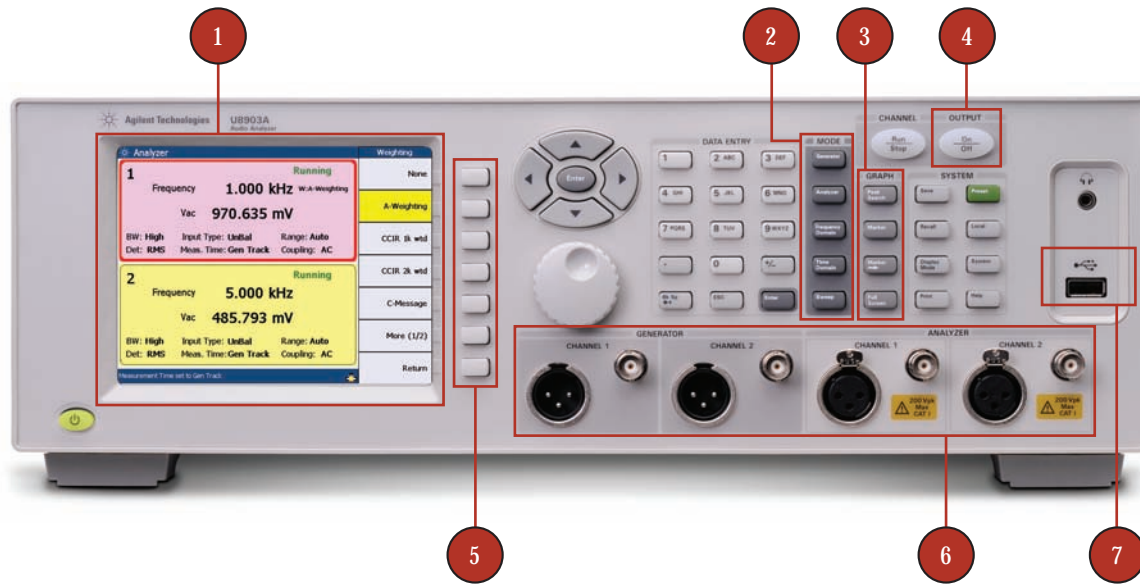


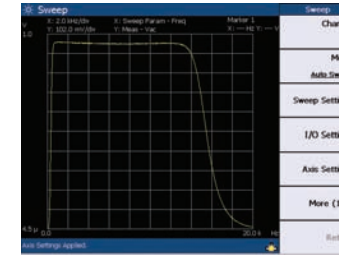
Agilent U8903A Audio Analyzer

Replacing the popular HP 8903B with more features, expanded performance

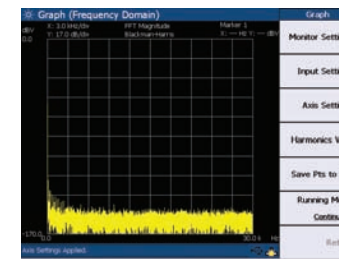
The Agilent U8903A audio analyzer is a scalable, single-unit solution that provides versatile measurement functions, diverse test signals, and powerful analysis capabilities; plus, it comes with industry-standard connectors. At DC and from 10 Hz to 100 kHz, it helps you measure and quantify audio performance in applications such as wireless audio, analog components and ICs, and consumer audio. The U8903A also replaces the widely used HP 8903B audio analyzer.



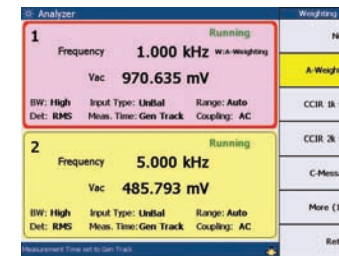
1. 5.7-inch color display
2. One-button access to analyzer, generator and sweep modes
3. Quick buttons for graphical analysis
4. Front-panel output on/off button for DUT protection
5. Softkeys for easy function selection
6. Dual-channel generator outputs and analyzer inputs with XLR connectors
7. Plug-and-play USB 2.0 connectivity



Wide selection of filters



Low noise level



Versatile measurement functions

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Technical Specifications

Source

Connectors	
Balanced output	XLR
Output impedance	100 Ω , 600 Ω
Unbalanced output	BNC
Output impedance	50 Ω , 600 Ω
Sine	
Frequency range	5 Hz to 80 kHz
Frequency accuracy	5 ppm (0.0005%)
Voltage range (balanced output)	0 V to 16 Vrms
Voltage range (unbalance output)	0 V to 8 Vrms
Voltage accuracy	+/- 1%
Flatness	+/- 0.01 dB, 20 Hz to 20 kHz
THD+N at 1 kHz, 1 Vrms	\leq -95 dB, 20 Hz to 20 kHz

Includes dual-sine, multi-tone (up to 60), inter-modulation distortion (IMD), different frequency distortion (DFD), arbitrary waveform, and noise generation (Gaussian and Rectangular PDF) capabilities.

Filters

Standard filters	
Low Pass Filters	15 kHz, 20 kHz, 30 kHz
High Pass Filters	22 Hz, 100 Hz, 400 Hz
Weighting filters	A weighting, C-Message, CCIR-1K, CCIR-2K, CCITT
User defined filters	Users can define their own filters using software and upload them to the analyzer through USB, GPIB or LAN interfaces

FFT analyzer

Frequency range	DC to 100 kHz
FFT size	Up to 32768 points
Windows functions	Rectangular, Hann, Blackman-Harris, Rife-Vincent 1 and 3, Hamming, Flattop

Product specifications and appearance are subject to change without notice.
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5990-4167EN

Analyzer

Connectors	
Balanced output	XLR
Input impedance	200 k Ω
Unbalanced output	BNC
Input impedance	100 k Ω
Detectors	
Level detectors	RMS, Quasi-peak, Peak-to-peak
Frequency	
Frequency range	DC/10 Hz to 100 kHz
Frequency accuracy	5 ppm (0.0005%)
Voltage	
AC measurement range	<1 μ V to 140 Vrms
AC Voltage range	400 mV to 140 Vrms
AC accuracy (20 Hz to 20 kHz)	+/- 1%
DC measurement range	0 to +/- 200 V
DC accuracy	+/- 1%
Flatness	+/- 0.01 dB, 20 Hz to 20 kHz
THD+N/ SINAD	
Fundamental Frequency Range	10 Hz to 100 kHz
THD+N at 1 kHz, 1 Vrms	\leq -101 dB, 20 Hz to 20 kHz
Other Measurements	CMRR, Cross Talk, Phase, SNR, Sweep capabilities
Price (US\$)	12,000

General

Weight	7.5 kg (15.5 lbs)
Dimension (WxHxD)	426.8 mm x 141.35 mm x 405 mm
Interfaces	USB, LAN, GPIB

Optional accessories

1. BNC(male) – BNC(male) 2m cable
2. BNC(male) – RCA(male) 2m cable
3. XLR(male) – XLR(female) 2m cable
4. Rack mount kit – standard 3U

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