

<b>Frequency range</b>	
Insert earphones:	125 - 8000 Hz
TDH39 earphones, HDA 300, ME-70, HOLMCO:	125 - 12500 Hz
Bone conductor (BC):	250 - 8000 Hz
SF:	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
<b>Stimulus types</b>	
Tone audiometry	Tone, Warble, Pulsed tone, Pulsed warble, FRESH Noise
Loudness Scaling	Warble, ISTS, FRESH Noise
<b>Masking types</b>	
AC, BC, SF:	Narrow Band Noise (correlated) Speech Weighted Noise (correlated) White Noise (Wide band noise) (correlated)
<b>Stimulus modulation</b>	
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
<b>Signal presentation</b>	
<b>Accuracy of sound level</b>	
Entire level range (AC):	125 to 5000 Hz: $\pm 3$ dB, 5000 to 12500 Hz: $\pm 5$ dB
Entire level range (BC):	250 to 5000 Hz: $\pm 4$ dB, 5000 to 8000 Hz: $\pm 5$ dB
<b>Attenuator</b>	
1 or 5 dB step resolution over the entire range.	
<b>HL Range</b>	
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 60645-1:2007 and ANSI 63.6:2004 are fulfilled for all units.	
<b>Total harmonic distortion</b>	
Air conduction (AC) < 2.5%	
Bone conduction (BC) < 5%	
<b>Selectable transducers</b>	
AC:	TDH 39 headphones, ME-70 headphones, HOLMCO headset, HDA 300 headphones, and Insert Earphones
BC:	Bone conductor (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.	
<b>Outputs</b>	
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 $\Omega$ load
SF line output:	2 x 1.6 Vrms,
<b>External inputs</b>	
CD/Analog line in:	0.2 to 2.0 Vrms, 10 k $\Omega$ , 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 $\Omega$ . 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
<b>Stimulus presentation</b>	
Normal, Continuous on, Pulsed	
<b>Operator accessories</b>	
Operator monitor headset:	40 mW 16 $\Omega$ 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 $\Omega$ . 3.5 mm (1/8 inch) jack
<b>USB interface</b>	
Connector Type:	
<b>Transport and storage</b>	
Temperature:	-30°C to +60°C (-22°F to 140°F)
Air humidity:	10% to 90%, non-condensing
Air pressure:	50 kPa to 106 kPa
<b>Operating environment</b>	
Mode of operation:	Continuous
Temperature:	+15°C to +35°C (59°F to 95°F)
Air humidity:	20% to 90%, non-condensing
Air pressure:	70 kPa to 106 kPa.
(Operation in temperatures exceeding -20°C (-4°F) or +60°C (140°F) may cause permanent damage.)	

**Note** • Recalibrate device if used in low air pressure.

**Warm-up time**

&lt; 5 min.

**Disposal**

AURICAL Aud and relevant accessories can be disposed of as normal electronic waste, according to WEEE and local regulation. Refer to the disposal instructions described in this manual.

**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 &lt; 60 VA

**Standards**

Audiometer: IEC 60645-1:2017, Type 2 Class A; ANSI S3.6:2004, Type 2A

Patient Safety: IEC 60601-1:2005/A1: 2012 (Edition 3.1), Class 1, Type B and IEC 60601-1 (2nd Edition) UL 60601-1; CAN/CSA C22.2 NO 60601-1-14:2014

EMC: IEC 60601-1-2:2014 and EN 60601-1-2:2015  
IEC 60601-1-2:2007 and EN 60601-1-2:2007**Hi-Pro 2****Built-in Hi-Pro 2 (optional)**

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

Safety: IEC 60601-1:2005/A1:2012 (Edition 3.1)  
IEC 60601-1 (2nd Edition) Class 1, Type BF.EMC: IEC 60601-1-2:2014, EN 60601-1-2:2015, and IEC 60601-1-2 (2nd Edition)  
IEC 60601-1-2:2007 and EN 60601-1-2:2007**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.

**System requirements**

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

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