# TACTICAL ELECTRONIC EAR PROTECTORS (TEEP)

**Type:** RANGE Light

**Code:** 97/BLA/LG, 97/GRE/LG

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The **TEEP RANGE Light** tactical electronic hearing protector enables **clear communication** and **3D 360° local situational awareness/overview**. The hearing protector provides **advanced protection against both continuous and impulse ambient noise**.

## Technical Data

### TRUE 360° Situational Awareness

- Each earcup is equipped with **two omnidirectional microphones**.
- The **left and right sides are processed independently**, resulting in **realistic spatial perception** of the surroundings without losing directional accuracy.

### Volume and Noise Attenuation

- **5 amplification levels**
- **Earplug mode** for use with earplugs
- **Automatic noise limiting at (82 ± 3) dBSPL**
- **Reaction time: <10 ms**
- **SNR: 27 dB**
- **Attenuation levels: H 31 / M 25 / L 17** *(Certified according to **EN 352**. Current production versions achieve **10% higher real-world parameters**.)*

### Power Supply and Operating Time

- **Built-in Li-Ion battery (3.7 V / 1350 mAh)**
- **Minimum 200 hours of operation**, 0 consumption in off mode
- **USB-C charging**
- **≥ 500 guaranteed charging cycles**
- **Voice notification of battery status**

**Operational Durability**

- **IP67** (dust and water resistance)
- **Operating temperature:** -20 °C to +60 °C
- **UL 94 V2** (flame retardancy)
- **Compliance:** EN 352 / PPE 2016/425 / EMC 2014/30/EU / RoHS

**Description**

The **RANGE Light** is equipped with a **metal, foldable, and adjustable headband**. Using **brakes on the wire earcup holders**, the user can adjust the optimal position of the hearing protector on their head/ears.

There are **two volume control buttons** for turning the device on/off, setting the sound output level, and selecting settings in the **voice menu**. There is also **one central button** for activating the **voice menu/settings** and confirming the selected option.

The protector includes an **integrated rechargeable battery** (charged via a **standard USB-C interface**), along with **sophisticated charging/battery management** and a **visual indicator**.

| Lang | 1. | 2. | 3. | 4. | 5. |
|---|---|---|---|---|---|
| **CZ** | Hlavový most | Náušníky | Mikrofony | Tlačítka hlasitosti | Středové tlačítko |
| **EN** | Headband | Earcups | Microphones | Volume control buttons | Central button |
| **PL** | Pałąk | Muszle | Mikrofony | Przyciski regulacji głośności | Centralny przycisk |
| **FR** | Arceau | Coquilles | Microphones | Boutons de réglage du volume | Bouton central |
| **DE** | Kopfbügel | Ohrmuscheln | Mikrofone | Lautstärkeregelungstasten | Zentraler Knopf |
| **ES** | Diadema | Auriculares | Micrófonos | Botones de control de volumen | Botón central |

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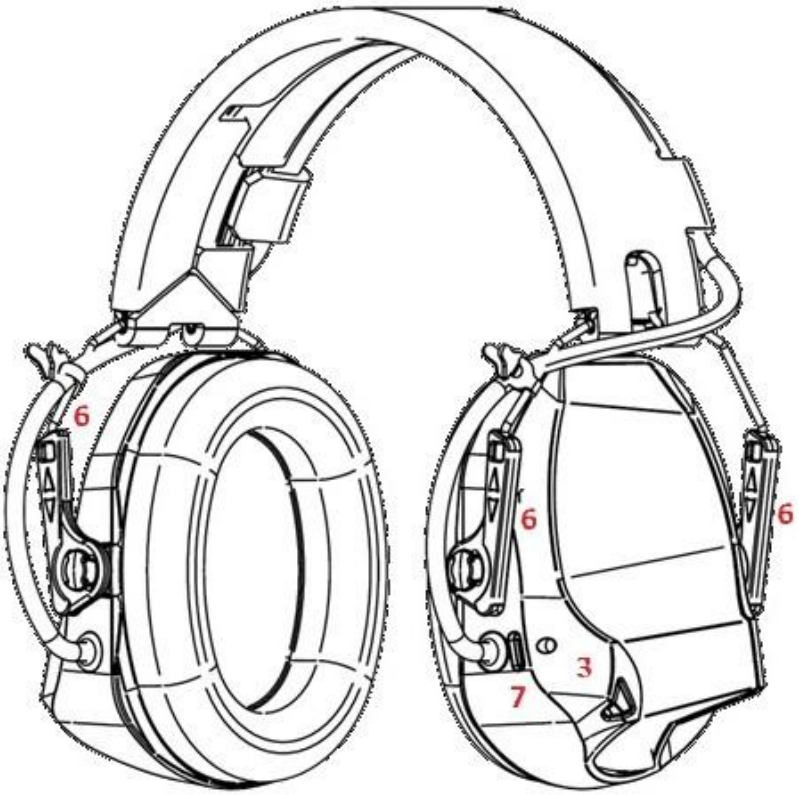


| Lang | 3. | 6. | 7. |
|---|---|---|---|
| **CZ** | Mikrofony | Nastavovací brzdiče | USB-C nabíjecí konektor |
| **EN** | Microphones | Positioning stops | USB-C charging connector |
| **PL** | Mikrofony | Hamulce regulacyjne | Złącze ładowania USB-C |
| **FR** | Microphones | Freins de réglage | Connecteur de charge USB-C |
| **DE** | Mikrofone | Positionierungsbremsen | USB-C-Ladeanschluss |
| **ES** | Micrófonos | Frenos de ajuste | Conector de carga USB-C |

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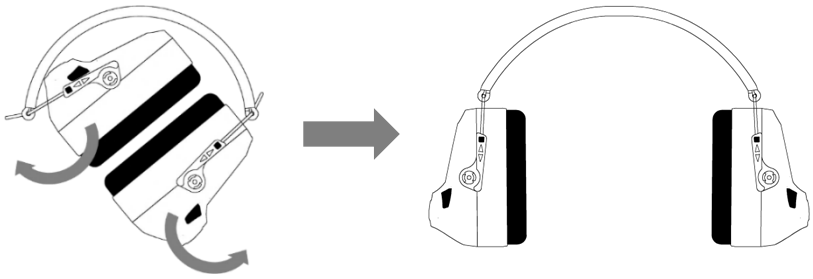
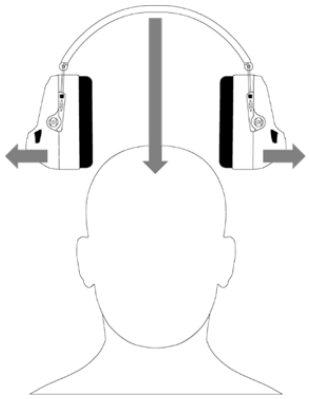
**Fitting and Adjusting the Hearing Protector**

- **Open the hearing protector to its default position.**



- **Place the hearing protector on your head.**



- **Adjust the position of the hearing protector on your head and ears.**

To achieve the **best hearing protection**, remove hair around the ears so that the earcups fit tightly against the head/ears. If wearing glasses, the temples should be as thin as possible and fit snugly against the head to minimize interference with the proper function of the hearing protector.

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**Operation and Controls**

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**Turning On**

Press and hold the **volume control button "↑" or "↓"** for **2 seconds**. The **visual indicator will light up green**, a sound signal will play, and a **voice message "Welcome"** will be announced.

If the hearing protector does not turn on, connect the charger and wait **at least 1 minute** before trying again.

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**Volume Control**

Use the **"↑" and "↓" buttons** to set the volume to the desired level (**5 steps available**). The same volume level as before turning off will be restored each time the device is turned on again. Each step is indicated by a **short blue visual indicator flash** and a **beep sound**. Maximum/minimum volume is indicated by a **double beep**.

If the user uses additional hearing protection in the form of earplugs, the overall volume of the hearing protector can be increased by selecting the **"Audio Settings"** option in the voice menu, followed by **"Earplugs On"**.

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**Turning Off**

Press and hold the **volume control button "↑" or "↓"** for **2 seconds**. The **visual indicators will turn off**, a sound signal will play, and a **voice message "Powering Off"** will be announced.

The **intelligent standby mode** automatically turns off the hearing protector after **8 hours** (default setting, adjustable via voice menu) if no button is pressed during this time, if the built-in test identifies any internal malfunction, or if the battery charge level is too low and the charger is not connected.

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**Power and Battery Status Indicator**

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**1. Visual Battery Status and Charging Indicator**

**During Operation (Green Visual Indicator):**

- **Steady light** → Battery fully charged.
- **Long blinking** → At least **8 hours of operation** remaining.
- **Medium blinking** → At least **4 hours of operation** remaining.
- **Short blinking** → At least **1 hour of operation** remaining.

**During Charging (Blue Visual Indicator):**

- **Short blinking** → Fast charging.
- **Long blinking** → Battery will be fully charged in **less than 15 minutes**.
- **Steady light** → Charging complete (battery ≥ 95%).

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**2. Audible Battery Status Warning**

**Beep tones (every 10 minutes, along with a voice message indicating the actual battery status):**

- **2 beeps** → At least **8 hours of operation** remaining.
- **3 beeps** → At least **4 hours of operation** remaining.
- **4 beeps** → At least **1 hour of operation** remaining.

The battery charge level information is available as the **first item in the voice menu settings**.

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**3. Battery Charging**

Connect the **standard USB charger** using the **USB-C to USB-A cable** (included in the package) to the **USB-C port** of the hearing protector.

The **typical charging time is 2 hours** (indicated by a **blue blinking visual indicator**). When the battery is fully charged, the **visual indicator lights up blue steadily**.

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## Voice Menu and Settings

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### Activating the Voice Menu

- When the hearing protector is **turned on**, press the **central button "O"** for **1 second** to activate the **voice menu/settings**.
- Use the **"↑" and "↓" buttons** to select the desired item (see **Voice Menu Table** below).
- To **confirm/select** the desired item or parameter, or to enter a submenu, press the **central button "O"**.

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### Voice Menu Items

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### Settings

1. **Battery Status**
    - Battery level in %

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2. **Device and Hearing Tests**
    - **Device Test** – Automatic check of all headset systems with voice output of the status for each subsystem.
    - **Hearing Test** – Test of your hearing from **10 kHz to 19 kHz**.

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3. **Communication**
    - **Earplugs On**
        - Off
        - On
        - Exit
    - **Turn on when device is connected**
        - Off
        - On
        - Exit
    - **Turn on when device is disconnected**

- Off
- On
- Exit

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4. **Bluetooth**
   - Not set

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5. **Radio**
   - Not set

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6. **Other Settings**
   - **Assistant Language**
     - Czech Female
     - English Female
     - English Male
     - Polish Female
     - Slovak Female
     - Exit
   - **Assistant Volume**
     - Maximum Volume
     - 70%
     - 50%
     - 30%
     - Minimum Volume
     - Exit

- **Automatic Power Off**
  - 1 Hour
  - 8 Hours
  - 2 Hours
  - Exit
- **Visual Indicators Enabled**
  - On
  - Off
  - Exit
- **Welcome Message Enabled**
  - On
  - Off
  - Exit
- **Power Off Message Enabled**
  - On
  - Off
  - Exit
- **Firmware Version**
- **Exit**

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7. **Factory Reset**

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**Default Settings – Quick Selection**

When the hearing protector is **turned on**, press and hold **both volume control buttons "↑" and "↓"** for **2 seconds** to activate the default settings (a sound signal and voice message **"Factory Reset Confirmed"** will play).

**Additional User Information**

- Hearing protectors **must be worn, used, and maintained** in accordance with this manual.
- The user should **regularly check** the hearing protector for proper functionality.
- The user should **test the proper function before each use**. If any distortion in situational awareness or other malfunction is detected, the user should contact the manufacturer.
- The use of **hygienic earcup covers** may affect the acoustic properties of the hearing protector.
- Failure to follow these recommendations may **adversely affect the attenuation of the hearing protector**, which could lead to **hearing damage**.

**Cleaning and Maintenance**

- If the hearing protector comes into contact with water, **wipe it dry**, shake out water from the earcup and microphone areas, and let it dry.
- Clean the hearing protector with a **clean, damp cloth**. **Do not use solvents**.

**Storage**

- Avoid **long-term storage in direct sunlight**.
- Do **not store** the hearing protector at temperatures **above +63 °C** (e.g., on a dashboard or windowsill) or **below -33 °C**.
- When storing, ensure the **earcups are not compressed** – long-term compression may cause **permanent deformation** and thus **loss of noise attenuation**.
- Regularly check the earcups for **cracks or tears**, which may impair situational awareness and hearing protection and/or cause discomfort.

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**Recycling**

- This product is subject to **Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE)** and is **recyclable**.
- Dispose of the product **in accordance with national regulations**.
- Use the **local electronic product recycling system**.

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**In case of any questions or support needs, please contact our Customer Support Center at info@reddotone.com or visit our website at www.reddotone.com.**

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**Producer**

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