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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 31, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 54855A

The Agilent 54855A is an Infiniium 54850 series oscilloscope with 6 GHz analog bandwidth and 20 GSa/s real-time sampling on each channel. OEM 54855A materials list four channels, deep memory, and InfiniiMax probing for multi-gigabit serial debug. Multi-gigabit serial link debug, high-speed digital validation, and RF envelope analysis on a 6 GHz real-time scope. Maximum Sample Rate Per Channel: 20 GSa/s Maximum Memory Depth Class: deep 54850 memory options Operating Temperature Class: standard laboratory class Calibration Interval Class: annual calibration class recommended Firmware Upgrade Path: option and firmware upgradeable class Bandwidth and sample rate from Agilent 54855A Infiniium documentation. Confirm memory option for exact record length.



MODEL

**Agilent / Keysight
54855A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

54855A

LISTING

<https://aumictechlabs.com/products/54855a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 54855A Infiniium oscilloscope is a 4-channel instrument built for signal integrity measurements and high-speed digital design validation. It delivers 6 GHz guaranteed analog bandwidth with sampling to 20 GSa/s per channel and acquisition memory up to 32 Mpts, enabling precise capture of complex waveforms in demanding test environments. Technical Specifications Analog Bandwidth: 6 GHz (guaranteed); 7 GHz typical with option-008 enhanced bandwidth software Channels: 4 analog inputs Maximum Sample Rate: 20 GSa/s per channel

simultaneously on all four channels Acquisition Memory: Up to 1 Mpts at all sample rates; 32 Mpts at 2 GSa/s and slower Rise Time (10% to 90%): 70 ps Trigger Jitter: 1.0 ps rms Display: 8.4-inch high-resolution color TFT with anti-glare coating Key Features Advanced Triggering: Pattern detection on edges as narrow as 500 ps; logic AND/NAND selection; glitch capture from < 1.5 ns to < 160 ms range Violation Detection: Setup/hold violation triggers; pulse width triggers (500 ps minimum, 1.5 ns to 160 ms range); transition triggers Flexible Trigger Modes: State triggers; delay-by-time (30 ns to 160 ms); delay-by-events (1 to 16,000,000 edges); line voltage triggering; trigger holdoff from 80 ns to 320 ms Trigger Actions: E-mail on trigger; QuickMeas+ integration User Interface: Windows XP Pro-based GUI with analog-style front panel and task-oriented Setup Guide Memory Upgrades: After-purchase deep memory expansion available Connectivity & Integration 10/100 Mbps LAN interface for network printing, data saving, and web-based control Rear USB port for setup files, data export, and screenshots GPIB over LAN for remote instrument access AutoProbe interface compatible with InfiniiMax probes and legacy Agilent probes

54855A Characteristics / Specifications

PARAMETER	VALUE
Analog Bandwidth	6 GHz
Maximum Sample Rate Per Channel	20 GSa/s
Analog Channels	4
Vertical Resolution	8 bit
Maximum Memory Depth Class	deep 54850 memory options
Input Impedance	50 ohms
Probe Interface	InfiniiMax
Time Base Accuracy Class	high stability Infiniium timebase
Trigger Types	edge pulse width pattern glitch class
Display	Infiniium color graphical UI
Jitter Analysis Options	available
Math And FFT	supported
Segmented Memory	available class
Series Family	Infiniium 54850
Sibling Lower Band	54854A class
Rise Time Class	sub-70 ps class bandwidth limited
External Trigger Input	available
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop instrument
Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class
Bandwidth	6 GHz
Rise Time	Class: sub-70 ps class bandwidth limited

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class

54855A Specifications

PARAMETER	VALUE
Agilent 54855A Infiniium Oscilloscope	Overview
Applications	Multi-gigabit serial link debug, high-speed digital validation, and RF envelope analysis on a 6 GHz real-time scope.
Key Features	6 GHz real time bandwidth
Technical Specifications	Analog Bandwidth: 6 GHz
Notes	Bandwidth and sample rate from Agilent 54855A Infiniium documentation. Confirm memory option for exact record length.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class
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Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class Notes Bandwidth and sample rate from Agilent 54855A Infiniium documentation. Confirm memory option for exact record length.

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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Notes	
Bandwidth and sample rate from Agilent 54855A Infiniium documentation. Confirm memory option for exact record length.	

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.