



# BeHear® NOW

## Technical Specifications



Sound Enhancement by Alango Technologies, Ltd.

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Wear & Hear is the brand name for a line of concept, future-looking wearable audio devices that are being developed by Alango Technologies, a leading supplier of voice and audio enhancement technologies for the communication and entertainment markets.

BeHear is a registered trademark of Alango Technologies, Ltd.

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## 1. Features

BeHear NOW is a Personal Hearing Product (PHP) that combines the functionality of a:

- **Bluetooth stereo headset** for wireless mobile phone calls and media playback
- **Assistive listening device** enhancing all-around hearing and speech intelligibility
- **Digital hearing aid** for personalized sound amplification for varying frequencies

BeHear NOW utilizes voice processing technologies developed by Alango Technologies, Ltd., such as:

- **ListenThrough™** passes through important ambient sounds during music playback
- **EasyListen™** slows down speech rate during phone conversations
- **Personal Sound Amplifier** provides dynamic, compressed amplification of ambient sounds
- **Hearing enhancement functions** include noise reduction, echo cancellation and more

## 2. Bluetooth®

- Bluetooth compliance Bluetooth v.4.2 + EDR
- Supported Bluetooth profiles HFP v1.6, HSP v1.2, A2DP v1.2
- Bluetooth transmission power Class 2, +4dBm
- Operating range 10m
- Paired devices connected to 2 at the same time (multi point)

## 3. Audio

### 3.1 Speakers

- Type 13.6mm electrodynamic receiver
- Frequency range 20Hz – 20kHz
- Sensitivity 102dB ± 3dB @ 1mW

### 3.2 Microphones

- Type dual 6mm omnidirectional EMC  
dual omnidirectional digital
- Frequency range 100Hz – 10kHz

## 4. Acoustic

Measured according to ANSI S3.22-2009

### 4.1 2cc Coupler Output OSPL90

- 1000Hz 116.7 dB SPL
- 1600Hz 117.8 dB SPL
- 2500Hz 113.9 dB SPL
- HFA 116.3 dB SPL

## 4.2 2cc Coupler Full-On Gain (factory default)

- 1000Hz 44.2 dB
- 1600Hz 42.8 dB
- 2500Hz 38.8 dB
- HFA 42.2 dB

## 4.3 2cc Frequency Range (factory default)

- <100Hz – 7500Hz

## 4.4 2cc Coupler Equivalent Noise Level

- 24 dB SPL

## 4.5 2cc Coupler THD

- 500Hz 0.5%
- 800Hz 0.7%
- 1600Hz 0.2%

## 5. Battery

- Battery capacity 250mAH
- Operation Time
- Hearing mode 15 hours
- Talk 10 hours
- Media Play 8 hours
- Standby 600 hours
- Charging time 2 hours
- Charging interface micro-USB

## 6. Mechanical

- Wearing style behind a neck
- Weight 30g

## 7. Operating Conditions

- Temperature -10°C...+50°C
- Humidity <95%
- Atmospheric pressure 70...106KPa

## 8. Certifications

- FCC, CE RED


**FCC Compliance Statement**

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

*FCC ID: 2AM35-ABH-101*

**EU Compliance Statement**

Alango Technologies Ltd. hereby declares that this wireless device is in compliance with the essential requirements and other relevant provisions of the R&TTE Directive. A copy of the EU Declaration of Conformity is available at [www.wearandhear.com/compliance](http://www.wearandhear.com/compliance).

**European Union – Disposal Information** 

The symbol above means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/or its battery at the time of disposal will help conserve natural resources and ensure it is recycled in a manner that protects human health and the environment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## 9. Figures

Figure 1 - Speaker Sensitivity Chart

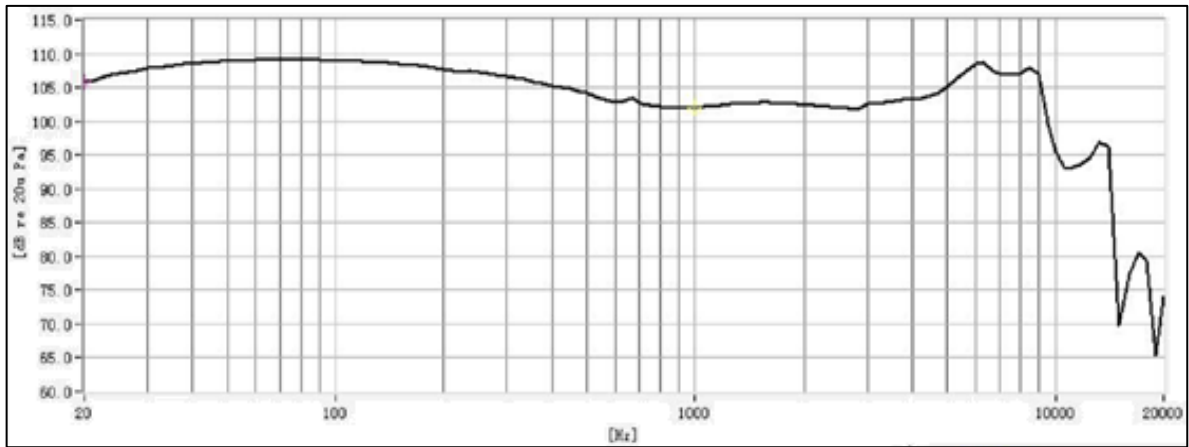


Figure 2 - Earcup Microphone Frequency Response Chart

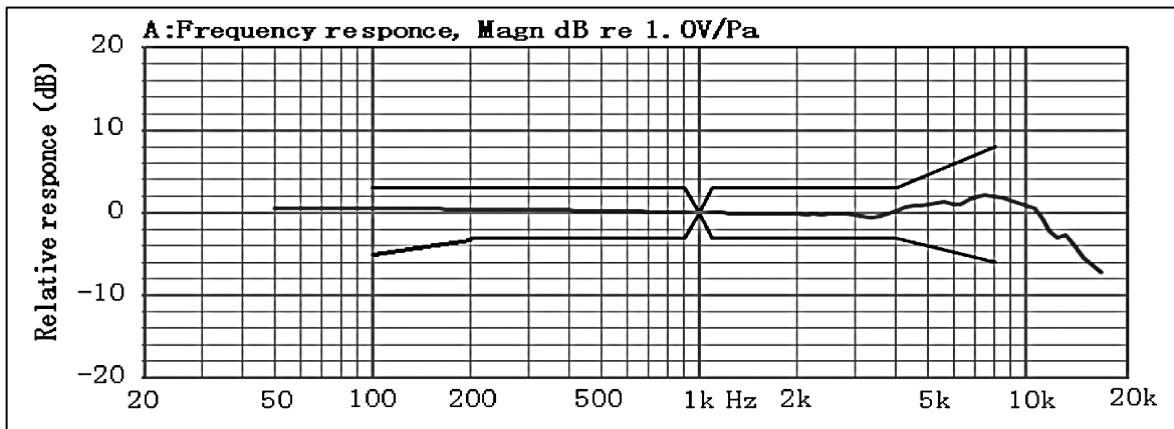


Figure 3 - Control Box Microphone Frequency Response Chart

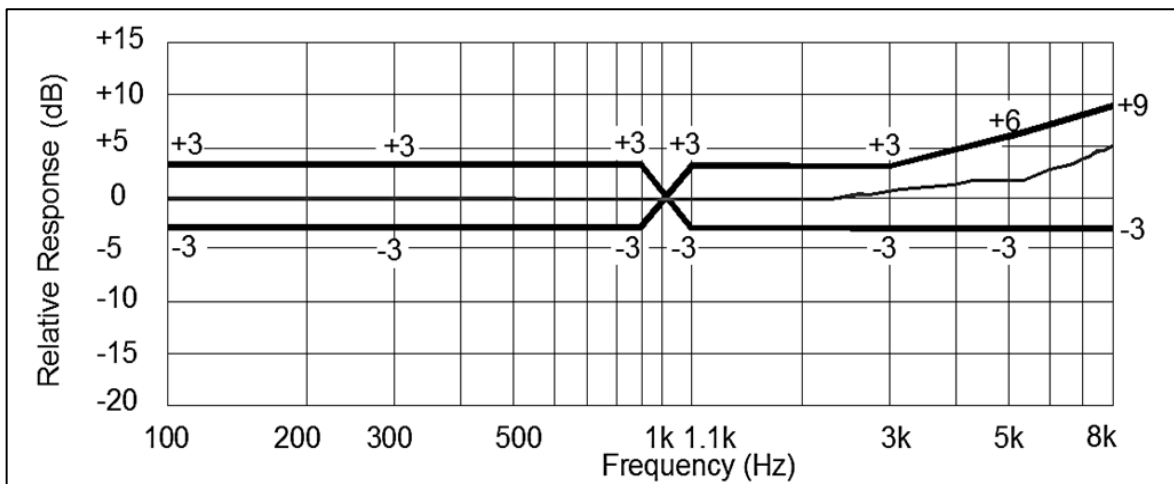


Figure 4 – OSPL90 Frequency Response Chart

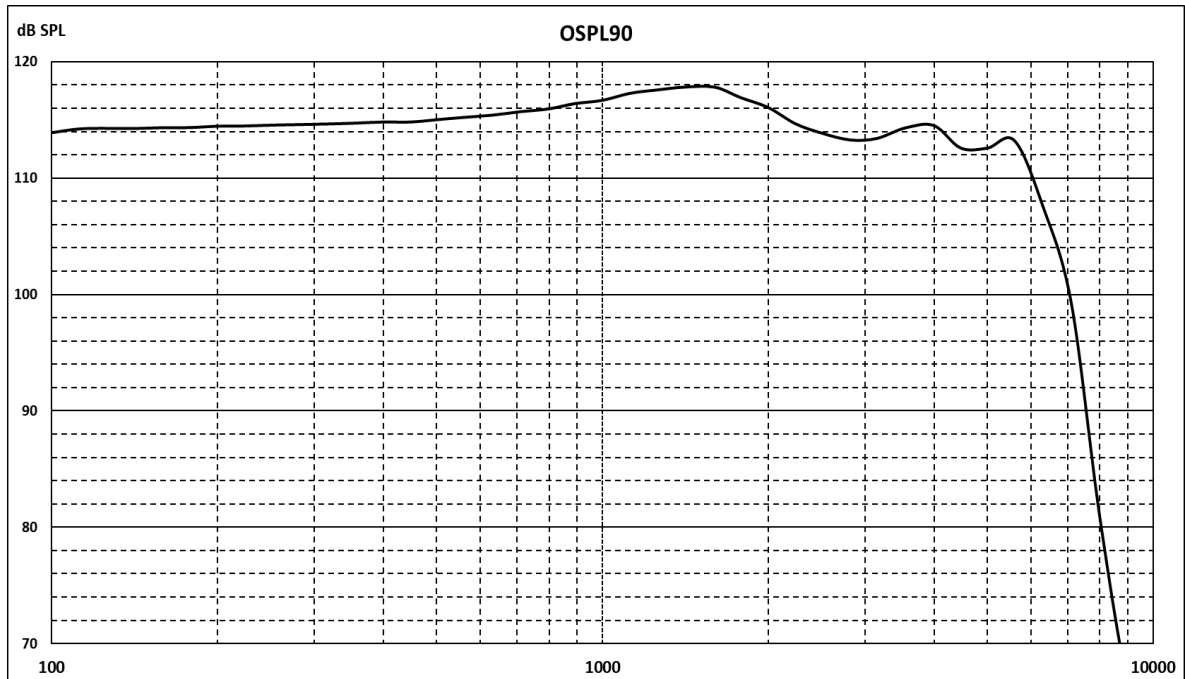
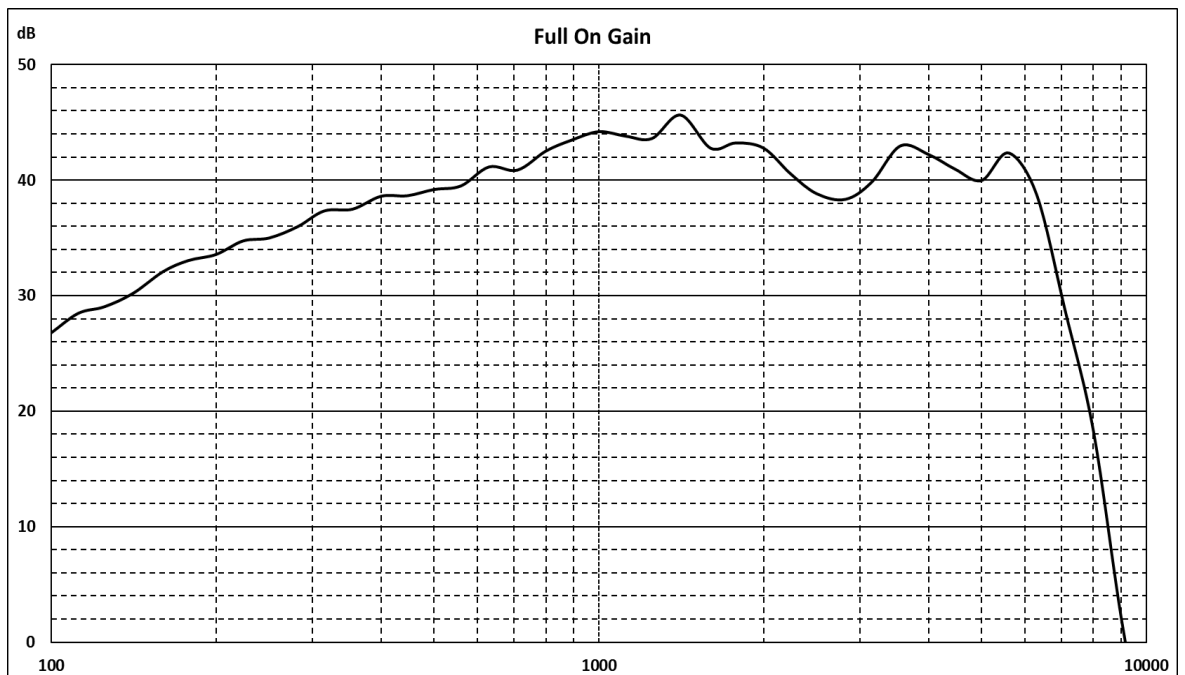
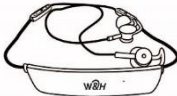









Figure 5 – Full-on Gain Frequency Response Chart



## 10. Package Contents

Part	Image	Quantity
BeHear Headset		1
Silicone Ear Hook, small/medium/large, left & right pair		3
Silicone Earbuds, mushroom, small/medium/large		6
Silicone Earbuds, conical, small/medium/large		6
Wind Protection Covers		4
Travel Case		1
Quick Start Guide		1
Package Carton		1