Maxi is a personal amplifier that will bring out the words so you can hear them loud and clear, even when there is a lot going on in the background.

Use Maxi for example when the family gathers around the dinner table, in the store, or to listen to the radio and TV. Maxi delivers clear and distinct speech and works both with and without hearing aids.

Easy to use
Maxi is intuitively easy to use and you are up and running within minutes flat. Everything is easily accessible with the simple press of a button and there are no complicated menus to learn. Just connect your earphones or neck loop and adjust the volume to your liking.

Clear and distinct sound
Maxi is equipped with the latest digital technology and delivers clear and distinct sound of the same quality as modern CD and DVD players. It efficiently amplifies speech while filtering out unwanted background noise.

Great ergonomics
Maxi is very robust and user friendly. It features large tactile buttons, soft grip materials and high contrast indicators that make it very easy to handle. Maxi is a great choice for those with low vision or limited dexterity.
The package includes everything you normally need in order to use your Maxi:

- **BE2020 Personal amplifier**
- Two AA alkaline batteries
- Belt clip
- Neck strap with safety clasp
- User manual
- Quick guide
- Listening accessory
  (Varies with package and territory)

### Power and battery

- Two AA alkaline batteries
- Operating time: up to 150 hours

### Acoustic specifications

- **Maximum output using BE9122 headphones**
  119 dB (HF Ave. SPL 90)
- **Gain at full volume using BE9403 stetoclips**
  148.7 dB (@ 1 kHz SPL90)
- **Full on gain:**
  - Using BE9122 headphones
    (60 dB SPL input signal)
    51.07 dB @ 1.6 kHz
  - Full on gain:
    - Using BE9124 earphones
      (60 dB SPL input signal)
      54.54 dB @ 1.6 kHz
  - Full on gain:
    - Using BE9403 stetoclips
      52.6 dB (HF Ave. SPL90)

### 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
- BE9403 Stetoclips
- BE9127 Tie-clip microphone
- BE9137 Cable kit, 16 feet (stereo) incl. adapter from 3.5 mm stereo tele jack to RCA (phono)
- BE9147 Travel case in durable canvas
- BE9159 Neck loop
In-depth technical information

- Digital signal processing
- Omni-directional electret condenser microphone
- Telecoil pickup for inductive loops
- 10 channel dynamic range compressor
- 10 channel dynamic noise suppression
- Adaptive feed-back manager
- Intuitive user interface
  - LED lightbar for excellent readability
  - 9 step volume control (5 dB/step)
  - 5 step tone control
  - Mic and T-mode indicator
  - Low battery warning indicator
- Auxiliary stereo signal input (2.5 mm telejack)
- Headphones stereo output (3.5 mm telejack)
- Push-To-Listen mode (Int. mic and Aux in mixed)
- Soft-mute when switching between signal sources
- Requires no individual fitting
- Powered by two AA-size alkaline batteries

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.
- **Tone control blocking**
  - Makes it easier for some end users to handle the personal amplifier.
- **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 personal amplifier.

Noise cancellation

Noise cancellation operates in frequency-domain and uses ten channels to continuously analyse and attenuate stationary noise. The noise cancellation dynamically adjusts the gain for each frequency band to give an optimal dynamic range, thus suppressing noise without affecting speech or other interesting information. Noise is suppressed with 5 dB without sacrificing resolution or introducing sound artefacts, which increases the listening comfort.

Dynamic range compression

The dynamic range compressor operates in the frequency-domain and is implemented as 10 channels, logarithmically. Each channel has individual attack/decay, expansion, compression and saturation distance parameters, which have been trimmed to reduce microphone noise, emphasise speech or other interesting information and still offer a natural sound.

Technical specifications

- Dimensions: 140 x 45 x 27 mm (L x W x T)
- Weight: 133 g (including batteries)
- Battery type: Two AA-size alkaline batteries
- Battery life: Up to 150 h
- Ext. mic/Aux in connector: 2.5 mm stereo telejack
- Headphones connector: 3.5 mm stereo telejack
- Volume control: 9 steps (5 dB/step)
- Tone control: 5 pre-set steps, push-buttons
- Power switch: On/off toggle button
- Mic and T-mode: Separate mode select buttons
- Ext. mic / Aux in accessories
- Automatically selects Aux in or external microphone when plugged in
- R/L-channel balance setting
- 0-20 dB programmable attenuation (in steps of 3 dB)
- Maximum volume setting
- 21 dB programmable attenuation (in steps of 3 dB)
- Dynamic compressor
  - 10 channels
  - Dynamic gain range: 0-35 dB
  - Compression: 3:1 Expansion: 1:1.5
  - Attack time: 25 ms
  - Release time: 250 ms
  - Dynamic noise reduction
  - 10 channels Adaptive frequency domain noise reduction
  - Feedback cancellation
    - Adaptive time domain feedback cancellation
  - Digital signal processing
    - 19.948 kHz sampling frequency
    - 16-bit resolution in stereo

Acoustic specifications

- Full-on gain with BE9122 headphones
  - 51.07 dB @ 1.6 kHz (60 dB input signal)
- Ref. test gain with BE9122 headphones
  - 29.21 dB (SPL70)
- Full-on gain with BE9403 stetoclips
  - 52.6 dB (HF Ave. SPL90)
- Ref. test gain with BE9403 stetoclips
  - 71 dB (SPL70)

Electrical specifications

- Output power: 125 mW/channel (@ 16 Ohm load)
- Impedance, headphones: 8 - 72 Ohm
- Distortion: 0.557 % THD (electrical)
- SNR: 82 dB
- Frequency range
  - 40 Hz – 10 kHz
  - Tone, high: +10dB@3.15 kHz, -6dB@250Hz
  - Tone, mid: flat
  - Tone, low: -10dB@3.15 kHz, No bass boost
- Aux in sensitivity (max input lvl.): +6 dBV

Battery level supervision

The supervision of the battery voltage level is continuously operating in the background, making a measurement every 10th second. The result is presented on the Low Battery indicator. The battery supervision indicates a Battery Low condition when the estimated remaining battery time is around 10 hours.

Output using BE9122 headphones

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Subject to change without prior notice.