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› [Hellberg](#) /

› Hellberg Local 446 Active Helmet Capsule Hearing Protection with Radio Electronic Ear Defenders with Radio Antenna EN 352 User Manual

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Hellberg Local 446 Active Helmet Capsule Hearing Protection with Radio Electronic Ear Defenders with Radio Antenna EN 352 User Manual

Model: Local 446 | Brand: Hellberg

INTRODUCTION

The Hellberg Local 446 is an advanced active hearing protection system designed for demanding environments. It combines robust hearing protection with integrated radio communication capabilities, allowing for clear communication without the need for external devices. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your Hellberg Local 446 ear defenders.



Figure 1: Hellberg Local 446 Active Hearing Protection Ear Defenders, showing the main unit with antenna and microphone.

Key Features:

- **Integrated Radio:** 16 preset, license-free PMR 446 channels for group communication.
- **Active Noise Amplification:** Protects against loud noises while amplifying quiet sounds and voices for improved situational awareness.
- **Boom Microphone with Noise Cancelling:** Ensures clear communication even in noisy environments.
- **EN 352 Approved:** Certified for hearing protection standards.
- **Intuitive User Interface:** Large buttons and a side display for easy operation, even with gloves.

SAFETY INFORMATION

Always read and understand all safety warnings and instructions before using the Hellberg Local 446. Failure to follow these instructions may result in serious injury or damage to the device.

- **Hearing Protection:** These ear defenders are designed to protect against harmful noise levels. Ensure they are worn correctly and fit snugly to achieve the stated protection level (EN 352).
- **Battery Safety:** Use only recommended batteries. Do not mix old and new batteries, or different types of batteries. Dispose of batteries according to local regulations.
- **Environmental Conditions:** Do not expose the device to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- **Cleaning:** Clean the device only with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Modifications:** Do not attempt to modify or disassemble the device. Repairs should only be performed by authorized service personnel.

SETUP

1. Attaching to Helmet (Helmet Version):

For the helmet-mounted version, ensure your helmet is compatible with the Hellberg Local 446 attachment system. Align the ear defender's attachment points with the helmet slots and secure them firmly until they click into place. Verify that the ear cups can pivot freely and seal properly around your ears.



Figure 2: Hellberg Local 446 ear defenders mounted on a safety helmet, demonstrating proper attachment.

2. Battery Installation:

Locate the battery compartment, typically on one of the ear cups. Open the compartment cover. Insert the required batteries (e.g., AA or AAA, refer to packaging for specific type) ensuring correct polarity (+/-). Close the compartment cover securely.

3. Antenna Attachment:

Screw the provided antenna firmly into the designated port on the ear defender. Ensure it is fully tightened for optimal radio performance.



Figure 3: Side view of the ear defenders, illustrating the robust construction and adjustable band.

OPERATING INSTRUCTIONS

1. Power On/Off:

Press and hold the power button (usually marked with a power symbol) for a few seconds until the display illuminates. To power off, press and hold the power button again until the display turns off.



Figure 4: Detailed view of the control panel, showing the power button, volume controls, and display.

2. Volume Control:

Use the 'Up' and 'Down' arrow buttons to adjust the listening volume for ambient sounds and radio communication. The

current volume level is typically shown on the side display.

3. Radio Channel Selection:

The Hellberg Local 446 features 16 preset PMR 446 channels. Use the channel selection buttons (often labeled 'CH' or similar, or integrated with arrow keys) to cycle through the available channels. The selected channel number will be displayed.

4. Sub-Channel (CTCSS/DCS) Configuration:

To enable private group communication, the device supports sub-channels (often referred to as CTCSS or DCS tones). Consult the on-screen menu or specific buttons (e.g., 'Sub' or 'Menu') to select a sub-channel. All members of a group must be on the same main channel and sub-channel to communicate. The team leader can monitor multiple sub-channels by staying on the main frequency without a sub-channel selected.



Figure 5: The side display indicating channel (CH) and sub-channel (Sub) settings, along with battery status.

5. Using the Microphone:

The boom microphone can be adjusted for optimal positioning near your mouth. To transmit, press and hold the Push-To-Talk (PTT) button, usually located on the side of an ear cup. Speak clearly into the microphone. Release the PTT button to listen.



Figure 6: Close-up view of the flexible boom microphone and its attachment point on the ear defender.

6. Pairing Multiple Units:

To communicate with other Hellberg Local 446 units, ensure all devices are powered on and set to the same main channel and, if desired, the same sub-channel. No complex pairing procedure is typically required for standard PMR 446 communication; it operates like a traditional two-way radio system.

MAINTENANCE

1. Cleaning:

Regularly wipe down the ear defenders with a soft, slightly damp cloth. Do not use abrasive cleaners, solvents, or immerse the unit in water. Ensure the ear cushions are clean and free from debris to maintain proper seal and hygiene.

2. Battery Replacement:

Replace batteries when the low battery indicator appears on the display or when performance degrades. Always replace all batteries at the same time with new ones of the same type and brand.

3. Storage:

When not in use for extended periods, remove the batteries to prevent leakage. Store the ear defenders in a cool, dry place, away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity. Replace with fresh batteries.
No radio signal or poor reception.	Antenna not attached properly; out of range; interference.	Ensure antenna is securely screwed in. Move closer to other units. Avoid sources of strong electromagnetic interference.
Cannot communicate with other units.	Different channels or sub-channels selected.	Verify all units are on the same main channel and sub-channel.
Audio is distorted or too quiet.	Volume too low; microphone not positioned correctly; ear cushions not sealing.	Adjust volume. Reposition microphone. Ensure ear cups fit snugly.

SPECIFICATIONS

- **Model:** Local 446
- **Brand:** Hellberg
- **Type:** Active Helmet Capsule Hearing Protection with Radio
- **Approval:** EN 352 (Hearing Protection)
- **Radio Channels:** 16 preset, license-free PMR 446 channels
- **Microphone:** Boom microphone with noise cancelling
- **ASIN:** B09GXVXRJT
- **Date First Available:** 29 Sept. 2021
- **Department:** Unisex
- **Country of Origin:** China

WARRANTY AND SUPPORT

Warranty information for your Hellberg Local 446 is typically provided with your purchase documentation. Please refer to the warranty card or contact your retailer for specific details regarding coverage and duration.

For technical support, spare parts, or service inquiries, please visit the official Hellberg website or contact their customer service department. Contact details can usually be found on the product packaging or the manufacturer's website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question