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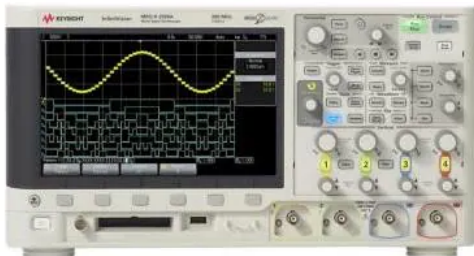
Data Sheet

August 31, 2026

AGILENT / KEYSIGHT

Agilent / Keysight DSOX2024A Oscilloscope: 200 MHz, 4 Analog Channels

Agilent Keysight DSOX2024A InfiniiVision Oscilloscope The Agilent/Keysight DSOX2024A is the 200 MHz 4-channel digital-storage sibling of the MSOX2024A without integrated logic channels. OEM 2000 X-Series data share the MegaZoom IV update-rate architecture, 8.5 inch display, and upgradable WaveGen/DVM option path. General-purpose analog debug, education labs, and power/embedded signal integrity checks to 200 MHz without MSO requirements. Digital Channels: Not included standard (DSO model) The Agilent/Keysight DSOX2024A is the 200 MHz 4-channel digital-storage sibling of the MSOX2024A without integrated logic channels. OEM 2000 X-Series data share the MegaZoom IV update-rate architecture, 8.5 inch display, and upgradable WaveGen/DVM option path. General-purpose analog debug, education labs, and power/embedded signal integrity checks to 200 MHz without MSO requirements. Digital Channels: Not included standard (DSO model) Waveform Update Rate: greater than 200000 waveforms per second



MODEL

**Agilent / Keysight
DSOX2024A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DSOX2024A

LISTING

<https://aumictechlabs.com/products/dsox2024a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight DSOX2024A is a 200 MHz, 4-channel digital storage oscilloscope built for electronic testing, signal analysis, and troubleshooting across laboratory, educational, and research environments. Powered by Keysight's MegaZoom IV custom ASIC technology, it delivers waveform capture rates up to 200,000 waveforms per second, enabling rapid detection of infrequent anomalies and signal detail visualization. The instrument samples at 1 GSa/s per channel (2 GSa/s interleaved) with 100 kpoints standard memory depth, expandable to 1 Mpoints. An 8.5-inch WVGA display and pushable front-panel knobs provide intuitive operator control on a compact 14.98 × 8.05 × 5.57-inch benchtop footprint. The platform supports multiple trigger modes - edge, pulse width, pattern, video (NTSC/PAL/SECAM/PAM-M), runt, rise/fall time, setup & hold, and USB - with 10 mV/div internal sensitivity. Vertical input ranges span 1 mV/div to 5 V/div with 1 MΩ ± 2% impedance and 8-bit resolution. DC vertical accuracy is ±3% full scale at ≥10 mV/div settings, ±4% below 10 mV/div. Maximum input rated to CAT I/II 300 Vrms/400 Vpk with 1.6 kVpk transient overvoltage protection. Channel-to-channel isolation exceeds 40 dB DC to maximum bandwidth. The DSOX2024A works with investment protection through field upgrades: optional digital channels (MSO capability), function generator, digital voltmeter, and advanced measurement applications expand functionality without hardware replacement.

Technical Specifications
 Bandwidth: 200 MHz
 Analog Channels: 4
 Sample Rate: 1 GSa/s per channel; 2 GSa/s interleaved
 Memory Depth: 100 kpts standard (1 Mpts optional with DSOX2MEMUP)
 Waveform Capture Rate: Up to 200,000 waveforms/second (MegaZoom IV)
 Rise Time: ≤1.75 ns
 Input Sensitivity: 1 mV/div to 5 V/div
 Input Impedance: 1 MΩ ± 2% (11 pF)
 Vertical Resolution: 8 bits
 DC Vertical Gain Accuracy: ±3% full scale (≥10 mV/div); ±4% (<10 mV/div)
 Maximum Input Voltage (CAT I/II): 300 Vrms, 400 Vpk; 1.6 kVpk transient
 Trigger Sensitivity: 10 mV/div internal; 200 mV external
 Trigger Types: Edge, pulse width, pattern, video, runt, rise/fall time, setup & hold, USB
 Channel Isolation: ≥40 dB (DC to max bandwidth); ≥35 dB (1–1.5 GHz)
 Hardware Bandwidth Limit: ~20 MHz (selectable)
 Display: 8.5-inch WVGA
 Weight: 3.9 kg
 Dimensions: 380.6 × 204.4 × 141.5 mm

Key Features
 MegaZoom IV custom ASIC technology for high waveform capture efficiency
 AC/DC input coupling with selectable 20 MHz bandwidth limit
 Wide dynamic range: ±8 divisions from center screen
 Field-upgradable architecture (digital channels, function generator, measurements)
Typical Applications
 Analog signal characterization and anomaly detection
 Educational laboratory instruction
 Benchtop electronics troubleshooting and verification
 Research-grade signal acquisition and analysis
Compatibility & Integration
 Supports CAT I/II measurement environments
 Compatible with N2862B and N2863B 10:1 probes (300 Vrms rated)
 Modular upgrade path via optional licenses and hardware modules

DSOX2024A Characteristics / Specifications

PARAMETER	VALUE
Analog Bandwidth	200 MHz
Analog Channels	4
Digital Channels	Not included standard (DSO model)
Maximum Sample Rate Class	2 GSa/s
Maximum Memory Depth Class	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 Class	1 MOhm class with probe
Hardware Counter	5 digit frequency counter
Segmented Memory	Standard
WaveGen Option Bandwidth	20 MHz
Standard USB Ports	USB 2.0 host and device
Form Factor	Benchtop InfiniiVision 2000 X
Series Family	InfiniiVision 2000 X Series
MSO Upgrade Path	Bandwidth and MSO upgradeable class
Passive Probe Class	10:1 passive probe per channel class
Mask Testing Option	Available
Serial Trigger Option	Available
Secure Erase	Standard feature class
Warranty Class OEM	Standard multi year warranty class
Bandwidth	200 MHz

DSOX2024A Specifications

PARAMETER	VALUE
Agilent Keysight DSOX2024A InfiniiVision Oscilloscope	Overview
Applications	General-purpose analog debug, education labs, and power/embedded signal integrity checks to 200 MHz without MSO requirements.
Key Features	Four analog channels at 200 MHz
MegaZoom IV fast waveform update	Optional 20 MHz WaveGen
Technical Specifications	Analog Bandwidth: 200 MHz
Notes	From Keysight/Agilent DSOX2024A / 2000 X-Series product documentation. MSO features require MSO model or upgrade path.

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 Bandwidth	200 MHz
Analog Channels	4
Digital Channels	Not included standard (DSO model)
Maximum Sample Rate Class	2 GSa/s
Maximum Memory Depth Class	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 Class	1 MOhm class with probe
Hardware Counter	5 digit frequency counter
Segmented Memory	Standard
WaveGen Option Bandwidth	20 MHz
Standard USB Ports	USB 2.0 host and device
Optional Connectivity: LAN video GPIB options	
Specifications	
PARAMETER	VALUE
Form Factor	Benchtop InfiniiVision 2000 X
Series Family	InfiniiVision 2000 X Series
MSO Upgrade Path	Bandwidth and MSO upgradeable class
Passive Probe Class	10:1 passive probe per channel class
Mask Testing Option	Available
Serial Trigger Option	Available
Secure Erase	Standard feature class
Warranty Class OEM: Standard multi year warranty class	

Notes

From Keysight/Agilent DSOX2024A / 2000 X-Series product documentation. MSO features require MSO model or upgrade path.

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.