


Mino

Professional Communicator



Bellman audio
FOR EASY COMMUNICATION



Features

- Digital signal processing**
Crystal clear stereo sound
- Pocket size and super light**
Fits discretely in your pocket
- Zoom microphone**
Point to the person talking
- Telecoil**
Use Mino in public facilities

The Mino is a professional speech amplifier that helps you hear better in most everyday situations, whether you wear a hearing aid or just suffer the occasional hearing difficulty.

Digital signal processing. The Mino uses digital state-of-the-art signal processing to bring out speech in difficult listening situations. Mino delivers crystal-clear stereo sound, free from background noise and feedback.

Pocket size and super light. The Mino is as small as a modern cellphone and weighs just 2½ oz. So the Mino can be kept discretely in your pocket without weighing you down.

Easy to use. The Mino is intuitive to use. All functions are accessed with the simple press of a button and there are no complicated menus to navigate.

Long lasting power. The Mino uses a rechargeable lithium-ion battery, just like a modern cellphone. So you never need to worry about buying new batteries.

Zoom the sound. Mino has both an omni- and a unidirectional microphone (zoom). With the zoom microphone, you can 'point' to the person talking, reducing any background noise.

Bring it to the movies. The Mino is equipped with a telecoil. The telecoil picks up sound in venues fitted with hearing loop systems, such as theaters, churches, and concert halls.

Customize your Mino. If you'd like to tailor your solution, we offer a number of accesso-

ries, ranging from practical car chargers and travel cases to advanced hearing accessories. It's your decision.

Enjoy music and TV. With the Mino, you can enjoy music and TV at any volume without disturbing others. Always with full hi-fi quality.

Boost your hearing aid. Connect a neck loop, and the Mino further amplifies speech and acts as an additional volume and tone control for your hearing aid.



Technical specifications

Size and weight

- Height: **3.9** inches (99 mm)
Width: **1.9** inches (48 mm)
Depth: **0.9** inches (22 mm)
Weight: **2.5** ounces (74 grams)



Input signals

- Microphone: Built in omnidirectional and zoom microphone
- Telecoil pickup for inductive loops
- External sound source input: 2.5 mm stereo jack plug (0 dBV max input signal)

Output signals

- Headphone socket: 3.5 mm stereo jack plug
- Distortion: 0.05% THD (electrical)
- Frequency range: 40-10 000 Hz
- Tone control: 9 steps
- Volume control: 9 steps
- Output power: 100 mW (16 Ω load)

In the box

The package includes everything you normally need in order to use your Mino.

- BE2030 Professional communicator
- USB universal charger
- Mains plug
- Charger cable
- Neck strap with safety clasp
- User manual

Power and battery

- Built in rechargeable lithium-ion battery
- Operating time: up to 18 hours (With included light weight battery)
- Charging time: 2.5 hours (With included light weight battery)

Acoustic specifications

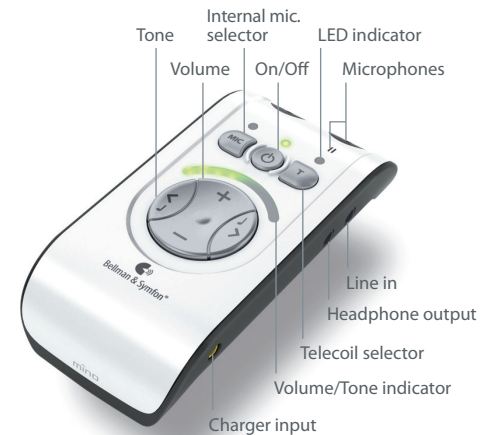
- Maximum output using BE9124 earphones
132 dB SPL
- Gain at full volume using BE9124 earphones (60 dB SPL input signal):
55.0 dB @ 1kHz 51.5 dB HFA
- Distortion
Using BE9124 0,08 % THD
Using BE9122 0,6 % THD

Regulatory requirements

- Complies with the following requirements:
CE, FCC, RoHS, WEEE and C-Tick



Buttons and controls



Environmental requirements

- Operating temperature: 32° to 95° F (0° to 35° C)
- Relative humidity: 5% to 95% (non condensing)

Accessories

The following accessories are available:

- BE9122 Stereo headphones
- BE9124 Stereo in-ear earphones
- BE9125 Stetoclips
- BE9127 Tie-clip microphone
- BE9129 MicroSet™
- BE9137 Cable kit, 16 feet (stereo) incl. adapter from 3,5 mm stereo tele jack to RCA (phono)
- BE9128 Neck loop
- BE9143 USB car charger
- BE1360 Scart switch

In-depth technical information

Features

- Digital Signal Processing, DSP
- Built in omnidirectional electret microphone and zoom microphone
- 10 channel dynamic range compressor
- 10 channel dynamic noise suppression
- Adaptive feedback manager
- Intuitive user interface
 - LED lightbar for excellent readability
 - 9 step volume control (5 dB/step)
 - 9 step tone control
 - Clear indication of Volume, Tone, Mic & T mode
 - Low battery warning indicator
- Telecoil pickup for inductive loops
- Push-to-listen mode (Int. mic and Aux in mixed)
- Auxiliary stereo signal input (2.5 mm tele jack)
- Headphones stereo output (3.5 mm tele jack)
- Auto mute when switching between signal sources
- High gloss finish to minimize handling sound
- Requires no individual fitting
- Built-in rechargeable lithium-ion battery
- Universal charger with included mains plug
- BE9135 Neck strap with safety clasp included
- Polished stainless steel belt clip included

Technical specifications

- Dimensions: 99 mm (h) x 48 mm (b) x 22 mm (d)
- Weight: 2.5 ounces (74 grams)
- Battery: Built in rechargeable lithium-ion, 617 mAh
- Operating time: Up to 18 hours (fully charged)
- Charging time: 2.5 hours (max)
- Ext. Mic./Aux. in connector: 2.5 mm stereo tele jack
- Headphones connector: 3.5 mm stereo tele jack
- Volume control: 9 steps (5 dB/step)
- Tone control: 9 steps
- Power switch: On/Off toggle button
- Mic and T mode: Separate mode select buttons
- External microphone / Aux in
Selects automatically when plugged in
- Dynamic Compressor
 - Dynamic gain range 0-35 dB
 - Compression 3:1
 - Expansion 1:1.5
 - Attack time 20 (25) ms (≥ 3 kHz)
 - Release time 110 (200) ms (> 3 kHz)
- Dynamic noise reduction
10 channel adaptive noise reduction
- Feedback cancellation
Adaptive phase-invert feedback cancellation
- Digital signal processing
 - 22 050 kHz sampling frequency
 - 16 bit resolution in stereo

Acoustic specifications

- Maximum output saturation
 - Using BE9122 Headphones 124.3 dB SPL (@ 2.5 kHz)
 - Using BE9124 Earphones 132.0 dB SPL (@ 5 kHz)
 - Using BE9125 Stetoclips 133.7 dB SPL (@ 1 kHz)
- Gain, full volume (1 kHz, 60 dB SPL input signal)
 - Using BE9122 Headphones 42.5 dB
 - Using BE9124 Earphones 55.0 dB
 - Using BE9125 Stetoclips 58.2 dB B
- Gain, full volume (HFA, 60 dB SPL input signal)
 - Using BE9122 Headphones 46.5 dB
 - Using BE9124 Earphones 51.5 dB
 - Using BE9125 Stetoclips 52.0 dB
- Distortion
 - Using BE9122 Headphones 0.6 % THD
 - Using BE9124 Earphones 0.08 % THD

Advanced settings



Balance control

Compensates for example for hearing loss in one ear. 5 dB / step.



Basic attenuation

Limits the maximum output level Useful for e.g. a child. 3 dB / step.



Stereo/Mono

Only effects the line-in signal. Mono is used for neck loop and stetoclips.



Bass reduction

Reduces low frequency interference from fans, road-noise etc.



Tone control blocking

Makes it easier for some end users to handle the Mino.



Tone control preset

Select preset tone. Used together with Tone control blocking.



Disable T-coil

Makes it easier for some end users to handle the Mino.



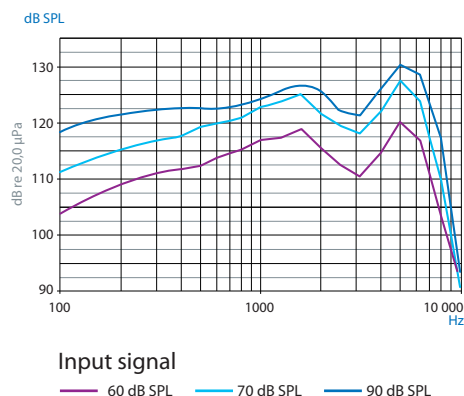
Reset to factory settings

Resets all settings to the default factory settings.

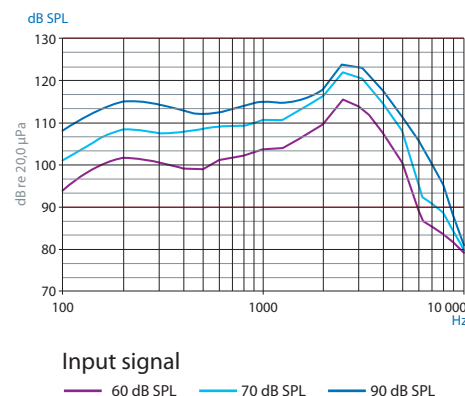
Electrical specifications

- Output power tele-jack 100 mW w. 16 Ω last
- Distortion 0.05 % THD
- Dynamic range 90 dB
- Frequency range 40 – 10 000 Hz
- Tone control
 - Break point at 1.6 kHz
 - Tone, high: +10dB@3.15 kHz, -6dB@250Hz
 - Tone, mid: flat
 - Tone, low: -10dB@3.15 kHz, No bass boost
- Line in sensitivity 0 dBV (maximum input level)

Output using BE9124 Earphones



Output using BE9122 Headphones



Output using BE9125 Stetoclips

