

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

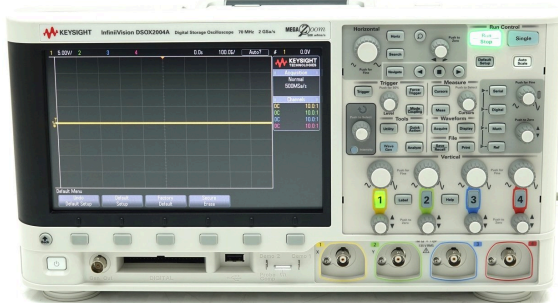
Data Sheet

August 31, 2026

AGILENT / KEYSIGHT

Agilent / Keysight DSOX2004A Oscilloscope: 70 MHz, 4 Analog Channels

Agilent Keysight DSOX2004A InfiniiVision 2000 X-Series Oscilloscope The Agilent/Keysight DSOX2004A is an InfiniiVision 2000 X-Series oscilloscope with 4 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 DSOX2004A is an InfiniiVision 2000 X-Series oscilloscope with 4 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 Digital Channels: Optional 8 via DSOX2MSO



MODEL

**Agilent / Keysight
DSOX2004A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DSOX2004A

LISTING

<https://aumictechlabs.com/products/dsox2004a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight DSOX2004A is a 70 MHz, 4-channel digital storage oscilloscope engineered for signal analysis, troubleshooting, and design verification. It delivers a waveform update rate of 200,000 waveforms per second using MegaZoom IV deep memory technology, enabling reliable capture of signal detail and anomalies. The 8.5-inch WVGA color display provides clear visualization across all measurement tasks. With 2 GSa/s sampling capability and 1 Mpts memory depth (upgradeable), the instrument achieves ≤ 5 ns rise time. It includes 23 automated measurements spanning voltage, time, and frequency domains, plus 14 waveform math functions including FFT analysis. Hardware-based mask testing executes up to 200,000 tests per second for manufacturing and compliance workflows.

Technical Specifications
Bandwidth: 70 MHz (upgradeable)
Analog Channels: 4
Sampling Rate: 2 GSa/s (1 GSa/s per channel or 2 GSa/s half-channel interleaved)
Memory Depth: 1 Mpts (upgradeable to 1 Mpts per channel); segmented memory available
Waveform Update Rate: 200,000 wfms/s
Rise Time: ≤ 5 ns
Display: 8.5-inch WVGA (800 × 480) color LCD
Input Impedance: $1\text{ M}\Omega \pm 1\%$ || $15\text{ pF} \pm 5\text{ pF}$
Probes Included: One 150 MHz 10:1 passive probe per channel (N2862B or N2862A)

Key Features
Input coupling: AC, DC, GND
Probe compatibility: 10X, 100X, 1000X selectable
Advanced trigger types: Edge, Pulse Width, Video, Pattern, Duration, Runt, Transition, Sequence Zone
Touch Trigger for touch-interface operation
Integrated 5-digit frequency counter
Free integrated digital voltmeter (DVM)
FFT analysis and 14 waveform math functions

Typical Applications
Signal integrity analysis, embedded system debugging, power supply characterization, educational laboratory work, and prototype validation requiring multi-channel synchronous measurements.

Compatibility & Integration
Front and rear USB host ports plus USB device interface. Optional LAN, GPIB, and VGA connectivity. Fully upgradeable to mixed signal (MSO) capability with digital channels, 20 MHz function generator (WaveGen), and segmented memory. Compact dimensions (8.05 × 14.98 × 5.57 inches) and 8.5 lbs weight enable bench and portable deployment.

DSOX2004A Characteristics / Specifications

PARAMETER	VALUE
Analog Channels	4
Digital Channels	Optional 8 via DSOX2MSO
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

DSOX2004A 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: 4
Notes	From Keysight InfiniiVision 2000 X-Series oscilloscope data sheet / fact sheet for DSOX2004A.

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 DSOX2004A.

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	4
Digital Channels	Optional 8 via DSOX2MSO
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 DS0X2004A.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 31, 2026

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