



BeHear® PROXY

Neck Speaker & Personal Hearing Amplifier

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® PROXY is a neck speaker style Bluetooth® stereo listening device that combines the functionality of a:

- **Stereo speaker** for listening to TV sound over a wireless Bluetooth connection
- **Bluetooth stereo headset** for wireless mobile calls and media playback
- **Assistive listening device** that enhances all-around hearing and speech intelligibility

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

- **ListenThrough™** - passes through important ambient sounds during music playback
- **SonicVibrance™** - improves sound quality when listening to music via loudspeakers
- **Enhanced noise reduction and echo cancellation** for wireless mobile phone conversations
- **EasyListen™** slows down speech rate during phone conversations
- **Personal Sound Amplifier** provides dynamic, compressed amplification of ambient sounds

BeHear PROXY utilizes the aptX LL sound encoding technology from Qualcomm® for best audio-video lip sync results during TV and video viewing.

2. Supported Features

Operation Mode	Bluetooth Audio			Mobile Calls		Personalized Sound Amplification
	Playback	ListenThrough	SonicVibrance	Hands-free	EasyListen	
Loudspeaker	✓	-	✓	✓	✓	-
Earphones	✓	✓	-	✓	✓	✓

3. Bluetooth

- Bluetooth compliance Bluetooth v.4.2 + EDR + Low Energy
- Supported Bluetooth profiles HFP v1.6, HSP v1.2, A2DP v1.2, AVRCP v.1.5
- Bluetooth transmission power Class II, +4dBm
- Operating range 10m (~33 ft)
- Paired devices supports two simultaneous connections (multi-point)

4. Audio

4.1 Speakers

- Loudspeakers
 - Frequency range 20Hz – 20kHz
 - Loudness, max 110dB SPL @ 0.1m
- Earphones
 - Frequency range 20Hz – 20kHz
 - Sensitivity 102dB ± 3dB @ 1mW

4.2 Microphone

- Type omni-directional MEMS
- Frequency range 50Hz – 10kHz

5. Battery

- Battery capacity 1050mAh
- Operation Time
 - Personal sound amplification up to 50 hours

- Calls using earphones up to 45 hours
- Media play using earphones up to 40 hours
- Media play using loudspeakers up to 10 hours
- Standby time ≥ 1300 hours
- Charging time ~3 hours
- Charging interface micro-USB

6. Mechanical

- Wearing style around the neck
- Weight 256g (9 oz.)

7. Operating Conditions

- Temperature 0°C to +50°C (32°F to 122°F)
- Humidity <95%
- Atmospheric pressure 70...106KPa

8. Certifications

- FCC
- CE RED, RoHS, WEEE

9. Figures

Figure 1 - Loudspeaker Sensitivity Chart

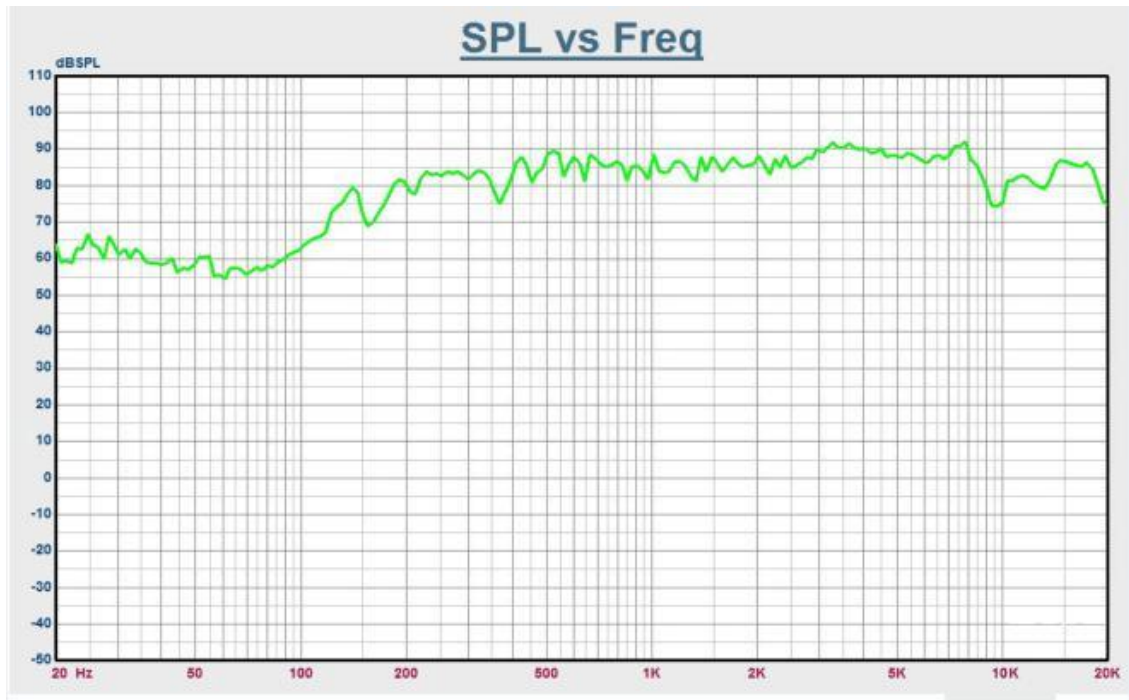


Figure 2 - Earphone Sensitivity Chart

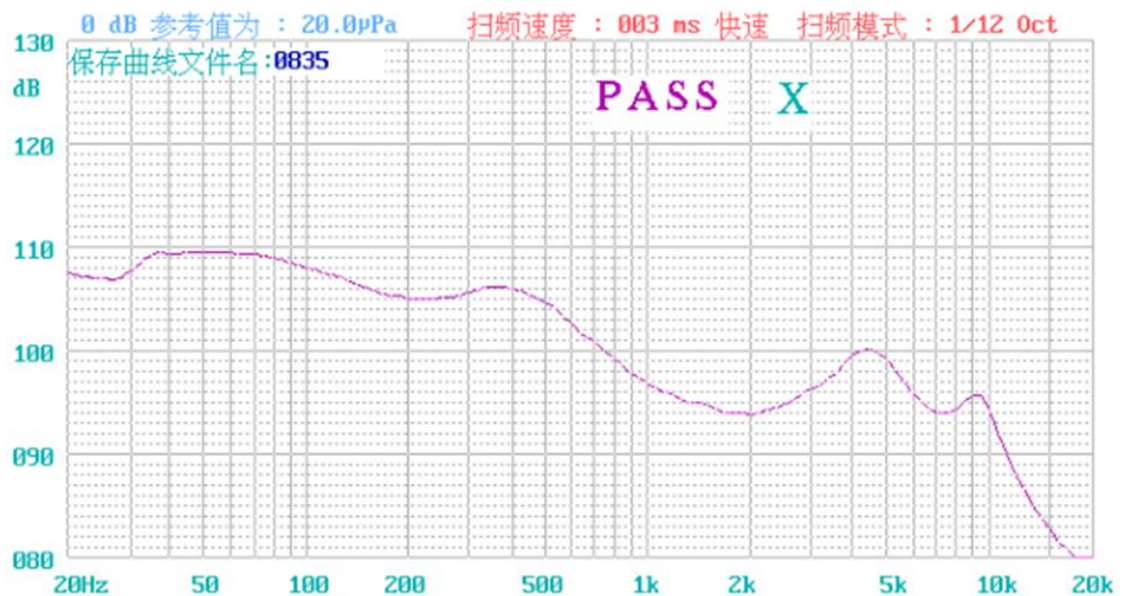
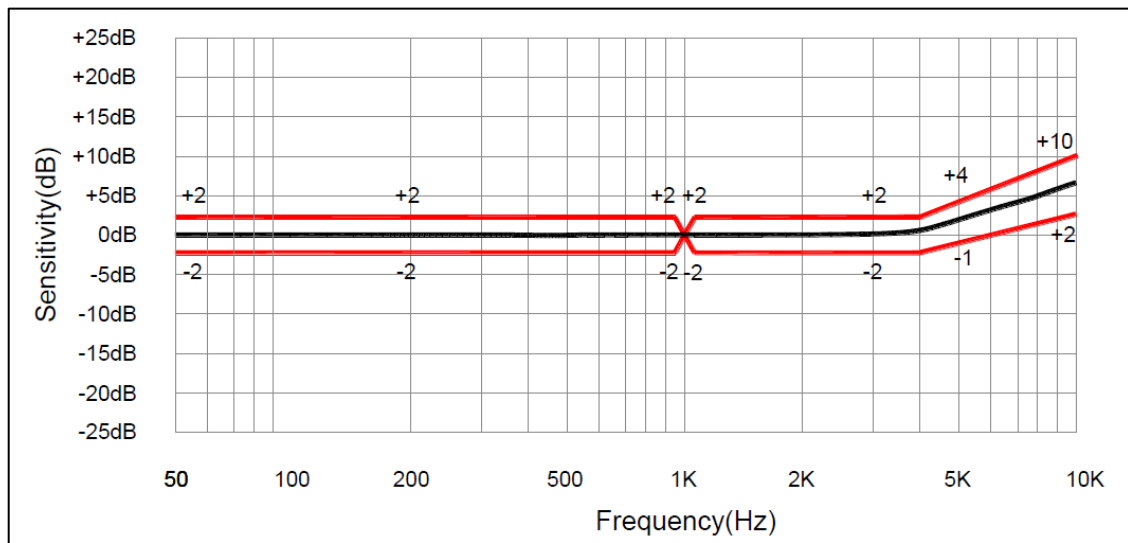









Figure 3 - Microphone Frequency Response Chart



10. Package Contents

Part	Image	Quantity
BeHear PROXY		1
Charging Cable		1
Silicone Earbuds, mushroom, extra-small/small/medium/large		8
Silicone Earbuds, conical, small/medium/large		6
Silicone Earbuds, open-fit		2
Silicone Earbuds, open-ear (tube)		2
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