



Thank you for purchasing this product. Before using the product, read through the user manual to ensure that you will use the product correctly. Please keep this manual for future reference.

## Features

- Maximum intelligibility and clean, accurate reproduction for lecturers, stage and television talent, and worship leaders
- Low-profile design is ideal for applications requiring minimum visibility
- Includes a wire clothing clip and a metal-frame pop filter
- MT828a and MT828R wired version's power module (AT8531 / AT8538) includes a high-pass filter that provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality
- The power module (AT8531) of MT828a can be operated on battery or phantom power
- Wireless version equipped with cW-style locking or cH-style screw-down 4-pin termination for Audio-Technica wireless systems

## Notes on use

MT828a wired version 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 output of the power module is a 3-pin XLRM-type connector.

MT828R wired version includes a power module AT8538 that requires 11V to 52V DC phantom power only. Also has an integral 80Hz high-pass filter for 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.

MT828cW and MT828cH wireless versions do not contain power module and includes clothing clip and metal-frame pop filter only. 1.6 m cable terminated with locking 4-pin connector. The connector is also compatible with Audio-Technica cW and cH type body-pack transmitters.

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.

## Safety precaution

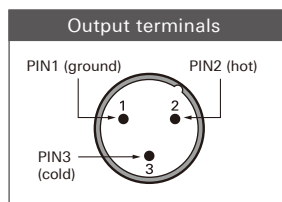
Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

## Cautions for the product

- Do not subject the product to strong impact to avoid malfunction.
- Do not disassemble, modify or attempt to repair the product.
- Do not handle the product with wet hands to avoid electric shock or injury.
- Do not store the product under direct sunlight, near heating devices or in a hot, humid or dusty place.

## Connection procedure

Connect the output terminals of AT8531 or AT8538 power module to a device that has a microphone input (balanced input) compatible with a phantom power supply. The output connector is an XLRM-type with polarity as shown in the figure below.



This product requires 48 V DC phantom power.

## Specifications

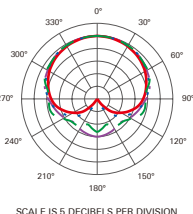
|                            |                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Element                    | Fixed-charge back plate, permanently polarized condenser                                                                                               |
| Polar pattern              | Cardioid                                                                                                                                               |
| Frequency response         | 100 - 12,000 Hz                                                                                                                                        |
| Low Frequency response     | 80 Hz, 12dB/octave (MT828a) / 80 Hz, 18dB/octave (MT828R)                                                                                              |
| Open circuit sensitivity   | -36 dB (15.8 mV) re 1V at 1 Pa (MT828a / MT828R)<br>-64 dB (0.63 mV) re 1V at 1 Pa (wireless only)                                                     |
| Impedance                  | 200 ohms (MT828a / MT828R)<br>1,600 ohms (wireless only)                                                                                               |
| Phantom power requirements | 11-52 V DC, 2 mA typical (MT828a / MT828R)                                                                                                             |
| Battery Type               | 1.5V AA (MT828a)                                                                                                                                       |
| Battery Current / Life     | 2.0 mA / 1200 hours (MT828a)                                                                                                                           |
| Switch                     | Flat, roll-off (MT828a / MT828R)                                                                                                                       |
| Current consumption        | 0.2 mA typical at 5V (wireless only)                                                                                                                   |
| Weight                     | Microphone, boom and earpiece: 1.3 g<br>Power module (AT8538): 81 g / (AT8531): 81.2 g                                                                 |
| Dimensions                 | Microphone: 19.4 mm long, 7.5 mm diameter<br>Power module (AT8538): 92.9 mm long, 18.9 mm diameter / (AT8531): 83.0 mm x 63.0 mm x 22.0 mm (H x W x D) |
| Output connector           | Integral 3-pin XLRM-type (MT828a / MT828R)                                                                                                             |
| Cable                      | 1.6 m long (permanently attached to microphone), 2.0 mm diameter, 2-conductor shielded cable (termination dependent)                                   |
| Included accessories       | Wire clothing clip; metal-frame pop filter; protective pouch; (wired only) - AT8531 power module (MT828a) / AT8538 power module (MT828R)               |

• 1 Pascal = 10 dynes/cm<sup>2</sup> = 10 microbars = 94 dB SPL

\* Typical, A-weighted, using Audio Precision System One.

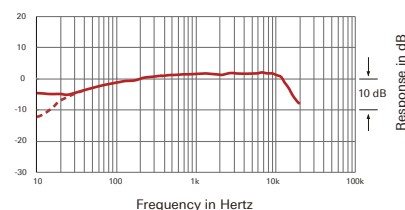
For product improvement, the product is subject to modification without notice.

## Polar pattern



| LEGEND |
|--------|
| 200 Hz |
| 1 kHz  |
| 5 kHz  |
| 8 kHz  |

## Frequency response



| LEGEND   |
|----------|
| 0°, 50cm |
| Roll-off |

## Cable Terminations

MT828cW – Terminated with locking 4-pin connector for use with A-T UniPak<sup>+</sup> body-pack transmitters



|             | Pin 1           | Pin 2           | Pin 3     | Pin 4          |
|-------------|-----------------|-----------------|-----------|----------------|
| Function    | Ground / Shield | Instrument      | Mic Audio | Blas + In      |
| Wire Colour | Copper Wire     | Jumper to Pin 1 | White     | 3.3kΩ to Pin 3 |

MT828cH – Terminated with locking 4-pin connector for use with A-T CH body-pack transmitters



|             | Pin 1           | Pin 2           | Pin 3     | Pin 4          |
|-------------|-----------------|-----------------|-----------|----------------|
| Function    | Ground / Shield | Instrument      | Mic Audio | Blas + In      |
| Wire Colour | Copper Wire     | Jumper to Pin 1 | White     | 3.3kΩ to Pin 3 |

MT828cT4 – Terminated using TA4F-type connector



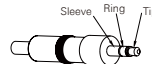
|             | Pin 1           | Pin 2          | Pin 3     | Pin 4           |
|-------------|-----------------|----------------|-----------|-----------------|
| Function    | Ground / Shield | Blas + In      | Mic Audio | Source Load     |
| Wire Colour | Copper Wire     | 3.3kΩ to Pin 3 | White     | Jumper to Pin 1 |

MT828cL4 – Terminated using Lemo<sup>®</sup> connector



|             | Pin 1 | Pin 2 | Pin 3                | Shell / Case    |
|-------------|-------|-------|----------------------|-----------------|
| Function    | N/C   | N/C   | Blas + In, Mic Audio | Ground / Shield |
| Wire Colour | Open  | Open  | White                | Copper Wire     |

MT828cLM3 – Terminated using locking 3.5 mm connector



|             | Sleeve          | Ring      | Tip           |
|-------------|-----------------|-----------|---------------|
| Function    | Ground / Shield | Mic Audio | Blas + In     |
| Wire Colour | Copper Wire     | White     | 2.2kΩ to Ring |

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感谢您购买本产品。在使用产品之前，请全文浏览本用户手册以确保您将正确地使用本产品。请妥善保管本手册，以供将来参考。

## 产品特点

- 高集成结构，清晰及准确的收音，可在教学、舞台、电视广播及宗教仪式上使用
- 小型及不显眼设计，收音头直径仅为7.3 mm，合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
- MT828a 和 MT828R 有线版本的电源模块(AT8531 / AT8538)设有高通滤波器，可提供陡峭的低频衰减，从而改善声音拾取，而不会影响语音质量
- MT828a 的电源模块 (AT8531) 可以使用电池或幻象电源供电工作
- 无线版本的锁固式4针话筒输出端子，可配套连接于有线供电模组，或所有鐵三角 Audio-Technica cW 或 cH 型的盒式无线发射机

## 使用注意事项

MT828a 有线版本配有一个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，供电模组的输出端为内置3针XLRM卡农公头。供电模组内置高通滤波电路，可轻易由平直的频率响应，模组的输出为3针XLRM型端子。

MT828R 有线版本配有一个AT8538供电模组，仅需要11V至52V直流幻象电源。并具有高通滤波电路，提供于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。

MT828cW 和 MT828cH 无线版本不带供电模组，但提供领带夹和金属网防风罩，长1.6米音频线输出，可配置于所有鐵三角Audio-Technica cW 或 cH 型的盒式无线发射机中。

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。

## 安全预防措施

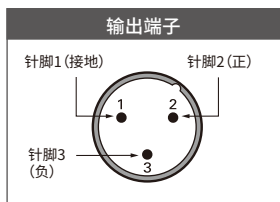
虽然本产品采用安全设计，但使用不当仍可能发生事故。为了确保安全，使用本产品时请注意全部警告和提醒。

## 本产品注意事项

- 切勿让本产品遭受强烈冲击，以避免发生故障。
- 切勿拆开、改装或尝试维修本产品。
- 切勿用湿手握持本产品，以免触电或受伤。
- 切勿将本产品存放在阳光直射的地方、加热装置附近或者炎热、潮湿或多尘的地方。

## 连接步骤

将AT8531/AT8538 供电模组的输出端子连接到具有兼容幻象电源的话筒输入（平衡输入）的设备。输出接口是 XLRM 型接口，其极性如下图所示。



本产品使用直流 48V 幻象电源。

## 规格

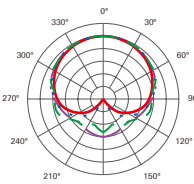
|             |                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------|
| 元件          | 固定充电背板，静电型电容式                                                                                                 |
| 指向性         | 心形指向性                                                                                                         |
| 频率响应        | 100 - 12,000 Hz                                                                                               |
| 高通滤波        | 80 Hz, 12dB/倍频 (MT828a) / 80 Hz, 18dB/倍频 (MT828R)                                                             |
| 开路灵敏度       | -36 dB (15.8mV) 以 1V / 1Pa (MT828a / MT828R)<br>-64 dB (0.63mV) 以 1V / 1Pa (无线型号)                             |
| 阻抗          | 200 欧姆 (MT828a / MT828R)<br>1,600 欧姆 (无线型号)                                                                   |
| 幻象供电        | 直流 11-52V, 2mA 典型 (MT828a / MT828R)                                                                           |
| 电池          | 1.5V 5号电池 (MT828a)                                                                                            |
| 耗电/电池寿命     | 2.0 mA / 1200 小时 (MT828a)                                                                                     |
| 开关          | 平直，高通滤波 (MT828a / MT828R)                                                                                     |
| 耗电          | 0.2 mA 典型于 5V (无线型号)                                                                                          |
| 重量          | 收音头(不含连线): 1.3 克<br>供电模组 (AT8538): 81 克 / (AT8531): 81.2 克                                                    |
| 尺寸          | 收音头: 长 19.4 mm, 直径 7.3 mm<br>供电模组 (AT8538): 长 92.9 mm, 外径 18.9 mm / (AT8531): 高 83.0 mm, 宽 63.0 mm, 厚 22.0 mm |
| 输出端子 (供电模组) | 内置式 3 针卡农公头                                                                                                   |
| 连接线         | 长 1.6 米 (固定连接于话筒), 直径 2.0 mm, 2芯屏蔽式连线并配置连接端子 (连接端子类型视乎不同型号)                                                   |
| 附带配件        | 领带夹; 金属网防风罩; 便携保护袋; (有线型号)- AT8531供电模组 (MT828a) AT8538供电模组 (MT828R)                                           |

1 帕 = 10 达因 / 平方厘米 = 10 微巴 = 94 dB SPL

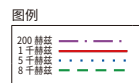
\*典型, A 计权, 使用 Audio Precision System One

因产品改进, 本产品会随时改装, 恕不另行通知。

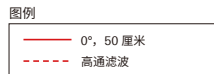
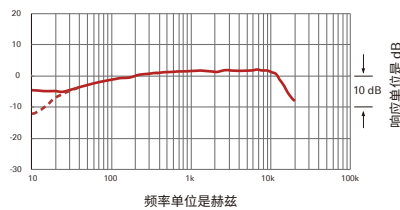
## 指向性



比例是每分贝 5 分贝



## 频率响应



## 接线端子

MT828cW - 以锁固式4式针端子，使用于鐵三角 A-T UniPak® 盒式无线发射机



| 针脚1  | 针脚2     | 针脚3      | 针脚4  |
|------|---------|----------|------|
| 功能   | 地线 / 屏蔽 | 乐器       | 话筒音频 |
| 导线颜色 | 裸铜线     | 与 针脚1 跳线 | 白色   |

MT828cH - 以锁固式4式针端子，使用于鐵三角 A-T CH型 盒式无线发射机



| 针脚1  | 针脚2     | 针脚3      | 针脚4  |
|------|---------|----------|------|
| 功能   | 地线 / 屏蔽 | 乐器       | 话筒音频 |
| 导线颜色 | 裸铜线     | 与 针脚1 跳线 | 白色   |

MT828cT4 - 以TA4F端子



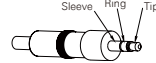
| 针脚1  | 针脚2     | 针脚3        | 针脚4  |
|------|---------|------------|------|
| 功能   | 地线 / 屏蔽 | 偏压+输入      | 话筒音频 |
| 导线颜色 | 裸铜线     | 接3.3kΩ至针脚3 | 白色   |

MT828cL4 - 以Lemo® 端子



| 针脚1  | 针脚2 | 针脚3         | 外壳      |
|------|-----|-------------|---------|
| 功能   | 空置  | 偏压+输入, 话筒音频 | 地线 / 屏蔽 |
| 导线颜色 | 不连接 | 白色          | 裸铜线     |

MT828cLM3 - 以锁固式3.5 mm端子



| Sleeve | Ring    | Tip  |
|--------|---------|------|
| 功能     | 地线 / 屏蔽 | 话筒音频 |
| 导线颜色   | 裸铜线     | 白色   |