Getting Connected
A How-To Guide
Welcome.

Your OPUS 2 processor helps you to connect to a world of sound.

Did you also know that certain features of your OPUS 2 can be used to further enhance your listening experience?

Whether on the phone, in the classroom, during an important meeting or relaxing while listening to music or enjoying a television show, the OPUS 2 offers connection options to optimize your listening experience.

Let’s get started.
A few simple things to get you connected:

The sleek, simple to use FineTuner™ remote control gives you access to all the settings you need to use your audio processor: volume, sensitivity, programs, and telecoil options.

The FM Battery Pack Cover uses a standard 3-pin port that is compatible with many ear-level wireless receivers and other battery-operated accessories.

MDE-EL's universal audio cables will work with almost any audio device (MP3 players, FM systems, PDAs, phones, etc.).

Audio cables are used with the FM Battery Pack Cover that is easily attached to your audio processor.

NOTE: Not supplied by MED-EL
Using the FineTuner™

Keys on the FineTuner

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

(Note: It does not reset programs)

Volume keys
Two keys to increase or decrease overall loudness. You can increase and decrease volume to the maximum and minimum volume set by your audiologist.

Sensitivity keys
Two keys to increase or decrease the microphone’s sensitivity. Increasing sensitivity brings in more environmental sounds, while decreasing sensitivity focuses more on sounds closest to the user.

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. 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.

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.
Now that you have your equipment, let’s put it to work for you.

The following pages illustrate basic setups and what equipment is needed for each.

**Induction Loop Setup:** This is a large-area telecoil loop system used in large venues and even in the home. Position yourself anywhere within the “looped” listening area and use the built-in telecoil on your audio processor.

**Transmitter/Receiver Setup:** An audio source is transmitted to a receiver via infrared signals, radio frequency, etc. Depending on the system, you will either need to use headphones, a telecoil accessory, an audio cable, or a wireless ear-level receiver.

**Personal Audio Device Setup:** Several options are available to connect devices like an iPod or portable game system. A telecoil accessory or audio cable can be directly connected to the audio device, or a wireless connection can be used with an ear-level receiver.

**Phone Setup:** A telecoil accessory with a built-in microphone works well with most phones. You can also use the built-in telecoil on your processor directly with a telecoil-compatible phone.

**Bluetooth Device Setup:** Some Bluetooth receivers can be connected directly to the audio processor or used with a headset or telecoil accessory.

**Bringing it all together**

The FineTuner Remote Control, Audio Cable(s), and FM Battery Pack Cover are all supplied by MED-EL.

Third-party receiver devices (telecoil neckloop, silhouette, wireless FM receiver, etc.) can be purchased from many audiologists or a variety of online vendors that specialize in assistive listening devices.

**Using an Induction Loop Setup**

*Used in churches, arenas, classrooms, home theaters, etc.*

**TELE-LOOP AMPLIFIER**

(connected to TV, entertainment receiver system, a PA system, etc.)

**USING BUILT-IN TELECOIL**

To activate telecoil, select M1 or T on the FineTuner.

Other settings (volume, etc.) can also be adjusted on the amplifier, the television or FineTuner.

**LOOP WIRE**

(installed around the room – under carpet or on the ceiling, etc.)

A wireless signal sent through the loop wire can be accessed anywhere within its boundaries.
**Connections**

**Transmitter/Receiver Setup Examples**

Used in churches, arenas, classrooms, home theaters, etc.

**Personal Audio Device Setup Examples**

MP3 players, portable game systems, digital eBooks, etc.

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**NOTE:** The transmitter and receiver must be “paired” for correct operation. Consult with the venue (church, theater, etc.) to ensure that the equipment is working properly.

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**Transmitter/Receiver Setup Examples**

**Audio Source**

- **Transmitter**
  - **Connections**
    - **Audio Source**
    - **Transmitter**
    - **Headphone Jack**
      - **RECEIVER**

**Personal Audio Device Setup Examples**

**Connections**

- **PERSONAL AUDIO DEVICE**
  - **Connections**
    - **Audio Source**
    - **PERSONAL AUDIO DEVICE**
    - **Headphone Jack**
      - **RECEIVER**

**Examples**

**Transmitter/Receiver Setup Examples**

**Connections**

- **Audio Source**
  - **Transmitter**
    - **Connections**
      - **Audio Source**
      - **Transmitter**
      - **Headphone Jack**
        - **RECEIVER**

**Personal Audio Device Setup Examples**

**Connections**

- **Personal Audio Device**
  - **Connections**
    - **Audio Source**
    - **Personal Audio Device**
    - **Headphone Jack**
      - **RECEIVER**

**Examples**

**Transmitter/Receiver Setup Examples**

**Using Built-in Telecoil**

- **Connections**
  - **Audio Source**
  - **Transmitter**
  - **Headphone Jack**
    - **RECEIVER**

**Personal Audio Device Setup Examples**

**Using Built-in Telecoil**

- **Connections**
  - **Audio Source**
  - **Personal Audio Device**
  - **Headphone Jack**
    - **RECEIVER**

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**TIP:**

Telecoil is only activated for use with telecoil-enabled neckloops, silhouettes, or in large-area induction loop systems. Use **MT** (microphone/telecoil) or **T** (telecoil only) by selecting the preferred buttons on the FineTuner.

For **ear-level wireless receivers** (as in FM systems), telecoil is NOT used. The receiver will automatically recognize the incoming signal and transfer the sound to your processor(s).

For **direct-connect using the audio cables**, telecoil is NOT used. This is a simple “plug-and-play” setup, and sound is immediately transferred to your processor(s).

Only battery-operated audio devices can be used in a direct connection setup.
Connections

Phone Setup Examples
Using the built-in telecoil feature

OPTION 1:
USING BUILT-IN TELECOIL
(with microphone-equipped Neckloop or Silhouette)
To activate telecoil, select "U" or "T" on the FineTuner.
Other settings (volume, etc.) can also be adjusted using the phone or FineTuner.

OPTION 2:
USING BUILT-IN TELECOIL
(with telecoil-compatible telephone)
To activate telecoil, select "U" or "T" on the FineTuner.
Place phone next to ear.
Other settings (volume, etc.) can also be adjusted using the phone or FineTuner.

Bluetooth Setup Examples
Using with phones or BlueTooth-enabled entertainment devices

NOTE: The phone and Bluetooth device must be “paired” for correct operation. Consult with the user manuals to ensure that the equipment is working properly.

The Federal Communications Commission (FCC) defines hearing aid compatibility for wireless devices. Higher ratings are better.

“M” ratings measure microphone quality and “T” ratings measure telecoil quality.

Cell phones rated both M4 and T4 provide the best compatibility with hearing devices like cochlear implants and hearing aids.

NOTE: The standard headphone jack is 3.5 mm, but some phones will have the smaller 2.5 mm headphone jack.

An inexpensive adapter will be required to use the smaller jack and are available at local electronics stores.

Bluetooth® is a low-power, short range technology that wirelessly connects cell phones (or MP3 devices, PDAs, computers, etc.) to a compatible receiver. Some receivers can be connected directly to the audio processor or are used with a headset or telecoil accessory.
What is a Telecoil?

A telecoil is a special circuit inside the audio processor designed to pick up electromagnetic signals. These magnetic signals – or induction signals – are wirelessly transmitted to the audio processor using either a neckloop, silhouette, or induction loop systems.

A neckloop is a looped wire worn comfortably around the neck and transmits signals to the processor.

A silhouette is an ear-level telecoil device that is placed on the ear next to the audio processor.

An induction loop system is a large-area accessory. A thin wire is placed around the listening area and is connected to a special amplifier where sound signals are circulated through the loop wire.

To activate the audio processor’s telecoil (while using a neckloop, silhouette, or loop system) “T” or “MT” settings are selected to gain direct access to the incoming sound.

What is an Ear-Level Wireless Receiver?

Ear-level receivers (commonly called FM receivers) are devices connected directly to the audio processor(s). They are equipped with a standard 3-pin connector and must be used with the FM Battery Pack Cover. Once the transmitter is activated, the audio processor will automatically receive the sound signal.

What are Audio Cables?

MED-EL provides three audio cables that work with the majority of audio devices (music players, wired FM systems, etc):

**Yellow Mixing Cable:** Allows the user to obtain sound input from both the audio processor’s microphone (environment) and the connected audio device.

**Red Non-mixing Cable:** Provides primary sound input from the connected audio device with minimal input from the audio processor’s microphone (environment).

**Bilateral Cable:** Connects an audio device to both audio processors and offers stereo sound for bilateral users. Bilateral cables are available as mixing (yellow) or non-mixing (red).
For information on connecting your audio processor with a particular assistive listening device, view the online guide at:

www.medel.com/alds