

QuickGuide

RONDO Audio Processor



Getting to Know the RONDO

The parts and functions

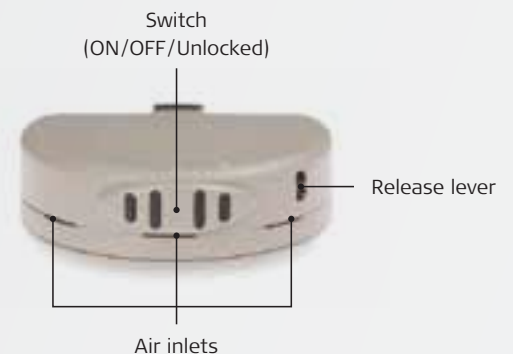
Control Unit: The control unit is just like a tiny computer. Inside, an electronic chip controls the entire system. It can hold several different programs (also called 'maps'), which contain the specific hearing settings for each user.

Microphone port: This tiny opening is where sound enters the processor.

LED indicators: These small red lights indicate a variety of status and error conditions. They should illuminate when the processor is first turned on and will indicate which position is currently active (with 1, 2, 3 or 4 quick blinks).

Integrated telecoil: The telecoil is located in the control unit and requires no additional parts or cables. Select telecoil settings using the FineTuner remote control to reduce background noise with hearing aid compatible telephones and induction loop systems.

Mini Battery Pack (optional): The standard input jack on the Mini Battery Pack provides the widest variety of connectivity with different audio devices. The input jack is the same three-pin port that is used with hearing aids – which allows new CI users to preserve their initial investments by continuing to use their personal assistive devices. (See page 5.)



TIP

An easy way to remove batteries from your RONDO – simply use the bottom side of the processor to let the magnet lift the batteries out!



Everyday Use

Turning the audio processor ON and OFF

The switch on the battery pack functions as an ON/OFF switch. You may select the following positions:

RONDO OFF: 0

RONDO ON: |



RONDO Protector

The RONDO protector is a soft silicone cover intended to absorb mechanical impact on the housing in case the RONDO is dropped. The protector reduces the risk of damage to the audio processor. MED-EL strongly recommends that you always use the RONDO protector.

To assemble the RONDO protector, insert the narrow end of the RONDO audio processor into the protector. Next, pull the protector over the opposite side so that the slide switch rests in the cutout section of the protector. The back strap of the protector should rest across the top of the processor.



Attachment Clip

The attachment clip is used to secure the RONDO to hair or clothing to reduce the risk of damaging the audio processor should it come off and drop on the floor or another hard surface. MED-EL strongly recommends that you always use the attachment clip.



Changing the Batteries

The battery pack features a tiny release lever on the right side of the ON/OFF switch. To remove the battery pack, press down the release lever and push the slide switch to the right until it engages. The arrow on the switch faces the unlocked symbol (⏏). Now pull the battery pack slightly back and lift it off.

To assemble the battery pack, hold the battery pack at a slight downward angle and push it straight onto the processor. When the battery pack rests on the processor, slightly press it down and move the ON/OFF switch to the OFF position (center position). The release lever engages automatically and the battery pack is locked again.



IMPORTANT

The switch must always be in the unlocked position (⏏) when removing/attaching the battery pack. Do not use excessive force. To move the switch to the unlocked position, press down the release lever (1) on the right side. Hold it down while pushing the switch to the right (2).

How to change the magnet

A small magnet is located in the center of the RONDO to hold it in place on the head over the implant package. The magnet can be changed to adjust the magnet strength to your needs.

- Hold down the release lever (1) and push the switch (2) to the unlocked position (⏏). Remove the battery pack to access the magnet insert.
- Grasp the magnet insert at the two serrated spots and turn it counter clockwise until the unlocked symbol (⏏) on the magnet faces the arrow on the housing bottom. The magnet insert disengages and can now be lifted out.
- Take the new magnet insert. Hold it so that the unlocked symbol (⏏) on the magnet faces the arrow on the housing bottom. When positioned correctly, the magnet insert glides in easily.
- Now turn the magnet insert clockwise until the locked symbol (⏏) faces straight down towards the arrow on the housing bottom. The magnet is inserted correctly when the four circles on the magnet are symmetrically aligned with regard to the arrow.



SOFT



STANDARD



STRONG



SUPER STRONG

Four magnet strengths are available. Magnet strength is indicated by the number of white circles on the magnet. The magnet strength chosen should be appropriate for the individual patient, that is strong magnets, are not recommended for patients with thin skin (e.g. young children or very slim patients), as excessive magnetic attraction could potentially increase the likelihood of skin irritation.

IMPORTANT

MED-EL strongly recommends that you do not change the magnet insert yourself, but have your audiologist or clinical staff do it. If you notice any signs of skin irritation around the RONDO, contact your clinic or CI center.

Your RONDO contains a strong magnet. Keep clear of metallic items as they attract the magnet.

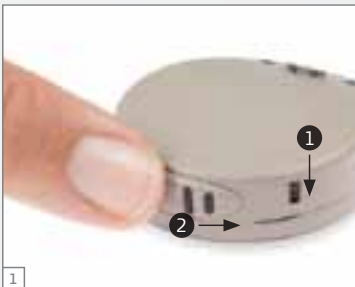
Connecting the Mini Battery Pack

Mini Battery Pack



Connection Cable

RONDO users can connect to devices like FM systems using the Direct Audio Input connectivity of the Mini Battery Pack. Its standard 3-hole pin provides access to a variety of audio cables and other wireless technology.



Hold down the release lever (1) and push the switch (2) to the unlocked position (☐).

Remove the battery pack.



Attach the connection cable by inserting it at an angle, and then locking it into place by pressing the two parts together.



Insert the end of the connection cable into its port on the Mini Battery Pack.

For connecting with audio cables or other Direct Audio Input accessories, see page 11.



The Mini Battery Pack uses either:
(1) a rechargeable PowerPack
(2) a standard or rechargeable AAA battery

Using the FineTuner

The FineTuner remote control is an accessory device that can be used to optimize the audio processor in changing daily listening situations. The RONDO processor has an ON/OFF switch. All other functions are accessed with the FineTuner, which transmits commands to the RONDO processor.

The FineTuner is not required for everyday use of the audio processor. When the RONDO is turned on, it will return to the same program, volume and sensitivity settings that were in use when it was turned off. The FineTuner is configured for its designated RONDO processor, so that only the target RONDO processor can execute a command from the FineTuner. The typical maximum operating distance between the FineTuner and RONDO processor is approximately 80 cm (2.6 ft.). This range could be decreased near electrical equipment.

How to configure the FineTuner

Once synchronized, the RONDO and Fine Tuner stay in synchronization until one of the two pieces of equipment need to be changed. It should only occasionally be necessary to synchronize the FineTuner and audio processor. Examples include use of a back-up audio processor or second FineTuner.

To configure the FineTuner:

1. Turn off your RONDO processor.
2. Place the RONDO processor over the MT key on the FineTuner.
3. Turn on the RONDO processor.
4. The audio processor and the FineTuner will be synchronized automatically.
5. Successful synchronization is indicated by a short blinking signal of the two amber indicator lights on the FineTuner.



The slim FineTuner™ is credit-card sized with a thickness of only 6 mm.

When to configure the FineTuner

For users with a cochlear implant on each ear (bilaterally implanted), one FineTuner can be used for both ears. However, a FineTuner can only be synchronized with one audio processor for each ear.

The FineTuner only needs to be configured:

1. At the initial audio processor fitting.
2. When using a different or additional processor (e.g., back-up, loaner or replacement, bilateral).
3. When using a different FineTuner.



Navigating the FineTuner Keyboard

The FineTuner keyboard has 15 keys.

Any of these keys can be deactivated when the audiologist programs the RONDO processor. When a key has been deactivated, the FineTuner will still send the command, but the RONDO processor will ignore the command.

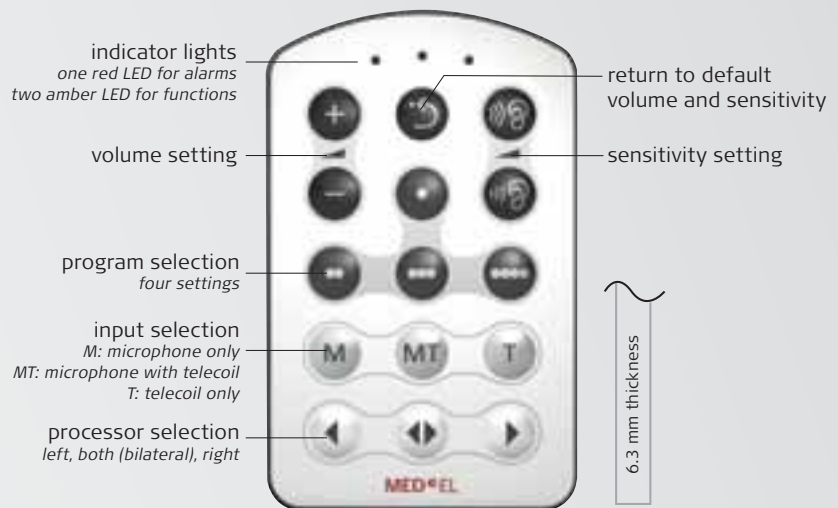
FineTuner Keyboard Lock Feature

The FineTuner keyboard can be locked to avoid accidental operation of a key. If the keyboard lock feature is active, the red LED of the FineTuner will blink once every time a key is pressed. This indicates that the command cannot be sent.

Changes to settings can still be made while the keyboard lock is active. To activate a certain function while the keyboard lock is active, press the desired function key twice. The first click temporarily unlocks the keyboard, and the second click executes the command. After 10 seconds without pressing another key, the keyboard lock is active again.

To disengage the automatic keyboard lock if necessary:

1. Double-click the bilateral key. The first quick click of this key will temporarily unlock the keyboard. The second time you press this button, you should hold it for more than 5 seconds.
2. The red and both amber indicator lights of the FineTuner will both start blinking alternately, indicating that you have successfully entered the FineTuner's program mode.
3. Press the ◀ key to deactivate the keyboard lock feature.
4. The FineTuner will confirm successful deactivation with a short blinking signal of the two amber indicator lights.



Keys on the FineTuner include:

Volume keys: Two keys to increase or decrease overall loudness.

Sensitivity keys: Two keys to increase or decrease the audio sensitivity.

Default key: This key sets volume and audio sensitivity to predefined values determined by the audiologist.

Program Selection keys: Four keys to access up to four different programs.

Input keys: Three keys to select the microphone (M), the telecoil (T) or the microphone and telecoil together (MT) as the signal source.

Processor keys (for bilateral users): The Processor Selection keys allow selecting the left, right or both processors. The keys are also used to activate or deactivate the keyboard lock feature.

Bilateral User Support ◀◀▶▶

One FineTuner remote control can make adjustments to two audio processors!

FineTuner Indicator Light Signals

The FineTuner has 3 indicator lights that can provide useful information about how the FineTuner is operating. Indicator lights are located above the FineTuner keyboard and include a red LED in the center with amber LEDs to the left and right. These LEDs can provide the following information:



FUNCTION	LIGHT PATTERN	MEANING
KEYBOARD LOCKED		If you press a key while the keyboard is locked, the red indicator light comes on. In order to conserve power, the red indicator light will go off after 5 seconds even if the key is still pressed.
TRANSMITTING INFORMATION	Left or right (or both) lights blink according to the side mode of the FineTuner.	Indicator lights will blink when signals are transmitted (the indicator light blinking corresponds to the processor being modified - either right, left or both sides for bilateral users.) To save energy, the FineTuner stops transmitting (and the indicator light stops blinking) after 3 seconds, even if the key is still pressed.
SWITCHING SIDES		To send commands to either the left or right side, press the corresponding button and the amber light will illuminate. To switch both sides at once (for bilateral users) press the button in the center. Both amber lights will illuminate.
PROGRAMMING MODE		Press for more than 5 seconds to enter the programming mode. The three indicator lights will start flashing alternately. When the red indicator light is on, the two amber indicator lights are off and vice versa.
LOW BATTERY		If a low battery status is detected, the red indicator light (center) will blink in a regular pattern - 3 blinks at a time.
CONFIGURATION SUCCESSFUL		If configuration of your FineTuner was successful, or if the automatic keyboard lock feature was successfully activated/deactivated, both amber indicator lights will illuminate for approximately one second

Changing the FineTuner Battery

To conserve power, the FineTuner will only transmit a command for a few seconds. For this reason, you should press the desired key once for every change you wish to make. The FineTuner battery status is checked after each transmission. When the batteries are low, a red indicator light on the FineTuner blinks three times, indicating that the battery should be changed. The FineTuner battery should last for at least several months.

To change the battery:

1. Open the lid on the back of the FineTuner with a small screwdriver.
2. Replace the used button battery (type CR2025) by removing it with the coil magnet or by gently shaking it into your hand. Try not to touch the battery contacts.
3. Insert the new battery with the "+" sign facing up.
4. Close the lid by carefully inserting it on the right side, then sliding it in place and tightening the screw.



Insert the new battery with the "+" sign facing up.

Connect to the World

The RONDO features an integrated state-of-the-art telecoil and a Mini Battery Pack for completely wireless access to a wide variety of telephones, public sound systems, MP3 players and direct-link systems – such as FM and Bluetooth® systems. You can access induction loop technology at the simple touch of a button, and a standard input jack means you can connect the same FM receivers used with many hearing aids.



Using Telecoil

Delivering sound by magnetic induction

A telecoil is a special circuit inside the audio processor designed to pick up electromagnetic signals. These signals – or induction signals – are wirelessly transmitted to the audio processor by using a neckloop or induction loop system.

A **neckloop** is a wire worn comfortably around the neck that transmits signals to the processor.



Simply plug the telecoil accessory (neckloop) into the audio device or ALD receiver and select “T” or “MT” on the FineTuner. Adjust volume as needed.

For **Induction Loop Systems**, simply position yourself within the listening area and select “T” or “MT” on the FineTuner. Adjust volume as needed.

Tip:

Electromagnetic technology is susceptible to **interference**, which can cause some intermittent humming while using a telecoil accessory. Humming usually occurs when the user is positioned near a source of electromagnetic energy (power lines, fluorescent lighting, computers, appliances, electronics, etc.). Simply moving away from the source can remedy interference issues if they occur.



Plug & Play

Using a third-party telecoil accessory:

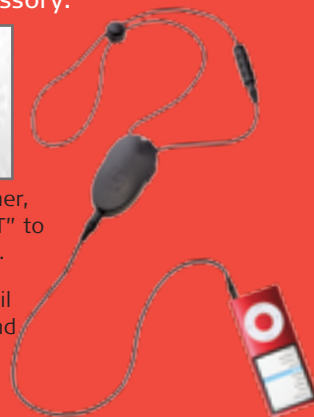


Insert the telecoil device's 3.5 mm plug into the headphone jack of the music device.



On your FineTuner, press “MT” or “T” to activate telecoil.

Place the telecoil accessory around neck (neckloop) or on the ear (earhook).



M

MT

T

M: Microphone T: Telecoil Only

MT: Microphone and Telecoil Together

These keys are independent of all other processor settings and can be used with any program selection (1, 2, 3 or 4), volume, or sensitivity setting.

Direct Audio Input

With the Mini Battery Pack

By connecting to the Mini Battery Pack, RONDO users have multiple connectivity options with its universal 3-pin connector.



FM receivers - Many FM receivers and direct-link devices with the standard 3-pin connector (e.g., Phonak MicroLink MLxS) can be used with the Mini Battery Pack. Turn the audio processor off, insert the receiver, and turn the processor back on. When the FM system is activated, the audio processor will automatically integrate the sound signal.



Audio Cables - Connect the 3-pin connector of the MED-EL Audio Cable (gray end) to the openings at the bottom of the Mini Battery Pack. Mind the orientation of the three pins and do not use excessive force when connecting the cable. Connect the audio plug (yellow or red end) to the audio output (yellow or red end) of the battery-powered device.



Tip:

Direct connections almost always provide a distortion-free, clear listening experience not limited by interference issues that telecoil accessories may sometimes encounter. However, FM systems themselves may be susceptible to interference from the FM signal.

Audio cables running from the processor can be somewhat restrictive since this is not a wireless option. Extensive use of audio cables can also slightly decrease processor battery life.



Plug & Play

Using third-party FM receivers:



Attach the RONDO connection cable and plug into the Mini Battery Pack.



Insert receiver's 3-pin plug into the port of Mini Battery Pack.



Refer to the FM system user manual for options to adjust FM setting if necessary.

Using MED-EL's direct-connect audio cable:



Attach the RONDO connection cable and plug into the Mini Battery Pack.



Insert the audio cable's 3-pin plug into the port of Mini Battery Pack.



Insert the audio cable's 3.5 plug into the headphone jack of the music device.

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