Earlite™ 1100
User's Guide

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Notices

This User's Guide is published without warranty as to the Guide, and it provides no warranty in the referenced product except as provided in the End User Limited Product Warranty. Improvements and modifications to this manual, including those necessitated by typographical errors, inaccuracies or improvements to equipment may be made at any time and without 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.

Changes or modifications to your device not expressly approved by STEP Communications Corp. can void the user's authority to operate the equipment.

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Earlite 1100 is a trademark of STEP Communications Corporation

Guidelines for Safe and Efficient Use

- *Clean your earpiece with a lightly dampened soft cloth only. Solvents or other chemicals may damage your earpiece and void your warranty*
- *Keep your earpiece away from extreme temperatures, water, exceptionally high humidity environments, dusty environments, open flame or fire.*
- *Do not drop your earpiece or expose it to severe physical shock or vibration*
- *Do not dismantle or attempt to repair your earpiece. If your earpiece fails, return your earpiece to your place of purchase for repair or service*
- *Do not attempt to 'pair' your earpiece to your phone while driving*
- *Always use caution when using a cell phone while driving*
- *Keep your earpiece away from small children as your earpiece contains small parts that may become detached from the unit and create a choking hazard*

What is Bluetooth Wireless Technology?

Bluetooth™ *wireless technology makes it possible to connect compatible communication, computing and other consumer electronic devices without using cables. The technology is based on a radio link that offers fast and reliable transmission of voice and data information. It does not require a line-of-sight connection in order to establish communication. Bluetooth wireless technology uses a globally available frequency range intended to ensure communication compatibility with a wide variety of devices worldwide.*

How Can I Use My Earpiece?

You can connect your Earlite 1100™ earpiece to your mobile phone or PC – or any device with Bluetooth™ wireless technology that supports the Bluetooth headset profile version 1.1 – to keep your hands free for more important tasks when you are at the office or in your car. This User's Guide focuses on how to use the earpiece with your Bluetooth compatible mobile phone. When the earpiece is connected to your mobile phone, you can use voice control to make calls (if your phone supports this function). The phone can be tucked away in your pocket or in a bag. You can handle incoming and outgoing calls, and adjust the volume using the single 'rocker switch' on your Earlite 1100 earpiece. Simply rotate the rocker switch forward two times to increase the volume or back two times to decrease the volume for each incremental level.

Contents

Overview

Your Earlite 1100™ wireless Bluetooth™ earpiece is designed to provide you the greatest degree of freedom and comfort available in wireless communication. Any device that you want to use with your Earlite 1100 earpiece has to be compatible with Bluetooth wireless technology and support the headset profile version 1.1. To be able to use the Earlite 1100 earpiece together with a mobile phone, you need to have a phone with built-in Bluetooth capability or a phone with an optional STEP 2000 wireless Bluetooth adapter connected to it.

The Earlite 1100 can also be used with Bluetooth compatible PDAs, PCs and other consumer electronic devices that support the Bluetooth Headset Profile version 1.1 or are compatible with STEP's optional Bluetooth adaptor.

Getting Started

Before you use the Earlite 1100™ earpiece with a phone or other devise for the first time, you should do the following:

- *Charge the earpiece.*
- *Decide on which ear you want to wear the earpiece (it can be worn on your right or left ear)*
- *Pair the earpiece with a device, for example, a mobile phone, PDA or desktop computer.*

These processes are described in detail in the pages that follow.

Please register your unit at www.stepcommunications.com/register for warranty purposes. Remember to always store and charge your earpiece in a safe place when it is not being worn.

Features & Controls

Earlite 1100 Bluetooth Wireless Earset

Multi-function Control
for power on/off,
volume adjustment,
pairing set-up,
call answer,
call end and
mute.

Multi-function
LED indicator

Uni-directional
mic to reduce
wind noise &
background
sounds

STEP
COMMUNICATIONS

Antenna
for 10+ meter
(30 feet) reception

Rotating
ear bud for
use on right
or left ear

Rechargable
Lithium-Polymer
Battery

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Using the Multi-function Control

The multi-function control on the Earlite 1100™ is used to perform a variety of functions, including turning the earpiece on, turning the earpiece off, adjusting the volume, performing basic call functions and pairing your earpiece to your phone or Bluetooth device.   The control can be rotated forward, rotated backwards or depressed as shown below

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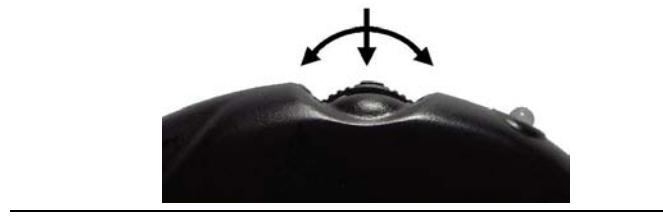
Section 1:

Charging Your Earpiece

The earpiece comes with a built-in rechargeable Lithium-Polymer battery that will provide you with approximately 4 hours of talk time or 110 hours of standby time.

- *Be sure to charge the earpiece for a minimum of 4 hours before using the unit for the first time.*

- *Be sure to use only the charging adaptor supplied with your earpiece or the optional Earlite USB charging adaptor. The use of other adaptors may damage your unit and will void the warranty*

- *While charging your earpiece for the first time, the LED indicator will glow a constant red.*

- *Other information provided by the LED indicator is described in the following chart.*

Charging & LED Status Matrix

Your Earlite 1100™ will be fully recharged after approximately 4 hours of charging, and approximately 80% of a full charge after only 2 hours of charging. The table below explains the various modes of the LED indicator during charging.

LED color	*Battery or Charging Status*
Constant Red	*Battery charging while earpiece is off.*
Flashing Green	*Battery charging while earpiece is on.*
Solid Green	*When the earpiece is turned off and the earpiece is fully charged, the LED will glow green.*
1 Orange flash	*Low battery power (the LED will flash 1 orange flash to every 9 green flashes)*

Connecting Your Earpiece to the Charger

Your Earlite 1100™ is shipped with an auto-switching power supply able to be used with voltages between 100V-240V AC. The plug configuration of the power supply is appropriate to the country in which your earpiece was purchased. If you travel to foreign countries and wish to charge your earpiece during your travels, you will need to purchase the appropriate adaptor for use in the country you are visiting.

Your charger is also supplied with a charger adaptor cable approximately 23 CM (9 inches) long. This adaptor cable is used to connect your earpiece to your charger or to the optional USB adaptor.

To charge your earpiece, connect the adaptor cable to the charger and then to the earpiece as shown.

- *Note: the charging adaptor is 'keyed' to fit only one way into your earpiece. Do not force the adaptor cable into the connecting port of the earpiece as this may damage your earpiece and void your warranty.*


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Section 2:
Adjusting Your Earpiece for
Maximum Comfort

Everyone's ear is shaped slightly different and unique to their physical characteristics. The neck and ear bud of your Earlite 1100™ can be adjusted to your ear for maximum comfort and sound clarity. To assure that the sound is delivered directly into your ear canal, you may wish to rotate the ear bud slightly up or down to position the opening so that it points towards the opening of your ear canal. You can also adjust the fit of your earpiece by gently forming or bending the neck of the unit so that it is placed deeper into your ear. Remember though, that the Earlite 1100 was designed to deliver clear sound without blocking your ear, and thereby removing surrounding natural sounds. This allows you to carry on conversations both on the phone and in person.

Preparing to Wear Your Earpiece

Your Earlite 1100™ can be worn on either your right or left ear. The unit is set up at the factory for use on your right ear. If you wish to wear the earpiece on your left ear, change the orientation of the ear bud as follows:

*Gently grasp the earpiece as shown and **with your other hand** rotate the ear bud clockwise or counter-clockwise approximately 180° to the other side, orienting the ear bud for the preferred ear.*
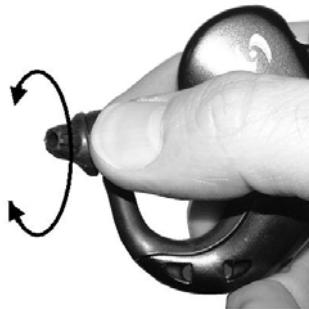
Forming the Neck of Your Earpiece

The neck of your Earlite 1100™ can be positioned or bent to conform to the shape of your ear to provide maximum comfort and sound delivery.

Hold the earpiece as shown and gently bend the neck to place the ear bud in a comfortable depth to your ear.

Putting on the Earpiece

When putting on the earpiece, first place the ear bud at the entrance of your ear, with the 'body' of the earpiece slightly above your ear.

Gently place the body of the earpiece behind your ear using a slight rotational motion as shown in the diagram.

Section 3
Pairing the Earpiece to Your Phone

Before you start using the earpiece for the first time, you must pair the earpiece with the device you want to use it with, such as a mobile phone.

1. *Activate the Bluetooth*™ *pairing function on your phone or other device. Please refer to the owner's manual of your phone or other device for detailed instructions on how to access and activate the Bluetooth pairing or set-up procedure.*

2. **<u>With the earpiece turned off,</u>** *press and hold down the multi-function control for approx. 5 seconds until the LED indicator light on the earpiece flashes an alternating green and red. Make sure the earpiece and the phone are within close proximity to each other.*

3. *Follow the Bluetooth™ pairing or set-up instructions and screen prompts on your phone or other device to pair it with the earpiece.*
4. *When prompted, enter the earpiece passkey of 0000.*
5. *If the pairing is successful, your earpiece indicator light will flash green.*

If your phone or device does not find the earpiece, turn off the earpiece by pressing down the multi-function control for approximately 5 seconds, reset your phone or device to the beginning of the Bluetooth pairing process and repeat steps 1-5. Once pairing is completed, your earpiece will work with your cell phone anytime the two units are powered on and in working proximity to each other.

Resetting the Earpiece

When pairing the earpiece to a new Bluetooth™ device, you may want to reset the Earpiece to its default settings. This clears all current pairings.

To reset the Earpiece:
1. *With the Earpiece turned off, depress and hold down the Multi-function control for 12 seconds. The LED will flash green for approximately 2-3 seconds, then red and green for approximately 7-8 seconds, then orange. Release the button.*

2. *The earpiece will power off automatically after a few seconds. The Earpiece has now been reset.*

Section 4: General Operation

Multi-function
Controller

To turn the Earpiece on:

* *Press and hold down the multi-function control for approximately 2 seconds or until you hear two short tones (a low tone followed by a high tone)*

To turn the Earpiece off:

* *Press and hold down the multi-function control for approximately 4 seconds or until you hear two short tones (a high tone followed by a low tone)*

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Adjusting the Volume

Multi-function
Controller

- *You can adjust the earpiece listening volume during a call by rocking the multi-function controller wheel forward twice for each volume level increase you desire.*

- *To decrease the volume, rock the multi-function controller wheel backwards twice for each volume level decrease you desire. There are eight separate (8) volume levels.*

- *Note: be sure to merely rotate the multi-function controller wheel forward or backward during adjustments. Do not press down, as you will end your call.*

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EARLITE 1100 ™

Making and Receiving Calls

Once you have paired the Earlite 1100™ with your phone, you can make and receive calls using the earpiece as long as it is turned on and within range of the phone (up to 10m./30 ft).

Note: The Multi-function LED indicator flashes green more rapidly during a call or active transmission of information (e.g. dialing) to indicate it is communicating with your phone.

For phones without voice-dialing capability, once your earpiece is paired to your phone, dial the number as you normally would using the keypad on your phone and use the earpiece to converse with your party. For voice-dialing, please refer to the section that follows.

When using the earpiece to receive a call, press down the multi-function control briefly once to answer a call. To end a call, press down the multi-function control briefly a second time.

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Voice Dialing

If your phone is equipped with a voice-dialing mode, you can place calls with your voice commands. To make a call using voice dialing

1. *Make sure the phone and the earpiece are on and within range of each other. Press down the multi-function control once.*

2. *After the beep, voice dial as you normally would.*

3. *End the call by pressing down the multi-function control on your earpiece. You can also end a call by pressing the END or NO key on the phone.*

Please refer to your phone's user manual or documentation for more information on voice dialing and control.

Answering Calls

To answer a call using the earpiece

1. *When the phone rings or when you hear your phone ring through the earpiece, briefly press down the multi-function control once.*
2. *End the call by pressing down the multi-function control on your earpiece, or the END or NO key on the phone.*

Answering a second call (if your phone supports multiple incoming calls)

- *You must use the phone keypad to answer and handle a second call, but you can still use the earpiece for talking and listening. You cannot use the multi-function control to answer the second call. Refer to your phone's user manual or documentation for details on how to handle more than one call simultaneously.*

Muting a Call

*If you need to 'mute' a call during your conversation, <u>**rotate and bold**</u> the multi-function control forward or backward for approximately 5 seconds (be sure <u>**not**</u> to press down on the multi-function control as this will end your call). You will hear two short tones (a high tone followed by a low tone) and the Multi-function LED indicator will flash red while a call is muted. Once your call is muted, you may release the multi-function control.*

You will be able to hear the party you were speaking with on your earpiece, but they will not be able to hear you. To continue your conversation, simply rotate the multi-function control forward or backwards. No tone signal will be heard to indicate the normal talk function has resumed, however, your party will be able to hear you again and you can resume your conversation.

Transferring Communication & Sound from your Phone to the earpiece

If you initiate a call without using the earpiece, you can transfer the call to the earpiece if the earpiece is on, paired with the phone and within range.

To transfer sound to the earpiece, press down the multi-function control briefly (or about 1/2 second) to transfer the sound to the earpiece. You can now use the earpiece as if you originated the call with the earpiece.

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Quick Reference Guide

To turn the unit on: depress & hold down the multi-function control for 2 seconds or until the LED flashes green
To initiate the pairing process: the unit must first be turned off. Next, depress & hold down the multi-function control for 5 seconds or until the LED flashes green and red
To answer a call or **transfer call from phone to earpiece:** briefly press the multi-function control down once.
To end a call: briefly press the multi-function control down once or terminate the call from your cellular phone
To mute a call: rotate & hold the multi-function control forward for 5 seconds. Rotate the control again to unmute.
To adjust volume: when wearing the unit, to increase the volume, rotate the multi-function control forward two times for each incremental level. To decrease the volume, rotate the multi-function control backwards two times for each incremental level
To turn the unit off: depress & hold down the multi-function control for 4 seconds or until the LED stops flashing.

Troubleshooting

As new phones and Bluetooth™ devices are being released at an increasing rate, there may be updated pairing and operational instructions available on-line for your particular device.   For additional instructions and instructions for new devices, please visit www.stepcommunications.com/userguide/update

To view an interactive list of FAQs (Frequently Asked Questions) and suggestions for troubleshooting, please visit www.stepcommunications.com/faq

If you still have troubles with your device, you can contact STEP directly at support@stepcommunications.com

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EARLITE 1100™

Technical Specifications

Earpiece & Horn

Frequency Response	300 to 3400 Hz
Distortion (THD %)	2% (typical)

Microphone

Frequency Response	300 to 3400 Hz
S/N Ratio	36 dB @ 1 KHz
Wireless Link Type	Bluetooth Radio Module (Profile v1.1)
Frequency	2.4 GHz - ISM Band (2400-2483.5 MHz)
Useful Range	10 meters from device
Compliance	UL, FCC Part 15, EN 300 328-2, CE, ETS300-328, IC RSS-210, Bluetooth™
Operating Temperature:	0C to +40C
Weight	Earpiece: ~22 grams / Charger: ~65 grams
Size	Earpiece: 72 mm L x 63 mm H x 13 mm T
Average Talk Time	~4 hours
Average Standby Time	~110 hours
Battery Type	Lithium-Polymer
Battery Charger	US charger: 100 to 240V$_{AC\ input}$ 4.5 – 9.5V$_{output}$, min. 450mA $_{output}$
Charge Time	2 hours to 80%, 4 hours to 100%

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End User Limited Product Warranty

STEP Communications warrants this product to be free from defects in manufacturing for 1 year from the date of original retail purchase when used in strict accordance with the guidelines set forth in the User Manual. This warranty extends only to the original retail purchaser, and does not apply if the product has been damaged or fails to function properly as a result of misuse, abuse, alteration, unauthorized service or parts, improper cleaning or maintenance, or failure to follow the installation, operation or maintenance instructions. ANY IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE TERM OF THIS WARRANTY. STEP's sole obligation under this warranty or any implied warranty, and the purchaser's sole remedy, is limited to the repair or replacement, at STEP's option, of the product or any defective part. IN NO EVENT SHALL STEP, ITS AFFILIATES, SUPPLIERS, SUBSIDIARIES, RELATED ENTITIES OR THEIR RESPECTIVE OFFICERS, DIRECTORS, OR EMPLOYEES, BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY, OR SPECIAL DAMAGES.

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