OPUS® 2
Audio Processor

Quick Guide
Table of Contents

Basic Assembly ................................................. 2
D Coil ............................................................ 3
Earhook .......................................................... 4
Battery Options ............................................... 5
Indicator Light ................................................ 6
FineTuner ....................................................... 8
FineTuner Light Patterns ................................. 10
Batteries ........................................................ 11
Telecoil Accessories ........................................ 12
FM Battery Pack .............................................. 14
BabyBTE/ActiveWear ........................................ 16
Children's Battery Pack ..................................... 18
Mini Battery Pack ............................................ 20
Safety Features ............................................... 24
Basic Care and Maintenance .............................. 26
Troubleshooting .............................................. 28
Basic Assembly

1. Plug the coil cable into the control unit.
2. Lock the battery pack frame using the connecting piece.
3. Attach the battery pack frame to the control unit.
4. Connect the coil cable to the D Coil.
5. Insert the batteries with positive (+) poles facing out.
6. Slide on the battery pack cover. Close the battery pack cover lock.

Ensure the arrow is on top.
Ensure the centre ridge is on top.

Your OPUS 2 is now turned on.
**Detaching XS Battery Pack DaCapo Rechargeable Battery Pack**

**Earhook**

**Detaching**

1. Remove the earhook pin by pushing it out with the supplied pin removal tool.

2. Remove the earhook by gently pushing it down.

**To Attach**

Note the mechanism that secures the earhook.

To lock the earhook, attach the earhook and insert the earhook pin.

**Battery Options**

**OPUS 2**

**XS Battery Pack**

Alternately the daily usage of your DaCapo batteries for best results.

**DaCapo Rechargeable Battery Pack**

Attach the DaCapo Rechargeable Battery Pack or the XS Battery Pack in the same way you attach the standard battery pack cover. (See Basic Assembly instructions on pages 2–3.)
**Confirmation**

- FineTuner command has been successfully received.

**Program Change**

- Program 1 is selected.
- Program 2 is selected.
- Program 3 is selected.
- Program 4 is selected.

**Status**

- If the optional status light has been activated: OPUS 2 is initialised and working.

---

**Warning**

Problem

- Temporary error or electronic malfunction.

Solution

1. Turn processor off.
2. Turn processor back on.

---

**Status**

- Batteries are empty.

Solution

Change the batteries.

- Either minimum or maximum volume has been reached, or audio sensitivity has been reached.

Solution

Adjust volume or sensitivity if necessary.

---

**Error Pattern**

Problem

- The setting you selected has not yet been programmed, or there has been a program malfunction.

Solution

Select another setting.

- Temporary error or electronic malfunction.

Solution

1. Turn processor off.
2. Turn processor back on.

- Programming failure, temporary error, or electronic malfunction.

Solution

1. Turn processor off.
2. Turn processor back on.

---

**Scale in Seconds**

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
</table>

**Confirmation**

- FineTuner command has been successfully received.

**Program Change**

- Program 1 is selected.
- Program 2 is selected.
- Program 3 is selected.
- Program 4 is selected.

**Status**

- If the optional status light has been activated: OPUS 2 is initialised and working.

---

**Warning**

Problem

- Temporary error or electronic malfunction.

Solution

1. Turn processor off.
2. Turn processor back on.

---

**Status**

- Batteries are empty.

Solution

Change the batteries.

- Either minimum or maximum volume has been reached, or audio sensitivity has been reached.

Solution

Adjust volume or sensitivity if necessary.

---

**Error Pattern**

Problem

- The setting you selected has not yet been programmed, or there has been a program malfunction.

Solution

Select another setting.

- Temporary error or electronic malfunction.

Solution

1. Turn processor off.
2. Turn processor back on.

- Programming failure, temporary error, or electronic malfunction.

Solution

1. Turn processor off.
2. Turn processor back on.

---

**Scale in Seconds**

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
</table>
### FineTuner Keypad Lock

To prevent accidental setting changes, you can activate the FineTuner Keypad Lock. If any key is pressed while the keypad is locked, the red LED light on the FineTuner will blink.

**Temporarily Unlocking the Keypad**
You can make a selection even when the keypad is locked by pressing any given key twice. The first click temporarily unlocks the keypad, and the second click sends the command.

When the Keypad Lock is temporarily deactivated, the keypad will relock after 10 seconds of inactivity.

**Activating the Keypad Lock**
1. Press and hold the (Up) key for 5 seconds, or until the red and amber lights blink alternately.
2. Press the (Up) key. When the keypad has been locked successfully, the amber lights will blink.

**Deactivating the Keypad Lock**
1. Press the (Up) key twice. The second time, press and hold for at least 5 seconds, or until the red and amber lights blink alternately.
2. Press the (Up) key. The amber lights will blink to indicate that your FineTuner is unlocked.

Any FineTuner key can be deactivated by your clinician to prevent accidental setting changes.
**Light Patterns**

<table>
<thead>
<tr>
<th>Light Pattern</th>
<th>Meaning</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>— — —</td>
<td>Keypad is locked</td>
<td>If you press any key while the FineTuner is locked, the red indicator lights will turn on.</td>
</tr>
<tr>
<td>— — —</td>
<td>Information is being transmitted</td>
<td>The indicator lights blink when signals are being transmitted. The left light blinks if the left side is activated. The right light blinks if the right side is activated. Both blink if both sides (for bilateral users) are activated.</td>
</tr>
<tr>
<td>— — —</td>
<td>Input side change</td>
<td>Press the left key to send commands to the left side. Press the right key to send commands to the right side. The corresponding amber light will turn on. To send commands to both sides (for bilateral users), press the centre key. Both amber lights will turn on.</td>
</tr>
<tr>
<td>— — — + 5 seconds</td>
<td>Programming mode</td>
<td>Press for more than 5 seconds to activate programming mode. The 3 indicator lights will flash alternately.</td>
</tr>
<tr>
<td>— — — — — — — — —</td>
<td>Batteries are low</td>
<td>If batteries are low, the red indicator light in the centre will blink three times repeatedly.</td>
</tr>
<tr>
<td>— —</td>
<td>Configuration has been successful</td>
<td>If configuration of your FineTuner has been successful or if the automatic keyboard lock feature has been either activated or deactivated, both amber lights will turn on for one second.</td>
</tr>
</tbody>
</table>

**Batteries**

Use only type 675 batteries to power your OPUS 2. We recommend using high-power zinc-air batteries that are designed especially for cochlear implant systems. When you use OPUS 2 with the WaterWear accessory, however, you must substitute zinc-air batteries with one of the other types.

<table>
<thead>
<tr>
<th>Battery Pack</th>
<th>Zinc-Air Batteries</th>
<th>Silver-Oxide Batteries</th>
<th>alkaline Batteries</th>
<th>Rechargeable Battery Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS Battery Pack</td>
<td>60 hours</td>
<td>90 hours</td>
<td>10 hours</td>
<td>8 hours</td>
</tr>
<tr>
<td>Standard Battery Pack</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>DaCapo Battery Pack</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Look for the symbol that identifies the use of an induction loop system at venues.

1. Find the listening area of the induction loop system and stay within it.
2. Press the MT or T button on your FineTuner to activate the telecoil function and select the input type.

For Neckloops and Silhouettes

1. Insert the 3.5 mm plug of the telecoil accessory into the headphone jack of the audio device.
2. Press the MT or T button on your FineTuner to activate the telecoil and select the input type.
3. Place the telecoil accessory around your neck if you’re using a neckloop or on your ear if you’re using a silhouette.

For Induction Loop Systems

1. Insert the 3.5 mm plug of the telecoil accessory into the headphone jack of the audio device.
2. Find the listening area of the induction loop system and stay within it.
3. Press the MT or T button on your FineTuner to activate the telecoil function and select the input type.
With Direct Audio Input

1. Insert the 3-pin plug of the audio adapter cable into the FM port.

2. Insert the 3.5 mm plug of the audio adapter cable into the headphone port of the audio device.

FM Battery Pack

Attach the FM Battery Pack in the same way you attach the standard battery pack cover. (See Basic Assembly instructions on pages 2-3 of this guide.)

Insert the FM receiver into the FM port. OPUS 2 will automatically detect sound signals as soon as the FM system is activated.

Refer to the user manual for your FM system for instructions on changing FM settings.
1. Carefully snap the microphone cover onto the control unit.

2. Plug the coil cable into the control unit.

3. Attach the battery pack frame to the control unit and secure both components using the connecting piece.

Note the mechanism that secures the microphone cover.

Ensure the arrow is on top.

Refer to page 4 for earhook removal.

The connecting piece is also available with a safety lock. See page 24 for details.
Basic Assembly

1. Plug the coil cable into the control unit.

2. Attach the connector to the control unit and secure both components using the connecting pin.

Ensure the arrow is on top.

The connecting piece is also available with a safety lock for additional security. See page 24 for details.
**Mini Battery Pack**

- **ON/OFF Switch and Battery Compartment Lock**
- **Battery Compartment** for DaCapo PowePack or AAA Battery
- **3-Pin FM Port**
- **Microphone Test Device Port (CS 44)**
- **Connector**

### Basic Assembly

1. **Plug the coil cable into the control unit.**

2. **Attach the connector to the control unit and secure both components using the connecting pin.**

Ensure the arrow is on top.

The connecting piece is also available with a safety lock for additional security. See page 24 for details.
Insert the 3-pin plug of the audio adapter cable into the FM port.

2 Insert the 3.5 mm plug of the audio adapter cable into the headphone port of the audio device.

Refer to the user manual of your FM system for instructions on changing FM settings.
Safety Features

Battery Pack Cover Lock
The battery pack cover can be locked to prevent tampering or disassembly. If OPUS 2 belongs to a child, always lock the battery pack cover before you place the audio processor on the child's ear.

1. Insert the long-pinned connecting piece and place the safety lock onto the pins. The coil cable plug should rest in the cutout section.

2. Slide the lever to the left with a pointed object (e.g. ballpoint pen) to secure the safety lock.

3. To open the safety lock, move the lever in the opposite direction.

Lockable Earhook
The earhook locks securely in place to prevent accidental removal. To lock the earhook, insert the earhook pin after you attach the earhook to the control unit. If OPUS 2 belongs to a child, always insert the earhook pin before you place the audio processor on the child's ear.

FineTuner Deactivation
You can deactivate certain FineTuner keys or programs to prevent accidental changes to settings. For more information about this feature or for instructions for FineTuner deactivation, please contact your CI centre.
Basic Care and Maintenance

Follow these basic and important care instructions to help improve the functioning of your OPUS 2 and extend its life.

General Cleaning
Clean OPUS 2 regularly by wiping it with a soft, damp cloth. Don't use cleaning solutions. Use extra care when cleaning small parts such as the battery contacts.

Battery Contacts
Inspect the battery contacts regularly; clean and dry them as necessary. To clean them, use a cotton swab and a small amount of rubbing alcohol. Gently wipe them dry. Avoid touching the battery contacts.

Drying
Use the drying kit every night to allow OPUS 2 to dry out completely. Remove the battery pack cover before putting it into the drying kit with your audio processor. Disposable batteries can be left in the frame and put into the drying kit. Don't put rechargeable batteries into the drying kit.

Moisture
Protect OPUS 2 from exposure to water. If your audio processor gets wet, gently wipe it dry with a soft absorbent cloth.

Sunlight
Don't leave OPUS 2 in direct sunlight, especially inside of a vehicle. Don't expose your audio processor to extreme temperatures.

Refer to your user manual for more information about care and maintenance.
In case you encounter any minor technical problems, such as an interruption in sound, carefully follow these steps to identify possible causes and solutions:

1. Remove your OPUS 2 and change the batteries.
   If that doesn't solve the problem, go to 2.
2. Disassemble your OPUS 2 into five parts: control unit, battery pack frame, battery pack cover, coil cable, and D Coil. (For guidance, see pages 2–3.)
3. Check each part for dirt or signs of damage.
   Gently clean any processor parts that are dirty and wipe dry any parts that are wet. (See instructions on pages 26–27.)
   If any parts appear damaged, contact your CI centre for assistance.
4. Reassemble OPUS 2. (See instructions on pages 2–3.)
   If your processor still isn't working, go to 5.
5. Use the Speech Processor Test Device to troubleshoot your audio processor.

Speech Processor Test Device

The Speech Processor Test Device (SPTD) is a troubleshooting tool for detecting the most common audio processor problems. To troubleshoot with the SPTD, follow these steps:

1. Switch on your OPUS 2.
2. Place the flat side of the D Coil under the Speech Processor Test Device.
3. Speak into the OPUS 2 microphone. The indicator light should flicker to the rhythm of your voice. If it doesn't, go to 4.
4. Adjust the volume and speak into the microphone.
   If the indicator light doesn't flicker, go to 5.
5. Change the batteries and speak into the microphone.
   If the indicator light doesn't flicker, go to 6.
6. Replace the coil cable.

If your OPUS 2 still isn't working or for immediate assistance, please contact your CI centre. For complete troubleshooting instructions, visit medel.com.