

BP4001

broadcast & production microphones

Cardioid Dynamic Microphone



Features

- Professional cardioid dynamic microphone with extended-length handle is ideal for on-location interviews
- The back-cavity assembly “floats” inside the handle shell, providing exceptional isolation from handling noise
- Frequency response is tailored for natural, clear and articulate reproduction of spoken words
- Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source
- Rugged housing with hardened-steel grille stands up to field use
- Integral windscreen protects against wind and breath noise
- Equipped with foam windscreen, carrying case, protective pouch and professional stand clamp

Description

The BP4001 is a dynamic microphone with a cardioid polar pattern. It is designed primarily for on-location interviews.

The microphone's cardioid polar pattern is more sensitive to sound originating directly in front of the element, making it useful for reducing pickup of unwanted sounds and controlling feedback.

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

The microphone is enclosed in a rugged housing. The included AT8470 Quiet-Flex™ stand clamp permits mounting on any microphone stand with 5/8"-27 threads. A foam windscreen, carrying case and soft protective pouch are 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 a cardioid polar pattern and a frequency response of 80 Hz to 18,000 Hz. Nominal open-circuit output voltage shall be 1.9 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 240.8 mm (9.48") long and have a head diameter of 40.0 mm (1.57"). Weight shall be 275 grams (9.7 oz.). The microphone shall include a foam windscreen, stand clamp, carrying case and soft protective pouch.

The Audio-Technica BP4001 is specified.

Specifications

Element	Dynamic
Polar pattern	Cardioid
Frequency response	80-18,000 Hz
Open circuit sensitivity	-54 dB (1.9 mV) re 1V at 1 Pa
Impedance	300 ohms
Weight	275 g (9.7 oz)
Dimensions	240.8 mm (9.48") long, 40.0 mm (1.57") head diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	S8
Accessories furnished	AT8470 Quiet-Flex™ stand clamp for 5/8"-27 threaded stands; 5/8"-27 to 3/8"-16 threaded adapter; foam windscreen; carrying case; soft protective pouch

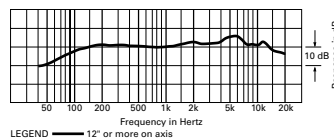
In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

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

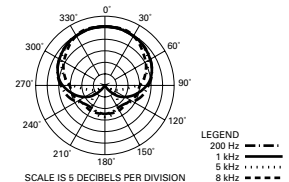
Specifications are subject to change without notice.



frequency response: 80–18,000 Hz



polar pattern



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