

KEYSIGHT TECHNOLOGIES (AGILENT HP)

MSO9404A

The Keysight Technologies (formerly Agilent) Infiniium MSO9404A is a 4 GHz, 4 analog channel plus 16 digital channel mixed-signal oscilloscope belonging to the Infiniium 9000 Series. It combines the functionality of an analog oscilloscope, a 16-channel logic analyzer, and an integrated protocol viewer into a compact, bench-friendly chassis with a large 15-inch touchscreen interface. This instrument is designed for advanced signal integrity analysis, high-speed digital debugging, and comprehensive compliance testing.

SPECIFICATIONS

General

Display	15-inch XGA (1024 × 768) touchscreen active-matrix TFT-LCD
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Physical

Power Supply	100 - 240 VAC (±10%) at 47 - 63 Hz, 375 W max power consumption
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Operating Temperature	5 °C to +40 °C °C
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Dimensions (W×H×D)	434 mm × 330 mm × 231 mm mm
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Weight	11.8 kg kg
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Vertical System - Analog Channels

Analog Bandwidth (-3 dB)	4 GHz
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Calculated Rise Time (10% to 90%)	105 ps
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Input Channels	4 analog channels
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Input Coupling	DC, AC
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Vertical Sensitivity Range (50 Ω)	1 mV/div to 1 V/div
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Vertical Sensitivity Range (1 MΩ)	1 mV/div to 5 V/div
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Vertical Resolution	8-bit (up to 12-bit with high resolution)
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Maximum Input Voltage (50 Ω)	5 Vrms, with transient overvoltage protection
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Vertical System - Digital Channels (MSO)

Digital Channels	16 digital channels
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Input Impedance (Digital Pod)	100 kΩ ± 2% (~8 pF) with flying leads
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Threshold Selections	TTL, CMOS, ECL, PECL, User-defined
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User-Defined Threshold Range	±8.00 V in 10 mV increments
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Threshold Accuracy	±(100 mV + 3% of threshold setting)
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Maximum Input Voltage (Digital Pod)	±40 V peak
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Minimum Input Voltage Swing	500 mVpp
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Horizontal System (Acquisition)

Maximum Real-time Sample Rate (Analog, 4 Channels)	10 GSa/s
Maximum Real-time Sample Rate (Analog, 2 Channels)	20 GSa/s
Maximum Sample Rate (Digital Channels)	2 GSa/s
Standard Memory Depth (Analog)	10 Mpts per channel (20 Mpts interleaved)
Optional Memory Depth Upgrades	Up to 500 Mpts per channel (1 Gpts interleaved)
Timebase Range	5 ps/div to 20 s/div
Timebase Delay Range	-200 s to 200 s

Trigger System

Trigger Sources	Analog channels 1-4, digital channels D0-D15, external trigger, line
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Compliance and Certifications

Calibration Interval	1 year
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Vertical System

Probing Interface	AutoProbe
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Power Specifications

Maximum Power Consumption	375 W
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General & Standards

LXI Compliance	LXI Class C Compliant
LAN Port Speed	10/100/1000 Base-T

Accessories

Included Standard Probes	Four N2873A 500 MHz passive probes
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Trigger

Trigger Level Range (Internal)	±4 divisions from center screen
Trigger Level Range (Auxiliary)	±5 V

TECHNOLOGY

Mixed Signal Oscilloscope

APPLICATIONS

High-Speed Digital Debugging, Protocol Analysis, Jitter and Signal Integrity Analysis

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.