

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8757D

The Keysight (Agilent/HP) 8757D is a high-performance scalar network analyzer designed to measure insertion loss, gain, return loss, SWR, and power quickly and accurately. When paired with compatible detectors, directional bridges, and a signal source, it forms a complete measurement system capable of operating up to 50 GHz in coaxial and 110 GHz in waveguide environments. It features four display channels, AC and DC detection modes, and advanced display functionality including limit line testing, adaptive normalization, and noise figure measurement capability.

SPECIFICATIONS

General

Interfaces	HP-IB (IEEE-488), 8757 System Bus Interface
Display	High resolution color display

Physical

Power Supply	100/120/220/240 Vac, 48-66 Hz
Operating Temperature	0 to +55 °C °C
Dimensions (W×H×D)	425 × 178 × 482 mm mm
Weight	22 kg kg

System Characteristics

Measurement Types	Insertion loss, gain, return loss, SWR, power
Frequency Range	Up to 50 GHz in coax, up to 110 GHz in waveguide (configuration / source dependent)
Number of Display Channels	4
Measurement Modes	AC and DC detection modes

Sweep and Display Characteristics

Data Points per Trace	101 to 1601
Cursor Search Functions	Max, min, n dB, BW

Detector Inputs

Number of Detector Inputs	3 (standard), 4 (optional)
Compatible Detectors and Bridges	Agilent 85037 series precision detectors and directional bridges
Internal Power Calibrator	Optional

Connectivity and Interfaces

Print / Plot Buffer	Internal plotter/printer buffer
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Signal Detection

Required AC Modulation Frequency	27.778 kHz (Square Wave)
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Environmental

Storage Temperature	-40 to +75 °C
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Data Processing

Averaging	1, 2, 4, 8, 16, 32, 64, 128, or 256 traces
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Scale & Resolution

Scale/Division (Log Magnitude)	0.1, 0.2, 0.5, 1, 2, 5, 10, 20 dB/div
Display Resolution (Log Magnitude)	0.01 dB
Display Resolution (SWR)	0.001

Memory

Save/Recall Registers	9 internal instrument states
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Rear Panel I/O

Sweep Input Voltage	0 to 10 V
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TECHNOLOGY

Scalar Network Analysis

APPLICATIONS

Microwave component test, insertion loss, gain, return loss, SWR, and power measurements

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