

ELITM DirX

with  Bluetooth wireless technology



*ELI DirX ED-100
Ear Level Instrument*

**Hearing Instrument
Compatible Wireless
Mobile Phone Solution**

User Manual



ELI DIRX™

with  **Bluetooth** wireless technology

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Introduction

ELI DirX™ (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 ELI DirX module has a directional microphone to help reduce background noise when the wearer's voice is using the mobile phone in a noisy place.

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

Any mobile phone used with ELI DirX 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 DirX Ear-Level Instrument.

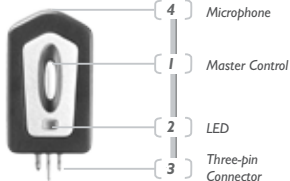
Content of *ELI DirX Package*

- ELI DirX Module
- Charge Cradle
- AC Outlet Adapters for *USA, EU, UK and Australia*
- AC/DC Power Converter
- User's Manual
- Quick Start Guide
- Clear Protective Sleeve



Actual Size

Main features



1. Master Control

- Turns ELI DirX on and off
- Pairs ELI DirX 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) boot 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 DirX 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 DirX 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 DirX Module takes about 1.5 hours.

More information about recharging is found on page 18.




Operation

Attaching ELI DirX to hearing instrument

The ELI DirX 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 DirX package and can be obtained from your hearing professional).
2. Insert the three-pin connector of the ELI DirX 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 DirX 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]

The diagram shows a prosthetic foot assembly. It consists of a black rectangular base with a white oval cutout in the center. A tan-colored, curved prosthetic foot is mounted on top of this base. The foot has a silver-colored toe and several small circular features on its side. A white curved arrow at the bottom indicates the direction of rotation for the assembly. In the background, a larger, semi-transparent version of the same assembly is visible, showing its integration into a prosthetic leg.

Operation
Mobile phone positioning

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



Operation

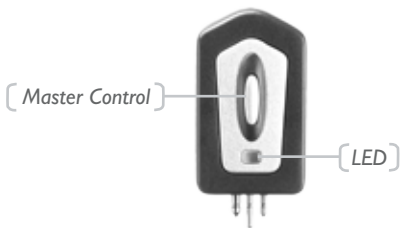
Turning the ELI DirX module on & off

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 DirX 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 DirX 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 DirX 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 DirX 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 DirX to your mobile phone list. ***The phone must be Bluetooth compatible to connect with the ELI DirX Module.***
5. Enter ***Pass Key 0000*** when prompted on the screen of the digital mobile phone.
6. To connect the ELI DirX 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 DirX 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 DirX, 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 DirX Module on by pressing the Master Control for 3 seconds.
 - b. Turn on Bluetooth in your mobile phone and connect to the ELI DirX 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 DirX 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 DirX Module.
4. Note that when a call is in progress on the ELI DirX Module, the microphone input to the hearing instrument is deactivated; it will turn back on automatically when the call is finished.

Operation with mobile phone *Answering a call*

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 DirX Module.
2. To answer a call, press the Master Control on the ELI DirX 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 DirX Module.

Operation with mobile phone

Hang up a call

1. To hang up a call, press the Master Control on the ELI DirX 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 DirX will hang up automatically and return your hearing instrument to microphone mode. Depending on the mobile phone, this process may take several seconds.

Operation with mobile phone

Adjusting volume

- 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 DirX. Use of this sleeve is recommended when using ELI DirX 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 DirX's contacts can generate heat. This sleeve protects ELI DirX as well as your skin.

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



The battery powering the ELI DirX Module is a custom-made, rechargeable, lithium-ion polymer battery. When fully charged, it provides the ELI DirX 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 DirX battery

Recharging the battery

To recharge the ELI DirX Module, connect the charge cradle to a wall socket using the appropriate AC adapter and AC/DC power converter. Insert the ELI DirX 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 DirX Module takes about 1.5 hours.

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





[LED]

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

ELI DirX Neck Loop ED-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 DirX Neck Loop ED-101 allows users of these hearing instruments to benefit from wireless mobile phone technology using ELI DirX.

1. To use the ELI DirX Neck Loop, simply attach the ELI DirX Module to the mounting platform of the neck loop using its three-pin connector.
2. The wireless Bluetooth signal received by the ELI DirX 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 DirX Module attached to a DAI boot.
5. When receiving calls via the ELI DirX 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 DirX Module to answer and hear the call through your hearing instrument.



Optional accessories (continued)

Automobile Power Adapter

When traveling, if you do not have access to an AC power outlet to recharge your ELI DirX 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 DirX 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 DirX Module. Plug the Bluetooth transmitter/adapter into the output jack of a non-Bluetooth mobile phone, and pair and connect it with the ELI DirX Module according to the instructions provided with the transmitter/adapter.

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

Specifications

Weight	<i>5.2 grams</i>
Dimensions	<i>27mm x 16mm x 11mm</i>
Talk time	<i>2.5 hours</i>
Standby time	<i>140 hours</i>
Recharge time	<i>1.5 hours</i>
Right-ear and left-ear fitting via rotating Euro-connector	
Bluetooth v1.1, standard headset and hands-free profiles	
Digital Audio Signal Processing	
Range	<i>33 feet (10m)</i>
Master Control/on/off, call answer/end, call reject, pairing, connecting	
Battery	<i>rechargeable lithium-ion polymer</i>



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

For current product and
warranty information, please visit:

www.elihearing.com



The ELI DirX ED-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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