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**Data Sheet**

August 15, 2026

AGILENT / KEYSIGHT

## Agilent/Keysight MSOX3012G

Keysight / Agilent MSOX3012G InfiniiVision Oscilloscope 100 MHz 2+16 The Keysight/Agilent MSOX3012G is an InfiniiVision 3000G X-Series oscilloscope with 100 MHz analog bandwidth, 2 analog channels, and 16 digital channels. OEM 3000G X-Series fact sheets rate MegaZoom IV class update performance with 5 GSa/s class maximum sample rate and 4 Mpts memory depth on an 8.5 inch capacitive class display. Embedded mixed-signal debug, education labs, serial decode with options, and general-purpose analog measurements. The Keysight/Agilent MSOX3012G is an InfiniiVision 3000G X-Series oscilloscope with 100 MHz analog bandwidth, 2 analog channels, and 16 digital channels. OEM 3000G X-Series fact sheets rate MegaZoom IV class update performance with 5 GSa/s class maximum sample rate and 4 Mpts memory depth on an 8.5 inch capacitive class display. Embedded mixed-signal debug, education labs, serial decode with options, and general-purpose analog measurements. MegaZoom IV ultra-responsive update class Series Family: InfiniiVision 3000G X-Series



MODEL

**Agilent / Keysight  
MSOX3012G**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**MSOX3012G**

LISTING

<https://aumictechlabs.com/products/msox3012g-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

### This unit

The Keysight MSOX3012G is a mixed-signal oscilloscope integrating 2 analog channels and 16 digital channels for comprehensive signal analysis in development, troubleshooting, and system validation. This instrument combines oscilloscope functionality with a built-in 20 MHz

function/arbitrary waveform generator, 3-digit DVM, 8-digit counter, and Bode plot analysis - delivering multiple test capabilities from a single compact unit.

**Technical Specifications**  
Bandwidth: 100 MHz Analog Channels: 2 Digital Channels: 16 Maximum Sample Rate: 5 GSa/s Memory Depth: 4 Mpts Waveform Update Rate: 1,000,000 waveforms/sec Vertical Resolution: 8 bits Rise Time:  $\leq 3.5$  ns Input Impedance: 1 M $\Omega$  Input Capacitance: 8 pF Display: 8.5-inch capacitive touch screen, WVGA resolution Dimensions: 381 mm  $\times$  204 mm  $\times$  142 mm; 4.2 kg Power Supply: 120 V / 220 V universal

**Key Features**  
Zone Touch Trigger: Define signal isolation regions by drawing on screen Trigger Types: Edge, rising, falling, alternating, any, parallel pattern, bus value, timeout, in range, out of range Protocol Trigger & Decode: Standard support for I<sup>2</sup>C, SPI, UART, I<sup>2</sup>S, USB PD; optional packages for MIL-STD 1553, ARINC 429, automotive, and USB 2.0 Measurement & Limit Testing: Waveform/measurement histograms, mask limit testing, and measurement limit testing with stop-on-failure Secure Erase: Standard Intuitive Touch GUI with front panel controls and pull-down menus

**Typical Applications**  
Mixed-signal debugging in embedded systems, protocol analysis across automotive and aerospace applications, analog/digital signal correlation, and electrical characterization during design validation.

**Compatibility & Integration**  
Interfaces: USB (host/device), LAN, VGA Serial Protocols: I<sup>2</sup>C, SPI, RS-232/422/485, UART, CAN, CAN FD, LIN, SENT, CXPI, FlexRay, MIL-STD 1553, ARINC 429, USB PD, I<sup>2</sup>S, user-definable NRZ/Manchester

**Included Software:** Embedded Software Package (D3000GENB), PathWave BenchVue Oscilloscope Software (BV004B)

**Built-in Instruments:** 3-digit DVM, 8-digit counter/totalizer, Bode plot analysis, 20 MHz function/arbitrary waveform generator

# MSOX3012G Characteristics / Specifications

| PARAMETER               | VALUE                                             |
|-------------------------|---------------------------------------------------|
| Model                   | MSOX3012G                                         |
| Series Family           | InfiniiVision 3000G X-Series                      |
| Instrument Type         | Mixed signal oscilloscope                         |
| Analog Bandwidth        | 100 MHz                                           |
| Analog Channels         | 2                                                 |
| Digital Channels        | 16                                                |
| Maximum Sample Rate     | 5 GSa/s class                                     |
| Maximum Memory Depth    | 4 Mpts                                            |
| Waveform Update Rate    | 1000000 waveforms per second class                |
| Display Size            | 8.5 inch capacitive class                         |
| 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 class                |
| Segmented Memory        | Available                                         |
| WaveGen Path            | Built-in function/arbitrary generator option path |
| Digital Voltmeter Path  | Integrated DVM option path                        |
| Serial Trigger Analysis | Optional protocol packages                        |
| Chassis Form            | Benchtop InfiniiVision                            |
| Remote Interfaces       | USB standard with LAN GPIB options                |
| Brand Lineage           | Keysight / Agilent                                |
| Mso Capability          | Yes                                               |
| Bandwidth               | 100 MHz                                           |

# 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.

performance with 5 GSa/s class maximum sample rate and 4 Mpts memory depth on an 8.5 inch capacitive class display.

Applications  
Embedded mixed-signal debug, education labs, serial decode with options, and general-purpose analog measurements.

Key Features  
MegaZoom IV ultra-responsive update class  
Mixed signal digital channel capture  
Optional WaveGen and DVM upgrade path  
Serial protocol option packages  
Bandwidth and MSO upgradability class

Technical Specifications

## Technical Specifications

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|-------------------|------------------------------------|
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| Brand Lineage     | Keysight / Agilent                 |
| Mso Capability    | Yes                                |

Notes  
From Keysight/Agilent InfiniiVision 3000G X-Series fact sheet model row for MSOX3012G. Exact memory split by channel mode follows the published family table.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto: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.