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Data Sheet

August 31, 2026

AGILENT / KEYSIGHT

Agilent/Keysight DSOX3024A

Agilent Keysight DSOX3024A InfiniiVision Oscilloscope The Agilent/Keysight DSOX3024A is a 200 MHz InfiniiVision 3000 X-Series oscilloscope with 4 analog channels. OEM 3000A X-Series fact sheets list up to 4 GSa/s sample rate, up to 4 Mpts MegaZoom memory, and 1,000,000 wfms/s update rate with an 8.5-inch WVGA display. Embedded design debug, mixed-signal analysis, education, and general-purpose analog measurements on the 3000 X-Series platform. Waveform Update Rate: 1000000 waveforms per second The Agilent/Keysight DSOX3024A is a 200 MHz InfiniiVision 3000 X-Series oscilloscope with 4 analog channels. OEM 3000A X-Series fact sheets list up to 4 GSa/s sample rate, up to 4 Mpts MegaZoom memory, and 1,000,000 wfms/s update rate with an 8.5-inch WVGA display. Embedded design debug, mixed-signal analysis, education, and general-purpose analog measurements on the 3000 X-Series platform. Waveform Update Rate: 1000000 waveforms per second Memory Architecture: MegaZoom IV deep memory



MODEL

**Agilent / Keysight
DSOX3024A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DSOX3024A

LISTING

<https://aumictechlabs.com/products/dsox3024a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight DSOX3024A is a 4-channel digital storage oscilloscope engineered for design, debug, and validation workflows. Part of the InfiniiVision 3000 X-Series, this instrument integrates oscilloscope, logic analyzer (MSO upgrade), protocol analyzer, function generator (WaveGen),

and voltmeter functionality into a single platform. The upgradable architecture supports future expansion of bandwidth, memory, digital channels, and serial triggering capabilities.

Technical Specifications The DSOX3024A delivers 200 MHz bandwidth with a maximum sample rate of 2 GSa/s (half-channel interleaved) or 1 GSa/s per channel. Standard memory depth is 4 Mpts, with waveform capture rates reaching 1,000,000 waveforms/sec for real-time signal visibility. The 8.5-inch WVGA display (800 × 480 resolution) with 256-level intensity grading ensures clear waveform rendering. Calculated rise time (10–90%) measures ≤ 1.75 ns. Horizontal timebase ranges from 2 ns/div to 50 s/div with 2.5 ps resolution. Vertical acquisition supports Normal, Peak Detect (capturing glitches as narrow as 500 ps), Averaging (2 to 65,536 selections), High Resolution Mode (12-bit resolution at ≥ 20 μ s/div timebase), and Segmented Memory with 19 μ s minimum re-arm time.

Key Features 31 automatic measurements spanning voltage, time, frequency, and jitter Seven waveform math functions including FFT, addition, subtraction, multiplication, division, integration, and differentiation Nine parametric triggers and six serial protocol triggers Hardware-based serial bus decoding for I²C, SPI, UART/RS232, CAN, and LIN simultaneously on two buses Industry-exclusive hardware mask testing at up to 280,000 tests/sec Bandwidth upgradeable beyond 200 MHz

Typical Applications Design validation, embedded system debug, protocol analysis, signal integrity assessment, and production testing across digital, mixed-signal, and serial communication environments.

Compatibility & Integration Optional MSO upgrade enables 16 digital channels. Serial decoding and triggering options support modern embedded communication standards. Modular expansion supports additional bandwidth, memory, and analysis modules.

DSOX3024A Characteristics / Specifications

PARAMETER	VALUE
Model	DSOX3024A
Analog Bandwidth	200 MHz
Analog Channels	4
Digital Channels	0
Maximum Sample Rate	4 GSa/s
Maximum Memory Depth	4 Mpts
Waveform Update Rate	1000000 waveforms per second
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
Segmented Memory	Available
WaveGen Option	Built in 20 MHz function arbitrary generator option
Digital Voltmeter Option	Integrated DVM option path
Serial Trigger Analysis	Optional protocol packages
Form Factor	Benchtop InfiniiVision 3000 X
Series Family	InfiniiVision 3000 X Series
Remote Interfaces	USB standard with LAN GPIB options
MSO Capability	no
Brand Lineage	Agilent / Keysight
Bandwidth	200 MHz

DSOX3024A Specifications

PARAMETER	VALUE
Agilent Keysight DSOX3024A InfiniiVision Oscilloscope	Overview
Applications	Embedded design debug, mixed-signal analysis, education, and general-purpose analog measurements on the 3000 X-Series platform.
Key Features	200 MHz analog bandwidth
Technical Specifications	Model: DSOX3024A
Notes	From Keysight/Agilent InfiniiVision 3000A X-Series fact sheet model row for DSOX3024A.

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
Model	DSOX3024A
Analog Bandwidth	200 MHz
Analog Channels	4
Digital Channels	0
Maximum Sample Rate	4 GSa/s
Maximum Memory Depth	4 Mpts
Waveform Update Rate	1000000 waveforms per second
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
Segmented Memory	Available
WaveGen Option	Built in 20 MHz function arbitrary generator option
Digital Voltmeter Option	Integrated DVM option path
Serial Trigger Analysis	Optional protocol packages
Form Factor	Benchtop InfiniiVision 3000 X
Series Family	InfiniiVision 3000 X Series
Remote Interfaces	USB standard with LAN GPIB options
MSO Capability	no
Brand Lineage	Agilent / Keysight
Notes	
From Keysight/Agilent InfiniiVision 3000A X-Series fact sheet model row for DSOX3024A.	

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.