

KEYSIGHT TECHNOLOGIES (AGILENT HP)

54855A

The Keysight (formerly Agilent / HP) 54855A is a high-performance Infiniium series digital oscilloscope offering 6 GHz of guaranteed hardware bandwidth, 4 analog channels, and a 20 GSa/s sample rate on all channels simultaneously. Designed for high-speed digital analysis, it features advanced MegaZoom deep memory and ultra-low trigger jitter, and is optimally paired with the InfiniiMax 1134A probing system for full bandwidth utilization.

SPECIFICATIONS

General

Interfaces	LAN (10/100Base-T), USB, GPIB (IEEE-488), RS-232, Parallel, VGA out
Display	8.4-inch color SVGA TFT LCD (800 x 600 resolution)

Physical

Power Supply	100-240 VAC, 47-63 Hz, 440 W Max
Operating Temperature	5 °C to +40 °C °C
Weight	13 kg kg

Vertical System

Input Channels	4
Input Impedance	50 Ω DC
Maximum Input Voltage	± 5 V (DC + peak AC)
Vertical Resolution	8 bits (up to 12 bits with averaging)
Vertical Sensitivity Range (50 Ω)	1 mV/div to 1 V/div
Input Coupling	DC (50 Ω)

Horizontal System

Timebase Range	20 ps/div to 20 s/div
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Acquisition System

Maximum Real-Time Sample Rate (All Channels)	20 GSa/s
Maximum Optional Memory Depth	1 Mpts (all sample rates); 32 Mpts (≤ 2 GSa/s)
Memory Architecture	MegaZoom technology
Standard Memory Depth	256 kpts per channel (expandable by option)

Trigger System

Trigger Modes	Edge, Glitch, Pattern, State, Delay by Time/Events, Setup/Hold, Transition, Video
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Computer System and Storage

Operating System	Windows XP Pro
Internal Storage Type	Hard Disk Drive (removable with Option 017)

Connectivity and Interfaces

Recommended Active Probe	InfiniiMax 1134A (7 GHz) with E2668A/E2669A connectivity kits
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Waveform Math

Math Functions	Add, Subtract, Multiply, Divide, FFT, Integrate, Differentiate, Invert
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Power

Maximum Power Consumption	440 W
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Environmental

Storage Temperature	-40 °C to +70 °C
Operating Humidity	Up to 95% relative humidity at +40 °C

TECHNOLOGY

Digital Storage Oscilloscope (DSO)

APPLICATIONS

High-Speed Digital Design, Signal Integrity, RF/Microwave 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.