



COUNTRYMAN  
**E2 EARSET**



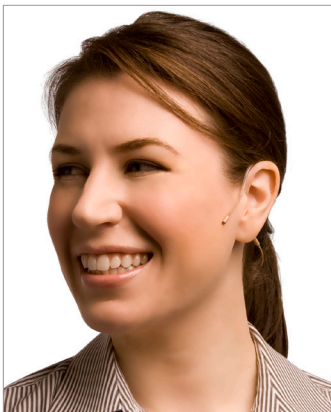
Thanks for choosing the Countryman E2 Earset microphone. We're confident you'll find it the finest, most natural sounding, and most unobtrusive earset microphone available.

The E2 provides high-quality pickup and excellent isolation with an ultra-miniature condenser element positioned near the ear and a directional pattern tuned to pick up the natural sound of the wearer while rejecting ambient noise. The entire assembly weighs less than one-tenth of an ounce and disappears against the skin or in the hair, so performers can forget it's there and audiences barely see it.

We use innovative engineering to pack this great a sound into such a tiny mic. For this reason, getting the best results requires some simple techniques that might not be immediately intuitive. This booklet will help you get the most out of your E2 Earset.

## Contents

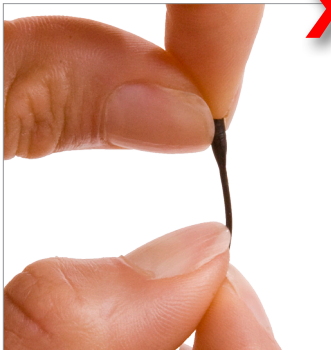
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## Handling the E2

While the E2 Earset 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:

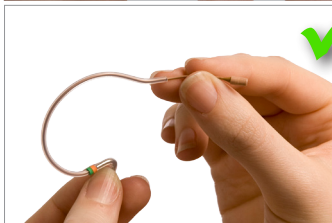
- Always use the E2 with its cap in place. The end caps are critical to the sound quality and also protect the capsule from makeup, moisture, and debris.
- When a protective cap is not in place, avoid touching the end of the capsule with fingers or obstructing the opening with foreign substances.
- The earpiece, boom, and end cap may be cleaned with alcohol wipes, spirit gum remover, or acetone. Do not use water or chemicals on the capsule itself.
- Clean the caps separately.



## Handling the E2 (cont.)

The E2'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:

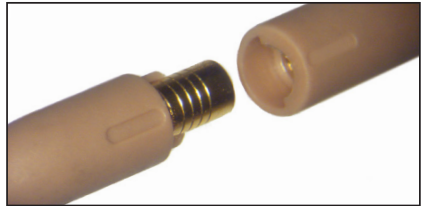
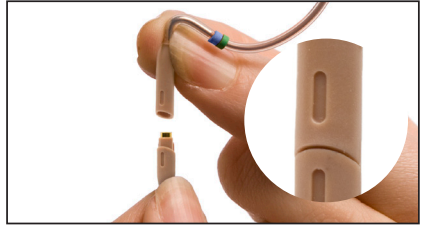
- Avoid bending it over sharp angles (such as the end of your fingernail) or around a tight radius (less than 1/2" diameter).
- Avoid bending the booms within 1/2" of the capsule or the earpiece within 1/2" of the connector.
- Use the side of your finger or other rounded object.



## Connecting E2 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 cable connector.

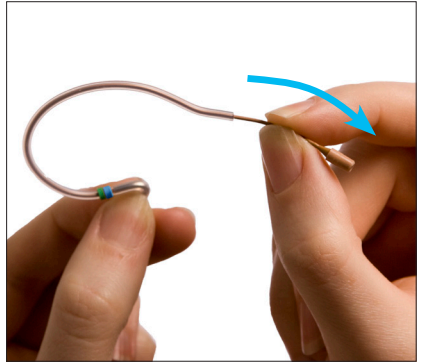
- Always grasp the connectors near the outer ends of the rubber sleeves and pull the connectors straight apart. When connecting listen for a click.
- The connectors do not unscrew—line up the marks on the connector overmold and pull straight out to disconnect.
- Avoid grasping the connectors where the 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 E2

Head-worn mics provide isolation by keeping the element consistently near the mouth. The ideal placement is with the tip of the element in front of the ear, about 1/8" away from the face. Since every performer's face is different, we've made it easy to custom fit the E2 Earset:

1. Curve the boom so that it will rest against your face when worn.



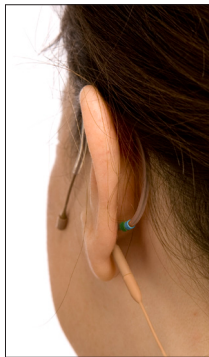
## Custom Fitting the E2 (cont.)

2. Put the loop over the ear with the base behind the earlobe and the capsule toward the mouth.



## Custom Fitting the E2 (cont.)

3. Tip the mic to point toward the mouth.  
The mic should be barely visible, resting about 1/8" from the face mid cheek or completely hidden by the hair.



## Custom Fitting the E2 (cont.)

4. Always use the collar clip to reduce clothing and cable noise. Leave enough slack in the cable such that the user can turn his/her head to both sides without tugging on the clip. Use the windscreen outdoors.



## 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 E2 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 always using a collar clip with the E2. Use both attachment points as shown. We recommend leaving the clip attached to the cable when possible to minimize repetitive strain.



## Back Port Cleaning Procedure

This procedure is rarely necessary, but it may help if frequency response and directionality have deteriorated because the back ports on the element are contaminated with dust or makeup.

Make sure your hands, the work area, the Earset's boom and end cap are clean. Take a 6" - 8" piece of clean painter's or gaffer's tape and form it into a circle, sticky side out. Stick it down on the top of a table, near the edge. Do not use tapes that may leave adhesive on the mic.

Remove the cable and end cap. Hold the Earset by its boom, about an inch from the bare mic element. Lay the element down on the adhesive, with the earpiece hanging off the edge of the table. Gently roll the mic a full 360° along the adhesive to remove dust or debris. Replace the end cap and cable.

## Specifications

**Frequency Response:** 20Hz to 20kHz  
**Operating Current:** 500uA  
**Operating Voltage:** 1 to 2 Volts  
**Weight:** 0.07oz (2g)

### Supplied Accessories:

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

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

The E2 Earset is available in two sensitivities to match a wide range of applications:

Model **E2W5** for general speaking

**Sensitivity:** 3.0 mV/Pascal

**Equivalent Acoustic Noise:** 34 dBA SPL

**Overload Sound Level:** 130 dB SPL

Model **E2W6** for loud speaking and vocals

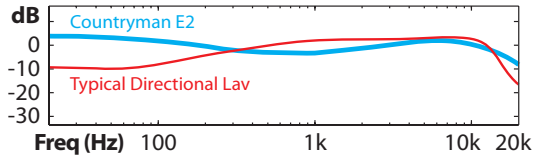
**Sensitivity:** 1.0 mV/Pascal

**Equivalent Acoustic Noise:** 39 dBA SPL

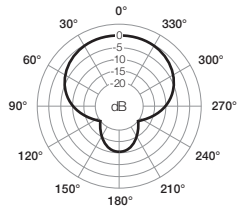
**Overload Sound Level:** 140 dB SPL

## Specifications (cont.)

### Frequency Response



### 1 kHz Polar Response



## Declarations

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

Earset Microphone models E2\*, E6\*, E6D\*, E6ID\*, WCE6D\*, WCE6ID\*

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](mailto:sales@countryman.com) Web: [www.countryman.com](http://www.countryman.com)