User Manual

Cardioid Condenser Handheld Microphone AE5400

audio-technica

ARTIST ELITE™

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

- Same element as the renowned AT4050 studio condenser
- Condenser element gives pristine natural sound quality
- Hardened steel body and grille for rugged durability
- Cardioid polar pattern gives improved sound isolation
- Multi-stage grille for reduced plosives and sibilance
- Integral 80 Hz HPF switch and 10 dB pad
- Ergonomic design for easy handling

Notes on use

Offering exceptional sound quality, the AE5400 uses the same condenser element as the classic AT4050 studio microphone. This large diaphragm element ensures an accurate, natural response. With a 80 Hz HPF switch and 10 dB pad, the sound can be perfectly tailored to suit your voice. With a hardened steel body and grille and multi-stage internal windshield, the AE5400 is rugged and durable, with exceptionally low handling noise and protection against plosives and sibilance, making it a fantastic on stage microphone.

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.

When using the AE540 in settings with a stage monitor speaker, the speaker should be located 180° off axis (at rear of the microphone). This placement, in conjunction with the microphone's uniform cardioid pickup pattern, will virtually eliminate the possibility of undesired audio feedback.

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

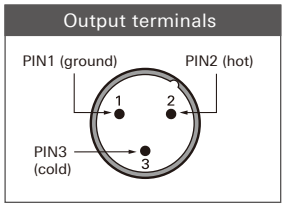
Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

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 the microphone 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.



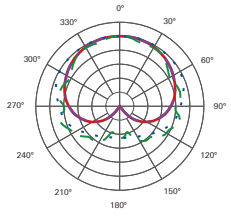
This product requires 48 V DC phantom power.

Specifications

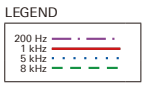
Element	Externally polarized (DC Bias) condenser
Polar pattern	Cardioid
Frequency response	20 - 20,000 Hz
Low Frequency response	80 Hz, 12 dB/octave
Open circuit sensitivity	-40 dB (10.0 mV) re 1V at 1 Pa
Impedance	150 ohms
Maximum input sound level	147 dB SPL, 1 kHz at 1% T.H.D. 157 dB SPL, with 10 dB pad (normal)
Noise	14 dB SPL
Dynamic range (typical)	133 dB, 1 kHz at Max SPL
Signal-to-noise ratio	80 dB, 1 kHz at 1 Pa
Phantom power requirements	11-52 V DC, 3 mA typical
Switch	High-pass filter, 10 dB pad (normal)
Weight (less accessories)	330 g
Dimensions	179.0 mm long, 50.0 mm head diameter, 33.0 mm to 22.0 mm tapered body diameter
Output connector	Integral 3-pin XLRM-type
Included accessories	AT8470 Quiet-Flex stand clamp for 5/8"-27 threaded stands; soft protective pouch

• 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.

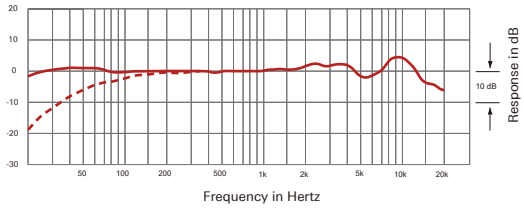
Polar pattern



SCALE IS 5 DECIBELS PER DIVISION



Frequency response



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11-DEC--2020 Form No.ATGC-L0389-20

用户手册

ARTIST ELITE™

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

- 与著名的 AT4050 录音棚话筒使用相同的收音元件
- 电容元件能提供原有的自然音色
- 强化的钢制主体和保护网格栅，坚固耐用
- 心形指向性设计，能提高收音目标的隔离度
- 多层式保护网格栅，减少爆破音和噪音干扰
- 内置 80Hz 高通滤波器及 10dB 衰减
- 人体工程学设计，易于手持

■使用注意事项

AE5400提供卓越的音质，与经典的AT4050录音棚话筒采用相同的电容收音元件，这大型振膜元件可确保有准确、自然的响应。藉着 80Hz 高通滤波器及 10dB 衰减，能更好地定制声音以适合收音需要。AE5400具有强化的钢制机体和保护网格栅以及多层式内部挡风棉，坚固耐用，能防止破声，并具有更低的手持噪声，使其成为舞台话筒的理想之选。

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。

在设置有监听音箱的舞台中使用 AE5400 时，音箱应位于话筒偏离轴180°的位置（即话筒的后方）。这种放置方式与话筒的心形指向收音方式相结合，能在无形中消除不希望有的音频反馈声。

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

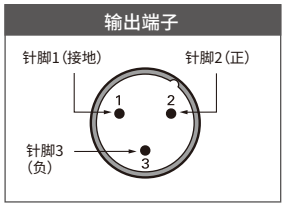
虽然本产品采用安全设计，但使用不当仍可能发生事故。为了确保安全，使用本产品时请注意全部警告和提醒。

■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

将话筒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。



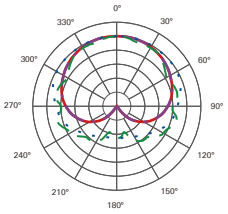
本产品使用直流 48V 幻象电源。

■规格

元件	直流偏压型大振动膜电容膜片
指向性	心形指向性
频率响应	20 - 20,000 Hz
高通滤波	80 Hz，12 dB/octave
开路灵敏度	-40 dB（10.0mV) 以 1V 于 1Pa
输出阻抗	150 欧姆
最大承受声压	147 dB 声压, 1 kHz 于 1% T.H.D. 157 dB 声压, 于 10 dB 衰减 (正常)
噪声	14 dB 声压
动态范围 (典型)	133 dB, 1 kHz 于最高声压
信噪比	80 dB, 1 kHz 于 1 Pa
幻象供电	直流 11-52V，3mA 典型
开关	低截滤波，10 dB 衰减
重量 (不含配件)	330 克
尺寸	长度 179.0 mm, 保护网直径 50.0 mm 锥形话筒身直径 33.0 mm 至 22.0 mm
输出端子	内置式 3 针卡农公头
附带配件	AT8470 Quiet-Flex 防震式 5/8"-27 接头话筒夹; 保護袋

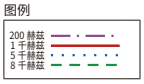
• 1 帕＝ 10 达因 / 平方厘米＝ 10 微巴＝ 94 dB SPL
*典型，A 计权，使用 Audio Precision System One
因产品改进，本产品会随时改装，恕不另行通知。

■指向性

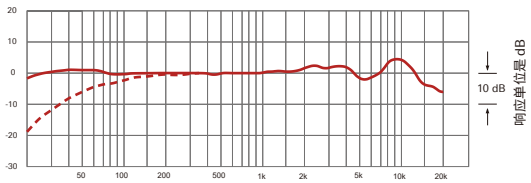


比例是每分隔线 5 分贝

图例

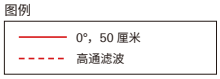


■频率响应



频率单位是赫兹

图例



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