

BeHear® ACCESSTechnical Specifications



Sound Enhancement by Alango Technologies, Ltd.

Product Name: BeHear ACCESS Product No.: ABH-120 Doc. No. BHATS202007.30

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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 ACCESS 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 ACCESS 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
 Supported Bluetooth profiles
 HFP v1.6, HSP v1.2, A2DP v1.2

Bluetooth transmission power Class II, +4dBm
 Supported audio CODEC's SBC, APTX, APTX-LL

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

3.3 T-coil Receiver

Type dual coilFrequency range 200Hz – 8kHz

4. Acoustic

Measured according to ANSI S3.22-2009

4.1 2cc Coupler Output OSPL90

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

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

1000Hz
 1600Hz
 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

mAh

• Operation Time

	 Hearing mode 	13 hours
	Talk	10 hours
	 Media Play 	8 hours
	 Standby 	400 hours
•	Charging time	2 hours
•	Charging interface	micro-USE

6. Mechanical

•	Wearing style	behind a neck
•	Weight	47g (1.66oz)

7. Operating Conditions

•	Temperature	-10°C+50°C (14°F122°F)
•	Humidity	<95%
•	Atmospheric pressure	70106KPa

8. Certifications

- FCC
- CE RED

9. Figures

Figure 1 - Speaker Sensitivity Chart

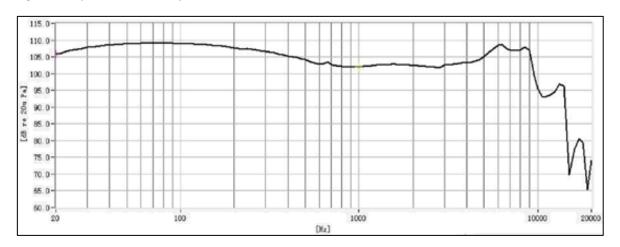


Figure 2 - Earcup Microphone Frequency Response Chart

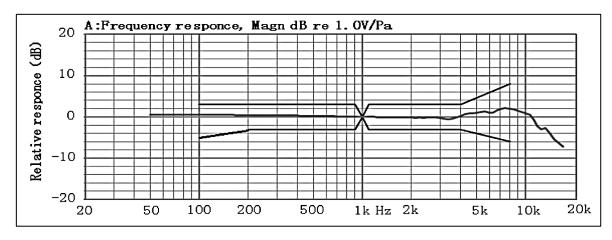


Figure 3 - Control Box Microphone Frequency Response Chart

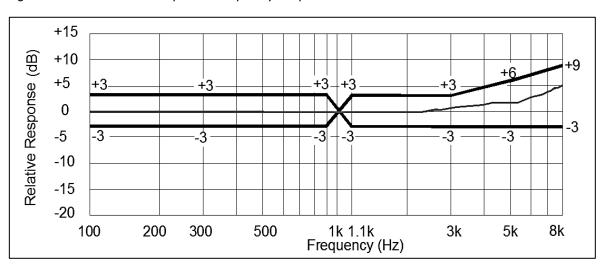


Figure 4 – OSPL90 Frequency Response Chart

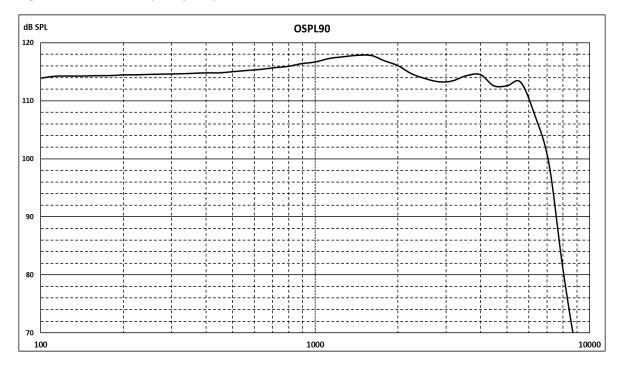
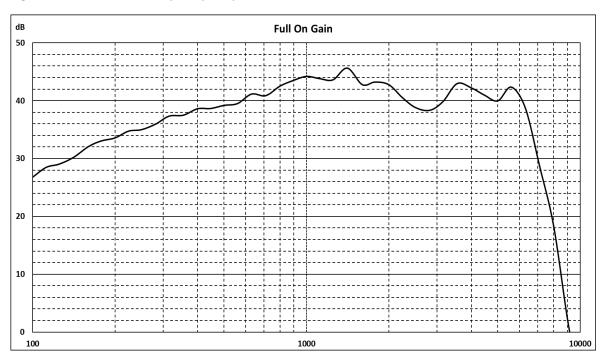


Figure 5 – Full-on Gain Frequency Response Chart



10. Package Contents

Part	Image	Quantity
BeHear Headset		1
Charging Cradle	MgH	1
Charging Cable		1
Silicone Ear Hook, small/medium/large, left & right pair	66666	3
Silicone Earbuds, mushroom, open ear, extra- small/small/medium/large		8
Silicone Earbuds, conical, small/medium/large		6
Silicone Earbuds, open-fit		2
Silicone Earbuds, open-ear		3
Wind Protection Covers		4
Travel Case	No. 2 has	1
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