

Product Specifications



Axiom
Standard Verification

STORAGE & TRANSPORTATION

Temperature -20 to +60°C

Relative humidity (non-condensing) 5% to 95%

Atmospheric pressure 500 - 1060 hPa

GENERAL

Power source 100-240V, 47-63Hz, 1.35A

Overall dimensions 31.75 cm x 31.12 cm x 10.8 cm (12.5 in. x 12.25 in. x 4.25 in.)

Weight 3.45kg (7.6lbs)

Display type User supplied

Printer type User supplied

Power amplifiers 1

Stimulus channels 1

Measurement channels 2

Connectivity

- 4 - USB
- 1-Ethernet (RJ45)
- 2-HDMI
- 1-RECD transducer (3.5mm st)
- 1-test chamber ref. mic. (3.5mm st)
- 1-coupler microphone (3.5mm st)
- 1-external speaker (RCA)
- 2-real-ear microphones (3.5mm st)

TEST BOX

Working space 152.4 cm³ [60 in³ (Irregular)]

Isolation @ 1kHz >25dB

Speaker 1 - 30.5 mm round (1.2 in. round)

Frequency range 200 - 8000Hz

Coupler microphone noise floor (200 - 8000 Hz): <40dB SPL

Test stimuli tone, tone burst, pink noise, user supplied, calibrated or live speech, ISTS, filtered speech for verifying frequency-lowering instruments

Test stimulus levels 40 to 90 dB in 5 dB steps

Test stimulus distortion <2% at 90dB SPL
<0.5% at 70dB SPL

Test stimulus accuracy at reference mic. for tones (200-2000 Hz) +/- 1.5dB SPL

Test stimulus accuracy at reference mic. for tones (2000-8000 Hz) +/- 2.5 dB SPL

Equalization method pressure method

Analysis frequencies per octave 12

Analysis filter bandwidth (noise) 1/12 octave

Measurement accuracy at 1 kHz +/- 1 dB

Measurement accuracy re 1 kHz +/- 1dB (200-5000 Hz)
+/- 2.5dB (5000 - 8000Hz)

Measurement range (tones) 30 - 145dB SPL

Harmonic distortion measurement 2nd and 3rd or 2nd plus 3rd

Harmonic distortion range 200 - 4000Hz

Harmonic distortion accuracy +/- 1%

ANSI S3.22/IEC 60118 TESTS AVAILABLE

- OSPL90
- Full-on Gain
- Reference Test Gain
- Frequency Response
- Frequency Range
- Maximum OSPL90
- Harmonic Distortion
- Attack & Release Time
- Equiv. Input Noise

OTHER TESTS AVAILABLE

- Speechmap® real-speech audibility measures
- Manual measurement of output, gain, and distortion

ON-EAR

Speakers 13.34 cm x 9.53 cm x 9.53 cm (1-5.25 in. x 3.75 in. x 3.75 in.)

Probe microphone tube Silicone 1 mm diameter x 75 mm

Probe microphone noise floor (200-8000 Hz): <45dB SPL

Frequency range 200 - 8000Hz

Test Stimuli tone, tone burst, pink noise, user supplied, calibrated or live speech, ISTS, filtered speech for verifying frequency-lowering instruments

Frequency modulation (tones) sawtooth +/- 3% over 128ms

Test stimulus levels for tones 40 - 85 dB SPL in 5 dB steps

Test stimulus accuracy at reference mic. for tones (200-2000Hz) +/- 1.5dB SPL

Test stimulus accuracy at reference mic. for tones (2000-8000Hz) +/- 2.5dB SPL

Equalization method pressure method (stored for open fittings)

Frequencies per octave (swept tones) 12

Frequencies per octave (tone burst) 3

Analysis bandwidth (speech, noise) 1/3 octave

Measurement accuracy at 1kHz +/- 1 dB

Measurement accuracy re 1kHz +/- 1dB (200-5000Hz)
+/- 2.5dB (5000-8000Hz)

Measurement range 30-135 dB SPL (200-2500Hz)
30-140 dB SPL (2500-8000Hz)

ANSI S3.46/IEC 61669 TESTS AVAILABLE

- Real-Ear Unaided Response
- Real-Ear Aided Response
- Real-Ear Occluded Response
- Real-Ear Insertion Gain

OTHER TESTS AVAILABLE

- Speechmap®

FITTING METHODS AVAILABLE

Speechmap® with DSL 5.0a, NAL-NL1, NAL-NL2

Insertion gain with NAL-RP, NAL-NL1, Fig6, Pogoll, Berger, Libby

SENSORY LOSS SIMULATOR

Simulation types Linear, conductive
non-linear outer hair cell cochlear loss

Simulation bands 65

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



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Professional Verification

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