

Product Specifications



Axiom
Standard Verification

REAL-EAR (REM)

Per IEC 61669/ANSI S3.46**

REM Speaker 13.5 x 9.5 x 9.5 cm
Probe module dual probe and ref. microphones
Probe microphone tube silicone 1 mm diameter x 75 mm
Analyzer Frequency range 200 – 8000 Hz
Analyzer filter parameters tones, warble 1/12 octave
speech, noise 1/3 octave,
Analyzer display range 200 – 8000 Hz
Probe microphone noise floor (200-8000k) <45dB SPL
Frequency accuracy 2%
Measurement dynamic range 30 – 135 dB SPL (200 – 2500 Hz)
30 – 140 dB SPL (2500 – 8000 Hz)
Speech-like stimuli calibrated speech (level and spectrum),
ISTS, band-limited and s/sh for verifying frequency lowering,
live speech
Broadband noise stimuli tone burst, pseudo-pink noise
Narrowband stimuli warble sawtooth modulated +/- 3% over 128 ms
User supplied stimuli WAV file, auto level
Stimulus level range 40 – 85 dB SPL in 5 dB steps
Measurement accuracy at 1kHz (CAL position) +/- 1 dB
Measurement accuracy re 1kHz 200 – 2000Hz +/-1.5 dB
2000 – 8000Hz +/- 2.5 dB
Equalization modified pressure method – concurrent and stored

**Distance of .5m in a quasi-free soundfield, where the boundaries of the room exert a negligible effect.

TEST BOX (HIT)

Per IEC 60118/ANSI S3.22

Test box speaker 1 – 30.5 mm round
Working space 152.4 cm³
Test box isolation @1kHz >25 dB
Analyzer Frequency range 200 – 8000 Hz
Analyzer Display range 200 – 8000 Hz
Coupler microphone noise floor (200 – 8000 Hz) <40 dB SPL
Frequency accuracy 2%
Measurement dynamic range 30 – 135 dB SPL (200 – 2500 Hz)
30 – 140 dB SPL (2500 – 8000 Hz)
Speech-like stimuli calibrated speech (level and spectrum),
ISTS, band-limited and s/sh for verifying frequency lowering,
live speech
Broadband noise stimuli tone burst, pseudo-pink noise
Narrowband stimuli pure tone
User supplied stimuli WAV file, auto level
Test stimulus levels 40 to 90 dB in 5 dB steps
Test stimulus distortion (tone) <2% at 90 dB SPL
<0.5% at 70 dB SPL
Measurement accuracy at 1 kHz (CAL position) +/- 1 dB
Measurement accuracy re 1 kHz 200 – 5000 Hz +/- 1.5 dB SPL
5000 – 8000 Hz +/- 2.5 dB SPL
Equalization modified pressure method, concurrent
Harmonic distortion measurement 2nd and 3rd or 2nd plus 3rd
Harmonic distortion range 200 – 4000 Hz
Harmonic distortion accuracy +/- 1%

GENERAL

Temperature (storage) -20 to +60°C
Relative humidity (non-condensing) 5% to 95%
Atmospheric pressure 500 – 1060 hPa
Power source 100 – 240V, 47 – 63Hz, 1.35A
Overall dimensions 31.75 x 31.12 x 10.8 cm (12.5 x 12.25 x 4.25 in.)
Weight 3.45 kg (7.6 lbs)
Display type User supplied
Display size User supplied
Power amplifiers 1
Stimulus channels 1
Measurement channels 2

Connectivity 1 - Ethernet (RJ45)
4 - USB
2 - HDMI
1 - External speaker (RCA)
1 - RECD transducer (3.5 mm TRS)
1 - Test chamber ref. mic. (3.5 mm TRS)
1 - Coupler microphone (3.5 mm TRS)
2 - Real-ear microphones (3.5 mm TRS)

For detailed testing capabilities, see the Axiom user guide at <http://audioscan.com/library>

Contact us today for a free demo at audioscan.com/professional.



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Professional Verification

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