

# ADHEAR

## Bone Conduction Hearing System



# ADHEAR

Stick. Click. Hear

ADHEAR is the world's first non-surgical bone conduction device that does not exert any pressure on skin or bone. It's efficient, convenient and suitable for all ages.



## Comfortable

The breathable adhesive adapter does not apply pressure onto skin or bone, resulting in highest wearing comfort and longer wearing time.



## Discreet

Due to its cosmetically appealing design, compact housing and inconspicuous position behind the ear, ADHEAR can be worn very discreetly.



## Reliable

ADHEAR reliably stays in an ideal position behind the ear, offering consistent access to sound. The battery compartment can be safely locked.



## Intelligent

With directional and omni-directional microphones, noise reduction and feedback cancellation, ADHEAR adapts to the user's environment for optimal hearing.



## Effortless

Handling is incredibly easy. Users put on ADHEAR and can use it instantly. If needed, users can switch between the four programs at the push of a button.



## Convenient

Users can enjoy up to two weeks of power with just one battery. And direct audio input makes connecting to smartphones and receivers (Bluetooth®, FM or telecoil) simple.

## ADHEAR Adhesive Adapter

Highly innovative technology  
Optimized for sound transmission  
without pressure onto the skin

Single-use adhesive  
Can be worn up to 3-7 days

Water-resistant  
Can be worn during bathing, showering  
and other water-related activities

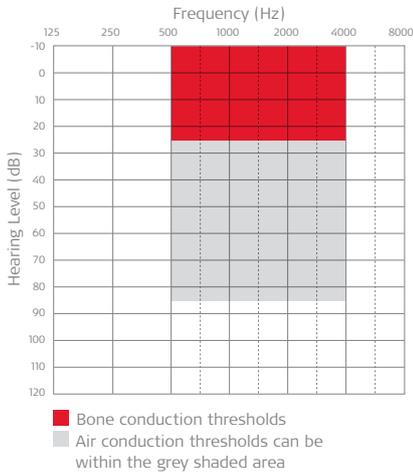
Choice of colors  
Available in beige or brown



Placement of ADHEAR Adhesive Adapter

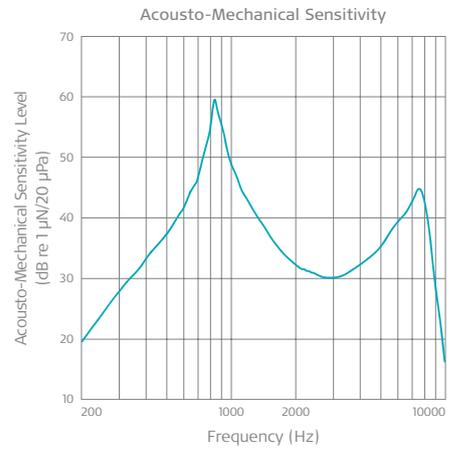
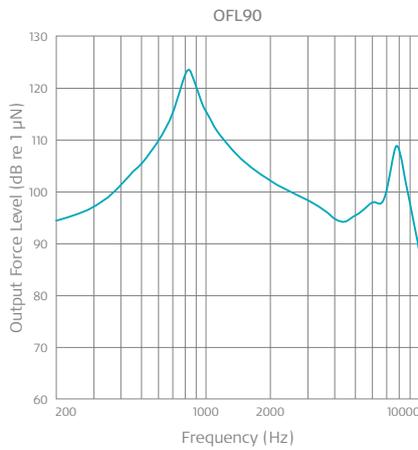
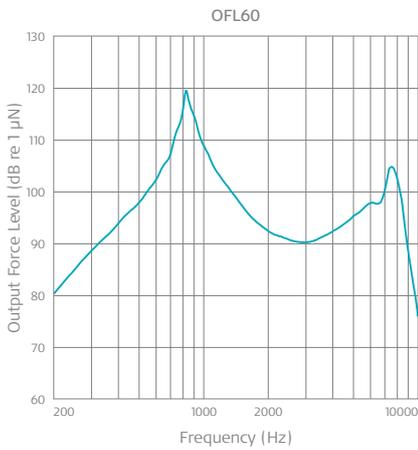
Placement of ADHEAR Audio Processor

# Selection Criteria for ADHEAR



- Unilateral or bilateral conductive hearing loss, either temporary or permanent, with bone conduction thresholds that fall within the red area marked in the chart
- Single-sided deafness (i.e. unilateral profound sensorineural deafness) with normal hearing on the contralateral side
- For all ages

# Frequency Response Curves



Audio frequency range	250 Hz – 8000 Hz
Peak OFL at 90 dB SPL	124 dB re 1 $\mu$ N
Peak OFL at 60 dB SPL	120 dB re 1 $\mu$ N
Acousto-mechanical sensitivity level (at 60 dB SPL input, 1600 Hz)	36 dB re 1 $\mu$ N/20 $\mu$ Pa
Total harmonic distortion (at 60 dB SPL input)	< 5 % above 600 Hz
Equivalent input noise level	28 dB re 20 $\mu$ Pa

The acousto-mechanical sensitivity is the ratio between the vibratory force output and the sound pressure input.

# Technical Data

## ADHEAR Bone Conduction System



### Dimensions Audio Processor

- Height: 14,6 mm
- Width: 34,9 mm
- Weight: 13.5 g (including battery)

### Dimensions Adhesive Adapter

- Height: 4 mm
- Width: 29 mm
- Weight: 1 g

### Product Features

- Volume control
- Program button
- Turn system off by opening the battery compartment
- Mute by switching to program 4
- Battery lock feature
- Direct audio input: Connect devices such as mobile phones, tablets, Bluetooth streamers, FM receivers or telecoil receivers
- Audio processor available in 3 colors
- Adhesive adapter available in 2 colors

### Signal Processing

- Automatic adaptive directional microphone system
- 8-band digital equalizer
- 8 independent compression channels
- Noise reduction
- Feedback cancellation without reducing gain
- Microphone noise reduction adjustable via squelch ratio and threshold
- 4 pre-configured programs (up to 6 possible)

### Materials in Skin Contact

- Adhesive adapter: medical adhesive, non-toxic and non-allergic
- Headband (optional): polycarbonate plastic, polyester and elastane
- Biocompatible according to ISO 10993-1
- Latex-free\*\*

### Power Supply

- One non-rechargeable size 13 zinc-air button cell with a nominal 1.4 V supply (IEC identifier: PR48)
- Up to 300 hours of battery life\*
- Battery current: 0.87 mA (at 60 dB SPL input, 1600 Hz)

### Accessories

- ADHEAR Adhesive Adapters
- ADHEAR Headband
- ADHEAR Positioning Tool
- ADHEAR Sleeves
- Cleaning brush
- Design stickers
- Daily case (different sizes available)
- Travel case
- Retention clip
- Screwdriver

### Cables

- Angled adapter cable
- Micro USB audio cable
- FM adapter cable
- Long audio input cable, bilateral input (100 cm)
- Long audio input cable, unilateral input (100 cm)
- Short audio input cable, bilateral input (45 cm)
- Short audio input cable, unilateral input (45 cm)

\* Battery life dependent on individual usage.

\*\* Whereby "free" means "not made with latex" according to current FDA guidance: "Recommendations for Labeling Medical Products to Inform Users that the Product or Product Container is not Made with Natural Rubber Latex", 2014.

Detailed information and specific usage instructions for each product can be found in the respective user manual. Not all products, features, or indications shown are approved in all countries. Please contact your local MED-EL representative for more information.

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