

AT897

LINE + GRADIENT CONDENSER MICROPHONE



- Designed for video production and broadcast (ENG/EFP) audio acquisition
- Short length (279mm) ensures mic stays out of the shot - even when used with compact digital cameras
- Smooth, natural-sounding on-axis audio quality
- Provides the narrow acceptance angle desirable for long-distance sound pickup
- Excellent sound rejection from the sides and rear of mic
- Switchable low-frequency roll-off
- Operates on battery or phantom power

The AT897 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: Unscrew the lower section of the microphone body, just below the nameplate. Insert a fresh 1.5V AA battery in the handle compartment (“+” end up), then reassemble the microphone. Alkaline batteries are recommended for longest life. Remove the battery during long-term storage.

Output from the microphone’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 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.

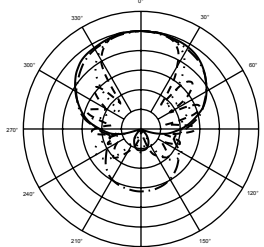
The microphone is RoHS compliant—free from all substances specified in the EU directive on hazardous substances.

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 + gradient
FREQUENCY RESPONSE	20-20,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 12 dB/octave
OPEN CIRCUIT SENSITIVITY (Phantom / Battery)	-40 dB (10.0 mV) re 1V at 1 Pa -41 dB (8.9 mV) re 1V at 1 Pa
IMPEDANCE (Phantom / Battery)	200 ohms / 300 ohms
MAXIMUM INPUT SOUND LEVEL (Phantom / Battery)	129 dB / 115 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC RANGE (typical) (Phantom / Battery)	112 dB / 98 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO	77 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	Flat, roll-off (recessed)
WEIGHT (less cable and accessories)	145 g
DIMENSIONS	279.0 mm long, 21.0 mm diameter
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
ACCESSORIES FURNISHED	AT8405a stand clamp for 5/8"-27 threaded stands; AT8134 foam windscreen; 5/8"-27 to 3/8"-16 threaded adapter; battery; protective carrying case

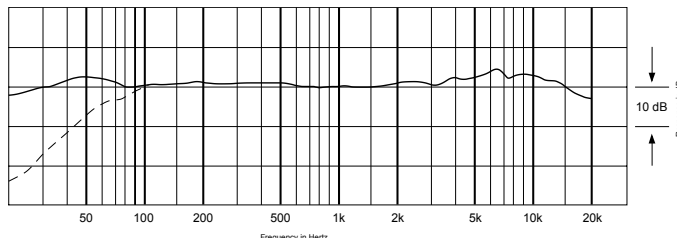
Polar Pattern



SCALE IS 5 DECIBELS PER DIVISION

LEGEND
200 Hz ———— 12" or more on axis
1 kHz ———— 12" or more on axis
5 kHz - - - - - Roll-off
8 kHz - - - - - Roll-off

Frequency Response



LEGEND ———— 12" or more on axis
- - - - - Roll-off



audio-technica[®]

Machida • Tokyo • Japan

AT897

超指向性电容话筒



- 专为影视制作和广播采访(ENG/EFP)的音频收音而设计。
- 较短的长度设计(279mm)，可安装于小型数字摄像机使用。
- 平滑、自然的收音效能，和优越的音频质量。
- 提供窄角度的超指向性能，给与远距离的收音效果。
- 由话筒两旁到后方均有极佳抗噪音能力。
- 设有高通滤波开关。
- 可以使用电池或幻象供电工作。

AT897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，旋开话筒底部的电池盖，确认电池的极性(跟随电池盒内的标记)，放入一枚新的1.5V AA电池('+'极向上)，再旋回电池盖。建议使用碱性电池，而长时间不使用时，请把电池取出。

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。

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。

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
频率响应	20-20,000 Hz
高通滤波	80 Hz, 12 dB/octave
开通灵敏度	(幻象供电) -40 dB (10.0 mV) / (电池) -41 dB (8.9 mV) 以 1V 于 1 Pa
输出阻抗	(幻象供电/电池) 200 欧姆 / 300 欧姆
最大承受声压	(幻象供电/电池) 129 dB / 115 dB 声压， 1 kHz 于 1% T.H.D.
动态范围 (典型)	(幻象供电/电池) 112 dB / 98 dB, 1 kHz 于最高声压
讯噪比	77 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)
幻象供电	直流 11 - 52V, 耗电 2mA 典型
开关	平直 / 高通滤波 (凹槽开关)
重量	145 g
外形尺寸	279.0 mm 长, 21.0 mm 直径
输出连接器	内置 XLRM-3针卡农公头
附属品	AT8405a 5/8"-27接头转轴式支架; AT8134 海棉防风罩; 5/8"-27至3/8"-16转接头; 电池; 保护袋

