

BP4027

STEREO SHOTGUN MICROPHONE



- Designed for broadcasters, videographers and sound recordists.
- Compact, lightweight design is perfect for camera-mount use.
- Independent line-cardioid and figure-of-eight condenser elements.
- Switchable low-frequency roll-off.
- Switch selection of non-matrixed M-S mode and two internally-matrixed left/right stereo modes.

MID-SIDE OPERATION: In M-S mode, the BP4027 provides independent Mid and Side signals. This allows the width of the stereo image to be adjusted in post production or in the field with a matrix mixer.

MATRIXED STEREO: The BP4027 offers two internally-matrixed modes which provide traditional “left-right” stereo without the need for external mixers. To accommodate varying acoustic environments, the user may select between a “wide” pattern (LR-W) with increased ambient pickup, and a “narrow” pattern (LR-N) which offers more rejection and less ambience. Output phase is “Pin 2 hot.”

For correct left-right stereo orientation, position the microphone so the word “UP” is on top, with the switches on the bottom. In all modes, locating the BP4027 nearer the sound source enhances the apparent width of the stereo image, while decreasing room ambience. Moving away from the sound source will result in a narrower stereo image and more “room sound.”

M-S Output	Connector	Pin 1	Pin 2	Pin 3
Mid	XLR3M-Gray <i>XLR5M Mic Connector:</i>	Ground <i>Pin 1</i>	Mid + <i>Pin 2</i>	Mid – <i>Pin 3</i>
Side	XLR3M-Red <i>XLR5M Mic Connector:</i>	Ground <i>Pin 1</i>	Side + <i>Pin 4</i>	Side – <i>Pin 5</i>
Matrix Output	Connector	Pin 1	Pin 2	Pin 3
Left	XLR3M-Gray <i>XLR5M Mic Connector:</i>	Ground <i>Pin 1</i>	L + <i>Pin 2</i>	L – <i>Pin 3</i>
Right	XLR3M-Red <i>XLR5M Mic Connector:</i>	Ground <i>Pin 1</i>	R + <i>Pin 4</i>	R – <i>Pin 5</i>

The BP4027 requires 11V to 52V DC phantom power on Pins 2 and 3 both XLR3M connectors. Wiring must be balanced throughout, and all mic cables in the system must be wired consistently: Pin 1-to-Pin 1, etc. If connecting to unbalanced inputs, good-quality balanced line transformers must be used.

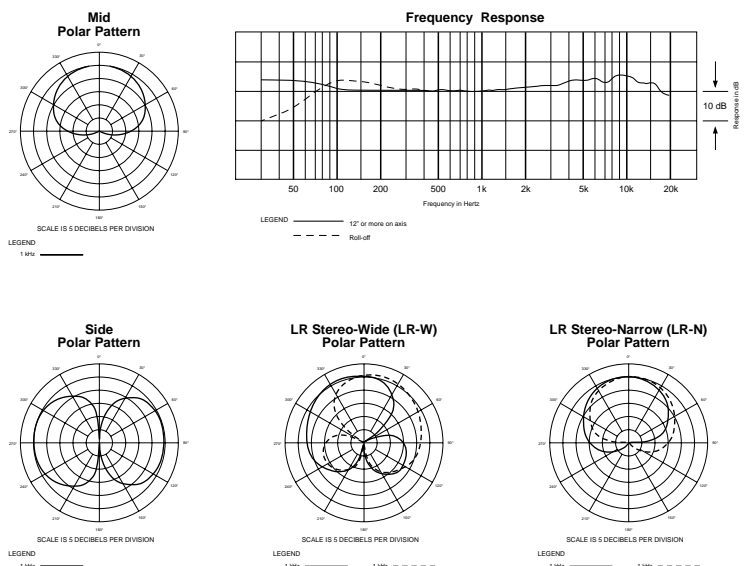
The microphone is RoHS compliant—free from all substances specified in the EU directive on hazardous substances.

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
POLAR PATTERN	Line-cardioid and figure-of-eight
FREQUENCY RESPONSE	30-20,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 12 dB/octave
OPEN CIRCUIT SENSITIVITY (Mid / Side / LR Stereo)	-30 dB (31.6 mV) re 1V at 1 Pa -34 dB (19.9 mV) re 1V at 1 Pa -36 dB (15.8 mV) re 1V at 1 Pa
IMPEDANCE	200 ohms
MAXIMUM INPUT SOUND LEVEL (Mid / Side / LR Stereo)	123 dB / 127 dB / 126 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC RANGE (typical) (Mid / Side / LR Stereo)	101 dB / 101 dB / 102 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO (Mid / Side / LR Stereo)	72 dB / 68 dB / 70 dB, 1 kHz at 1 Pa
PHANTOM POWER REQUIREMENTS	11 - 52V DC, 4 mA typical at 48V
SWITCHES	M-S, LR Stereo-Wide (LR-W), LR Stereo-Narrow (LR-N); Flat, roll-off
WEIGHT (less cable and accessories)	142 g
DIMENSIONS	380.0 mm long, 21.0 mm diameter
OUTPUT CONNECTOR	Integral XLR5M-type
CABLE	Dual 0.61 m shielded, two-conductor, terminated in two XLR3M-type connector
ACCESSORIES FURNISHED	AT8405a stand clamp for 5/8"-27 threaded stands; AT8135 foam windscreen; 5/8"-27 to 3/8"-16 threaded adapter; protective carrying case

Specifications are subject to change without notice.



BP4027

立体声超指向性话筒



- 专为广播，影视拍摄和录音师而设计。
- 小型及轻重的结构，是用于摄像机挂件的理想配置。
- 内置独立的超指向性，和8字形指向性收音头。
- 设有高通滤波开关，有效降低环境中低频噪声。
- 可选择非矩阵的M-S模式，或两种内置矩阵的左右立体声模式。

中声道/边声道操作：在M-S模式中，BP4027话筒提供独立的中声道和边声道信号，可在现场矩阵调音，或在后期制作时作灵活广阔的立体声音像调制。

矩阵立体声操作：BP4027话筒内置两种立体声矩阵设定，提供传统的左右声道立体声信号输出，而不需特别配置矩阵调音器。为配合不同的音像环境，话筒设有宽指向的立体声矩阵和窄指向的立体声矩阵选择，提供广阔或细小音像环境。输出相位将以正相位电平设于2号针脚上。

为取得正确的左右立体声定位，需把话筒上的"UP"文字向上，而开关向下。在所有模式中，应把BP4027接近音源，以减少回音混响和提高立体声收音效果。远离音源时会收音立体声音像和增加“房间回声”混响。

中边声道输出	连接头	1号针脚	2号针脚	3号针脚
中声道	XLR3M-灰色 XLR5M 话筒连接头:	接地 1号针脚	中声道 + 2号针脚	中声道 - 3号针脚
边声道	XLR3M-红色 XLR5M 话筒连接头:	接地 1号针脚	边声道 + 4号针脚	边声道 - 5号针脚
矩阵输出	连接头	1号针脚	2号针脚	3号针脚
左声道	XLR3M-灰色 XLR5M 话筒连接头:	接地 1号针脚	左声道 + 2号针脚	左声道 - 3号针脚
右声道	XLR3M-红色 XLR5M 话筒连接头:	接地 1号针脚	右声道 + 4号针脚	右声道 - 5号针脚

BP4027应用于专业收音工作，需要提供11V至52V幻象供电于两组XLR3M的2号及3号针脚输出端子上，可使用调音台上的幻象电源，也可以使用鐵三角的AT8801单通道或AT8506四通道幻象电源供电作独立供电。

低阻抗的平衡音频输出，音频信号以卡农公头输出端子的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。如连接到非平衡器材，必须配合高质量的平衡转换变压器使用。

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
指向特性	超指向性及8字形指向性
频率响应	30-20,000 Hz
高通滤波	80 Hz, 12 dB/octave
开通灵敏度	(中声道) -30 dB (31.6 mV) / (边声道) -34 dB (19.9 mV) / (左右立体声) -36 dB (15.8 mV) 以 1V 于 1 Pa
输出阻抗	200 欧姆
最大承受声压	123 dB / 127 dB / 126 dB 声压， (中声道/边声道/左右立体声) 1 kHz 于 1% T.H.D.
动态范围 (典型)	101 dB / 101 dB / 102 dB， (中声道/边声道/左右立体声) 1 kHz 于最高声压
讯噪比	72 dB / 68 dB / 70 dB， (中声道/边声道/左右立体声) 1 kHz 于 1 Pa
幻像供电	直流 11 - 52V, 耗电 4mA 典型于 48V
开关	M-S (中/边声道) / LR-W (立体声-宽) / LR-N (立体声-窄); 高通滤波
重量	142 g
外形尺寸	380.0 mm 长, 21.0 mm 直径
输出连接器	内置 XLRM-5针卡农公头
导线长度	0.61 m 长, 双接头连接线, 2蕊线连屏蔽电线, 双XLR3M插头
附属品	AT8405a 5/8"-27接头转轴式支架; AT8135 海棉防风罩; 5/8"-27至3/8"-16转接头; 保护袋

有关的技术指标和资料，可能会作出修改而不另行通知。

