

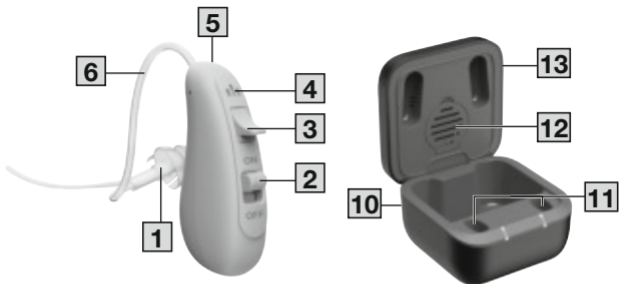
beurer

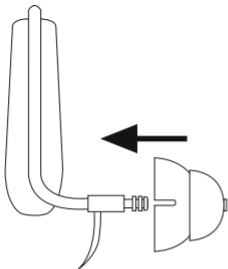
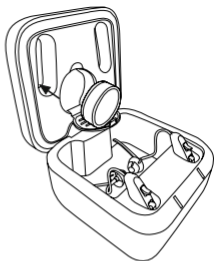
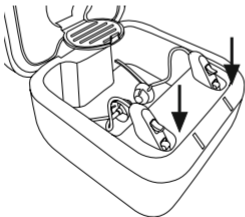
HA 90 Pair digital



EN Digital hearing amplifiers
Instructions for use

CE 0483



A**C****B**

ENGLISH



Read these instructions for use carefully. Follow the warnings and safety notes. Keep these instructions for use for future reference. Make the instructions for use accessible to other users. If the device is passed on, provide the instructions for use to the next user as well.

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1. INCLUDED IN DELIVERY

Check that the exterior of the cardboard delivery packaging is intact and make sure that all contents are included in the delivery. Before use, ensure that there is no visible damage to the device or accessories and that all packaging material has been removed. If you have any doubts, do not use the device and contact your retailer or the specified Customer Services address.

- 2 x hearing amplifiers
- 3 x earplugs (in different sizes and types)
- 1 x micro USB charging cable
- 1 x cleaning brush
- 1 x drying capsule
- 1 x storage box with charging function
- 1 x instructions for use

2. SIGNS AND SYMBOLS

The following symbols are used on the device, in these instructions for use, on the packaging and on the type plate for the device:

WARNING

Indicates a potentially impending danger. If it is not avoided, there is a risk of death or serious injury.

⚠ CAUTION

Indicates a potentially impending danger. If it is not avoided, slight or minor injuries may result.

NOTICE

Indicates a potentially harmful situation. If it is not avoided, the device or something in its vicinity may be damaged.



Product information

Note on important information



Observe the instructions

Read the instructions before starting work and/or operating devices or machines



The electronic device must not be disposed of with household waste



Swiss Authorised Representative



Manufacturer



Date of manufacture



















CE labelling

This product satisfies the requirements of the applicable European and national directives.



Separate the product and packaging elements and dispose of them in accordance with local regulations.

	<p>Marking to identify the packaging material. A = material abbreviation, B = material number: 1–7 = plastics, 20–22 = paper and cardboard</p>		<p>Protected against water spray up to 60° from the vertical Protected against harmful quantities of dust (dust-protected)</p>
	<p>Importer symbol</p>		<p>Applied part type B</p>
	<p>Unique device identifier (UDI) Identifier for unique product identification</p>		<p>Batch designation</p>
	<p>Article number</p>		<p>Serial number</p>
	<p>Medical device</p>		<p>Type number</p>
	<p>Temperature range</p>		<p>Humidity range</p>
	<p>Atmospheric pressure limitation</p>		<p>Nominal output power DC</p>
	<p>Rated power input DC</p>		<p>Swiss Authorised Representative</p>

3. INTENDED PURPOSE

Intended use

The hearing amplifier is used to help people hear better.

Target group

The hearing amplifier is intended to support the hearing of people aged 12 and over with impaired hearing.

Indication

The hearing amplifier is intended to provide support in the event of hearing problems.

Clinical benefits

The hearing amplifier helps people to hear noises and compensates for hearing loss in humans. The device amplifies the acoustic frequencies audible to humans.

Contraindication

- Do NOT use the hearing amplifier during or after acute hearing loss.
- Do NOT use the hearing amplifier if you are suffering from an inflammation of the middle ear or ear canal.
- The hearing amplifier is NOT suitable for use by children under 12 years of age.
- This hearing amplifier is NOT intended for use by people (including children) with restricted physical, sensory or mental skills or a lack of experience and/or a lack of knowledge, unless they are supervised by a person who has responsibility for their safety.

4. WARNINGS AND SAFETY NOTES

WARNING

- The hearing amplifier is only to be used to help people to hear better. The device is only intended for the purpose described in these instructions for use. The manufacturer is not liable for damage resulting from improper or careless use.
- If you have an existing or historic ear problem, you should consult your doctor before using the HA 90 Hearing Amplifier.
- If you feel unwell or experience pain when wearing the hearing amplifier, stop using it immediately and contact your doctor.
- If your ear becomes inflamed or your skin irritated or you experience an increased accumulation of ear wax when wearing the hearing amplifier, stop using it immediately and contact your doctor.
- Stop using the hearing amplifier and seek medical attention if the following occurs:
 - Rash or eczema on areas of skin that come into contact with the hearing amplifier. (The hearing amplifier is made from a material that is kind to the skin. In rare cases, however, allergic reactions may occur that appear in the form of eczema.)
 - Use of the hearing amplifier results in discharge from the ear and/or necessitates ear treatment.
 - Sudden, significant decrease in hearing ability.
- If parts of the hearing amplifier become stuck in the ear, seek medical attention immediately. Do not attempt to remove the parts yourself.

- Do NOT wear the hearing amplifier while undergoing shortwave therapy or medical treatments that are subject to strong radio frequency or magnetic fields.
- Start with the volume at a low setting and increase it gradually once you have become accustomed to the hearing amplifier.
- Do NOT set the volume button too high, as this may cause further damage to your hearing over an extended period of time.
- Do NOT lend your HA 90 Hearing Amplifier to other people, as there is a risk of hearing damage and infection.
- Keep children away from the hearing amplifier so that they do not play with it.
- Keep the hearing amplifier and the accessories away from children, as there is a risk of injury and choking.
- Do NOT use the hearing amplifier in potentially explosive and hazardous environments.
- Do NOT use the devices in oxygen-rich environments and over an extended period of time.
- Please contact the manufacturer in the event of the following:
 - if you require assistance in the set-up, use or maintenance of the hearing amplifier or
 - if the devices behave unexpectedly during operation or otherwise.
- If you have any doubts, do NOT use a damaged hearing amplifier; contact your retailer or the specified Customer Services address.
- Switch the devices off immediately if they are faulty or not working properly.

- Do not attempt to open and/or repair the hearing amplifier yourself. Repairs may only be carried out by Customer Services or authorised retailers. Failure to comply will invalidate the guarantee.

NOTICE

- Ensure the device is at room temperature before use. If the device has been stored close to the maximum or minimum storage and transport temperatures and is then moved into an environment with a temperature of 20°C, it is recommended that you wait approx. 30 minutes before using the device.
- Do NOT wear the hearing amplifier in the vicinity of strong electromagnetic fields or X-rays.
- Do NOT wear the hearing amplifier while bathing, showering or swimming.
- Protect the devices from impacts, humidity, dirt, marked temperature fluctuations, direct sunlight and high levels of air humidity.
- High temperatures may develop in closed vehicles during summer. You should therefore never leave your hearing amplifier inside a vehicle.
- Do NOT drop the devices or subject them to any shocks.
- If the hearing amplifier falls into water, dry it with a cloth and then have it inspected by your retailer.
- Never attempt to dry the hearing amplifier in a microwave, a tumble dryer or with a hair dryer. The hearing amplifier may otherwise become damaged.
- Do NOT use the hearing amplifier together with a mobile phone. (The radio waves of the mobile phone may cause background noise or a loss of volume.)

- Do NOT wear the hearing amplifier while applying cosmetics (e.g. make-up, hairspray, perfume or sun cream).
- Take care when operating the buttons. Do NOT press too hard.
- Do not insert any sharp objects into the microphone opening as this may damage the microphone.
- Do NOT touch the inside of the device. It contains many sensitive components that have been precisely configured. Under no circumstances should you poke at the inside of the hearing amplifier with a needle or similar object.

Notes on handling batteries

WARNING

- **Risk of explosion! Risk of fire!** Failure to comply with the points mentioned can result in personal injury, overheating, leakage, venting, breakage, explosion, or fire.
- Always use the correct or supplied charging cable and charger for charging.
- Avoid continuous charging or overcharging. Unplug the charger when charging is complete.
- Charge the device under supervision, paying attention to any heat generated, deformation, or release of gases. If in doubt, stop charging.
- If batteries/charging cables/chargers are defective, stop using them and dispose of them properly as soon as possible (see chapter on disposal).
- Do not throw the device or batteries into a fire.
- Never forcibly discharge, heat, disassemble, open, crush, deform, encapsulate, modify, or knock the device or batteries.

- Never short-circuit batteries or the connections of the battery-powered device.
- Protect the device or batteries from direct sunlight, rain, heat, and water.
- Exposure of batteries to an environment with extremely high temperatures or an extremely low air pressure may result in explosion or leakage of flammable liquids and gases.
- If fluid from a battery comes into contact with your skin or eyes, wash the affected areas with water and seek medical assistance.

NOTICE

- This device contains a battery that is not replaceable. Once a battery has reached the end of its service life, the device must be disposed of properly (see chapter on disposal).
- Information on how to remove and/or replace the battery can be found on the website.

5. DEVICE DESCRIPTION

Hearing amplifier

The associated drawings are shown on page 2.

1 Earplug

2 Power switch (ON/OFF)

3 Volume control/change program

4 Microphone

5 Speaker

6 Tube

7 Earplugs in different sizes

8 Cleaning brush

9 Drying capsules

Storage box with charging function

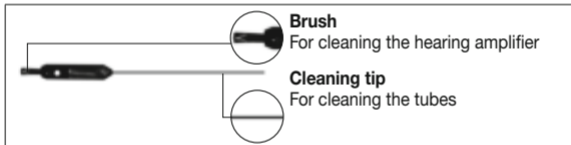
10 USB-C connection

11 Charging slots

12 Storage position for drying capsule

13 Charger

Cleaning brush 8



6. USAGE

6.1 Initial use

Remove the hearing amplifier from the packaging, and check that the hearing amplifier and all accessories are included and not damaged.

6.2 Charging the hearing amplifier with the charger

1. Remove the battery isolation strips from the bottom of the batteries.

2. Make sure that the hearing amplifiers are switched off and then insert them into the charger **13** slots so that they click into place.

Notice: Please ensure that you insert the device correctly into the charger **13** so that it can be charged correctly. The charger is equipped with charging slots that you can use to insert the device in the correct position. Click the device into one of these charging slots **11** so that the ON/OFF switch **2** is located in the opening. You can charge one or both hearing amplifiers at the same time.

3. Using the supplied USB-C cable, connect the charger **13** to a suitable USB mains adapter to use it via a socket.
4. The orange charging LED lights up during the charging process. When charging is complete, the charging LED lights up green; a full charge usually takes about 2.5 hours.
5. When charging is complete, disconnect the charger from the mains and remove the hearing amplifier(s) from the charger.

CAUTION

Make sure the volume is initially set to the lowest setting before operating the hearing amplifier.

6.3 Preparing your hearing amplifier for operation

1. The hearing tubes **6** are printed with “2B” in red and blue respectively. “Red” is for the right and “blue” is for the left ear.
2. Attach the earplug **1** to the tube **6** by pushing it over the grooves on the tube until it sits securely in place. **A**

3. Place the hearing amplifier case behind your ear. The curved part of the tube **6** should sit comfortably on the ear (next to the arm of the glasses for glasses wearers).
4. Hold the tube **6** in place and carefully position the earplug **1** in the ear canal. Make sure not to insert the earplug **1** too deeply into the ear canal. If the earplug **1** is not properly in place or feels uncomfortable, try a different earplug **1**.
5. Place the fixing tube along the outside of your ear. This ensures that the earplug **1** fits tightly in the ear. If the fixing tube bothers you, you can cut it off. It is not absolutely necessary.

6.4 Adjusting your hearing amplifier

1. Slide the power switch **2** to the “ON” position and set the volume control **3** to a suitable volume setting. We recommend starting with the lowest setting.
2. Place the device on your ear and insert the earplug **1** into the ear canal until it fits snugly. Do not force it into your ear.



Check whether you have selected the correct size of earplug by moving your head slowly up and down and then left and right while opening and closing your jaw. If the earplug slips out, it is too small. If you wear glasses, place the arm of the glasses between your head and the hearing amplifier.

CAUTION

Never insert the tube **6** into the ear canal without an earplug **1**. Make sure also not to press the tube and earplug **1** too deeply into the ear canal.

6.5 Switching on/off

To switch the hearing amplifier on or off, slide the On/Off control to “ON” or “OFF”.

6.6 Adjusting the volume

- To increase the volume: Briefly press the volume control **3** upwards
- To reduce the volume: Briefly press the volume control **3** downwards

Use the volume control **3** to adjust the volume to the desired level.



- If you hear a slight whistling sound when wearing the hearing amplifier, check that your earplug is fitted properly in your ear. If it is not snug enough, use a different earplug.
- The hearing amplifier does not heal an existing hearing impairment, but it does improve hearing and speech understanding.
- If you hear a single beep, the volume has been increased or reduced.

6.7 Setting the hearing programs

To change the hearing program, press and hold the volume control **3** up or down for 3 seconds.

You will hear a beep when the program changes:

- One beep = program 1 (normal)

- Two beeps = program 2 (outdoor mode)
- Three beeps = program 3 (restaurant mode)
- Four beeps = program 4 (music mode)

6.8 Replacing the tube

Please have the replacement tube to hand for replacement. You can obtain this from our customer service, see section “8. Accessories and replacement parts”. Check it in advance to ensure that it has the correct colour marking (red is for the right and blue for the left ear).

1. Hold the device in one hand and use the other hand to grip the adapter that connects the tube **6** and the device between your thumb and index finger.
2. Carefully pull the tube at the connecting point. Hold the device firmly while doing so.
3. Pick up the new tube **6**. Fit the tube and press it onto the connecting point until the new tube clicks into place.
4. Check that the tube is properly fitted.

If you have any problems removing the tube, try using a pair of tweezers, for example, to grip the adapter.

6.9 Inserting the drying capsule **B**

A drying capsule **9** is included in delivery. Wearing the hearing amplifier behind your ear means it comes into contact with your skin, and therefore also with sweat, for example. This means that you should dry the hearing amplifiers after each use to care for them properly.

Remove the drying capsule **9** from the packaging, open the cover of the drying compartment and place it inside the storage slot intended for this purpose. The capsule has a colour indicator. As the drying capacity decreases over time, the colour changes from bright orange to white. If the capsule is a whitish colour, it no longer has any drying capacity and has to be exchanged.

To find out where to obtain a new drying capsule **9**, see section “8. Accessories and replacement parts”.



To ensure the best possible drying performance, close the lid of the storage box with charging function after placing the hearing amplifier inside.

7. CLEANING AND MAINTENANCE

- Always keep the hearing amplifier clean.
- Always treat the products with care and prevent the earplug **1** and microphone **4** from becoming blocked with foreign matter. This impairs the function of the sound amplification.
- Clean the hearing amplifier and the earplugs **1** with a clean, dry cloth after each use. If it is very dirty, you can also moisten the cloth with a mild soapy solution. Never use abrasive, corrosive or solvent-based cleaning products.
- Earwax stuck in the earplug **1** should be removed using the supplied cleaning brush **8** (see device description).
- The drying capsule **9** must be replaced if the colour of the granulate changes from orange to white (you can find out where to obtain a new drying capsule in section “8. Accessories and replacement parts”).

- Clean the microphone carefully with a damp cloth, making sure that the microphone openings are not covered with residue.

NOTICE

- Under no circumstances should you hold the hearing amplifier under water, as this can cause liquid to enter and damage the hearing amplifier.
- Allow the hearing amplifier to dry fully after cleaning. Store the hearing amplifier in a safe, dry and clean place, in the relevant storage box with charging function with the drying capsule **9**.

8. ACCESSORIES AND REPLACEMENT PARTS

To purchase accessories and replacement parts, please visit www.beurer.com or contact the corresponding service address (according to the service address list) in your country. Accessories and replacement parts are also available from retailers.

Designation	Item/order number
Drying capsules HA 55/90 8 pcs.	641.15
Sound tubes size S	164.341
Sound tubes size L	164.342
Sound tubes size M	164.379

9. TROUBLESHOOTING

No sound can be heard from the hearing amplifier:

- Check whether the hearing amplifier is switched on (see “6. Usage”).
- Check whether the battery is flat. Charge the battery if necessary (see “6. Usage”).
- Check whether the microphone **4** is dirty (see “7. Cleaning and maintenance”).
- Check whether the hearing amplifier is damaged. If this is the case, contact customer service.

The sound is very weak and faint:

- Check whether the volume setting **3** on the hearing amplifier is too low (see “6. Usage”).
- Check whether the battery is flat. Charge the battery if necessary (see “6. Usage”).
- Check whether the earplug **1** is dirty (see “7. Cleaning and maintenance”). If the earplug can no longer be completely cleaned, replace it (see “8. Accessories and replacement parts”).
- Check whether the microphone **4** is dirty (see “7. Cleaning and maintenance”).
- Check whether the integrated speaker **5** is damaged. If this is the case, contact customer service.

Hearing amplifier emits unpleasant whistling sounds.

- Check whether the earplug **1** of the hearing amplifier fits correctly in the ear. An incorrectly fitting earplug may cause unpleasant whistling sounds (acoustic feedback) and impair the functioning.

- Check whether the microphone **4** of the hearing amplifier is covered by parts of the ear or large portions of hair.
- Check whether the hearing amplifier is set too loud (see “6.6 Adjusting the volume”).
- At higher volume settings, you can occasionally hear feedback if your ears are covered. This can happen when wearing headgear or inserting/removing the hearing amplifier, for example.

LEDs of the charger do not light up:

- Check whether the hearing amplifier is sitting correctly in the opening or whether the USB cable **10** is correctly connected to the storage box and the mains adapter.
- Check whether the charging contacts in the storage box with charging function or on the hearing amplifier are dirty.

LEDs of the charger flash orange:

- The hearing amplifier’s battery is faulty. Please contact Customer Services.

10. DISPOSAL

General disposal

For environmental reasons, do not dispose of the device in household waste at the end of its service life. Dispose of the device at a suitable local collection or recycling point in your country. Dispose of the device in accordance with EC Directive – WEEE (Waste Electrical and Electronic Equipment). If you have any questions, please contact the local authorities responsible for waste disposal.



11. TECHNICAL SPECIFICATIONS

Max. output sound pressure level (OSPL90):	117 dB + 3 dB
Max. sound amplification:	54 dB ± 3 dB
Overall harmonic distortion:	≤5% @ 500 Hz, 800 Hz, 1600 Hz
Frequency range:	250–5000 Hz
Input noise:	≤20 dB + 3 dB
Supply voltage of the hearing amplifier:	3.4 V ~ 4.2 V ---
Power consumption:	≤0.8 mA
Expected service life of the device:	Information on the product's service life can be found on the website
Battery life:	≥ 16 hours
Operating conditions:	Temperature: 0°C ~ +40°C Relative humidity: 30% ~ 75% Atmospheric pressure: 860 ~ 1060 hPa
Storage and transportation conditions:	Temperature: -10°C ~ +55°C Relative humidity: ≤90%

The serial number is located on the device.

Technical specifications are subject to change without notification to allow for updates.

- This device conforms with the European standard EN 60601-1-2 (Group 1, Class B, in compliance with CISPR 11, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11) and is subject to particular precautions with regard to electromagnetic compatibility. Please note that portable and mobile HF communication systems may interfere with this device. For more details, please contact our Customer Services at the address indicated.

Notification of incidents

For users / patients in the European Union and identical regulation systems, the following applies: If a major incident occurs during or through use of the product, notify the manufacturer and/or their representative of this as well as the respective national authority of the member state in which the user/patient is located.

Notes on electromagnetic compatibility

NOTICE

- The device is suitable for use in all environments listed in these instructions for use, including domestic environments.
- The device may not be fully usable in the presence of electromagnetic interference. This could result in issues such as error messages or the failure of the display/device.
- Avoid using this device directly next to other devices or stacked on top of other devices, as this could lead to faulty operation. If, however, it is necessary to use the device in the manner outlined above, this device as

well as the other devices must be monitored to ensure they are working properly.

- The use of accessories other than those specified or provided by the manufacturer of this device can lead to an increase in electromagnetic emissions or a decrease in the device's electromagnetic immunity; this can result in faulty operation.
- Keep portable RF communication devices (including peripheral equipment, such as antenna cables or external antennas) at least 30 cm away from all device parts, including all cables included in delivery.
- Failure to comply with the above could impair the performance of the device.

12. GUARANTEE

Further information on the guarantee and guarantee conditions can be found in the guarantee leaflet supplied.



Beurer UK Ltd., Suite 16, Stonecross Place, Stonecross Lane
North, WA3 2SH Lowton, United Kingdom



Beurer GmbH • Söflinger Str. 218 • 89077 Ulm (Germany)
www.beurer.com • www.beurer-gesundheitsratgeber.com
www.beurer-healthguide.com

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