

AT8004

broadcast & production microphones

Omnidirectional Dynamic Handheld Microphone



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 $\frac{5}{8}$ ”-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 $\frac{5}{8}$ ”-27 threaded stands; $\frac{5}{8}$ ”-27 to $\frac{3}{8}$ ”-16 threaded adapter; soft protective pouch

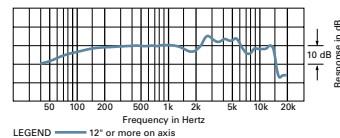
In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

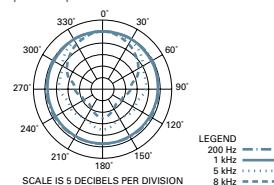
Specifications are subject to change without notice.



frequency response: 80–16,000 Hz



polar pattern



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