

## TWO CHANNEL FFT NETWORK ANALYZER COMPARISON

<u>Specifications</u>	<u>SR780</u>	<u>HP 35665A</u>	<u>HP 35670A</u>
Frequency Range	2 channels: DC to 102.4 kHz 1 channel: DC to 102.4 kHz	DC to 51.2 kHz DC to 102.4 kHz	DC to 51.2 kHz DC to 102.4 kHz
FFT Span	Both displays may have <b>different</b> spans.	Both displays must have the <b>same</b> span.	Both displays must have the <b>same</b> span.
FFT Resolution	100, 200, 400, 800 lines	100, 200, 400, 800 lines	100, 200, 400, 800, 1600 lines
Dynamic Range	FFT: -80 dBfs Swept Sine: 145 dB Octave: 80 dB	-72 dBfs 120 dB 80 dB	-80 dBfs 130 dB 80 dB
Analysis:			
Real-Time BW (avg. on, 2 channels)	102.4 kHz	12.8 kHz	12.8 kHz
Meas. Rate (400 lines, 2 channels)	> 512 avg/sec.	> 15 avg/sec.	> 33 avg/sec.
Input Range	3.16 mVpk to 50.11 Vpk	3.99 mVpk to 31.7 Vpk	3.99 mVpk to 31.7 Vpk
Input Noise Level	< -160 dBVrms/√Hz	< -130 dBVrms/√Hz	< -130 dBVrms/√Hz
Amplitude Accuracy (cross channel)	± 0.05 dB (DC to 102.4 kHz)	± 0.04 dB (DC to 51.2 kHz)	± 0.04 dB (DC to 51.2 kHz)
Phase Accuracy (cross channel)	± 0.5°	± 0.5°	± 0.5°
Common Mode Rejection (at 1 kHz)	90 dB	60 to 80 dB	60 to 75 dB
Crosstalk	< -145 dB	< -130 dB	< -135 dB
Harmonic and Sub-Harmonic Distortion	< -80 dBc (f < 30 kHz) < -74 dBc (f > 30 kHz)	< -60 dBc (f < 10 kHz) < -40 dBc (f > 10 kHz)	< -60 dBc (f < 30 kHz) < -40 dBc (f > 30 kHz)
<u>Features</u>			
Arbitrary Output Source	included	\$ 510 (opt.)	\$ 510 (opt.)
ANSI Standard Octave Analysis	included	\$ 2,040 (opt.)	\$ 2,040 (opt.)
Swept Sine Measurement	included	\$ 1,020 (opt.)	\$ 1,020 (opt.)
Standard Memory	2 Msamples	200 ksamples	500 ksamples
Optional Memory	4 Msamples and 8 Msamples	1.2 Msamples and 3.2 Msamples	2.6 Msamples and 4.7 Msamples
GPIB & RS232	included	GPIB only	included
3.5" Disk Drive	included	included	included
Printer Interface	included	<b>none</b>	included
<u>Price</u>			
Instrument	\$9,950	\$13,500	\$17,250
Options	\$ <u>0</u>	\$ <u>3,570</u>	\$ <u>3,570</u>
<b>Total</b>	<b>\$9,950</b>	<b>\$17,070</b>	<b>\$20,820</b>