



with  **Bluetooth** wireless technology



ELI EM-100 Ear Level Instrument

***Hearing Instrument Compatible
Wireless Mobile Phone Solution***

User Manual



ELI

with  Bluetooth[®] wireless technology

Introduction	2
Contents of the ELI package	3
Main features	4
Operation	
<i>Charging the battery.</i>	5
<i>Attaching the ELI Module to your hearing instrument</i>	6-7
<i>Mobile phone positioning</i>	8
<i>Turning ELI Module on and off</i>	9
<i>Pairing and connecting to the mobile phone.</i>	10-11
<i>Placing a call</i>	12
<i>Answering a call</i>	13
<i>Hanging up a call</i>	14
<i>Adjusting volume.</i>	15
<i>Additional protection.</i>	16
ELI battery	17-19
Optional accessories	20-23
Specifications	24

ELI™ (Ear-Level Instrument) brings excellent fidelity and hands-free operation of Bluetooth®-compatible, digital mobile phones to users of behind-the-ear hearing instruments.

The combination of ELI and your modern hearing instrument will give you unmatched performance with any Bluetooth-compatible, digital mobile phone.

Any mobile phone used with ELI must be Bluetooth-compatible or have a Bluetooth adapter. The phone or adapter must support the Bluetooth-standard headset profile or hands-free profile.

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

Contents of ELI package

- ELI Module
- Charge Cradle
- AC Outlet Adapters for *USA, EU, UK and Australia*
- AC/DC Power Converter
- User's Manual



Actual Size

Main features



4

Microphone

1

Master Control

2

LED

3

Three-pin
Connector

1. Master Control

- Turns ELI on and off
- Pairs ELI with mobile phone or other devices
- Answers incoming calls
- Hangs up completed calls
- Rejects calls

2. **LED** flashes to indicate status.

3. **Three-pin connector** plugs into Europlug Direct Audio Input (DAI) port on hearing instrument or Adapted Neck Loop.

4. **Microphone** picks up voice of wearer to send to digital mobile phone.

Operation

Charging the battery

Before using the ELI Module, you must charge its battery. 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.

More information about recharging is found on page 18.



Operation

Attaching ELI to hearing instrument

The ELI Module attaches to the Europlug standard Direct Audio Input (DAI) boot of any DAI-equipped behind-the-ear (BTE) hearing instrument.

1. Connect a Europlug standard DAI boot to your hearing instrument (the boot is not part of the ELI package and can be obtained from your hearing professional).
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. If necessary, rotate the ELI Module so that the Master Control is facing outward. The connector rotates 270 degrees to fit to either a right or left hearing instrument. Do not force it to turn beyond its stops.

[DAI Boot] —



Operation

Mobile phone positioning

For optimal performance, mobile phones should be carried on the same side of your body as the ELI Module.



Operation

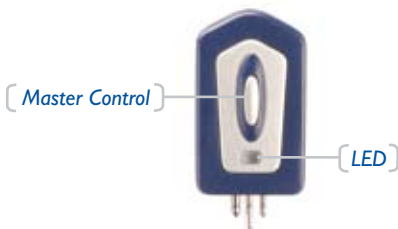
Turning the ELI module on & off

To turn on

Press and hold the Master Control for 3 seconds; the LED will flash green three times.

To turn off

Press and hold the Master Control for 3 seconds; the LED will flash red three times.



Actual Size

Operation

Pairing & connecting to the mobile phone

Before using the ELI Module with your Bluetooth-compatible mobile phone, the two devices must be paired and connected. **Pairing** means that they share a digital communication link that lets them recognize one another as compatible devices. **Connecting** means that the devices are actually communicating, as if there is an invisible cable connecting them.

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 3 red flashes.
2. Press and hold the Master Control for 7 seconds, until the module turns on (three green flashes) and then alternating red and green LEDs flash rapidly.
3. The ELI Module will remain in pairing mode for one minute, while you set up the pairing operations in your mobile 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 mobile phone to complete the pairing process and add ELI to your mobile 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 mobile phone.
6. To connect the ELI Module to the mobile phone, follow the directions for your mobile phone. These directions vary from one phone to another.
7. Pairing of the ELI Module and mobile phone must be done only once. However, you must re-establish the connection between them each time you turn on the mobile phone or ELI, or when the two devices are separated by more than their 10-meter range and are then brought back into range.
8. To re-establish the connection:
 - a. Turn the ELI Module on by pressing the Master Control for 3 seconds.
 - b. Turn on Bluetooth in your mobile phone and connect to the ELI Module, using the directions for the mobile phone.

Operation with mobile phone

Placing a call

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

1. When a call comes in on your mobile phone, and the Bluetooth feature of the phone is turned on, you will hear a ring through your hearing instrument 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 mobile phones, if you answer an incoming call by pressing the answer button on your phone, the call will come over the receiver of the phone, instead of being sent to the ELI Module.

Operation with mobile 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 mobile 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 instrument to microphone mode. Depending on the mobile phone, this process may take several seconds.

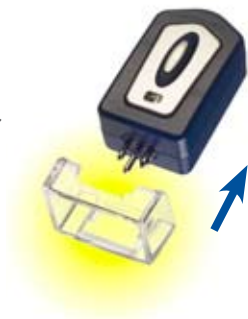
1. Set the preferred volume of calls by adjusting the volume control on the mobile phone. The signal from some mobile phones may sound distorted if the volume is turned up too high.
2. While it is feasible to adjust volume using your hearing instrument, doing so will probably require that you re-adjust it again after completing the phone call.
3. A small screwdriver slot on some DAI boots allows adjustment of the overall level of the signal being sent to the hearing instrument. It is advisable to have a hearing instrument professional adjust that control for you, as it will also affect the volume from other devices that you might attach to the DAI boot.

Additional protection

A clear, protective sleeve has been included to provide additional protection for your ELI. Use of this sleeve is recommended when using ELI on your BTE hearing instrument in the presence of high humidity and perspiration.

The sleeve reduces the potential for corrosion, which can interfere with battery charging. Under certain conditions, ELI's contacts can generate heat. This sleeve protects ELI as well as your skin.

To use the sleeve, simply snap it on ELI from the 3-pin connector end. Use of the sleeve will not alter ELI's reception or operation. Remove the sleeve when recharging the battery.



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 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 instruments.



ELI battery

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.





[LED]

The following optional accessories for ELI are available from your hearing instrument professional.

ELI Neck Loop EM-101

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

1. To use the ELI 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.
3. Switch your hearing instrument to the telecoil, or T setting, and you will hear the signal from the mobile phone.

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



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 11-30V*

Output: *5.0V/700 mA*

Plug the automobile power adapter into the socket in your car and insert the other end into the ELI charge cradle.

Transmitter/Adapter for non-Bluetooth mobile phones

A Bluetooth transmitter/adapter can be used to transmit the audio output of mobile phones that are not Bluetooth-enabled to the ELI Module. Plug the Bluetooth transmitter/adapter into the output jack of a non-Bluetooth mobile phone, and pair and connect it with the ELI Module according to the instructions provided with the transmitter/adapter.

If a non-Bluetooth digital mobile phone is used with the ELI Module via a Bluetooth transmitter/adapter, some of ELI's functions may be modified.

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-ear and left-ear fitting via rotating Euro-connector

Bluetooth v1.1, standard headset and hands-free profiles

Digital Audio Signal Processing

Range 33 feet (10m)

Master Control/on/off, call answer/end, call reject,
pairing, connecting

Battery rechargeable
lithium-ion polymer



For current product and
warranty information, please visit:

www.elihearing.com



The ELI EM-100 product is in compliance with the essential requirements and other relevant provisions of Directives 1999/5/EC and 93/42/EEC.

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