

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8560A

The Keysight Agilent HP 8560A is a high-performance portable spectrum analyzer designed for RF and microwave measurement applications. Operating over a frequency range of 50 Hz to 2.9 GHz, it combines lab-grade performance with a ruggedized, portable form factor. Its exceptional phase noise, excellent dynamic range, and selective resolution bandwidths down to 10 Hz make it ideal for demanding field and benchtop environments.

SPECIFICATIONS

Frequency Specifications

Frequency Range	50 Hz to 2.9 GHz
Minimum Span	100 Hz
Maximum Span	2.9 GHz
Frequency Span Range	0 Hz, 100 Hz to 2.9 GHz

Bandwidth Specifications

Resolution Bandwidth (RBW) Steps	1, 3, 10 sequence
Video Bandwidth (VBW) Steps	1, 3, 10 sequence

Amplitude Specifications

Input Attenuator Range	0 to 70 dB
Input Attenuator Steps	10 dB
Maximum Safe RF Input Level (Continuous Wave)	+30 dBm (1 W) with ≥ 10 dB attenuation
Maximum Safe RF Input Level (DC Voltage)	0 V (DC coupled)

Sweep and Triggering

Minimum Sweep Time (Span > 0 Hz)	50 ms
Maximum Sweep Time (Span > 0 Hz)	100 s
Sweep Time Range (Zero Span)	50 μ s to 100 s

Inputs and Outputs

RF Input Connector Type	Type N female
RF Input Impedance	50 ohms
Calibrator Output	300 MHz, -10 dBm
External Reference Input Frequency	10 MHz
IF Output Connector	BNC female
IF Output Frequency	310.7 MHz
Video Output Connector	BNC female
External Reference Input Connector	BNC female
External Reference Output Connector	BNC female
Sweep Output Connector	BNC female
1st LO Output Connector	SMA female
Earphone / Demodulator Output	Internal speaker and front panel 1/8-inch (3.5 mm) jack

User Interface and Trace Functions

Number of Traces	3
Marker Functions	Marker to Peak, Delta Marker, Marker to Center

Connectivity and Control

Direct Print/Plot Compatibility	HP-GL compatible printers and plotters via GPIB
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Power Requirements

AC Input Frequency Range	47 to 440 Hz (115V), 47 to 66 Hz (230V)
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Physical Characteristics

Chassis Type / Form Factor	Portable, ruggedized
Handle and Bumper Configuration	Tilt-handle, front and rear protective bumpers

Factory Options and Accessories

Tracking Generator Option	Option 002 (300 kHz to 2.9 GHz)
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Environmental

Environmental Compliance	Meets MIL-T-28800C, Type III, Class 3, Style C
Maximum Operating Altitude	4,570 meters (15,000 feet)
Maximum Non-Operating Altitude	15,240 meters (50,000 feet)
Environmental Profile	MIL-T-28800C, Type III, Class 3, Style C

Amplitude

Ref Level Calibration Uncertainty	± 0.3 dB at 300 MHz, -20 dBm
Residual Responses	< -90 dBm (10 MHz to 2.9 GHz, 0 dB attenuation)
Image, Multiple, and Out-of-Band Responses	< -70 dBc (10 MHz to 2.9 GHz)

Tracking Generator (Option 002)

Tracking Generator Output Frequency Range	300 kHz to 2.9 GHz (Option 002)
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Options

Option 001	2nd IF Output (310.7 MHz)
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TECHNOLOGY

Analog and digital RF spectrum analysis

APPLICATIONS

RF transmitter testing, spurious signal search, phase noise measurement, and electromagnetic compatibility diagnostics

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