



# BeHear<sup>®</sup> 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.

For more information, contact:

Wear & Hear

c/o Alango Technologies, Ltd.

2 Etgar St.

Tirat Carmel, ISRAEL 3903213

Tel.: +972 (0)4 858-0743

[info@WearAndHear.com](mailto:info@WearAndHear.com)

[support@WearAndHear.com](mailto:support@WearAndHear.com)

[www.WearAndHear.com](http://www.WearAndHear.com)

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## 1. Features

BeHear NOW is a Personal Hearing Device (PHD) 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 II, +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 13 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
- TELEC

### 9. Figures

Figure 1 - Speaker Sensitivity Chart

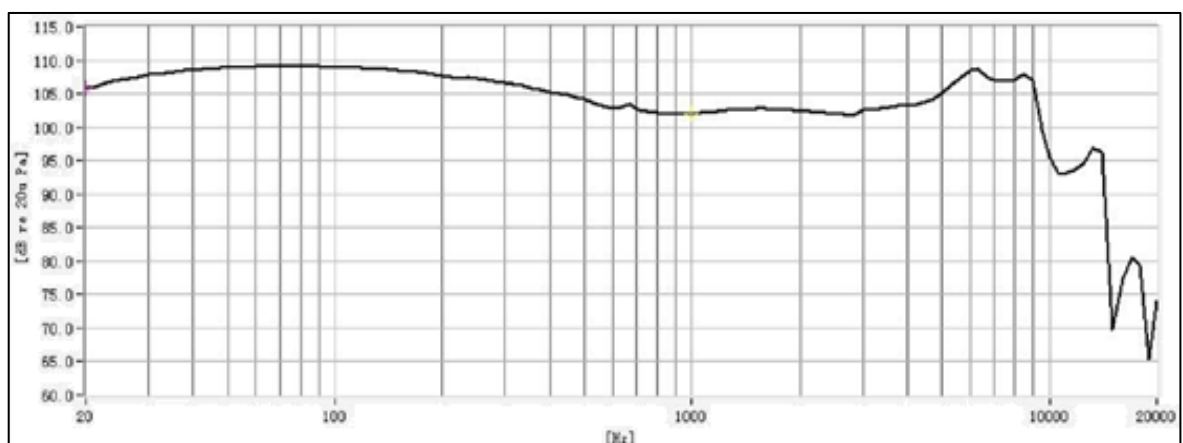


Figure 2 - Earcup Microphone Frequency Response Chart

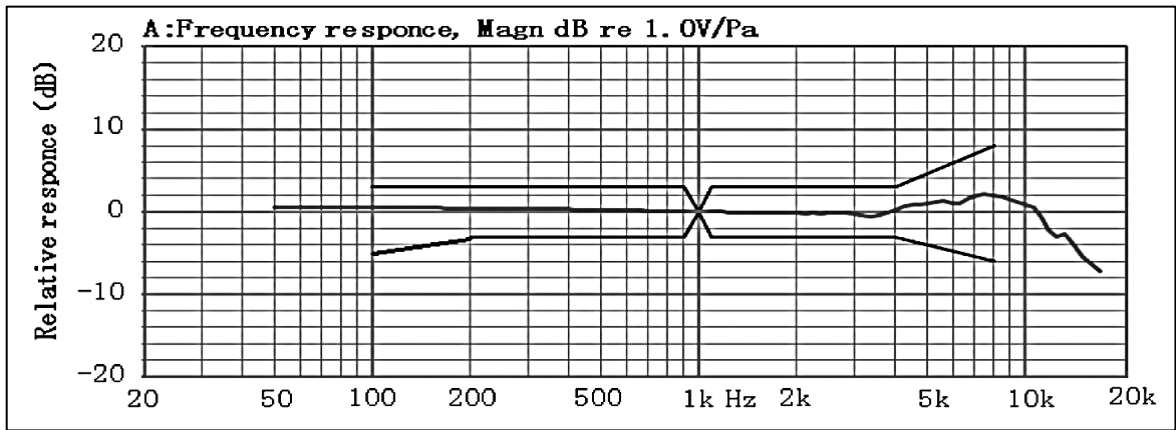


Figure 3 - Control Box Microphone Frequency Response Chart

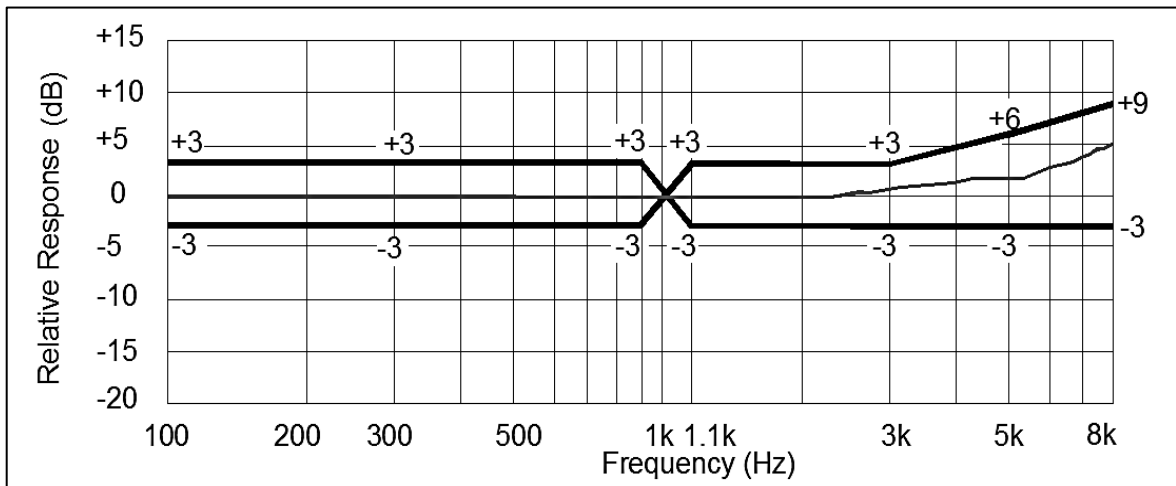


Figure 4 - OSPL90 Frequency Response Chart

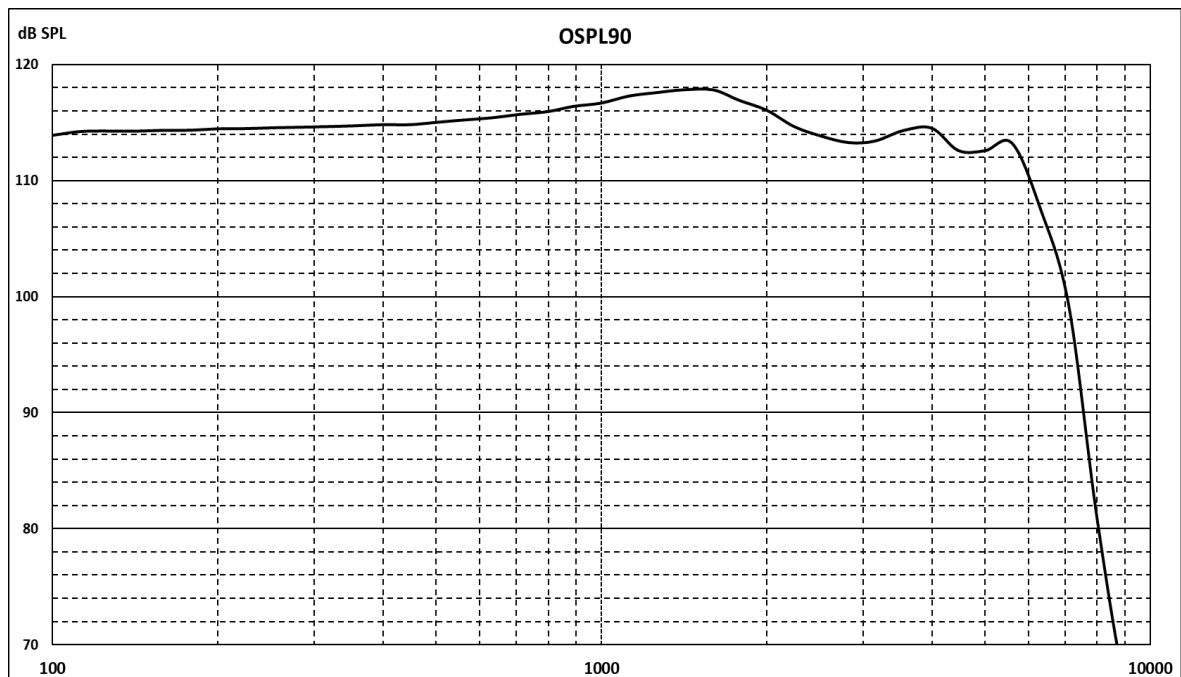
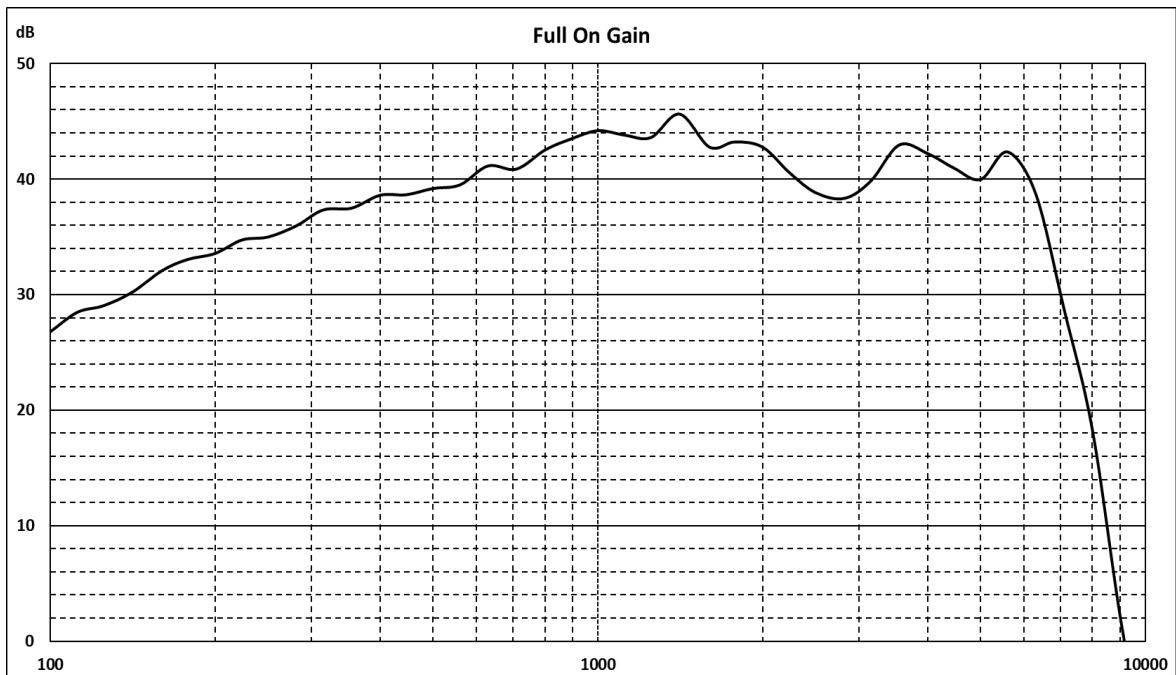


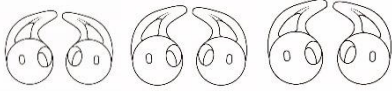



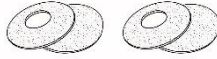
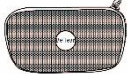




Figure 5 – Full-on Gain Frequency Response Chart



## 10. Package Contents

Part	Image	Quantity
BeHear Headset		1
Charging Cable		1
Silicone Ear Hook, small/medium/large, left & right pair		3
Silicone Earbuds, mushroom, extra-small/small/medium/large		8
Silicone Earbuds, conical, small/medium/large		6
Silicone Earbuds, open-fit		2
Wind Protection Covers		4
Travel Case		1
Quick Start Guide		1
Package Carton		1