

AT871UG

AT SERIES

UNIDIRECTIONAL CONDENSER BOUNDARY MICROPHONE

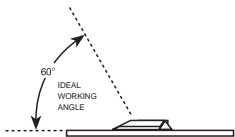


- Designed for surface-mount applications such as high-quality sound reinforcement, professional recording, television, conferencing and other demanding sound pickup situations.
- UniGuard™ RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI).
- Superior off-axis rejection for maximum gain before feedback.

- Small-diameter UniPoint capsule near boundary eliminates phase distortion and delivers clear, high-output performance.
- Heavy die-cast case and non-slip silicon foam bottom pads minimize coupling of surface vibration to the microphone.
- Low-profile design with low-reflectance finish for minimum visibility.
- AT871UG has contained electronics eliminate need for external power module.
- The AT871UG requires 9V to 52V phantom power for operation only.

Supplied as a cardioid, AT871UG accepts interchangeable elements to permit selection of angle of acceptance from 100° to 360°.

Positioning a properly designed miniature cardioid microphone centrally on a large, flat, unobstructed surface yields several distinct advantages. Directionality is increased by 3dB, promoting enhanced gain before feedback and further suppression of ambient noise. Sensitivity is increased for improved signal to noise ratio. Phase distortion due to reflected sound energy from boundary itself is eliminated.



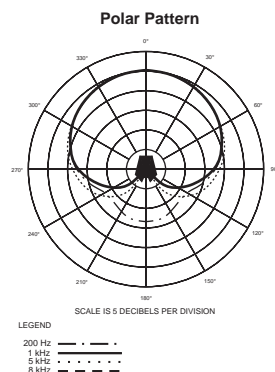
The microphone should be placed on a flat, unobstructed mounting surface, with the front of the microphone facing the sound source. The sound source should not be below, or high than 60° above, the plane of the mounting surface.

Output from XLRM-type connector 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.

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.

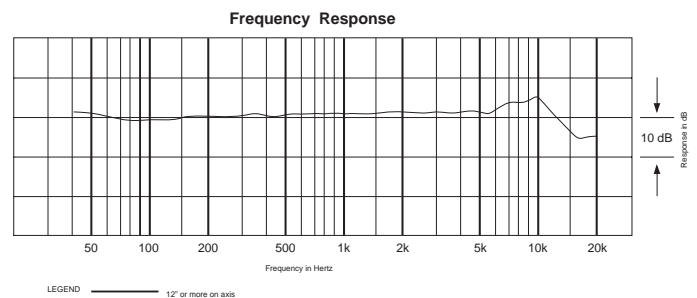
SPECIFICATIONS

ELEMENT	Fixed-charge back plate permanently polarized condenser
POLAR PATTERN	Half-cardioid (cardioid in hemisphere above mounting surface)
FREQUENCY RESPONSE	30-20,000 Hz
OPEN CIRCUIT SENSITIVITY	-33 dB (19.9 mV) re 1V at 1 Pa
IMPEDANCE	200 ohms
MAXIMUM INPUT SOUND LEVEL	130 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC RANGE (typical)	103 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO	67 dB, 1 kHz at 1Pa
PHANTOM POWER REQUIREMENTS	9-52V DC, 2 mA typical
WEIGHT (less cable)	415 g
DIMENSIONS	120.0 mm - maximum width, 145.0 mm - maximum length, 17 mm - height
OUTPUT CONNECTOR	TB3M-type
CABLE	7.6m long, 3.2mm diameter, 2-conductor shielded cable with TA3F-type connector and XLRM-type connectors.
OPTIONAL INTERCHANGEABLE ELEMENTS	AT853H-ELE hypercardioid (100°) AT853C-ELE cardioid (120°) AT853SC-ELE subcardioid (170°) AT853O-ELE omnidirectional (360°)
ACCESSORIES FURNISHED	Soft protective pouch



Optional Accessories:

- AT8201 line matching transformer (Lo-z to 50,000 ohms)
- AT8202 adjustable in-line attenuator for use with balanced Lo-Z microphones.
- AT8506 four-channel 48V phantom power supply (AC powered).
- AT8801/EU single-channel 48V phantom power supply (AC powered).



单指向性平面式电容话筒



- 设计在平面放置应用，提供高质量收音、会议、专业录音、及其他高要求的收音应用。
- UniGuard™ - 射频干扰(RFI)屏蔽技术，提供杰出的防止射频干扰能力，避免收音时受到如手提电话等的干扰。
- 半球形单一指向性，可抑制后方杂音而清楚地在前方收音。

- 细小的UniPoint系列收音头，可消除反射式相位失真，并提供清晰及高信号的音频输出。

- 平放不显眼的设计，并涂上低反光的颜色涂料。

- 以压铸铸造的坚固外壳及话筒底部的防滑矽泡棉，可减低桌面震动对话筒的影响。

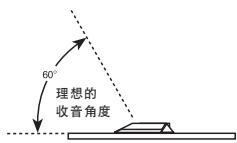
- 平放不显眼的设计，并涂上低反光的颜色涂料。

- AT871UG 内置话筒前置放大器供电组件，无需使用外置供电模组。

- AT871UG 话筒只作直流9V至52V幻象供电操作。

标准为心形指向配置，但可选配适合的收音头更换配合实际的应用，收音角度可由100°至360°

特别的平面设计，将话筒放置在一个宽阔平面的中央位置上，可因声音的反射效果而使音量增加3dB，并同时提高讯噪比及能减低因相位移动而形成的失真，改善音质。



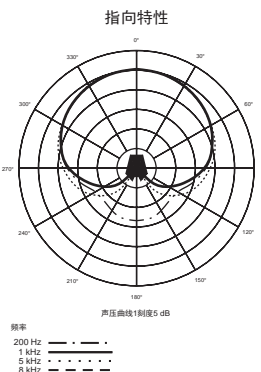
话筒应放置在平面上，及没有阻碍物的环境使用。音源应在话筒的前方发声，理想的收音角度应在平面至60°高度之内。

低阻抗的平衡音频输出，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。

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。

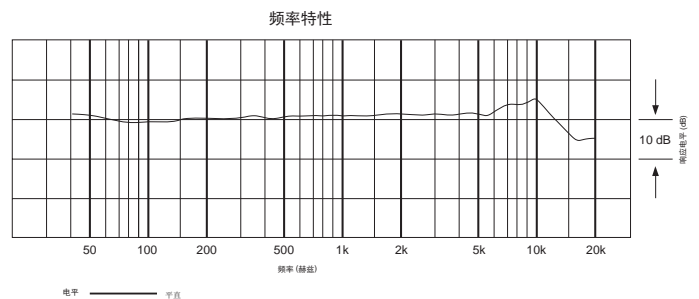
技术指标

收音头	固定充电背板，静电型电容式
指向特性	半球形心形单指向性
频率响应	30-20,000 Hz
开通灵敏度	-34 dB (19.9 mV) 以 1V 于 1 Pa
输出阻抗	200 欧姆
最大承受声压	130 dB, 1 kHz 于 1% T.H.D.
动态范围 (典型)	103 dB, 1 kHz 于最高声压
讯噪比	67 dB, 1 kHz 于 1Pa
幻象供电	直流 9-52V, 耗电 2 mA 典型
重量	415 克
外形尺寸	120.0 mm - 最大宽度, 145.0 mm - 最大长度 17 mm - 高
输出连接器	TB3M-3针卡农公座
连接线	7.6m 长, 3.2 mm 直径连接线, 2蕊线连屏蔽电线, 以TA3F插头连接及3针卡农公头插头。
可转换收音头	AT853H-ELE 超心形指向 (100°) AT853C-ELE 心形指向 (120°) AT853SC-ELE 准心形指向 (170°) AT853O-ELE 全方向性 (360°)
附属品	保护袋



选择配件:

- AT8201 话筒线路匹配变压器 (低阻抗至 50,000欧姆)。
- AT8202 可选式话筒衰减器。
- AT8506 四通通48V幻象供电器 (交流供电)。
- AT8801/EU 单通道48V幻象供电器 (交流供电)。



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