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**Data Sheet**

August 14, 2026

AGILENT / KEYSIGHT

# Agilent / Keysight 8757D 110GHz Scalar Network Analyzer

The HP 8757D is a scalar network analyzer for transmission and reflection measurements from 10 MHz to 110 GHz depending on detectors and sources. OEM HP 8757D/E data sheet lists four display channels, three detector inputs (optional fourth), +16 to minus 60 dBm dynamic range class, AC/DC detection, and 101 to 1601 points per trace. Swept insertion loss, gain, return loss, and SWR of microwave components; absolute power with 85037 precision detectors and Option 002 calibrator; production limit testing. Limit Line Segments: up to 12 segments, channels 1 and 2, 401 points or fewer Hpib Transfer Binary 401 Points Typical: 30 ms typical Hpib Transfer Ascii 401 Points Typical: 500 ms typical Compatible Detectors: 85025, 85026, 85027 bridges, 85037 precision (8757D only)



MODEL

**Agilent / Keysight  
8757D**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**8757D**

LISTING

<https://aumictechlabs.com/products/8757d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The Agilent/Keysight 8757D is a scalar network analyzer delivering precise amplitude measurements across microwave frequencies up to 110 GHz. It measures insertion loss, gain, return loss, SWR, and power across coaxial and waveguide paths, serving laboratory and production environments with dynamic range to 83 dB. Technical Specifications Frequency Range Coaxial: up to 50 GHz Waveguide: up to 110 GHz (with compatible signal generator) Standard

coaxial: 10 MHz to 40 GHz Measurement Range +16 dBm to -60 dBm Dynamic range: 75 dB standard; 83 dB extended (with high-power signal generator option) Display & Resolution Four independent display channels Three standard detector inputs; optional fourth available Vertical resolution: 0.003 dB (dBm), 0.006 dB (dB), 0.01 dB (normalized) Selectable measurement points: 101 to 1601 per trace High-resolution color display (CRT standard; LCD upgrade option available) Data & Analysis Trace averaging: 2, 4, 8, 16, 32, 64, 128, or 256 successive traces Linear moving average smoothing: aperture 0.1% to 20% of trace width Adaptive normalization with frequency span interpolation Limit lines for channels 1 and 2 (traces  $\leq 401$  points) Cursor functions: max/min search, n dB search, bandwidth measurement AUX voltage measurement: -10 to +10 V input with  $\pm 60$  mV maximum error Data Storage & Output Internal save/recall registers for states and measurement data External GPIB disk drive compatibility (LIF format: binary or ASCII) HP 9000 series 200/300 computer compatibility Internal plotter/printer buffer Electrical AC or DC detection modes Power: 48 to 66 Hz, 100/120/220/240 V  $\pm 10\%$ ; typically 155 VA Key Features Variable sweep time based on trace count and point density Dedicated GPIB (IEEE-488) control interface Adaptive calibration for reduced frequency spans Typical Applications Insertion loss, gain, and return loss characterization of microwave components; SWR measurement in component qualification and production test. Compatibility & Integration Works with Agilent/Keysight signal sources and detector modules to form complete measurement systems. GPIB interface enables integration with HP 9000 series computers and external storage.

## 8757D Characteristics / Specifications

| PARAMETER                                    | VALUE                                                    |
|----------------------------------------------|----------------------------------------------------------|
| Model                                        | 8757D                                                    |
| Instrument Type                              | Scalar network analyzer                                  |
| Frequency Coverage With Compatible Detectors | 10 MHz to 110 GHz class, detector and source dependent   |
| Display Channels                             | 4 independent display channels                           |
| Detector Inputs Standard                     | 3                                                        |
| Detector Inputs Option 0                     | 4                                                        |
| Horizontal Points One Trace                  | 101, 201, 401, 801, 1601                                 |
| Horizontal Points Two Traces                 | 101, 201, 401, 801                                       |
| Horizontal Points Three Or Four Traces       | 101, 201, 401                                            |
| Dynamic Range Class                          | +16 to minus 60 dBm class with compatible detectors      |
| Detection Modes                              | AC and DC                                                |
| Ac Modulation Frequency                      | 27778 Hz $\pm$ 20 Hz                                     |
| Ac Modulation On Off Ratio                   | $\geq$ 30 dB                                             |
| Vertical Resolution Dbm                      | 0.003 dB (0.01 dB cursor)                                |
| Display Scale Dbm                            | 0.1 to 20 dB/div, minus 80 to +80 dBm                    |
| Display Scale Db                             | 0.1 to 20 dB/div, minus 90 to +90 dB                     |
| Swr Display Range                            | 1.0 to 37.0                                              |
| Aux Voltage Range                            | minus 10 to +10 V                                        |
| Averaging Factors                            | 2, 4, 8, 16, 32, 64, 128, or 256 traces                  |
| Smoothing Aperture                           | 0.1% to 20% of trace width                               |
| Internal Save Recall Registers               | 9 complete front-panel states                            |
| Limit Line Segments                          | up to 12 segments, channels 1 and 2, 401 points or fewer |
| Sweep In Voltage                             | 0 to 10 V from sweeper                                   |
| Hpib Transfer Binary 401 Points Typical      | 30 ms typical                                            |
| Hpib Transfer Ascii 401 Points Typical       | 500 ms typical                                           |

| PARAMETER             | VALUE                                                     |
|-----------------------|-----------------------------------------------------------|
| Operating Temperature | 0 C to 55 C                                               |
| Storage Temperature   | minus 40 C to 75 C                                        |
| Compatible Detectors  | 85025, 85026, 85027 bridges, 85037 precision (8757D only) |
| Remote Interface      | HP-IB IEEE 488-1978                                       |

# General Specifications & Supplementary Characteristics

| PARAMETER             | VALUE                                                                                                                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage temperature   | minus 40 C to 75 C                                                                                                                                                                                         |
| Operating temperature | 0 C to 55 C                                                                                                                                                                                                |
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| Compatible Detectors  | 85025, 85026, 85027 bridges, 85037 precision (8757D only)                                                                                                                                                  |
| Remote Interface      | HP-IB IEEE 488-1978 Notes Numeric rows from HP 8757D/E Scalar Network Analyzers Technical Specifications (10 MHz to 110 GHz).<br>85037 precision detectors are not compatible with 8757A/E, 8756, or 8755. |

# 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                               |                                                          |
|----------------------------------------------|----------------------------------------------------------|
| Specifications                               |                                                          |
| PARAMETER                                    | VALUE                                                    |
| Model                                        | 8757D                                                    |
| Instrument Type                              | Scalar network analyzer                                  |
| Frequency Coverage With Compatible Detectors | 10 MHz to 110 GHz class, detector and source dependent   |
| Display Channels                             | 4 independent display channels                           |
| Detector Inputs Standard                     | 3                                                        |
| Detector Inputs Option 001                   | 4                                                        |
| Horizontal Points One Trace                  | 101, 201, 401, 801, 1601                                 |
| Horizontal Points Two Traces                 | 101, 201, 401, 801                                       |
| Horizontal Points Three Or Four Traces       | 101, 201, 401                                            |
| Dynamic Range Class                          | +16 to minus 60 dBm class with compatible detectors      |
| Detection Modes                              | AC and DC                                                |
| Ac Modulation Frequency                      | 27778 Hz ±20 Hz                                          |
| Ac Modulation On Off Ratio                   | ≥30 dB                                                   |
| Vertical Resolution Dbm                      | 0.003 dB (0.01 dB cursor)                                |
| Display Scale Dbm                            | 0.1 to 20 dB/div, minus 80 to +80 dBm                    |
| Display Scale Db                             | 0.1 to 20 dB/div, minus 90 to +90 dB                     |
| Swr Display Range                            | 1.0 to 37.0                                              |
| Aux Voltage Range                            | minus 10 to +10 V                                        |
| Averaging Factors                            | 2, 4, 8, 16, 32, 64, 128, or 256 traces                  |
| Smoothing Aperture                           | 0.1% to 20% of trace width                               |
| Internal Save Recall Registers               | 9 complete front-panel states                            |
| Limit Line Segments                          | up to 12 segments, channels 1 and 2, 401 points or fewer |
| Sweep In Voltage                             | 0 to 10 V from sweeper                                   |
| Hpib Transfer Binary 401 Points Typical      | 30 ms typical                                            |
| Hpib Transfer Ascii 401 Points Typical       | 500 ms typical                                           |

| PARAMETER             | VALUE                                                     |
|-----------------------|-----------------------------------------------------------|
| Operating Temperature | 0 C to 55 C                                               |
| Storage Temperature   | minus 40 C to 75 C                                        |
| Compatible Detectors  | 85025, 85026, 85027 bridges, 85037 precision (8757D only) |
| Remote Interface      | HP-IB IEEE 488-1978                                       |

Notes

Numeric rows from HP 8757D/E Scalar Network Analyzers Technical Specifications (10 MHz to 110 GHz). 85037 precision detectors are not compatible with 8757A/E, 8756, or 8755.

## Ordering Information

| OPTION     | DESCRIPTION                           |
|------------|---------------------------------------|
| Option 002 | calibrator; production limit testing. |

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

788 S 500 E, Pleasant Grove, UT 84062  
[sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341  
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·  
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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.