

## AURICAL Aud

Frequency range	
Insert earphones:	Standard frequencies: 125 - 8000 Hz
ME-70, HOLMCO, SF, TDH39 earphones:	Standard frequencies: 125 - 12500 Hz
BC:	Standard frequencies: 250 - 8000 Hz
Accuracy:	> 0.03%
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
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:	1, 2, 5 dB increments
Signal presentation	
Accuracy over the entire level range (AC):	125 to 5000 Hz: ±3 dB, 5000 to 12500 Hz: ±5 dB
Accuracy over the entire level range (BC):	250 to 5000 Hz: ±4 dB, 5000 to 8000 Hz: ±5 dB
Attenuator resolution:	1 or 5 dB step resolution over the entire range
HL Range:	Maximum output will be limited by the transducer
Total harmonic distortion:	Air < 2.5 %, Bone < 5 %
Stimulus presentation	
Normal:	The signal is presented when the Stimulate button is pressed
Continuous ON:	The signal is interrupted when the Stimulate button is pressed
Pulse:	The signal is pulsed
Pulse duration:	200 ms on and 200 ms off (configurable)
Selectable transducers	
AC:	TDH 39, ME-70, HOLMCO, HDA 200 headphones, and Insert Earphones
BC:	B71 (Mastoid placement)
SF:	Passive sound field speaker, using the built-in amplifier in AURICAL Aud, or Sound field speaker with built-in amplifier or external amplifier, with both types using the line output from AURICAL Aud
Transducer options depend on how AURICAL Aud is ordered and calibrated	
Outputs	
AC:	2 x 2 mono jacks, 6.3 mm (1/4 ")
BC:	1 x mono jack, 6.3 mm (1/4 ")
SF power output:	3 x 2 terminals, 3 x 40 W peak, 8Ω load
SF line output:	2 x 1.6 Vrms
Inputs	
CD/Analog line in:	0.2 to 2.0 Vrms, 10 kΩ 1 stereo 3.5 mm (1/8") jack
Talk Back microphone:	Electret microphone Input voltage: 0.002 to 0.02 Vrms Input resistance: 2.21 kΩ 3.5 mm (1/8") jack
USB 2.0 hub:	3 powered High Speed USB type A ports
24V DC power supply:	DC power, 2.5 mm
Operator accessories	
Operator monitor headset - headphones:	40 mW 16Ω 3.5 mm (1/8") stereo jack
Operator microphone (desk-top or boom):	Electret microphone Input voltage: 0.002 to 0.02 Vrms, Input resistance: 2.21 kΩ 3.5 mm (1/8") jack
USB port connector	
Type:	USB 2.0 type B 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:	980 hPa to 1040 hPa
(Operation in temperatures exceeding -20°C (-4°F) or +60°C (140°F) may cause permanent damage)	
Warm-up time:	< 5 min. Note: Should be extended if AURICAL Aud has been stored in a cold environment
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:	Approx. 0.85 kg - (1.875 lb)
AURICAL Aud without HI-PRO:	Approx. 0.65 kg - (1.433 lb)
Power supply	
MeanWell MES50A-6P1J, 50W:	Output: 24 V, 2.08 A - Input: 90-264 V, 47-63 Hz
Power consumption:	< 60 VA
Standards	
Audiometer:	IEC 60645-1, Type 2, 2010; IEC 60645-2, Type A, 1993; ANSI 3.6
Patient Safety:	Complies with IEC 60601-1, Class 1, Type B; U2601-1; CAN/CSA-C22.2 NO 601.1-90
EMC:	IEC 60601-1-2
Built-in HI-PRO (optional)	
Hearing instrument connection:	2 x 6 pole mini-DIN sockets
Safety:	EN 60601-1, Class 1, Type BF and UL 544
EMC:	EN 60601-1-2; EN 300 328-2; EN 301 489-17
Accessories:	Test software. See the AURICAL Aud Service Manual
AURICAL Speaker	
Connections:	
USB port output, type A:	Primarily for USB Bluetooth dongle
USB port input, type B:	USB connection from AURICAL Aud or PC
24V DC in:	DC power, 2.5 mm
24V DC throughput:	DC power, 2.5 mm
Speaker output:	RCA phone optimized for 8Ω speaker
Dimensions	
Size:	Approx. 375 x 285 x 145 mm (14.8 x 11.2 x 5.7 inches)
Weight:	Approx. 1.5 kg (3.3 lb)
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:	980 hPa to 1040 hPa
(Operation in temperatures exceeding -20°C (-4°F) or +60°C (140°F) may cause permanent damage)	
Standards	
Real Ear Measurements:	EN 61669, ISO 12124
Client Safety:	EN 60601-1, UL 2601-1, CAN/CSA -C22.2, NO 601.1-90
Type BF, IPX0:	AURICAL FreeFit: EN 60601-1, Internal Powered,
EMC:	EN 60601-1-2, EN 300 328-2, EN 301 489-17



AURICAL Aud

The future of fitting

AURICAL

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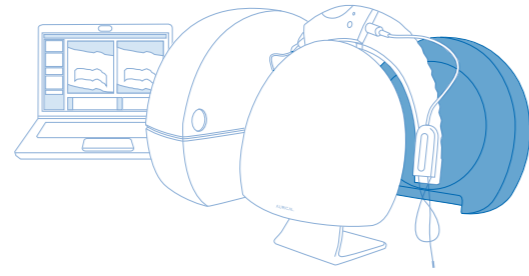
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# The Audiometer

655g of concentrated knowledge



**Unique design:** Compact and designed to support your needs.



**Connectivity:** The vast connectivity possibilities make it the natural central point of the fitting solution.

**Under desk Aud mounting:** Mounting the audiometer with the built-in HI-PRO under the desk helps tidy up cabling and provides convenient access to the HI-PRO plugs.

The new AURICAL Aud is the world's only true fitting audiometer. It integrates an audiometer, counseling tools, power amplifier, USB hub and optional HI-PRO in a modern, ultra-compact design. It's a complete, portable diagnostic audiometer that offers outstanding flexibility. It is designed to fit into all kinds of environments, inside your clinic or out.

The new audiometer is easy to use too: The exceptionally intuitive interface has a new on-screen control panel and easy-to-access user test functions. It not only ensures fast operation but also consistently accurate results. Also, if you're familiar with the AURICAL Plus, your transition to the new solution will be particularly smooth.

## THE FACTS

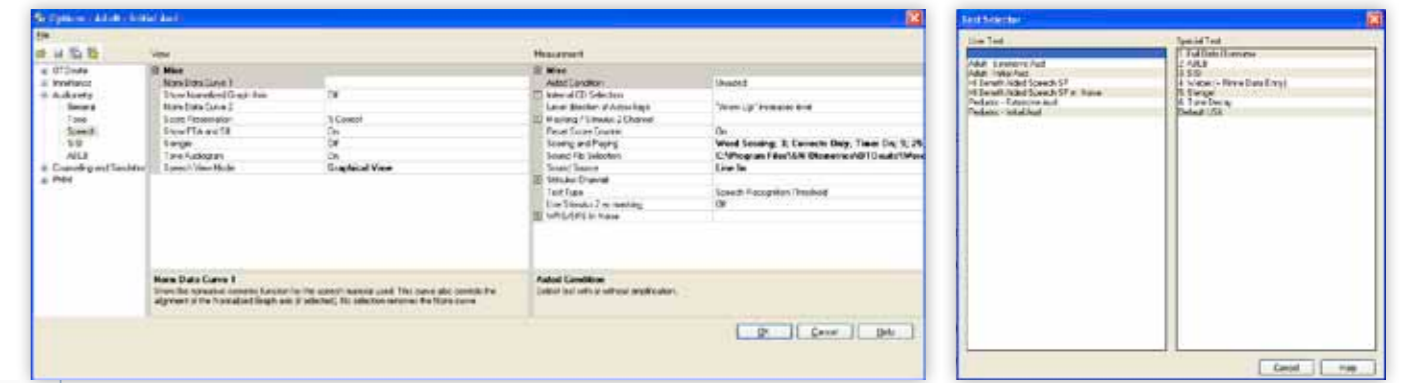
- AC, BC and SF audiometry (built-in power amplifier)
- Tone audiometry testing up to 12.5 kHz
- Integrated speech material
- Intuitive on-screen control panel
- Masking assistant
- Extensive user test functionality
- One-click data logging
- Built-in USB hub
- Optional built-in HI-PRO
- Selection of report templates

# The AURICAL Family

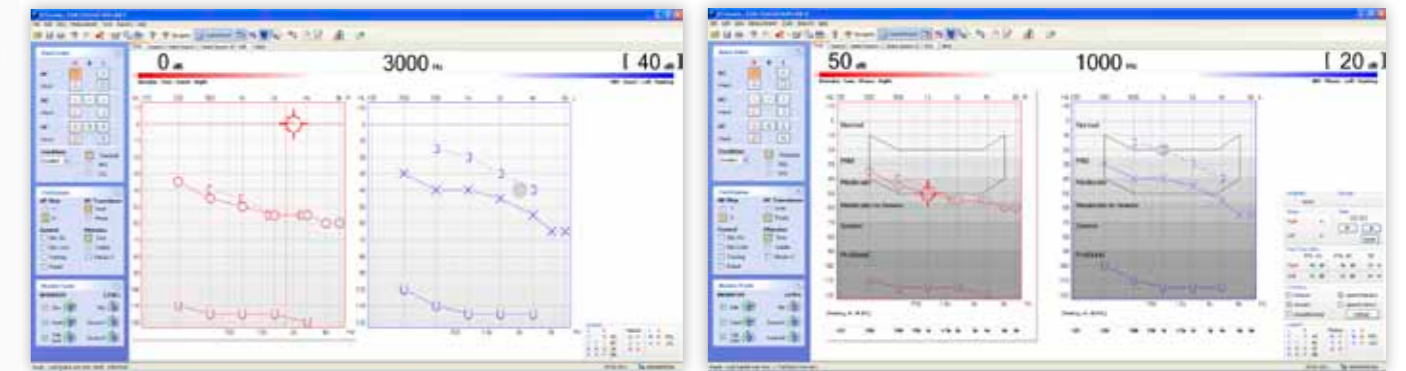
Fully integrated with OTOsuite

The OTOsuite software integrates all the elements of the new AURICAL. It's intuitive, easy to learn and easy to use. It supports the entire client journey, from diagnostics and counseling, to fitting and verification. Simple to use user test functionality ensures configurable, consistent

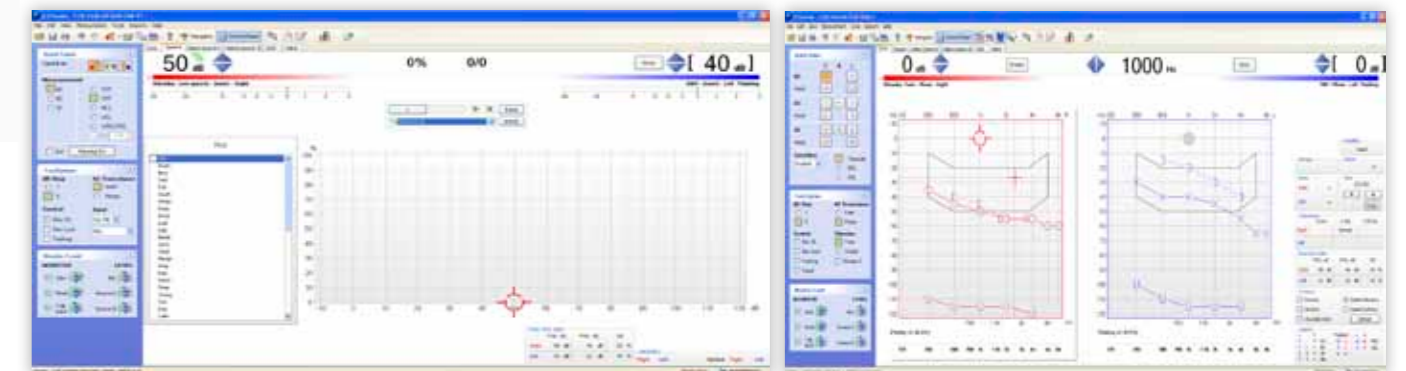
and smooth workflows that can be customized to suit individual needs. And you work in a single software environment across modules. The result is a better fitting experience – for you and for your client.



AURICAL Aud and OTOsuite lets you administer your preferences easily. Make the settings once and save as User Tests for later. Share your User Tests with your colleagues and make OTOsuite ensure a smooth and efficient way of working.



Various view options allow you to choose what is best for you and your patient. Go from simple to advanced in 2 mouse clicks.



Easy overview of the speech audiometry including the integrated wordlists.

The new on-screen control panel is intuitive and fast.

See the videos about the complete fitting solution at [www.otometrics.com](http://www.otometrics.com)