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Data Sheet

August 31, 2026

AGILENT / KEYSIGHT

Agilent / Keysight DSOX3054A Oscilloscope: 500 MHz, 4 Channels

Agilent Keysight DSOX3054A InfiniiVision Oscilloscope The Agilent/Keysight DSOX3054A is a 500 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 DSOX3054A is a 500 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
DSOX3054A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DSOX3054A

LISTING

<https://aumictechlabs.com/products/dsox3054a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight DSOX3054A is a 500 MHz, 4-channel digital storage oscilloscope engineered for signal acquisition, debugging, and analysis across demanding electronic design and test environments. This instrument delivers real-time sampling at 2 GSa/s per channel with 4 Mpts memory depth, enabling detailed capture and inspection of complex waveforms. Its 8-bit vertical resolution spans 1 mV/div to 10 V/div with $\pm 1.5\%$ typical accuracy, supporting both high-impedance ($1\text{ M}\Omega \parallel 15\text{ pF}$) and $50\text{ }\Omega$ input configurations.

Technical Specifications
Bandwidth: 500 MHz
Channels: 4 analog inputs
Real-Time Sample Rate: Up to 2 GSa/s per channel
Memory Depth: 4 Mpts per channel
Vertical Resolution: 8 bits
Vertical Sensitivity: 1 mV/div to 10 V/div
Vertical Accuracy: $\pm 1.5\%$ (typical)
Input Coupling: AC, DC, GND
Input Impedance: $1\text{ M}\Omega \pm 1\% \parallel 15\text{ pF} \pm 2\text{ pF}$, or $50\text{ }\Omega \pm 2\%$
Display: 10.4-inch XGA (1024×768) color LCD
Waveform Update Rate: Up to 100,000 waveforms/sec
Power: 100–240 VAC, 50/60 Hz
Operating Temperature: 0°C to 50°C
Operating Humidity: 5% to 95% RH at 40°C
Dimensions: 210 mm (H) $\times$ 435 mm (W) $\times$ 144 mm (D)
Weight: 5.2 kg (approx.)

Key Features
Advanced Triggering: Edge, Pulse Width, Runt, Window, Logic, Pattern, Setup/Hold, Serial Data, Sequence, Glitch, Video, Burst (optional modes)
Trigger Jitter: $< 0.15\text{ UI}$ (typical)
Segmented Memory: Up to 2048 segments with $< 10\text{ ms}$ re-arm time
Measurements: Over 50 automatic waveform measurements including V_{pp} , V_{rms} , V_{max} , V_{min} , frequency, period, rise/fall time, duty cycle, overshoot, area, and noise
Waveform Math: Add, Subtract, Multiply, Divide, FFT (up to 1 Mpts resolution)
Mask Testing: User-defined pass/fail validation
Histograms: Real-time statistical display
Active Probe Power: Integrated supply for active probe operation

Connectivity & Integration
USB: Host port (front) for flash drives; Device port (rear) for remote control and data transfer
Ethernet: 10/100 Base-T LXI-compliant port for network-based remote operation
Video Output: VGA for external monitor connection
Protocol Support: Optional I2C, SPI, UART, CAN, LIN serial bus triggering and decoding
GPIOB: Optional interface availability

Typical Applications
Ideal for embedded system debugging, power integrity analysis, signal integrity validation, educational laboratories, and general-purpose analog and mixed-signal troubleshooting in production and development environments.

DSOX3054A Characteristics / Specifications

PARAMETER	VALUE
Model	DSOX3054A
Analog Bandwidth	500 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	500 MHz

DSOX3054A Specifications

PARAMETER	VALUE
Agilent Keysight DSOX3054A InfiniiVision Oscilloscope	Overview
Applications	Embedded design debug, mixed-signal analysis, education, and general-purpose analog measurements on the 3000 X-Series platform.
Key Features	500 MHz analog bandwidth
Technical Specifications	Model: DSOX3054A
Notes	From Keysight/Agilent InfiniiVision 3000A X-Series fact sheet model row for DSOX3054A.

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	
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MSO Capability	no
Brand Lineage	Agilent / Keysight
Notes	
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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.