

ETYMOTIC RESEARCH INC.

# ety8 earphones™

Bluetooth™ High-fidelity Noise-Isolating Earphones

## User Guide

### TABLE OF CONTENTS

What's included .....	
Identification and Controls .....	
Pairing.....	
Volume Adjustment .....	
Charging Earphones.....	
Overcharging .....	
Battery Life .....	
Auto Shutoff .....	
Charging the Adapter.....	
Using the Earphones .....	
Power On	
Power Off	
Made for iPod® adapter: On/Off .....	
Troubleshooting .....	
Insertion/Removal of Earphones.....	
Eartip Insertion	
Eartip Removal	
Proper Care	
Earphone Filters	
Changing Filters .....	
Proper Care .....	
Cleaning .....	
Cautions .....	
Listen Safely .....	
Specifications .....	
Warranty.....	
FCC Information .....	
About Etymotic Research.....	

## What's Included

- ety8 Bluetooth earphones
- USB charging cable
- Made for iPod® Adapter
- 5 ft. cord with 3.5 mm stereo phone plug
- 1 pair gray 3-flange eartips
- 1 pair gray 2-flange eartips (small)
- 1 pair gray 2flange eartips (large)
- 1 pair foam eartips (medium)
- Filter changing tool
- 2 replacement filters
- Carrying case
- Storage box
- User instructions

Replacement items and accessories are available at [www.etymotic.com](http://www.etymotic.com).

## Identification and Controls **USE PICTURES HERE**

### Identifying right and left earphones

Earphones are clearly marked L for the left ear and R for the right ear.

Note: Some users have found that the earphones are more comfortable with the left earphone in the right ear and vice versa. If correct channel representation is critical to the user's enjoyment of recorded materials, the earphones can be reprogrammed so that left and right channels are reversed, but the earphone labels will retain the same L and R designators.

### Controls

- Play/Pause
- Volume Up
- Volume Down
- Previous Track
- Next Track

### Pairing

#### **Made for iPod® Adapter.**

Ety8 and the iPod adapter are paired together at the factory.

#### **To pair the earphones with another Bluetooth device.**

Follow the instructions of the other device with the following specific instructions for the ety8 earphones. To allow ety8 earphones to be "found," they need to be in a "discoverable" mode:

- Make sure the earphones are powered off.
- Then press and hold the ON button for about 10 seconds.
- The LED on the earphones will flash rapidly.
- The earphones will stay in a discoverable mode for five minutes or until the pairing completes.
- Follow the instructions for the other device. If a passkey is requested, enter "0000"

## Volume Adjustment

When using the earphones with the iPod via the adapter, the volume adjustment is made on the earphones, not on the iPod. This ensures the highest quality signal at the earphones.

## Charging the Earphones

Charge the earphones for at least one hour before first use. A complete charge from a near-empty battery will take about two hours. When charging, the LED glows *yellow*. When charging is complete, the LED glows *green* if the unit is on. If the unit is off, the LED turns off when charging is complete.

## Overcharging

It is not possible to overcharge the earphones.

## Battery life

- Up to 10 hours of listening time, depending on the iPod or other device.
- When there is less than one hour of use left, the LED slowly blinks green.

## Auto Shut Off:

If the earphones are turned on but there is no music playing, the earphones will turn off after five minutes.

## Charging the Made for iPod® Adapter

The Made for iPod® adapter uses the power provided by the iPod battery and does not need charging. Since it uses the iPod battery, use of the Made for iPod® adapter will reduce the battery life of the iPod.

## Using the Earphones

### Power On with an iPod

- iPod should be OFF.
- Press the **On/Play/Pause** button for three seconds to turn the earphones on. The green LED will light when the earphones are turned on.
- Plug the adapter into the iPod.
- When the earphones have connected to the iPod source and the device is playing audio, the Made for iPod® adapter LED glows green.
- The following key presses are available to the user from the earphone:
  1. Play/Pause
  2. Volume Up
  3. Volume Down
  4. Previous Track
  5. Next Track

### Power Off

- While the earphones are on, press the On/Play/Pause button for three seconds to turn the earphones off. The green LED goes out when the earphones are turned off.

## Troubleshooting

Problem: No Music is playing through the earphones:

- Make sure the earphones and iPod adapter are on.
- Make sure the iPod is powered.
- If the iPod shows paused on its display, press play.
- If the iPod shows playing, press play/pause on the iPod TWICE.

Problem: The music is breaking up.

- When indoors, you will have the best reception when the earphones are in the same room as the iPod.
- You will have the best reception if the iPod is worn closest to the earphone side with on/off control.

## Insertion of Earphones

Try the 3-flange and foam eartips to determine the best fit for comfort and isolation. Sound quality and noise isolation depend on how well the eartips seal. If the earphones seem to lack bass, insert the earplug deeper into the ear canal to obtain a better seal, or try the other eartips supplied with these earphones.

### Two and 3-flange eartip insertion

- For best results, moisten the plastic eartip before insertion.
- Carefully insert one earphone at a time, pulling up and out on the back of the ear. This straightens the ear canal to ease insertion. It is also helpful to open the jaw slightly. The earphone should seal deeply and comfortably in the ear canal.

### Foam eartip insertion

- Use a foam eartip if a good seal cannot be obtained with a flanged eartip.
- Compress the foam at the end of the earphone by rolling it between your thumb and forefinger before inserting it. Hold the earphone in the ear for about 5 seconds while the foam expands to create a tight seal in the ear canal.

### Removal

When a good eartip seal is achieved, suction can sometimes be created when removing the earphones. To avoid discomfort, use a slow twisting motion to gradually break the seal. Open the jaw slightly to equalize pressure.

## Earphone Filters

Ety8 Earphones have special filters that shape the frequency response and prevent earwax from entering the earphones. These filters, identified by a white acoustic mesh in a small red plastic barrel, are located at the end of the earphone and are visible when the eartip is removed. When the filters become clogged they should be replaced. A dirty filter will reduce or block the earphone output. The frequency with which the filters need to be changed varies widely among users. The filters should be changed if the volume decreases or the sound quality declines.

### Changing Filters **SHOW with diagrams and arrows**

1. Remove eartip
2. Remove filter with tool supplied
3. Insert a new filter
4. Gently press flush against flat surface

5. Attach eartip

### Proper Care

- Do not expose earphones to extreme temperatures.
- Avoid dropping or strong impact. Extreme shock can damage the earphones.
- Always leave an eartip on the earphone for shock protection.
- Keep earphones away from water as this can adversely affect sound quality. Perspiration entering the nozzle may cause the earphone to temporarily stop working. Normal operation usually returns after the earphone dries out.
- Do not pull on the cord to remove it from the jack or from the ear.
- Avoid bending the barrel in the center of the cord.
- Clean or replace the white 3-flange eartips prior to use by others.
- Replace disposable foam eartips regularly.  
Earwax buildup can reduce the earphone output. When the filters become clogged they should be replaced.

### Cleaning

The 2- and 3-flange reusable eartips should be cleaned regularly.

1. Carefully remove the eartip from the earphone.
2. Use water and mild soap to remove dirt and earwax from the eartip.
3. Rinse and completely dry the eartip.
4. With a slight twisting motion, push the eartip back onto the earphone until it fits securely
5. **Foam eartips:** Discard dirty eartips and replace with new ones.

### Cautions

Consult a physician or audiologist if you have excessive earwax, difficulty inserting the eartips, or discomfort after prolonged use. Ety8 Bluetooth earphones exclude most external sounds even at low listening volumes. It is unsafe to use insert earphones while driving a motorized vehicle, operating machinery, bicycling or jogging, because you may not be alerted to potential danger. Do not use the earphones at excessively loud levels. Noise-induced hearing loss is a function of exposure time, the average sound level and the peak of very loud sounds. Decreased listening levels allow for longer periods of safe listening time.

### Listen Safely

Noise reduction with ety8 Bluetooth earphones occurs naturally when the eartips seal in the ear canals. Well-sealed Etymotic insert earphones provide 35 dB average external noise isolation with both flanged and foam eartips. Research indicates that preferred listening levels are lower when it is not necessary to overcome background noise in the environment. Reduction of surrounding noise with noise isolating earphones allows the listener to hear the full dynamic range of recordings at lower levels, which reduces the risk of noise-induced hearing loss.

### Specifications (these are not correct)

Frequency response: 20 Hz to 16 kHz  $\pm$ 4 dB  
Acoustic polarity: +electrical = +acoustic  
Transducer type: Balanced armature  
1 kHz sensitivity 108 dB SPL for a 1.0 volt input  
Maximum output: 122 dB SPL  
Weight (earphones): Less than 1 oz. (9 g)  
Weight (adapter): Less than 1 oz. (22 g)

## Warranty

Etymotic Research, Inc. warrants this product against defects in material or workmanship for a period of 2 years from the date of original purchase from an authorized Etymotic distributor or reseller. Proof of purchase is required. Etymotic will repair or replace the defective product at its option if returned within the warranty period to our service facility. This warranty is in lieu of all other warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose.

## FCC AND OTHER INFORMATION

**CAUTION:** Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to 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.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. Some equipment operates at frequencies that may cause interference to nearby TVs and VCRs; to minimize or prevent such interference, the system base should not be placed near or on top of a TV, PC monitor, or VCR; and, if interference is experienced, moving the desk station farther away from the TV or VCR will often reduce or eliminate the interference. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the system off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Increase the separation between the equipment and receiver.
2. Consult the dealer or an experienced radio TV technician for help.

## FCC Health and Safety Information

Your device is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. The FCC has established criteria for the amount of radio frequency energy various products may produce depending on their intended usage. This product has been evaluated and found to comply with the FCC's exposure criteria. For body worn operation, the FCC RF exposure guidelines were also met when used with the accessories supplied or designed for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines and should be avoided. This device must not be colocated with other transmitters.

## About Etymotic Research, Inc.

Etymotic Research is an engineering driven company. Its mission, to develop products to measure, improve and protect hearing, has not changed in over 20 years. New product development reflects our commitment to improve the lives of those with hearing loss and to enhance the listening experience of musicians and music lovers everywhere. Scientists, engineers, and audiologists working together have generated more than 120 patents issued or pending. Etymotic Research has an extensive sound laboratory that includes three anechoic

chambers and a reverberation room. Etymotic (et-im-oh-tik) means "true to the ear." Other Etymotic Research products include:

ER-4 MicroPro Earphones  
ER-6 and 6i Isolator™ Earphones  
ETYCOM™ mobile phone headset  
Musicians Earplugs (custom hearing protection)  
ER-20 High Fidelity earplugs  
Companion Mics™ Multi-talker Noise Reduction System

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ety8™ is a trademark of Etymotic Research, Inc.

The ety8™ Earphones are covered by one or more of the following U.S. patents: #4,677,679, #4,763,753, #5,887,070 and other patents pending.

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