

Hearing-aid Compatible
Wireless Cell Phone Solution...



For product information please go to:
www.ELIhearing.com



Ear Level Instrument
EM - 100



Notice

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device

FCC ID : SE4ELI



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Warranty

90 day limited warranty

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- ELI Module
 - Charge Cradle
 - AC Outlet Adapters
(for USA, EU, UK and Australia)
 - AC/DC Power Converter
 - User's Manual
 - Quick Start Guide
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Specifications

Weight	5.2 grams
Dimensions	27mm x 16mm x 11mm
Talk time	2.5 hours
Standby time.....	140 hours
Recharge time.....	1.5 hours
Right and left ear fitting via rotating Euro-connector	
Bluetooth v1.1, headset and hands-free profile	
Range	33 feet (10m)
Multi-function control – on/off, call answer/end, pairing, call reject	
Battery	rechargeable lithium-ion-polymer

Adapter for non-Bluetooth devices

A Bluetooth Transmitter/Adapter can be used to send the audio output of virtually any piece of sound equipment to the ELI Module using a wireless audio signal. Simply plug the Bluetooth Transmitter/Adapter into the output jack of a television, stereo system, radio, etc., and pair and connect it with the ELI Module.

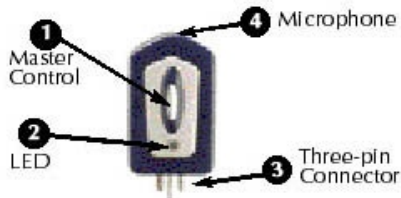
ELI, the Ear-Level Instrument, brings excellent fidelity and hands-free operation of Bluetooth compatible digital cell phones to users of behind-the-ear hearing aids. It also provides a hands-free connection from other Bluetooth audio devices directly to the hearing aid.



The combination of ELI and your modern hearing aid will give you unmatched performance with any Bluetooth compatible digital cell phone.

Any cell phone used with ELI must be Bluetooth compatible or have a Bluetooth adapter. The phone or a adapter must support the Bluetooth standard Headset Profile or Hands-free Profile.

Please read this manual before using your ELI Ear-Level Instrument.



- 1 Master Control
 - a. Turns ELI on and off
 - b. Pairs ELI with cell phone or other devices
 - c. Answers incoming calls
 - d. Rejects incoming calls
 - e. Hangs up completed calls
- 2 LED flashes to indicate status
- 3 Three-pin connector plugs into Europlug Direct Audio Input port on hearing aid.
- 4 Microphone picks up voice of wearer to send to digital cell phone.

Automobile Power Adapter

When traveling, if you do not have access to an AC power outlet to recharge your ELI Module, you can use the Automobile Power Adapter. Any automobile adapter with the following specifications will work:

Input: DC 11-30 V

Output: 5.0 V/700 mA

Plug the Automobile Power Adapter into the socket in your car and insert the other end into the ELI Charge Cradle.

3. Switch your hearing aid to the telecoil, or T, setting, and you will hear the signal from the cell phone.
4. Placing calls and adjusting volume are accomplished exactly the same as with the ELI Module attached to a DAI boot.
5. When receiving calls via the Adapted Neck Loop, you will not hear the cell phone ring through your hearing aid. When you hear the ring from the cell phone itself, switch the hearing aid into telecoil mode and press the Master Control on the ELI Module to answer and hear the call through your hearing aid.



Before using the ELI Module, you must charge its battery. Connect the Charge Cradle to a wall socket using the appropriate AC Adapter and the AC/DC Power Converter. Insert the ELI Module into the cradle. A red LED on the Charge Cradle will light up while the module is charging, and a green LED will light up when it is fully charged.

Fully charging the ELI Module takes about 1.5 hours.

More information about recharging is found on page 19.



The ELI Module attaches to the Europlug standard Direct Audio Input (DAI) boot of any DAI-equipped behind-the-ear (BTE) hearing aid. After ELI is paired, connected and activated with your Bluetooth-compatible digital cell phone, it picks up the wireless Bluetooth signal from the phone and sends it to your hearing aid. The hearing aid then amplifies and processes the signal in the same way it processes other signals.

1. Connect a Europlug standard Direct Audio Input boot to your hearing aid. (The boot is not part of the ELI package.)

Adapted Neck Loop EM-101

Some hearing aids are equipped with telecoils for use with telephones but do not connect with a DAI boot. This includes many custom In-the-ear hearing aids. The Adapted Neck Loop EM-101 allows users of these hearing aids to benefit from wireless cell phone technology using ELI.

1. To use the Adapted Neck Loop, simply attach the ELI Module to the mounting platform of the neck loop using its three-pin connector.
2. The wireless Bluetooth signal received by the ELI Module is now sent as an electrical signal, which in turn is converted into an electromagnetic signal by the neck loop.

Recharging the battery

To recharge the ELI Module, connect the Charge Cradle to a wall socket using the appropriate AC Adapter and AC/DC Power Converter. Insert the ELI Module into the cradle. A red LED on the Charge Cradle will light up while the module is charging, and a green LED will light up when it is fully charged.

Fully charging the ELI Module takes about 1.5 hours.

The battery of the ELI Module is custom made and not available in stores.



2. Insert the three-pin connector of the ELI Module into the socket on the DAI boot. Be sure that the pins align properly, with the large pin in the large hole. **Do not force the pins into the socket.**
3. Rotate the ELI Module, if necessary, so that the Master Control is facing outward. The connector rotates 270 degrees to fit to either a right or left hearing aid; do not force it to turn beyond its stops.

In addition to the DAI boot, the ELI Module can be attached to an optional Adapted Neck Loop (EM-1 01) for use with hearing aids equipped with telecoils. Please see Accessories on page 20.



The battery powering the ELI Module is a custom-made, rechargeable, lithium-ion polymer battery. When fully charged, it provides the ELI Module an active talk time of 2.5 hours and a standby life of 140 hours.

Low-battery warning

When the battery of the ELI Module is nearing the end of its charge, it will emit a pair of tones every minute. This tone pair will continue until the battery loses its charge or is recharged. Do not confuse this low-battery signal with indicator tones produced by some hearing aids.

Adjusting volume

1. Set the preferred volume of calls by adjusting the volume control on the cell phone.
2. While it is feasible to adjust volume using your hearing aid, doing so will probably require that you re-adjust it again after completing the phone call.
3. A small screwdriver slot on the Direct Audio Input (DAI) boot allows adjustment of the overall level of the signal being sent through the ELI Module to the hearing aid. It is advisable to have a hearing aid professional adjust that control for you, as it will also affect the volume from other devices that you might attach to the DAI boot.

Before using the ELI Module with your Bluetooth compatible cell phone, the two devices must be *paired*. Pairing means that they share a digital communication that lets them recognize one another as compatible devices and connect over their wireless link.

1. Make sure the ELI Module is turned off. When you press the Master Control for 3 seconds, the module turns off, as indicated by the LED emitting 5 red flashes.
2. Press and hold the Master Control for 7 seconds, until the alternating red and green LEDs flash rapidly.
3. The ELI Module is now in pairing mode and can be detected by a

Bluetooth equipped cell phone. It will remain in pairing mode for one minute, while you set up the pairing operations in your cell phone. If you take longer than a minute to set up the phone, you will need to put the ELI Module back into pairing mode (steps 1 and 2).

4. Follow the directions for your digital cell phone to complete the pairing process and add ELI to your cell phone list. **The phone must be Bluetooth compatible to connect with the ELI Module.**
5. Enter **Pass Key 0000** when prompted on the screen of the digital cell phone.

Hanging up a call

1. To hang up a call, press the Master Control on the ELI Module briefly but firmly. Alternatively, you can hang up using the End Call button on the cell phone.
2. If the person on the other end of the line hangs up first, you don't need to do anything; ELI will hang up automatically and return your hearing aid to microphone mode until it is needed again.

Answering a call

1. When a call comes in on your cell phone, and the Bluetooth feature of the phone is turned on, you will hear a musical ring through your hearing aid from the ELI Module.
2. To answer a call, press the Master Control on the ELI module briefly but firmly.
3. To reject a call, press the Master Control firmly but for a longer time (only for phones with the Hands-Free Bluetooth profile).
4. On some cell phones, when a call comes in, and you answer by pressing the answer button on your cell phone, the call will come over the receiver of the cell phone, instead of being sent to the ELI Module.

ELI can be paired with other Bluetooth devices to pick up their audio output and deliver it to the wearer's hearing aid. Bluetooth wireless communication is available in some computers, personal digital assistants and televisions. Also, Bluetooth adapters are available to attach to the sound output jack of other equipment to send a wireless audio signal to the ELI Module.

1. Make sure the ELI Module is turned off. When you press the Master Control for 3 seconds, the module turns off, as indicated by the LED emitting 5 red flashes.
2. Press and hold the Master Control for 7 seconds, until the LED emits rapidly alternating red and green flashes.

The ELI Module is now in pairing mode and can be detected by a Bluetooth device.

3. Follow directions for the transmitting Bluetooth device so that it recognizes the ELI Module.
4. Enter **Pass Key 0000** when prompted by the other Bluetooth device.
5. When pairing to some computers, you must press on the ELI Master Control briefly to tell the ELI Module to accept the pairing. Follow pairing directions for the computer.

Placing a call

1. To place a call use the keypad of your cell phone as you would for any other call.
2. Be sure the cell phone is set up with Bluetooth turned on (see your cell phone manual) and that the ELI Module is turned on, paired and connected with the cell phone.
3. When you press the Talk button on the cell phone, you will hear the call coming through your hearing aid via the ELI Module.
4. Note that when a call is coming in on the ELI Module, the microphone input to the hearing aid is deactivated; it will turn back on automatically when the call is finished.