



COUNTRYMAN
E6 OMNIDIRECTIONAL
EARSET MICROPHONE



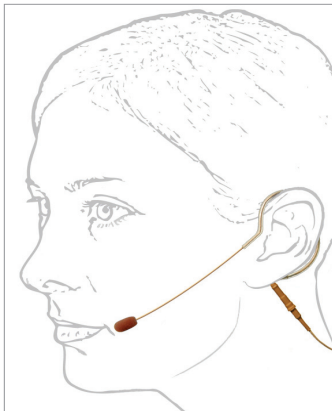
Thanks for choosing the Countryman E6 Omnidirectional Earset microphone. We're confident you'll find the E6 Omni to be the finest, most natural sounding microphone available. Its slender, unobtrusive profile is perfect for stage, church and on-camera use, and its lightweight, springy design clips comfortably around your ear, so it never interferes with eyeglasses, hairstyles or headphones.

With exceptional moisture resistance, sound level capability up to 140 dB, compatibility with most wireless transmitters, and a versatile omnidirectional pickup pattern, the E6 Omni is the ideal choice for a wide variety of applications.

Visit <http://www.countryman.com> for more information.

Contents

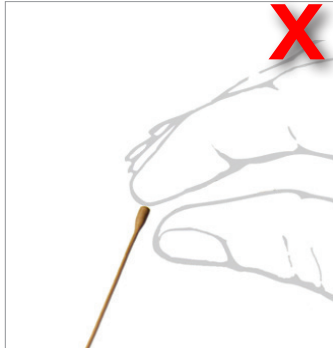
Handling the E6	3
Connecting Snap-On Cables	5
Custom Fitting the E6	6
Using Protective Caps	12
Using Collar Clips	14
Specifications	15
Declarations	17



Handling the E6

While the E6 Omni is designed for durability, moisture-resistance and flexibility, it is a high-precision instrument and we do suggest some basic precautions to prevent damage or sonic degradation:

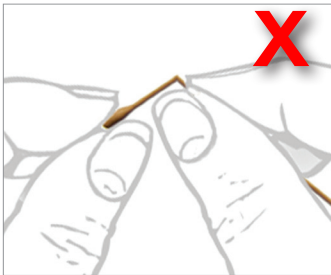
- Always use the E6 with a protective cap to shield the capsule from makeup, moisture, and debris
- When a protective cap is not in place, avoid touching the end of the capsule with fingers or obstructing the opening with foreign substances.



Handling the E6 (cont.)

The E6's earpiece and boom are constructed of an exceptionally flexible material which can be easily shaped to the wearer's needs. To prevent damage to your Earset:

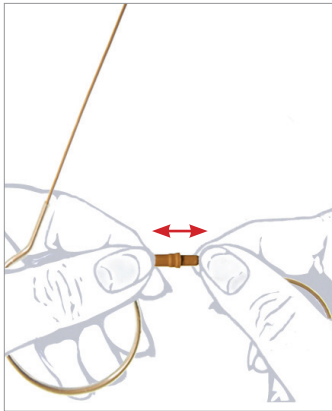
- Avoid bending it over sharp angles (such as the end of your fingernail) or around a tight radius (less than 1/2" diameter).
- Avoid bending the booms within 1/2" of the capsule or the earpiece within 1/2" of the condenser.
- Use the side of your finger or other rounded object.



Connecting Snap On Cables

The Earset cable is easy to remove and change, allowing you to swap transmitter types, switch colors, or replace damaged parts in the field. Exercise care in connecting and disconnecting the microphone input connector.

- Always grasp the connectors near the outer ends of the rubber sleeves and pull the connectors straight apart. When connecting listen for a click.
- The connectors do not unscrew and normally rotate freely.
- Avoid grasping the connectors where the sleeves overlap, as this can weaken the moisture-resistant seal and deteriorate the integrity of the connection.
- Do not pull by the cable, boom or springy part of the Earset.



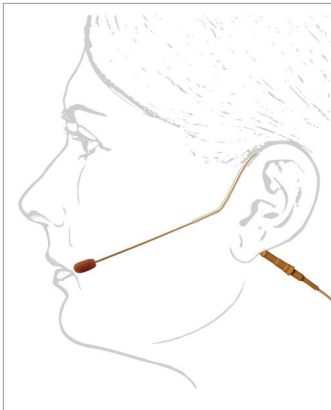
Custom Fitting the E6

The E6 Earset is designed for total adaptability. The key to maximum comfort and stability is in shaping. The Earset can be shaped and reshaped without harm; follow these steps to create a custom fit.

1. Try it on

Pull the “C” shaped part of the earset open and clip it over your ear, so that the connector sits behind the earlobe and the boom goes over the top and runs along your face.

You should feel the E6 gripping the top of your ear and sitting in the pocket behind your earlobe.



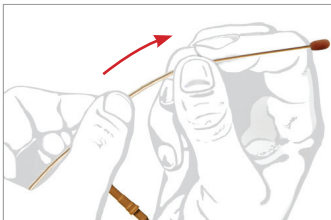
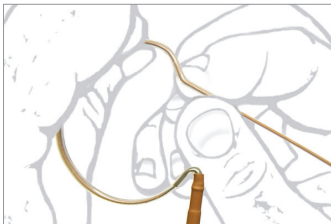
Custom Fitting the E6 (cont.)

2. Curve the Boom

The omni earset can be worn on your left or right ear. Curve the boom left if you intend to wear the earset on your right side; curve it to the right to wear it on your left side.

Form the earpiece and overall shape with your fingertips. Make sure there is a short straight section between the boom and the earpiece—this sits in front of the ear, locking the Earset in place.

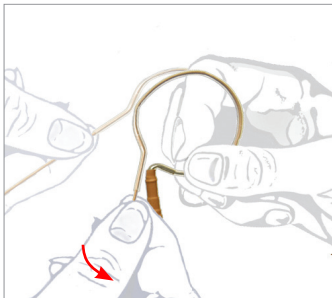
To curve the Earset, press and slide your thumb and forefinger along the boom several times. Don't be afraid to form the boom as long as you are curving—not kinking—the tube.



Custom Fitting the E6 (cont.)

3. *Tighten the loop*

Gently twist the loop so that it is smaller than your ear, then allow it to return to its regular shape (this is less important with the E6i). The loop should now be smaller than it was before and there should be slight tension when the Earset is on your ear. The amount you tighten this loop makes a big difference in how stable and tight the Earset feels.

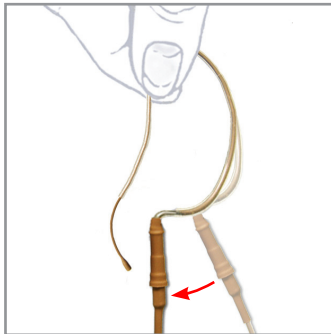


Custom Fitting the E6 (cont.)

4. Spring the loop

Holding the boom, gently pull the base of the earset. When you clip the Earset behind your ear, the connector will push out against your earlobe and the boom will press smoothly along your face.

This is the fastest way to get a really tight fit if the Earset feels loose.



Custom Fitting the E6 (cont.)

5. Position the boom

The Earset should now be firmly on your head, but the end of the microphone boom may be too high or too low, too far back or too far out in front of your mouth.

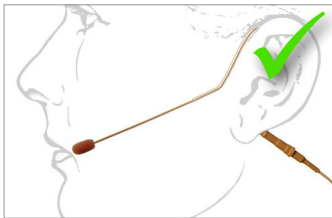
Form the boom with your fingers until you get it comfortable and sounding good. The best spot is usually just back from the corner of your mouth when you are smiling.

If you want to wear it in another position, the omnidirectional pattern is so versatile it will sound good in almost any location.



Custom Fitting the E6 (cont.)

- Placing the microphone too far forward can result in breath-related pops. Resist the urge to position the capsule directly in front of the mouth.
- Adjusting the tip outward (away from the cheek) is not effective in reducing breath noise, and will only result in lower gain and more ambient noise. Instead, move the microphone back along the side of the head toward the ear. You can shorten the Earset by bending it down and then forward as shown.



Using Protective Caps

The Earset should always have an omni protective cap in place to keep sweat, makeup and other foreign material out of the microphone.

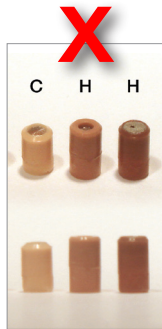
The E6 Omni is provided with three protective caps. Each has a different high frequency response characteristic that controls the amount of “crispness” or “sibilance” (response at 15 kHz).

The E6 Omni ships fitted with the +4 dB protective cap. This response meets the needs of the majority of users, slightly boosting the perceived “presence” in your sound, while leaving the lower frequencies unchanged. If you experience high-frequency feedback, you should switch to the 0 dB cap.



omni caps

left: +0 cap
middle: +4 cap
right: +8 cap



directional caps

left: “C” cap
middle: new “H” cap
right: old “H” cap

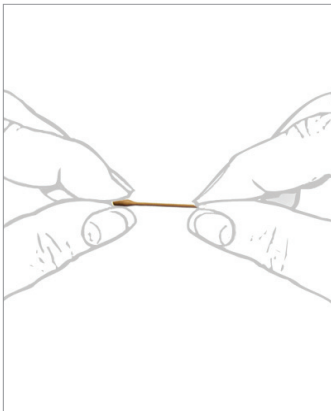
Using Protective Caps (cont.)

When removing and replacing the protective caps:

- Grasp the microphone low on the boom, close to the capsule.
- Hold the protective cap firmly by the sides and pull straight off to remove.
- To replace the protective cap, position the cap, hold the sides and press straight on.

When fitted with the 0 dB cap, the E6 delivers exceptionally flat frequency response.

In rare cases where you may require additional boost in the 15kHz range, an additional +8 dB cap is provided.

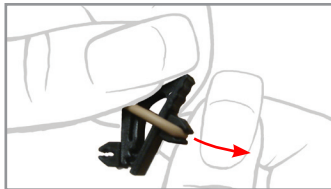


Using Collar Clips

The Earset comes with two collar clips: one black and one white. These clips prevent movement in the cable from dislodging the Earset and can reduce cable noise. They are specifically designed to match the diameter of your E6 cable, either 1mm or 2mm.

Gently pull the cable down into the opening to attach the clip. Gently pull the cable out to remove the clip.

We recommend using a collar clip with the heavier 2mm cable. Some performers choose not to use a collar clip with the lighter 1mm cable. We recommend using both attachment points as shown and leaving the clip attached to the cable when possible to minimize repetitive strain.



Specifications

Frequency Response: 20Hz to 20kHz
Operating Current: 500uA
Operating Voltage: 1 to 2 Volts
Power Supply Voltage: +3V with 2.7kOhm load
+6V with 5.6kOhm load
+9V with 15kOhm load
Weight: 0.07oz (2g)

Supplied Accessories:

Carrying case, black and white cable clips, wind screen, and 3 protective caps.

Detailed information on connecting Earsets to wireless transmitters can be found at:
<http://www.countryman.com>

The E6 Earset is available in three sensitivities to match a wide range of applications:

Model **E6OW5** for general speaking
Sensitivity: 7.0 mV/Pascal
Equivalent Acoustic Noise: 24 dBA SPL
Overload Sound Level: 120 dB SPL

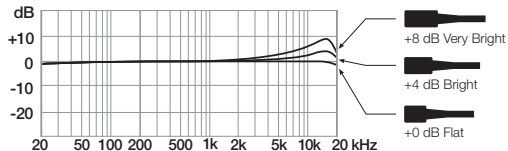
Model **E6OW6** for strong speaking and vocals
Sensitivity: 2.0 mV/Pascal
Equivalent Acoustic Noise: 29 dBA SPL
Overload Sound Level: 130 dB SPL

Model **E6OW7** for powerful vocals
Sensitivity: 0.70 mV/Pascal
Equivalent Acoustic Noise: 39 dBA SPL
Overload Sound Level: 140 dB SPL

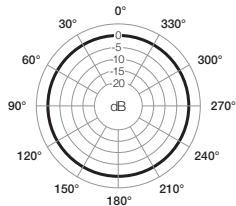
Specifications (cont.)

How Caps Change Frequency Response

measured at 6 inches



1 kHz Polar Response



Declarations

We, Countryman Associates Inc., declare under our sole responsibility that the following products:

E6 / E6i Omnidirectional Earset Microphone models
E6*, E6O*, E6IO*, WCE6O*, WCE6IO*

To which this declaration relates are in compliance with the essential requirements of:

2004/108/EC	EMC
EN 55103-1	
EN 55103-2	
2002/96/EC	WEEE
2003/108/EC	
2002/95/EC	RoHS

When used as specified.





Countryman Associates, Inc. 195 Constitution Drive, Menlo Park, CA 94025
Phone: (800) 669-1422 or (650) 364-9988 Fax: (650) 364-2794
Email: sales@countryman.com Web: www.countryman.com