, 1 Mpt per channel memory, 200,000 wfms/s update rate, and an 8.5-inch WVGA display. Embedded design debug, mixed-signal timing on MSO models, and education/general-purpose bench capture to 200 MHz class. Upgradeable WaveGen MSO bandwidth options The Agilent/Keysight MSOX2002A is an InfiniiVision 2000 X-Series oscilloscope with 2 + 8 channels and 70 MHz bandwidth. OEM 2000 X-Series datasheets list up to 2 GSa/s sample rate, 1 Mpt per channel memory, 200,000 wfms/s update rate, and an 8.5-inch WVGA display. Embedded design debug, mixed-signal timing on MSO models, and education/general-purpose bench capture to 200 MHz class. Upgradeable WaveGen MSO bandwidth options Maximum Sample Rate: 2 GSa/s half-channel interleaved, 1 GSa/s per channel



MODEL

**Agilent / Keysight
MSOX2002A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX2002A

LISTING

<https://aumictechlabs.com/products/msox2002a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight MSOX2002A is a mixed-signal oscilloscope that combines two 70 MHz analog channels with eight integrated digital channels for comprehensive signal analysis. The instrument delivers 1 GSa/s per-channel sampling (2 GSa/s interleaved) and up to 200,000 waveforms per

second update rate, enabling rapid capture of transient events and anomalies. An 8.5-inch WVGA color display provides twice the viewing area of comparable instruments, while 1 Mpts memory depth per channel supports detailed signal examination.

Technical Specifications

Oscilloscope Core Bandwidth: 70 MHz Analog channels: 2; Digital channels: 8 Sampling rate: 1 GSa/s per channel, 2 GSa/s interleaved Memory depth: 1 Mpts per channel Waveform update rate: Up to 200,000 waveforms/sec Vertical resolution: 8 bit Trigger types: Edge, edge-then-edge, pulse width, pattern, OR, rise/fall time, Nth edge burst, runt, setup & hold, video, USB Measurements: 25 automated voltage/time/frequency functions; 18 waveform math functions including FFT Reference waveforms: 2 supported for direct comparison XY mode for phase and frequency analysis Integrated Instruments 3-digit DVM with oscilloscope probe integration 5-digit frequency counter Optional WaveGen function generator (20 MHz): sine, square, ramp, pulse, DC, noise; modulation capable

Key Features MegaZoom IV custom ASIC technology achieves high waveform capture rates for detailed signal analysis. Deep per-channel memory supports extended time-domain observation. Included N2862B 150 MHz 10:1 passive probes and N2755-60001 8-channel logic probe kit enable immediate deployment.

Display & Connectivity 8.5-inch WVGA color display. USB host/device ports standard; optional LAN, VGA, and GPIB interfaces support flexible integration into automated test environments.

Typical Applications Mixed-signal circuit debugging, embedded systems verification, power integrity analysis, and protocol-level signal observation across analog and digital domains.

Compatibility & Integration Full upgradeability post-purchase: bandwidth, instrument integration, and advanced applications. Multilingual GUI (English, Japanese, Chinese, Korean, German, French, Spanish, Russian, Portuguese, Thai, Polish, Italian). BenchVue software support included. Compact form factor: 15 inches wide, less than 6 inches deep, 8.5 pounds.

MSOX2002A Characteristics / Specifications

PARAMETER	VALUE
Analog Channels	2
Digital Channels	8
Bandwidth	70 MHz
Maximum Sample Rate	2 GSa/s half-channel interleaved, 1 GSa/s per channel
Memory Depth	1 Mpt per channel
Waveform Update Rate	200000 wfms/s
Display	8.5 inch WVGA 800 × 480
Built In DVM	3 digit
Built In Frequency Counter	5 digit
Connectivity	USB host front/back USB device; optional LAN GPIB
Calibration Interval Recommended	2 years
Series Family	Keysight InfiniiVision 2000 X-Series
Hardware Bandwidth Limit	approximately 20 MHz selectable
Time Base Accuracy Class	25 ppm plus or minus 5 ppm per year aging class
Form Factor	Bench
MegaZoom	Yes
Segmented Memory	Optional/standard per PLUS upgrades
Protocol Analysis	Optional serial applications
Input Impedance Class	1 MOhm class standard
Probe Support	AutoProbe passive probes
Operating Temperature Class	Standard lab class
Operating temperature	Class: Standard lab class

MSOX2002A Specifications

PARAMETER	VALUE
Applications	Embedded design debug, mixed-signal timing on MSO models, and education/general-purpose bench capture to 200 MHz class.
Key Features	200000 waveforms per second update rate
Technical Specifications	Analog Channels: 2
Notes	From Keysight InfiniiVision 2000 X-Series oscilloscope data sheet / fact sheet for MSOX2002A.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Standard lab class
Operating Temperature	Class: Standard lab class
Operating Temperature Class	Standard lab class Notes From Keysight InfiniiVision 2000 X-Series oscilloscope data sheet / fact sheet for MSOX2002A.

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	
Specifications	
PARAMETER	VALUE
Analog Channels	2
Digital Channels	8
Bandwidth	70 MHz
Maximum Sample Rate	2 GSa/s half-channel interleaved, 1 GSa/s per channel
Memory Depth	1 Mpt per channel
Waveform Update Rate	200000 wfms/s
Display	8.5 inch WVGA 800 x 480
Built In DVM	3 digit
Built In Frequency Counter	5 digit
Optional WaveGen: 20 MHz	
Specifications	
PARAMETER	VALUE
Connectivity	USB host front/back USB device; optional LAN GPIB
Calibration Interval Recommended	2 years
Series Family	Keysight InfiniiVision 2000 X-Series
Hardware Bandwidth Limit	approximately 20 MHz selectable
Time Base Accuracy Class	25 ppm plus or minus 5 ppm per year aging class
Form Factor	Bench
MegaZoom	Yes
Segmented Memory	Optional/standard per PLUS upgrades
Protocol Analysis	Optional serial applications
Input Impedance Class	1 MOhm class standard
Probe Support	AutoProbe passive probes
Operating Temperature Class	Standard lab class

Notes

From Keysight InfiniiVision 2000 X-Series oscilloscope data sheet / fact sheet for MSOX2002A.

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.