



## audio-technica AE4100 Cardioid Dynamic Handheld Microphone User Manual

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# audio-technica

User Manual  
Cardioid Dynamic Handheld Microphone AE4100



Thank you for purchasing this product. Before using the product, read through the user manual to ensure that you will use the product correctly. Please keep this manual for future reference.

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## Features

- Optimized for the stage with excellent sound isolation properties
- High output level, fast transients, and clarity in the joints
- Its integrated anti-pop technology protects against plosives very effectively and its sophisticated anti-shock design mitigates handling noise
- Robust construction for consistent reliability on tour
- Cardioid polar pattern improves isolation of desired sound source and reduces pickup of sounds the side and rear

## Notes on use

Output from the microphone's XLRM-type connector is low impedance (Lo-Z) balanced. The signal appears across Pins 2 and 3; Pin 1 is ground (shield). Output phase is "Pin 2 hot" – positive acoustic pressure produces positive voltage at Pin 2.

To avoid phase cancellation and poor sound, all mic cables must be wired consistently: Pin 1-to-Pin 1, etc. For a high-impedance (Hi-Z) mic input, connect a Lo-Z balanced cable to a Hi-Z matching transformer (A-T CP8201 or equal) at the equipment input. When using the AE4100 in settings with a stage monitor speaker, the speaker should be located 180° off axis (at the rear of the microphone). This placement, in conjunction with the microphone's uniform cardioid pickup pattern, will virtually eliminate the possibility of undesired audio feedback.

The high sensitivity of the AE4100 assures useful output and an excellent match to most input sources. In some cases, however, an attenuator such as the Audio-Technica AT8202 may be required between the microphone and preamplifier to avoid overloading sensitive input stages. Take care to keep foreign particles from entering the windscreen. An accumulation of iron or steel filings on the diaphragm, and/or foreign material in the windscreen's mesh surface, can degrade performance.

### Safety precaution

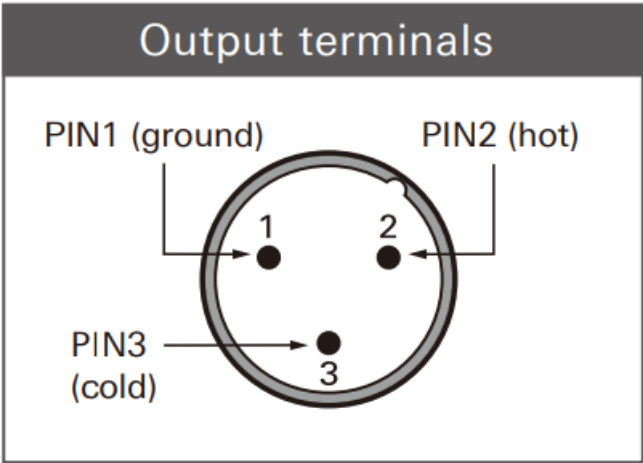
Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

## Cautions for the product

- Do not subject the product to a strong impact to avoid malfunction.
- Do not disassemble, modify or attempt to repair the product.
- Do not handle the product with wet hands to avoid electric shock or injury.
- Do not store the product under direct sunlight, near heating devices or in a hot, humid or dusty place.

Connection procedure

Connect the output terminals of the microphone to a device that has a microphone input (balanced input). The output connector is an XLRM-type with polarity as shown in the figure below.

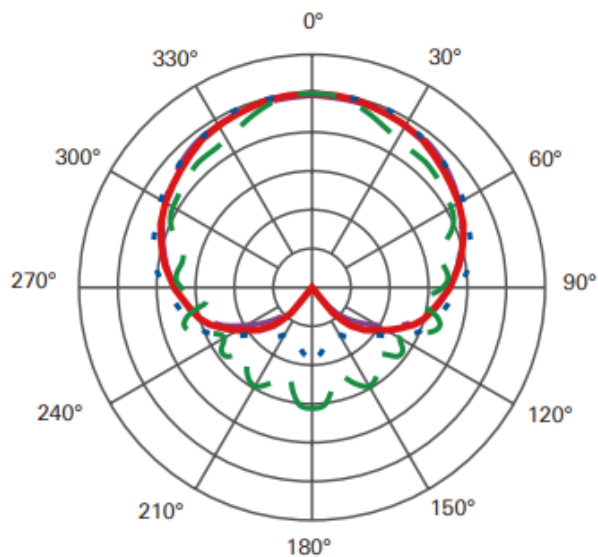


Specifications

Element	Dynamic
Polar pattern	Cardioid
Frequency response	90 – 18,000 Hz
Open circuit sensitivity	-55 dB (1.7 mV) re 1V at 1 Pa
Impedance	250 ohms
Weight	310 g
Dimensions	177.0 mm long, 48.0 mm head diameter, 33.0 mm to 22.0 mm tapered body diameter
Output connector	Integral 3-pin XLRM-type
Accessories furnished	AT8470 Quiet-Flex stand clamp for 5/8"-27 threaded st ands; 5/8"-27 to 3/8"-16 threaded adapter; soft protective pouch

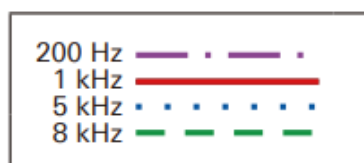
• 1 Pascal = 10 dynes/cm<sup>2</sup> = 10 microbars = 94 dB SPL  
\* Typical, A-weighted, using Audio Precision System One.  
For product improvement, the product is subject to modification without notice.

Polar pattern

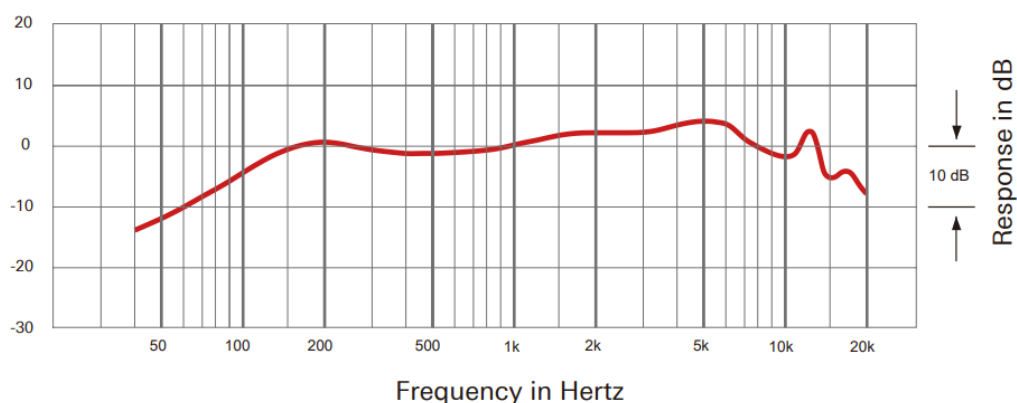


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### LEGEND



## Frequency response



### LEGEND



### Audio-Technica Corporation

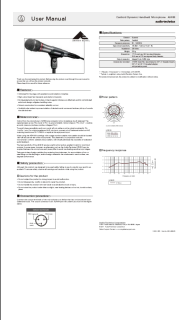
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## Documents / Resources

	<p><a href="#">audio-technica AE4100 Cardioid Dynamic Handheld Microphone</a> [pdf] User Manual AE4100, Cardioid Dynamic Handheld Microphone, Dynamic Handheld Microphone, Handheld Microphone, Microphone</p>
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References

-  [Audio-Technica Corporation](#)