



# audio-technica AT8004L Omnidirectional Dynamic Handheld Microphone Owner's Manual

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Omnidirectional Dynamic Handheld Microphone



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## Features

- Ideal for interviews, sports broadcasting and as the “mono” mic when used in conjunction with a stereo microphone
- Omnidirectional polar pattern provides natural reproduction of surrounding ambience
- Rugged housing with hardened-steel grille stands up to field use
- Internal shock mounting minimizes handling and cable noise

## Description

The AT8004 is a dynamic microphone with an omnidirectional polar pattern. It is designed for on-location interviews/sports broadcasting.

The microphone's omnidirectional polar pattern is ideal for reproduction of surrounding ambience.

The output of the microphone is a 3-pin XLRM-type connector.

The microphone is enclosed in a rugged housing. The included AT8405a stand clamp permits mounting on any microphone stand with 5/8"-27 threads. A soft protective pouch is also included.

## Operation and Maintenance

Output 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 at the equipment input.

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.

## Architect's and Engineer's Specifications

The microphone shall be a moving coil dynamic designed for handheld or stand use. It shall have an omnidirectional polar pattern and a frequency response of 80 Hz to 16,000 Hz. Nominal open-circuit output voltage shall be 2.8 mV at 1V, 1 Pascal. Output shall be low impedance balanced (300 ohms).

The output of the microphone shall be a 3-pin XLRM-type connector.

The microphone shall be 150.5 mm (5.93") long and have a head diameter of 35.8 mm (1.41"). Weight shall be 160 grams (5.6 oz). The microphone shall include a stand clamp and a soft protective pouch.

The Audio-Technica AT8004 is specified.

## Specifications

Element	Dynamic
Polar pattern	Omnidirectional
Frequency response	80-16,000 Hz
Open circuit sensitivity	−51 dB (2.8 mV) re 1V at 1 Pa
Impedance	300 ohms
Weight	160 g (5.6 oz)
Dimensions	150.5 mm (5.93") long, 35.8 mm (1.41") head diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	S8
Accessories furnished	AT8405a stand clamp for 5/8"-27 threaded stands; 5/8"-27 to 3/8"-16 threaded adapter; soft protective pouch

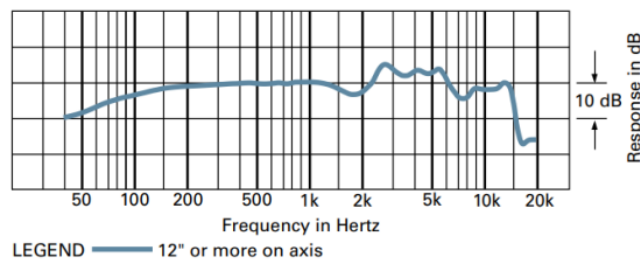
In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

1 Pascal = 10 dynes/cm<sup>2</sup> = 10 microbars = 94 dB SPL

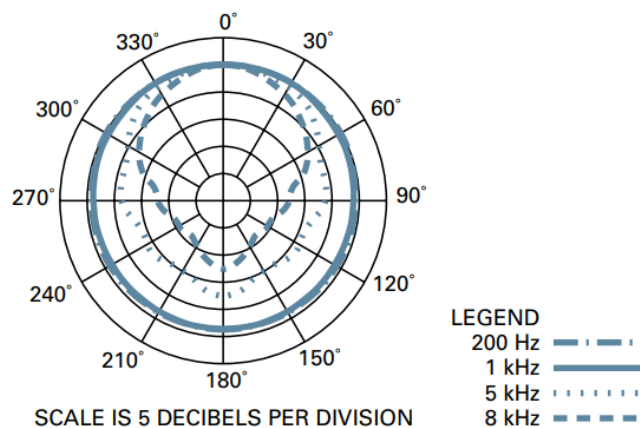
Specifications are subject to change without notice.



frequency response: 80–16,000 Hz



polar pattern



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## Documents / Resources

	<p><a href="#">audio-technica AT8004L Omnidirectional Dynamic Handheld Microphone</a> [pdf] Owner's Manual</p> <p>AT8004, AT8004L Omnidirectional Dynamic Handheld Microphone, AT8004L, Omnidirectional Dynamic Handheld Microphone, Dynamic Handheld Microphone, Handheld Microphone</p>
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