

# HP 8756A

## HP 8756A 60GHz Scalar Network Analyzer

- Direct digital plot capability
- Fully annotated digital display
- High (40 dB) directivity bridges
- "Autoscale" for fast measurements
- Full HP-IB programmability
- Nine "Save/Recall" registers



Measure insertion loss and gain, return loss, and absolute power quickly and accurately with the 8756A scalar network analyzer. These scalar measurements can be performed over a broad 10MHz to 60GHz frequency range.

### Easy-to-Use

The 8756A features two independent display channels with separate controls. Complete measurements can be performed using only five control keys for each channel.

Make even faster measurements with one key - the "Autoscale" key. Press it and the built-in microprocessor chooses the optimum scale and reference level to display your measurement. Use the convenient display cursor to read out magnitude and frequency at each data point.

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# HP 8756A Scalar Network Analyzer: Specifications

<b>Function</b>	The 8756A processes and displays the demodulated 27.8 kHz signals from the HP 11664 detectors and the HP 85020 or 85027 bridges.
<b>Dynamic Range</b>	+10dBm to -50dBm in all three inputs (A, B, and R)
<b>Dynamic Accuracy</b>	dynamic accuracy of a single channel measurement using HP 11664A/D/E Detector. Measurement taken over +10 to -50dBm at 25°C and at 50 MHz. ± (0.1 dB + 0.01 dB/dB) from +10 to -40dBm. ± (0.2 dB + 0.02 dB/dB) from -40 to -50dBm.
<b>Scale Resolution</b>	0.1, 0.2, 0.5, 1, 2, 5, 10 or 20 dB per division. Independently controlled for each measurement channel.
<b>Reference Offset</b>	offset level adjustable in 0.01 dB increments from -70.00 to +20.00dBm (absolute) or -90.00 to +90.00dB (ratio).
<b>Resolution</b>	
<b>Vertical</b>	0.006dB for display. 0.01dB for "Display Cursor."
<b>Horizontal</b>	401 points.
<b>Adjustable Horizontal Resolution</b> (101, 201 or 401 points) is available as Option H20.	
<b>Sweep Time</b>	minimum sweep time ≥ 150 ms (50 ms with Opt. H20).
<b>Averaging</b>	2, 4, 8, 16, 32, 64, 128, or 256 traces may be averaged. Independent control of each display channel.
<b>Normalization</b>	traces are stored and normalized to 0.006 dB resolution, independent of scale/division or offset. The horizontal resolution is 401 points.
<b>Transfer Formats</b>	data may be transferred as either ASCII strings (nominally 6 characters per reading) or as 16 bit integers. Readings may be taken at a single point or as an entire 401 point measurement trace.
<b>Transfer Speed</b>	ASCII format, trace: 800 ms typical. ASCII format, point: 10 ms typical. Binary format, trace: 35 ms typical. Binary format, point: 5 ms typical.
<b>Description</b>	The 8756A System Interface is an HP-IB port used exclusively by the 8756A to control and extract information from a sweep oscillator and a digital plotter.
<b>Sweep Oscillators</b>	8350B with RF plug-in, 8340B/8341B synthesized sweep oscillators.
<b>Plotters</b>	7440A Opt. 002, 7475A Opt.002, 7550A Opt. 002, 9872C.
<b>Power Requirements</b>	48 to 62 Hz, 115/230V ± 10%, typically 100 watts.
<b>Dimensions</b>	178 H X 425.5 W X 451 mm D (7.0 X 16.75 X 17.75 in.)
<b>Weight</b>	Net, 15 kg (33 lb). Shipping, 20 kg (44 lb).