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Data Sheet

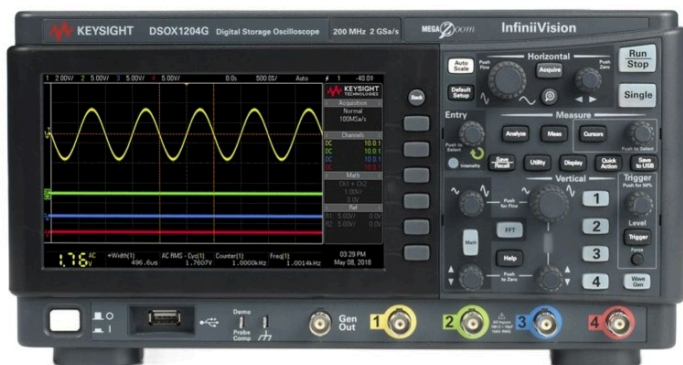
August 31, 2026

AGILENT / KEYSIGHT

Agilent / Keysight DSOX1204G Oscilloscope: 70/100/200 MHz, 4 Analog Channels, with a built-in Waveform Generator

Remote Interfaces: USB 2.0 host and device, LAN Series Family: Keysight InfiniiVision 1000 X-Series Trigger Types: Edge Pulse width Pattern Rise/fall Video I2C SPI UART CAN LIN From Keysight InfiniiVision 1000 X-Series Oscilloscopes data sheet model column for DSOX1204G.

WaveGen is not upgradeable onto Amodels. Agilent Keysight DSOX1204G InfiniiVision Oscilloscope The Keysight/Agilent DSOX1204G is a 4-channel InfiniiVision 1000 X-Series oscilloscope with 70 MHz base bandwidth (100/200 MHz upgrades), 2 GSa/s interleaved sampling, and a built-in 20 MHz WaveGen. OEM 1000 X-Series datasheets list 200000 waveforms/s update rate and Bode plots on Gmodels. Education and general-purpose embedded debugging, serial decode, mask test, and frequency-response (Bode) analysis with WaveGen. Mask limit testing and segmented memory standard



MODEL

**Agilent / Keysight
DSOX1204G**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DSOX1204G

LISTING

<https://aumictechlabs.com/products/dsox1204g-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight DSOX1204G is a 4-channel digital oscilloscope from the InfiniiVision 1000 X-Series, delivering 70 MHz base bandwidth with upgradeable options to 100 MHz or 200 MHz. It integrates

a 20 MHz waveform generator, enabling simultaneous signal capture and stimulus in a single compact instrument. The oscilloscope achieves up to 2 GSa/s sample rate, 2 Mpts memory depth, and 8-bit vertical resolution with effective 12-bit resolution through oversampling and averaging. With a 7-inch WVGA TFT display, 1 M Ω input impedance, and input sensitivity from 500 μ V/div to 10 V/div, it handles signals up to 150 Vrms (200 Vpk). Advanced trigger types include edge, pattern/state, pulse width, setup and hold, rise/fall time, video, I²C, RS-232/422/485/UART, SPI, CAN, and LIN. The horizontal system spans 5 ns/div to 50 s/div with 2.5 ps resolution and supports main, zoom, roll, and XY acquisition modes. Time base accuracy of 50 ppm with $\pm$ 5 ppm annual aging ensures reliable long-term measurements. At 3.23 kg and 130 mm $\times$ 314 mm $\times$ 165 mm, the instrument fits laboratory and field-service environments. Standard 3-year warranty and universal 100–240 V power input provide immediate deployment flexibility.

Technical Specifications

Bandwidth: 70 MHz base, upgradeable to 100 MHz or 200 MHz
Analog Channels: 4
Sample Rate: Up to 2 GSa/s
Memory Depth: Up to 2 Mpts
Vertical Resolution: 8-bit (effective 12-bit with oversampling $\geq$ 20 μ s/div)
Input Impedance: 1 M Ω $\pm$ 2% / 16 pF $\pm$ 3 pF
Input Sensitivity: 500 μ V/div to 10 V/div
Maximum Input Voltage: 150 Vrms, 200 Vpk
Time Base Range: 5 ns/div to 50 s/div
Horizontal Resolution: 2.5 ps
Time Base Accuracy: 50 ppm $\pm$ 5 ppm per year
Display: 7-inch WVGA TFT LCD
Waveform Update Rate: Up to 200,000 waveforms/sec with MegaZoom
Waveform Generator: 20 MHz function generator
Trigger Types: Edge, pattern/state, pulse width, setup and hold, rise/fall time, video, I²C, RS-232/422/485/UART, SPI, CAN, LIN
Acquisition Modes: Normal, auto, single
Display Modes: Main, zoom, roll, XY
Dimensions: 130 mm $\times$ 314 mm $\times$ 165 mm
Weight: 3.23 kg
Power Supply: 100–240 V
Warranty: 3 years

Key Features

MegaZoom technology for high waveform update rates and deep memory
Deskew capability up to $\pm$ 100 ns for channel alignment
Channel-to-channel skew of 1 ns
Input coupling: DC, AC (10 Hz cutoff)
Probe attenuation factor: 0.1X to 1000X (1-2-5 sequence)
Hardware bandwidth limit selectable at approximately 20 MHz
Pre-trigger up to 1 screen width or 200 μ s; post-trigger up to 500 s

Typical Applications

Signal integrity and timing analysis in digital designs
Audio and RF circuit debugging
Educational measurement labs
Field service and troubleshooting
Multi-protocol bus decode and analysis (I²C, SPI, CAN, LIN, RS-232/422/485, UART)

Compatibility & Integration

The DSOX1204G supports probe attenuation from 0.1X to 1000X and accommodates offset ranges from $\pm$ 2 V (500 μ V/div to 200 mV/div) to $\pm$ 100 V (>200 mV/div to 10 V/div). XY mode uses channels 1 and 2 for X/Y traces with external trigger on Z and 1.4 V blanking. The instrument operates on standard 100–240 V mains.

Features & description

From manufacturer datasheet

Built-in 20 MHz WaveGen with Bode plot

Mask limit testing and segmented memory standard Hardware serial decode I2C SPI UART CAN LIN USB 2.0 and LAN connectivity Technical Specifications Model: DSOX1204G Analog Channels: 4 Bandwidth Base: 70 MHz Bandwidth Upgrade 100 MHz: D1200BW1A Bandwidth Upgrade 200 MHz: D1200BW2A Bandwidth Upgrade 100 To 200 MHz: D1200BW3A Calculated Rise Time 70 MHz: less than or equal to 5 ns Calculated Rise Time 100 MHz: less than or equal to 3.5 ns Calculated Rise Time 200 MHz: less than or equal to 1.7 ns Maximum Sample Rate Half Channel: 2 GSa/s Maximum Sample Rate All Four Channels: 1 GSa/s Maximum Memory Depth Half Channel: 2 M points Maximum Memory Depth Four Channels: 1 M points Waveform Update Rate: 200000 waveforms per second Vertical Resolution: 8 bits Built In WaveGen: 20 MHz function generator sine square ramp pulse DC noise with AM FM FSK Bode Plot FRA: standard onGmodels Segmented Memory: Yes Mask Limit Test: Yes Serial Protocol Analysis: I2C SPI UART/RS-232 CAN LIN standard Display Size: 7 inch TFT LCD WVGA Remote Interfaces: USB 2.0 host and device, LAN Built In Frequency Counter: Yes Built In Digital Voltmeter: Yes Series Family: Keysight InfiniiVision 1000 X-Series Input Coupling: AC DC GND class family

DSOX1204G Characteristics / Specifications

PARAMETER	VALUE
Model	DSOX1204G
Analog Channels	4
Bandwidth Base	70 MHz
Bandwidth Upgrade 100 MHz	D1200BW1A
Bandwidth Upgrade 200 MHz	D1200BW2A
Bandwidth Upgrade 100 To 200 MHz	D1200BW3A
Calculated Rise Time 70 MHz	less than or equal to 5 ns
Calculated Rise Time 100 MHz	less than or equal to 3.5 ns
Calculated Rise Time 200 MHz	less than or equal to 1.7 ns
Maximum Sample Rate Half Channel	2 GSa/s
Maximum Sample Rate All Four Channels	1 GSa/s
Maximum Memory Depth Half Channel	2 M points
Maximum Memory Depth Four Channels	1 M points
Waveform Update Rate	200000 waveforms per second
Vertical Resolution	8 bits
Built In WaveGen	20 MHz function generator sine square ramp pulse DC noise with AM FM FSK
Bode Plot FRA	standard onGmodels
Segmented Memory	Yes
Mask Limit Test	Yes
Serial Protocol Analysis	I2C SPI UART/RS-232 CAN LIN standard
Display Size	7 inch TFT LCD WVGA
Remote Interfaces	USB 2.0 host and device, LAN
Built In Frequency Counter	Yes
Built In Digital Voltmeter	Yes
Series Family	Keysight InfiniiVision 1000 X-Series

PARAMETER	VALUE
Input Coupling	AC DC GND class family
Trigger Types	Edge Pulse width Pattern Rise/fall Video I2C SPI UART CAN LIN
Bandwidth	Base: 70 MHz
Rise Time	70 MHz: less than or equal to 5 ns

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	DSOX1204G
Analog Channels	4
Bandwidth Base	70 MHz
Bandwidth Upgrade 100 MHz	D1200BW1A
Bandwidth Upgrade 200 MHz	D1200BW2A
Bandwidth Upgrade 100 To 200 MHz	D1200BW3A
Calculated Rise Time 70 MHz	less than or equal to 5 ns
Calculated Rise Time 100 MHz	less than or equal to 3.5 ns
Calculated Rise Time 200 MHz	less than or equal to 1.7 ns
Maximum Sample Rate Half Channel	2 GSa/s
Maximum Sample Rate All Four Channels	1 GSa/s
Maximum Memory Depth Half Channel	2 M points
Maximum Memory Depth Four Channels	1 M points
Waveform Update Rate	200000 waveforms per second
Vertical Resolution	8 bits
Built In WaveGen	20 MHz function generator sine square ramp pulse DC noise with AM FM FSK
Bode Plot FRA	standard onGmodels
Segmented Memory	Yes
Mask Limit Test	Yes
Serial Protocol Analysis	I2C SPI UART/RS-232 CAN LIN standard
Display Size	7 inch TFT LCD WVGA
Remote Interfaces	USB 2.0 host and device, LAN
Built In Frequency Counter	Yes
Built In Digital Voltmeter	Yes
Series Family	Keysight InfiniiVision 1000 X-Series

PARAMETER	VALUE
Input Coupling	AC DC GND class family
Trigger Types	Edge Pulse width Pattern Rise/fall Video I2C SPI UART CAN LIN

Notes

From Keysight InfiniiVision 1000 X-Series Oscilloscopes data sheet model column for DSOX1204G. WaveGen is not upgradeable ontoAmodels.

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

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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.