

AT803

MINIATURE OMNIDIRECTIONAL CONDENSER MICROPHONE



- High intelligibility for lecturers and stage/TV performers
- Provides excellent yet unobtrusive sound pickup
- UniSteep® filter provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality
- Operates on battery or phantom power

The AT803 is designed to be worn as a lavalier or hidden in loose clothing. For use as a lavalier, attach the microphone about 150mm below the chin. Anticipate movements that may cause the microphone to rub against or be covered by clothing, and position the microphone to avoid it.

The AT803 requires 11V to 52V DC phantom power or a 1.5V AA battery for operation. A battery need not be in place for phantom power operation.

Battery installation: Remove the cap from the top of the power module. Insert a fresh 1.5V AA battery (“+” end toward the cap release button), then reassemble the power module. Alkaline batteries are recommended for longest life. Remove the battery during long-term storage.

Output from the power module’s 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.

To avoid phase cancellation and poor sound, all mic cables must be wired consistently: Pin 1-to-Pin 1, etc.

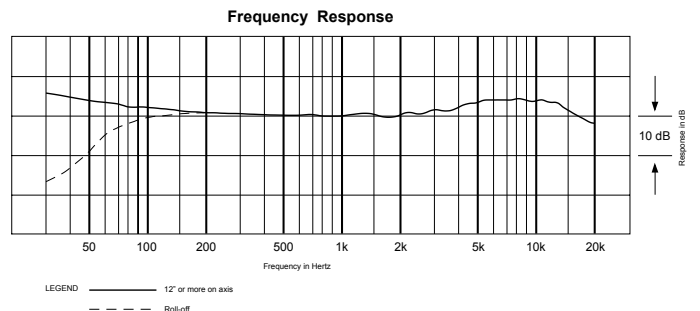
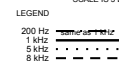
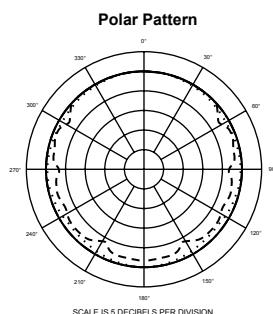
An integral 80 Hz high-pass UniSteep® filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the microphone’s sensitivity to popping in close vocal use. It also reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

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	Omnidirectional	
FREQUENCY RESPONSE	30-20,000 Hz	
LOW FREQUENCY ROLL-OFF	80 Hz, 18 dB/octave	
OPEN CIRCUIT SENSITIVITY (Phantom / Battery)	-44 dB (6.3 mV) re 1V at 1 Pa -46 dB (5.0 mV) re 1V at 1 Pa	
IMPEDANCE (Phantom / Battery)	200 ohms / 270 ohms	
MAXIMUM INPUT SOUND LEVEL (Phantom / Battery)	135 dB / 121 dB SPL, 1 kHz at 1% T.H.D.	
DYNAMIC RANGE (typical) (Phantom / Battery)	107 dB / 93 dB, 1 kHz at Max SPL	
SIGNAL-TO-NOISE RATIO	66 dB, 1 kHz at 1 Pa	
PHANTOM POWER REQUIREMENTS	11 - 52V DC, 2 mA typical	
BATTERY TYPE	1.5V AA/UM3	
BATTERY CURRENT / LIFE	0.4 mA / 1200 hrs typical (alkaline)	
SWITCHES	Off, on-flat, on-roll-off	
WEIGHT	MICROPHONE	2.8 g
	POWER MODULE	139 g
DIMENSIONS	MICROPHONE	25.0 mm long, 10.2 mm diameter
	POWER MODULE	84.0 mm H x 63.0 mm W x 22.0 mm D
OUTPUT CONNECTOR	Integral 3-pin XLRM-type	
CABLE	1.8 m long (permanently attached to microphone), 2.6 mm diameter, 2-conductor, shielded cable with TA3F-type connector	
ACCESSORIES FURNISHED	AT8531 power module; AT8417 clothing clip; AT8116 windscreen; battery; protective carrying case	



AT803

小型全方向指向性电容话筒



- 高集成结构，适合在教学、演唱、舞台、电视广播上使用。
- 提供优秀和不显眼的收音设计。
- UniSteep® - 高通滤波器，提供了一个高效能的高通滤波，把低频噪声作出衰减而无损话音的收音质量。
- 可以使用电池或幻象供电工作。

AT803 是为戴在表演者衣服上，在不妨碍外观，但有超卓收音效果而设计的微型电容话筒。全方向指向性收音，能有效地提高收音效果，不需特别注意话筒的位置，已能确保演讲者、歌唱家、舞台及电视演员提供高度清晰及准确的重播。

AT803 话筒需使用 11V 至 52V 幻象供电或 1.5V AA 电池工作，当使用幻象电源时，可以不安装电池。

安装电池时，打开供电模组顶部的电池盖，放入一枚新的 1.5V AA 电池（+ 极向电池盖打开键），再盖回电池盖。建议使用碱性电池，而长时间不使用时，请把电池取出。

供电模组的 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。

内置高质量 UniSteep® 高通滤波电路，可轻易由平直的频率响应，开启为于 80 Hz 以下衰减的收音效果，应高通滤波器可减低话筒在近距离讲话收音时的喷气声，并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。

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	全方向指向性
频率响应	30-20,000 Hz
高通滤波	80 Hz, 12 dB/octave
开通灵敏度	(幻象供电) -44 dB (6.3 mV) / (电池) -46 dB (5.0 mV) 以 1V 于 1 Pa
输出阻抗	(幻象供电/电池) 200 欧姆 / 270 欧姆
最大承受声压	(幻象供电/电池) 135 dB / 121 dB 声压， 1 kHz 于 1% T.H.D.
动态范围 (典型)	(幻象供电/电池) 107 dB / 93 dB, 1 kHz 于最高声压
讯噪比	66 dB, 1 kHz 于 1 Pa
电池种类	1.5V AA 型 5 号电池
耗电/电池寿命	0.4 mA / 1200 小时 (碱性电池)
幻像供电	直流 11 - 52V, 耗电 2mA 典型
开关	关闭 / 平直 / 高通滤波
重量	话筒 2.8 g 供电模组 139 g
外形尺寸	话筒 25.0 mm 长, 10.2 mm 直径 供电模组 84.0 mm 高, 63.0 mm 宽, 22.0 mm 厚
输出连接器	内置 XLRM-3 针卡农公头
连线	1.8 m - 长, 2.6 mm - 直径, 话筒固定连接, 2 蕊线连屏蔽电线, 以 TA3F 插头连接。
附属品	AT8531 供电模组; AT8417 领带夹; AT8116 防风棉; 电池; 保护袋

