

# MT830a / MT830cW

## SUBMINIATURE OMNIDIRECTIONAL CONDENSER MICROPHONE



- Maximum intelligibility and clean, accurate reproduction for lecturers, singers, stage and TV performers.
- Low-profile design is ideal for applications requiring minimum visibility.
- Includes a clothing clip and accessory windscreens.
- MT830a is switchable for low-frequency roll-off reduces sensitivity to popping in close vocal use.
- MT830a can be operated on battery or phantom power.
- MT830cW is terminated for use with all Audio-Technica UniPak™ wireless systems.

The MT830a / MT830cW is a subminiature condenser microphone intended to be worn on the clothing of performers for excellent yet unobtrusive sound pickup. The wide-range capability of the microphone ensures clean, accurate reproduction with high intelligibility for lecturers, singers, stage and TV performers, as well as musical instruments. Its small size makes the microphones ideal for use in applications where minimum visibility is required.

The microphone element is enclosed in a rugged housing with low-reflectance finish. Internal construction is designed to minimize handling and clothing noise. A 1.4m cable is provided between the microphone and terminal plug. A clothing clip and accessory windscreens are also provided.

### MT830a

Includes a power module AT8531 that 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.

An integral 80Hz 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.

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.

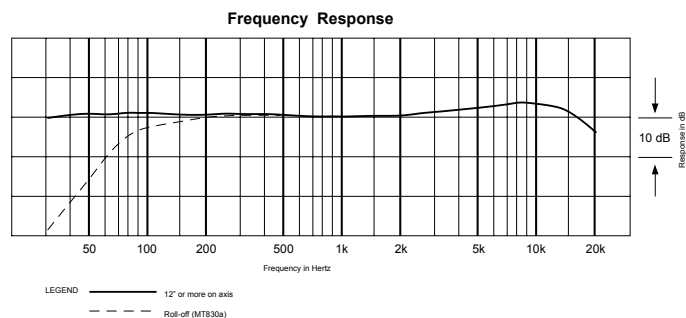
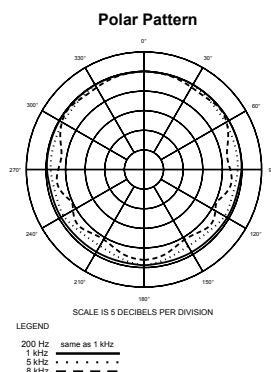
### MT830cW

Less power module and includes clothing clip and metal-frame pop filter only. 1.4 m cable terminated with locking 4-pin connector for Audio-Technica UniPak™ body-pack wireless transmitters.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 40°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
OPEN CIRCUIT SENSITIVITY	-34 dB (19.9 mV) re 1V at 1 Pa (MT830a)
IMPEDANCE	200 ohms (MT830a)
MAXIMUM INPUT SOUND LEVEL	131 dB SPL, 1 kHz at 1% T.H.D. (MT830a)
LOW FREQUENCY ROLL-OFF	80 Hz, 12 dB/octave (MT830a)
PHANTOM POWER REQUIREMENTS	11-52V DC, 2 mA typical (MT830a)
BATTERY TYPE	1.5V AA (MT830a)
BATTERY CURRENT / LIFE	2.0 mA / 1200 hours (MT830a)
SWITCHES	Flat, roll-off (MT830a)
WEIGHT (less cable and accessories)	
MICROPHONE	1.3 g
POWER MODULE (AT8531)	81.2 g
DIMENSIONS	
MICROPHONE	15.8 mm - L, 8.5 mm - W, 5.0 mm - thick
POWER MODULE (AT8531)	83.0 mm - H x 63.0 mm - W x 22.0 mm - D
OUTPUT CONNECTOR	
MT830a (AT8531)	Integral 3-pin XLRM-type
MT830cW	locking 4-pin connector for UniPak™
CABLE	1.4 m long (permanently attached to microphone), 2.5 mm diameter
ACCESSORIES FURNISHED	Clothing clip; Windscreens; protective pouch. AT8531 power module (MT830a)



# MT830a / MT830cW

## 全方向指向性微型电容话筒



- 高集成结构，清晰及准确的收音，可在教学、演唱、舞台、电视广播上使用。
- 小型及不显眼设计，合适于需要稳藏话筒的场合使用。
- 配有一领带夹和金属网防风罩。
- MT830a 设有高通滤波开关，可减低收音环境中低频噪声。
- MT830a 可使用幻象供电或电池供电工作。
- MT830cW 输出端可连接所有鐵三角无线系统的UniPak™盒式接收机使用。

MT830a / MT830cW 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。

话筒的元件封闭在一个坚固及低反光的外壳内，其内部构造设计得尽量减少碰撞时及衣服摩擦时的噪音。话筒提供一条长1.4m的音频线，此外还包括一个领带夹和附属的防风棉。

### MT830a

配有一个AT8531供电模组，需要提供11V至52V幻象供电或1.5V AA电池操作，当使用幻象电源操作时，可以不安装电池。

内置高通滤波电路，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，应用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。

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号引脚输出，而1号引脚则为地线(屏蔽)连接。输出相位将以正相位电平设于2号引脚上。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型式把引脚连接。

### MT830cW

不带供电模组，但提供领带夹和金属网防风罩，长1.4m音频线的输出端可连接所有鐵三角无线系统的UniPak™盒式接收机。

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
开通灵敏度	-34 dB (19.9 mV) 以 1V 于 1 Pa (MT830a)
输出阻抗	200 欧姆 (MT830a)
工作电压	131 dB SPL, 1 kHz 于 1% T.H.D (MT830a)
高通滤波	80 Hz, 12 dB/octave (MT830a)
幻象供电	直流 11-52V, 耗电 3.5 mA 典型 (MT830a)
电池	1.5V 5号电池 (MT830a)
耗电/电池寿命	2.0 mA / 1200 小时 (MT830a)

### 重量 (不带连线与配件)

话筒	1.3 克
供电模组 (AT8531)	81.2 克

### 外形尺寸

话筒	15.8 mm - 长, 8.5 mm - 宽, 5.0 mm - 厚
供电模组 (AT8531)	83.0 mm - 高, 63.0 mm - 宽, 22.0 mm - 厚

### 输出连接器

MT830a (AT8531)	内置 XLRM-3针卡农公头
MT830cW	UniPak™ 盒式发射机连接头

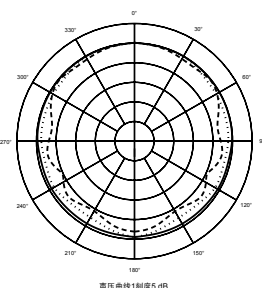
### 连线

1.4 m - 长, 2 mm - 直径, 话筒固定连接。

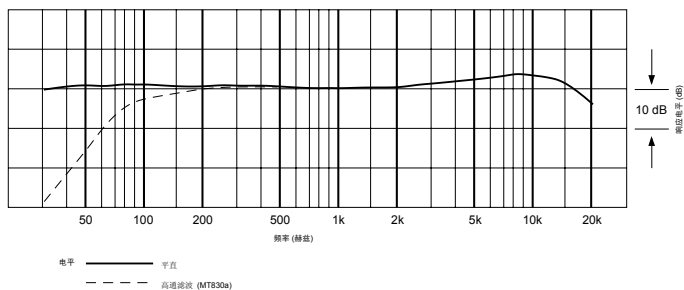
### 附属品

领带夹; 防风棉; 保護袋。  
AT8531 供电模组。(MT830a)

指向特性



频率特性



audio-technica®  
Machida • Tokyo • Japan

鐵三角®