

| Frequency range | |
|--|---|
| Insert earphones: | Standard frequencies: 125 - 8000 Hz |
| TDH39 earphones, HDA 200/HDA 300, ME-70, HOLMCO: | Standard frequencies: 125 - 12500 Hz |
| BC: | Standard frequencies: 250 - 8000 Hz |
| SF: | Standard frequencies: 125 - 12500 Hz |
| Accuracy: | < 0.03% |
| FRESH noise stimulus: | Available in entire frequency range within the transducer specified range (for SF 125 - 12500 Hz). Accuracy 0.3% |
| Narrow Band Noise masking: | Available for each stimulus frequency. |
| Frequency resolution: | 125 to 12500 Hz at standard frequencies |
| Stimulus types | |
| Tone audiometry | Tone, Warble, Pulsed tone, Pulsed warble, FRESH Noise |
| Loudness Scaling | Warble, ISTS, FRESH Noise |
| Masking types | |
| AC, BC, SF: | Narrow Band Noise (correlated) Speech Weighted Noise (correlated) White Noise (Wide band noise) (correlated) |
| Stimulus modulation | |
| FM (Warble): | Adjustable modulation rate and depth Modulation rate: 1-20 Hz (default: 5 Hz). Modulation depth: 1-25% of center frequency (default: 5%). |
| SISI: | 5, 2, 1 dB increments |
| Signal presentation | |
| Accuracy of sound level | |
| Entire level range (AC): | 125 to 5000 Hz: ± 3 dB, 5000 to 12500 Hz: ± 5 dB |
| Entire level range (BC): | 250 to 5000 Hz: ± 4 dB, 5000 to 8000 Hz: ± 5 dB |
| Attenuator | |
| 1 or 5 dB step resolution over the entire range. | |
| HL Range | |
| The maximum output levels from AURICAL Aud depend on the actual sensitivity of the individual transducers, and they will be slightly different for each unit. However, the minimum requirements from IEC and ANSI standards are fulfilled for all units. | |
| Total harmonic distortion | |
| Air < 2.5% | |
| Bone < 5% | |
| Selectable transducers | |
| AC: | TDH 39, ME-70, HOLMCO, HDA 200/HDA 300 headphones, and Insert Earphones |
| BC: | Bone oscillator (Mastoid) |
| SF: | Passive sound field speaker using the built-in amplifier, or External amplifier using the line output. |
| Transducer options depend on how AURICAL Aud is ordered and calibrated. | |
| Outputs | |
| AC: | 2 x 2 mono jacks, 6.3 mm (1/4 inch) |
| BC: | 1 x mono jack, 6.3 mm (1/4 inch) |
| SF power output: | 3 x terminals, 3 x 40 W peak, 8 Ω load |
| SF line output: | 2 x 1.6 Vrms, |
| External inputs | |
| CD/Analog line in: | 0.2 to 2.0 Vrms, 10 k Ω , 1 stereo 3.5 mm (1/8 inch) jack |
| Talk Back microphone: | Electret microphone Input voltage: 0.002 to 0.02 Vrms Input resistance: 2.21 k Ω . 3.5 mm (1/8 inch) jack |
| USB 2.0 hub: | with 3 powered USB ports |
| 24V DC power supply: | DC power, 2.5 mm |
| Stimulus presentation | |
| Normal, Continuous on, Pulsed | |
| Operator accessories | |
| Operator monitor headset - headphones: | 40 mW 16 Ω 3.5 mm (1/8 inch) stereo jack |
| Operator microphone (desktop or boom): | Electret microphone Input voltage: 0.002 to 0.02 Vrms, Input resistance: 2.21 k Ω . 3.5 mm (1/8 inch) jack |
| USB port connector | |
| Type: | USB 2.0 device port |
| Speed: | High speed |
| Transport and storage | |
| Temperature: | -30°C to +60°C (-22°F to 140°F) |
| Air humidity: | 10% to 90%, non-condensing |
| Air pressure: | 500 hPa to 1060 hPa |
| Operating environment | |
| Mode of operation: | Continuous |
| Temperature: | +15°C to +35°C (59°F to 95°F) |
| Air humidity: | 30% to 90%, non-condensing |
| Air pressure: | 700 hPa to 1060 hPa. |
| (Operation in temperatures exceeding -20°C (-4°F) or +60°C (140°F) may cause permanent damage.) | |
| Warm-up time | |
| < 5 min. | |

Disposal

AURICAL Aud can be disposed of as normal electronic waste, according to WEEE and local regulations.

Dimensions

AURICAL Aud: Approx. 275 x 205 x 60 mm, (10.8 x 8.0 x 2.4 inches)

Weight

AURICAL Aud with HI-PRO 2: Approx. 0.85 kg, (1.875 lb)

AURICAL Aud without HI-PRO 2: Approx. 0.65 kg, (1.433 lb)

AURICAL Aud Power supply

MeanWell MES50A-6P1J, 50W Output: 24 V, 2.08 A; Input: 100-240 V AC, 50/60 Hz, 1.5 - 0.8 A

Power consumption < 60 VA

Standards

Audiometer: IEC 60645-1, Type 2, 2010; IEC 60645-2, Type A, 1993; ANSI S3.6

Patient Safety: IEC 60601-1, Class 1, Type B; UL 60601-1; CAN/CSA-C22.2 NO 601.1-90.

EMC: IEC 60601-1-2:2007 and EN 60601-1-2:2007
IEC 60601-1-2:2014 and EN 60601-1-2:2015

HI-PRO 2**Built-in HI-PRO 2 (optional)**

Hearing instrument connection: 2 x 6-pin mini-DIN sockets

Safety: EN 60601-1, Class 1, Type BF and UL 544.

EMC: IEC 60601-1-2:2007 and EN 60601-1-2:2007
IEC 60601-1-2:2014 and EN 60601-1-2:2015

Accessories: Test software. See the AURICAL Aud Service Manual.

AURICAL speaker unit**Interfaces**

USB port output, type A Primarily for USB Bluetooth dongle

USB port input, type B USB connection from PC

24V DC in DC power, 2.5 mm

24V DC throughput DC power, 2.5 mm

Speaker input RCA phone optimized for 8 Ω. speaker

Dimensions

Speaker: Approx. 375 x 285 x 145 mm (14.8 x 11.2 x 5.7 inches)

Weight

Speaker: Approx. 1.5 kg (3.3 lb)

Accessories

Standard accessories and optional accessories may vary from country to country - please consult your local distributor.

TDH 39 headphones (Headband: HB-7, HB-8), ME-70 headphones, HOLMCO headphones, HDA 300 headphones, Bone oscillators: BC-1, B-71, Otometrics insert phones, AURICAL speaker unit for integration with AURICAL FreeFit, Sound field loudspeakers, Monitor headphones with boom microphone, Desktop microphone, Talkback microphone, Patient Responder, Power supply and mains cable, Wall mounting plate, Connection cables, AURICAL FreeFit, AURICAL Aud Reference Manual, AURICAL Aud User Guide

System requirements

For system requirements, please refer to the OTOSuite data sheet.

Specifications are subject to change without notice. Copyright © Natus Medical Denmark ApS. Doc. No. 7-26-8400-EN/10 - Part No. 7-26-84000-EN (213804)