User Manual

Subminature Cardioid Condenser Microphones AT898

audio-technica

BROADCAST & PRODUCTION MICROPHONES

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 (a mere 5 mm in diameter) is ideal for applications requiring minimum visibility
- Cardioid polar pattern improving isolation of desired sound source
- Includes an extensive array of accessories
- Switchable low-frequency roll-off reduces sensitivity to popping in close vocal use
- Operates on battery or phantom power

Notes on use

AT898 is designed to be worn as a lavalier or hidden in loose clothing. For use as a lavalier, attach the microphone about six inches 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 included single and double mic holders are interchangeable with all the bases. To change the holders, simply remove original holder and snap in the desired one. When using the AT898 in extremely close situations, slip the included open-pore foam windscreen over the mic to reduce wind noise or "popping."

CAUTION! To avoid possible injury, use caution when affixing the AT898 viper clip to clothing. The pins are sharp and may puncture skin. For best results, ensure that pin ends rest on outside of clothing.

The AT898 requires 11-52V 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 base of the power supply unit and insert one AA battery into the battery compartment, being certain to observe battery polarity as marked. Then simply screw the base shut. Alkaline batteries are recommended for longest life. Remove the battery during long-term storage.

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

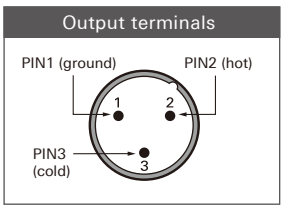
Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

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 AT8537 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

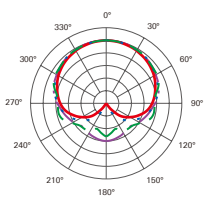
Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Cardioid
Frequency response	200 - 15,000 Hz
Low Frequency Roll-off	80 Hz, 12 dB/octave
Open circuit sensitivity	Phantom : -43 dB (7.0 mV) re 1V at 1 Pa Battery : -46 dB (5.0 mV) re 1V at 1 Pa
Impedance	Phantom : 200 ohms Battery : 250 ohms
Maximum input sound level	Phantom : 131 dB SPL, 1 kHz at 1% T.H.D. Battery : 115 dB SPL, 1 kHz at 1% T.H.D.
Dynamic range (typical)	Phantom : 100 dB, 1 kHz at Max SPL Battery : 84 dB, 1 kHz at Max SPL
Signal-to-noise ratio	63 dB, 1 kHz at 1 Pa
Phantom Power Requirements	11-52V DC, 2 mA typical
Battery Type	1.5V AA/UM3
Battery Current / Life	2.0 mA / 1200 hours typical (alkaline)
Switch	Flat, roll-off (recessed)
Weight	Microphone - 0.9 g / Power Module - 102 g
Dimensions	Microphone - 23.0 mm long, 5.3 mm diameter Power Module - 145.0 mm long, 21.0 mm diameter
Output connector	Integral 3-pin XLRM-type
Cable	3.0 m long (permanently attached to microphone), 2.0 mm diameter, 2-conductor, shielded cable with TA3F output connector
Included accessories	AT8537 power module; AT8439 cable clip; clothing clip base; viper clip base; magnet clip base and plate with lanyard; three single mic holders; two double mic holders; two windscreens; battery; protective carrying case

• 1 Pascal = 10 dynes/cm^2 = 10 microbars = 94 dB SPL

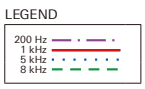
* Typical, A-weighted, using Audio Precision System One.

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

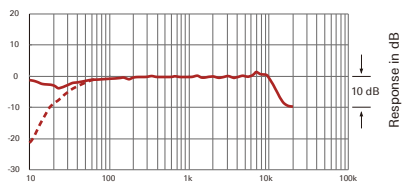
Polar pattern



SCALE IS 5 DECIBELS PER DIVISION



Frequency response



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用户手册

BROADCAST & PRODUCTION MICROPHONES

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。请妥善保存本手册，以供将来参考。

■产品特点

- 清晰的话音质量，对应用在教学、舞台及电视演出等能有准确的重播。
- 超小型的不显眼设计(约5mm外径)，适合于需要隐藏话筒的应用上。
- 心形指向性收音，能有效减低旁边及后方的杂声干扰
- 配置有多款不同的佩戴附件
- 设有高通滤波开关，能把低频噪声作出衰减而无损话音的收音质量
- 可使用电池或幻象供电操作

■使用注意事项

AT898是为戴在表演者衣服、领带上，在不防碍外观，但有超卓收音效果而设计的超小型电容话筒。佩戴在领带时，请注意把话筒夹持于颈下约150mm的位置。而为避免衣服碰到话筒时产生的噪音，请注意话筒夹持的位置不要接触到其他衣服。

附属的单独和双话筒支架可和配套更换于所有底座上，可简单地把支架除下，再更换到另一个需要的底座中。为减低AT898话筒在近距离讲话收音时的喷气声，请使用附属的防风棉罩，这并可减低收音环境中的风噪声。

注音！为避免受伤，当把AT898话筒的夹子配戴在衣服上时，请小心锋利的别针刺伤皮肤。最佳的使用是保证别针的结尾置于衣服外面。

AT898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1.5VAA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。

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

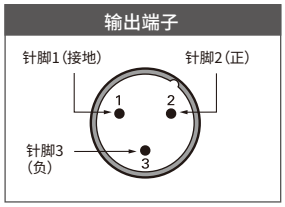
虽然本产品采用安全设计，但使用不当仍可能发生事故。为了确保安全，使用本产品时请注意全部警告和提醒。

■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AT8537 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。



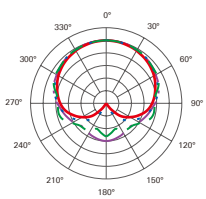
本产品使用直流 48V 幻象电源。

■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	200 - 15,000 Hz
高通滤波	80 Hz，12 dB/octave
开路灵敏度	-43 dB（7.0mV) 以 1V 于 1Pa (幻象供电) -46 dB（5.0mV) 以 1V 于 1Pa (电池)
输出阻抗	200 欧姆 (幻象供电) 250 欧姆 (电池)
最大承受声压	131 dB 声压, 1 kHz 于 1% T.H.D. (幻象供电) 115 dB 声压, 1 kHz 于 1% T.H.D. (电池)
动态范围 (典型)	100 dB, 1 kHz 于最高声压 (幻象供电) 84 dB, 1 kHz 于最高声压 (电池)
信噪比	63 dB, 1 kHz 于 1 Pa
幻象供电	直流 11-52V，2mA 典型
电池	1.5V AA型 5号电池
耗电/电池寿命	2.0 mA / 1200小时 (碱性电池)
开关	平直，高通滤波
重量	收音头 - 0.9 克 / 供电模组 - 102 克
尺寸	收音头: 直径 5.3 mm, 长 23.0 mm 供电模组: 直径 21.0 mm, 长 145.0 mm
输出端子 (供电模组)	内置式 3 针卡农公头
连接线	长 3.0 米 (固定连接于话筒), 直径 2.0 mm , 2芯屏蔽式连线并配置 TA3F 连接端子
附带配件	AT8537 供电模组；AT8539 连线别针； 衣服别针底座；蛇型别针底座； 磁性别针底座和金属片连索带；3个单话筒支架； 2个双话筒支架；2个收音头保护盖；保护袋

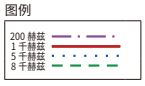
• 1 帕＝ 10 达因 / 平方厘米＝ 10 微巴＝ 94 dB SPL
*典型，A 计权，使用 Audio Precision System One
因产品改进，本产品会随时改装，恕不另行通知。

■指向性

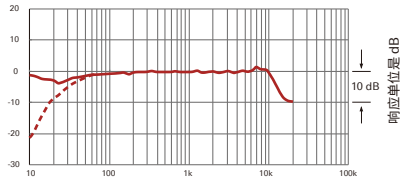


比例是每分隔线 5 分贝

图例

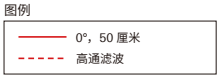


■频率响应



频率单位是赫兹

图例



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