

BP4001

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.

Operation and Maintenance

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 long and have a head diameter of 40.0 mm. Weight shall be 275 grams. The microphone shall include a foam windscreen, stand clamp, carrying case and soft protective pouch.

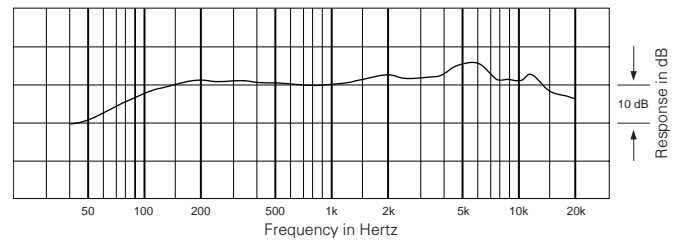
The Audio-Technica BP4001 is specified.



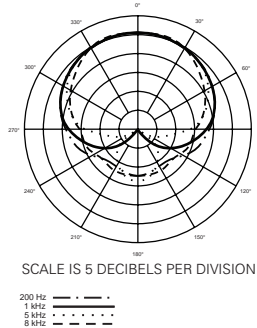
Specifications

| | |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| Dimensions | 240.8 mm long, 40.0 mm head diameter |
| Output connector | Integral 3-pin XLRM-type |
| Accessories furnished | AT8470 Quiet-Flex™ stand clamp for 5/8"-27 threaded stand; 5/8"-27 to 3/8"-16 threaded adapter; foam windscreen; carrying case; soft protective pouch |

frequency response: 80–18,000 Hz



polar pattern



BP4001

心形指向性动圈话筒



特点

- 专业性的心形指向性动圈话筒，配以伸展的手持结构，更适合于现场采访的收音应用
- 手持柄壳内设有「浮动式」空腔结构，能非常有效地隔离手持噪声
- 专为要求自然、清晰和了亮的人声语音收音而开发，提供卓越而相称的频率响应
- 心形指向性收音，能有效减低旁边及后方的杂声干扰，改善了对目标声源的隔离
- 坚固的外壳结构，配以强化的钢质收罩头网罩式，适合于户外环境使用
- 整合了防风保护，能阻隔风声和呼吸声等噪声
- 附有防风海绵罩、便携袋、保护盒和专用话筒夹

介绍

BP4001 心形指向动圈话筒，主要设计于作为现场采访使用。

话筒的心形收音指向特性，对收音头前方的目标声源有更高的灵敏度，而能够减低旁边杂声的干扰，并对返馈回声有更好的控制。

话筒的输出端为内置3针XLRM卡农公头。

话筒封装于坚固的机壳内，附设有 AT8470 Quiet-Flex™ 话筒夹，可把话筒安装于任何 $\frac{5}{8}$ "-27接环的话筒架上，并提供一个防风海绵罩，一个便携袋及保护盒。

操作及保养

话筒的 XLRM 卡农输出端为低阻抗平衡输出，话筒音频信号最终以卡农公头的2号及3号针脚输出，而1号针脚则为地线(屏蔽)连接。输出相位将以正相位电平设于2号针脚上。

为避免出现相位相互抵消而失真的情况，所有话筒连接时，接线必需以1-1、2-2、3-3 型式把针脚连接。如连接高阻抗的话筒输入，请配套阻抗匹配变压器 AT8201。

小心不要把金属碎或铁屑掉进防风罩内，铁屑会吸进收音头磁铁中，或贴在防风罩内，将会影响及减低收音效果。

结构和工程指标

话筒为动圈式收音头结构，设计于手持或配置话筒架使用，并为心形指向性以及 80Hz - 18,000Hz 频率响应的收音性能，开通灵敏度电压为 19mV (于1V以1Pa)，而输出为低阻抗平衡式(300欧姆)。

话筒的输出端为3针XLRM卡农公头。

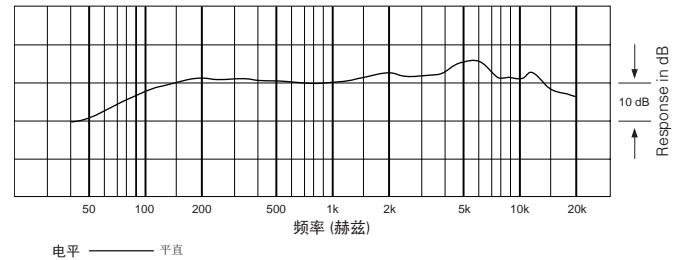
话筒长度为240.8 mm，头罩直径为40.0 mm，重量为275克。话筒附设有防风海绵罩、话筒夹、便携袋及保护盒。

**BROADCAST
& PRODUCTION**
MICROPHONES

技术指标

| | |
|-------|------------------------------------------------------------------------------------------------------------------------|
| 收音头 | 动圈式 |
| 指向特性 | 心形指向性 |
| 频率响应 | 80-18,000 Hz |
| 开通灵敏度 | -54 dB (1.9 mV) 以 1V 于 1 Pa |
| 阻抗 | 300 欧姆 |
| 重量 | 275 克 |
| 外形尺寸 | 长 240.8 mm, 头环直径 40.0 mm |
| 输出端子 | 整合式 3 针卡农公头 |
| 标准配置 | AT8470 Quiet-Flex™ 话筒夹带 $\frac{5}{8}$ "-27 接环; $\frac{5}{8}$ "-27 至 $\frac{3}{8}$ "-16 转接环; 防风海绵; 便携袋; 保护盒 |

频率响应: 80-18,000 Hz



指向特性

