



ISOMAX E6 OMNIDIRECTIONAL MICROPHONE

Thanks for choosing the Countryman Isomax 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 145 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.

1

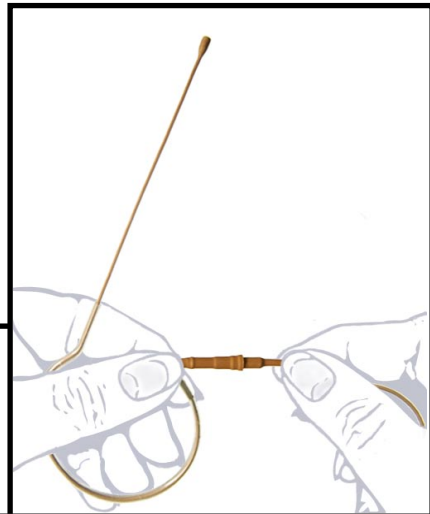
Handling the E6 Omni

The E6 Omni EarSet is a high-precision instrument, designed and manufactured to the most rigid standards achievable. While the E6 Omni is designed for durability, moisture-resistance and flexibility, we do suggest some basic precautions to prevent damage or sonic degradation:

- Always use the E6 with a protective cap in place. The cap protects the microphone capsule from makeup, moisture, dust and debris.
- When a protective cap is not in place, handle the microphone capsule with clean hands and avoid touching the end of the capsule with fingers, or obstructing the opening with foreign substances.
- 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). Instead, use the side of your finger or other rounded object. Refer to the notes on fitting the EarSet beginning on page 5.

2

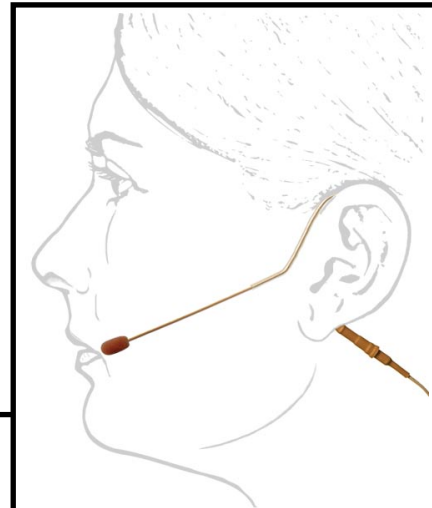
Exercise care in connecting and disconnecting the microphone input connector. Always grasp the connectors near the outer ends of the rubber sleeves and pull the connectors straight apart. The connectors do not unscrew and normally rotate freely. Avoid grasping the connectors where the sleeves overlap, 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.



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The E6 Omni is easy to wear

- The E6 Omni's omnidirectional pickup pattern makes orientation and positioning far less critical than with directional microphones. Most people can use the E6 Omni right out of the box with no adjustments. Just fit the E6 around your ear as shown in this illustration. If it stays in place when you shake your head you're set to go. If it's loose you need to tighten it. See page 8.

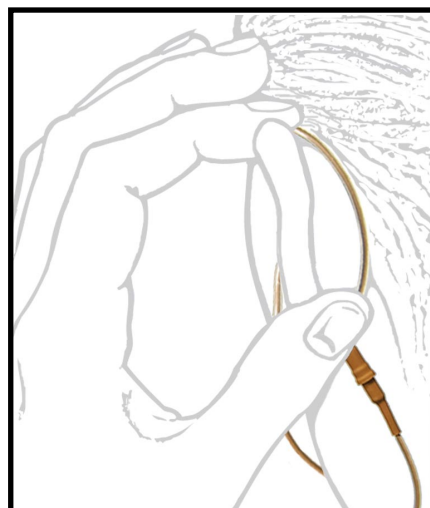


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Custom Fitting the E6 Omni EarSet

The E6 EarSet is designed for total adaptability. The key to maximum comfort and stability, is in shaping the E6 EarSet. The EarSet can be easily reshaped without any adverse affects; remember to make bends with the soft parts of your fingers or around curved objects at least 1/2 inch in diameter.

Place the EarSet around your ear, fitting the bend nearest the connector into the pocket between your earlobe and head. Hold it in place with your thumb and sweep your finger upward along the EarSet, guiding it gently into the notch between your ear and head.



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Hold your index finger in place and move your thumb to grasp the EarSet right in front of your ear. Keep grasping the EarSet while you take it off your head



6

Still holding the EarSet between thumb and forefinger, bend it downward about 45 degrees over the soft part of your thumb. This will keep it from sliding backward when you wear it.

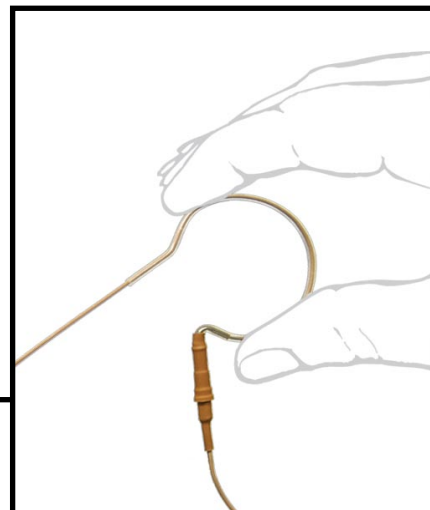


7

Put the EarSet back around your ear and check the fit by shaking your head from side to side

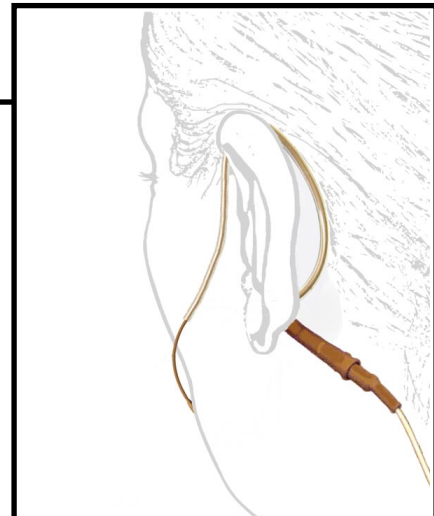
If the EarSet feels loose, remove it and squeeze the loop together by holding the top and bottom as shown. If it's too tight, flex top and bottom apart.

Once in place, the EarSet should be snug enough so it doesn't move when you shake your head, but loose enough that you barely feel it; you should forget you have it on within a few seconds.



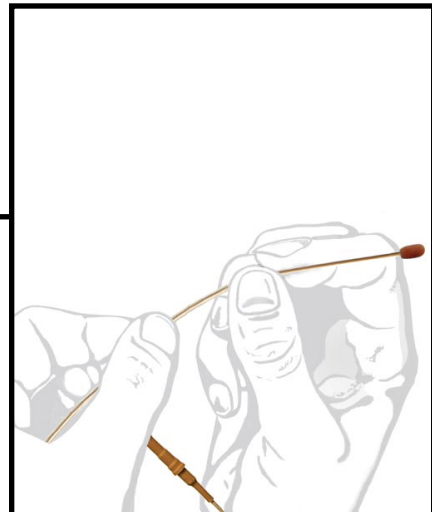
8

Form the EarSet's boom to gently curve around your face.



9

If you prefer to wear the E6 Omni EarSet on your right ear, you can reorient the curve of the boom by gently reshaping it. Grasp the boom between your thumb and forefinger, and use repeated strokes to gradually rework the curve of the boom.

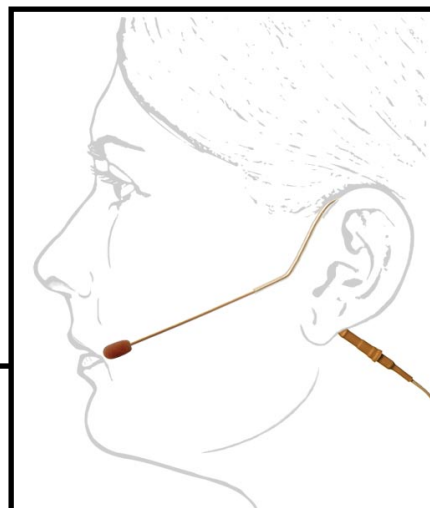


10

After you have a good, stable fit around your ear, you can adjust the microphone position for best pickup of your voice.

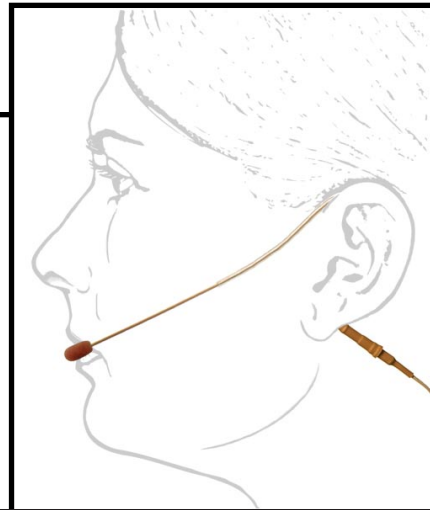
The ideal location for the microphone is at the corner of your mouth, touching or nearly touching your face.

If you want to wear it in another position, the Omnidirectional pattern is so versatile it will sound good in almost any location except too far forward.



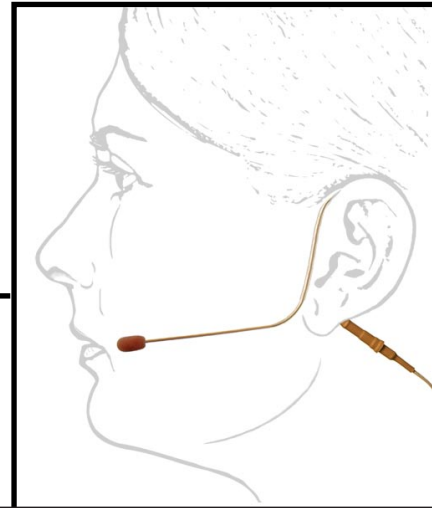
11

Placing the microphone too far forward can result in picking up pops.



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Adjusting it outward (away from your cheek) is not effective in reducing breath noise, and will only result in lower gain and more ambient noise. To effectively reduce breath noise, move the microphone further back, along the side of your face toward your ear. You can shorten the EarSet by bending it down, along your ear and then forward to the corner of your



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Using protective caps

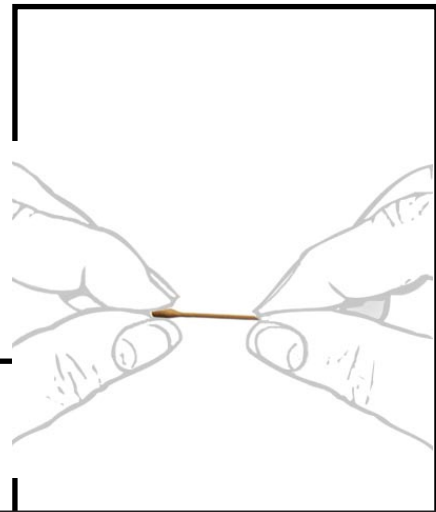
The EarSet should always be used with a protective cap in place to keep sweat, makeup and other foreign material out of the microphone.

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

The E6 Omni ships with the +4 dB protective cap fitted to the mic. We have found that this cap's frequency response meets the needs of the majority of users, providing a slightly increased response in the 15 kHz range. This will boost the perceived amount of "presence" in your sound, while leaving the lower frequencies unchanged. If you experience problems with high-frequency feedback, you should switch to the 0 dB cap.

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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 in place and push straight on, holding by the sides as shown.



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

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Specifications:

Frequency Response : 30 Hz to 20 kHz
 Operating Current : 500 μ A
 Operating Voltage : 1 to 2 Volts
 Power Supply Voltage : +3 V with 2.7 k Ohm Load
 +5 V with 5.6 k Ohm Load
 +9 V with 15 k Ohm Load
 Weight : .07 oz (2 grams)
 Supplied Accessories : Carrying case, cable clip, wind screen and 3 protective caps.

Detailed information on how to connect EarSets to wireless transmitters can be found at WWW.COUNTRYMAN.COM

The E6 EarSet is available in three sensitivities to match the needs of the user:

Model E6OW5 for general speaking and vocals

Sensitivity: 6.0 mV/Pascal
 Equivalent Acoustic Noise: 24 dB SPL A-Weighted
 Overload Sound Level: 125 dB SPL

Model E6OW6 for powerful speaking and vocals

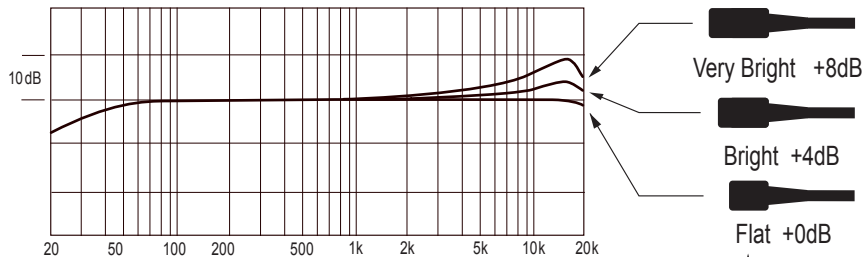
Sensitivity: 1.9 mV/Pascal
 Equivalent Acoustic Noise: 29 dB SPL A-Weighted
 Overload Sound Level: 135 dB SPL

Model E6OW7 for very powerful vocals

Sensitivity: 0.6 mV/Pascal
 Equivalent Acoustic Noise: 39 dB SPL A-Weighted
 Overload Sound Level: 145 dB SPL

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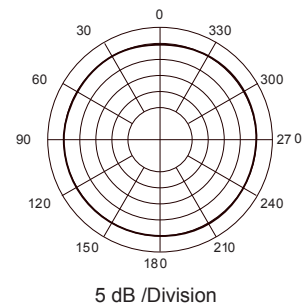
How protective caps change frequency response.



To identify caps, compare size to these drawings.



1 kHz Polar Response



The Flat cap works best for PA work. The bright and very bright provide more crispness which can be useful for matching the sound of other microphones.

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Declaration of Conformity

Countryman Associates, Inc.

Declares that this
E6 omnidirectional EarSet
conforms to
European EMC Directive 89/336/EEC:
Professional Audio Products Standard
EN55103-1 (emissions) and EN55103-2 (immunity)
for E1 (residential) and E2 (light industrial)
environments.



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