

BP4025

X/Y STEREO FIELD RECORDING MICROPHONE



- Designed for broadcast and professional recording, and field use
- Unique coincident capsule configuration produces accurate stereo image in smaller housing
- Large-diaphragm capsules for pristine sound quality and exceptionally low noise
- Compact, lightweight design is ideal for camera-mount use
- Excellent channel separation
- Integral 80 Hz HPF switch and 10 dB pad

The BP4025 is intended for use in professional applications where remote power is available. It requires 11V to 52V DC phantom power, which may be provided by an audio mixer, or by a separate, in-line source such as the Audio-Technica AT8801 single-channel or AT8506 four-channel phantom power supplies.

Output for each stereo channel is low impedance (Lo-Z) balanced. The balanced signals appear across Pins 2 and 3 for the left channel, Pins 4 and 5 for the right channel. Pin 1 is ground (shield) for both channels. Output is "Pins 2 and 4 hot" - positive acoustic pressure produces positive voltage at Pins 2 and 4.

Locating the BP4025 nearer the sound source enhances the width of the stereo image, while decreasing room ambience. Conversely, as the mic position moves away from the sound source, a narrower left/right stereo image results and more of the "room sound" is noted.

An integral 80 Hz high-pass filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

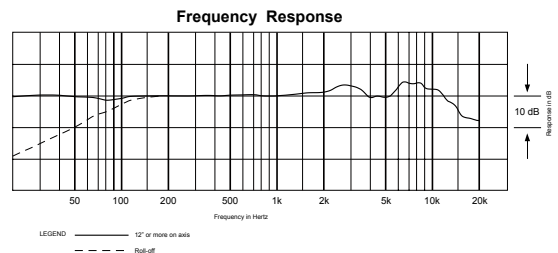
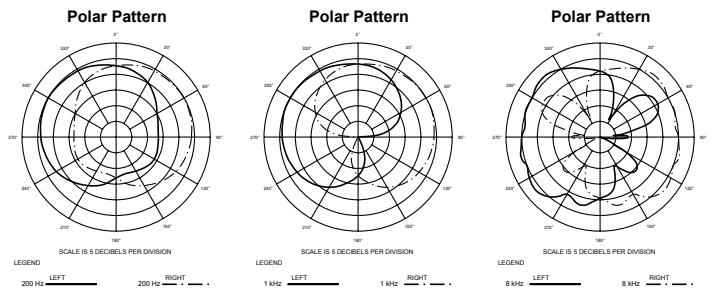
The BP4025 is also equipped with a switchable 10 dB pad that lowers the microphone's sensitivity, thus providing higher SPL capability for flexible use for a wide range of speakers/performers and system configurations.

The microphone is RoHS compliant—free from all substances specified in the EU directive on hazardous substances.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 43°C for extended periods. Extremely high humidity should also be avoided.

SPECIFICATIONS

ELEMENT	Fixed-charge back plate permanently polarized condenser
CHANNEL BALANCE	<2.5 dB
POLAR PATTERN	X/Y Stereo
FREQUENCY RESPONSE	20-17,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 12 dB/octave
OPEN CIRCUIT SENSITIVITY	-32 dB (25.1 mV) re 1V at 1 Pa
IMPEDANCE	170 ohms
MAXIMUM INPUT SOUND LEVEL	145 dB SPL, 1 kHz at 1% T.H.D.; 155 dB SPL, with 10 dB pad
DYNAMIC RANGE (typical)	131 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO	80 dB, 1 kHz at 1 Pa
PHANTOM POWER REQUIREMENTS	11 - 52V DC, 7 mA (both channels)
SWITCHES	Flat, roll-off; 10 dB pad (nominal)
WEIGHT (less cable and accessories)	269 g
DIMENSIONS	186.0 mm long, 47.6 mm head diameter, 21.0 mm maximum body diameter
OUTPUT CONNECTOR	Integral 5-pin XLRM-type
CABLES	5.0m long, 8 conductor, shielded, vinyl-jacketed stereo cable with 5-pin XLRF-type connector at microphone end and two 3-pin XLRM-type connectors at output end
ACCESSORIES FURNISHED	AT8405a stand clamp for 5/8"-27 threaded stands; windscreen; soft protective pouch



BP4025

X/Y立体声现场收音话筒



- 专为专业录音和广播采访的现场收音而设计。
- 独特的配对式收音头，设置于细小的头罩内，提供精确的立体声收音性能。
- 大型收音膜片，可提供清澈的音色和特低的噪音。
- 小型、轻量的设计，可夹持于摄像机上使用。
- 优良的通道分离效果。
- 设有80Hz高通滤波和10dB衰减开关。

BP4025应用于专业收音工作，需要提供11V至52V幻象供电工作，可使用调音台上的幻象电源，也可以使用铁三角的AT8801单通道或AT8506四通道幻象电源供电作独立供电。

话筒的每通道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号针脚作左通道输出，4号及5号针脚作右通道输出，而1号针脚则为左右通道地线(屏蔽)连接。输出相位将以正相位电平设于2号和4号针脚上。

请把BP4025话筒放置于接近音源的位置，以减少回音混响和提高立体声收音效果。远离音源时会收窄立体声音像和增加“房间回声”混响。

内置高通滤波电路，可轻易由平直的频率响应，开启为于80Hz以下衰减的收音效果，应用高通滤波器可减低收音环境中低频噪声(如外间汽车引擎声，空调系统的风声等)，房间中的回声及机械性的震动声。

BP4025话筒并有10dB衰减开关，在高声压环境收音时，减低话筒的灵敏度，避免破声的失真现象出现。

话筒符合RoHS规格，在构造上不含有欧盟禁用的危害性物质。

把话筒暴露于高温中可能导致输出电平逐渐及永久性减弱，应避免将话筒留在日晒的地方或长时间置于温度超过43°C的地方，而极高湿度也应避免。

技术指标

收音头	固定充电背板， 静电型电容式
通道平衡	<2.5 dB
指向特性	X/Y 立体声
频率响应	20-17,000 Hz
高通滤波	80 Hz, 12 dB/octave
开通灵敏度	-32 dB (25.1 mV) 以 1V 于 1 Pa
输出阻抗	170 欧姆
最大承受声压	145 dB 声压, 1 kHz 于 1% T.H.D.; 155 dB 声压 于 10dB 衰减
动态范围 (典型)	131 dB, 1 kHz 于最高声压
讯噪比	80 dB, 1 kHz 于 1 Pa
幻像供电	直流 11 - 52V, 耗电 7mA 典型每通道
开关	平直 / 高通滤波; 10dB 衰减
重量	269 g
外形尺寸	186.0 mm 长, 47.6 mm 头罩直径 21.0 mm 机身最大直径
输出连接器	内置 XLRM-5针卡农公头
连线	平衡接线: 5.0 m 长, 8芯线屏蔽式 聚乙烯护套立体声电缆带5针卡农母 头连接话筒, 及两路3针卡农公头于 输出端。
附属品	AT8405a 5/8" 27接头转轴式支架; 防 风罩; 电池; 保护软袋

