



User Manual

Hypercardioid Dynamic Handheld Microphone AE6100

audio-technica



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

- Dynamic element gives pristine natural sound quality
- Tailored for an outstanding on-axis response
- Hardened steel body and grille for rugged durability
- High output, fast transients and clean articulation
- Multi-stage grille for reduced plosives and sibilance
- Superior anti-shock engineering for low handling noise
- Ergonomic design for easy handling
- Quiet-Flex stand clamp included for silent, flexible mic positioning

Notes on use

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. For a high-impedance (Hi-Z) mic input, connect a Lo-Z balanced cable to a Hi-Z matching transformer (A-T CP8201 or equal) at the equipment input.

When using the AE6100 in settings with a stage monitor speaker, the speaker should be located 135° off axis (45° off the rear of the microphone). This placement, in conjunction with the microphone's uniform hypercardioid pickup pattern, will virtually eliminate the possibility of undesired audio feedback.

The high sensitivity of the AE6100 assures useful output and an excellent match to most input sources. In some cases, however, an attenuator such as the Audio-Technica AT8202 may be required between the microphone and preamplifier to avoid overloading sensitive input stages.

Take care to keep foreign particles from entering the windscreen. An accumulation of iron or steel filings on the diaphragm, and/or foreign material in the windscreen's mesh surface, can degrade performance.

Safety precaution

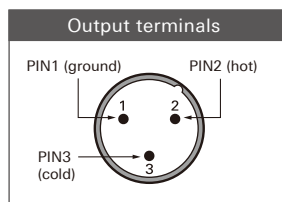
Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

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). The output connector is an XLRM-type with polarity as shown in the figure below.



Specifications

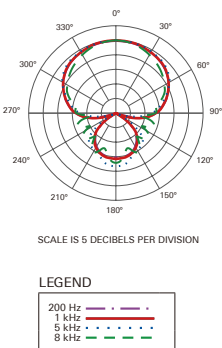
Element	Dynamic
Polar pattern	Hypercardioid
Frequency response	60 - 15,000 Hz
Open circuit sensitivity	-55 dB (1.7 mV) re 1V at 1 Pa
Impedance	250 ohms
Weight	310 g
Dimensions	177.0 mm long, 48.0 mm head diameter, 33.0 mm to 22.0 mm tapered body diameter
Output connector	Integral 3-pin XLRM-type
Accessories furnished	AT8470 Quiet-Flex stand clamp for 5/8"-27 threaded stands; 5/8"-27 to 3/8"-16 threaded adapter; soft protective pouch

• 1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

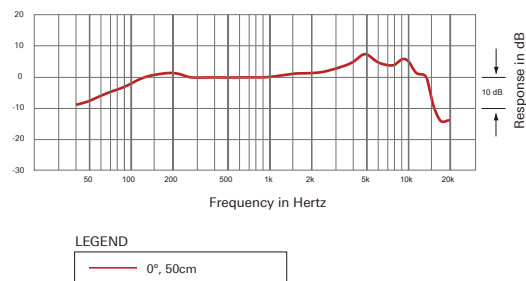
* Typical, A-weighted, using Audio Precision System One.

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

Polar pattern



Frequency response





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

- 动圈收音元件获得更自然的音色
- 提供出色的同轴响应
- 强化的钢制外壳和保护网，坚固耐用
- 高输出、快速瞬变和清晰的衔接性
- 多层式格栅结构，减少破声和噪音
- 出色的防震结构以确保更低的手持噪声
- 以人体工学设计，易于握持
- 配有 Quiet-Flex 话筒夹，可实现宁静、灵活的收音定位

使用注意事项

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。如连接高阻抗的话筒输入，请配套阻抗匹配变压器 AT8201。

在设置有监听音箱的舞台中使用 AE6100 时，音箱应位于话筒偏离轴135°的位置（即话筒的后方45°）。这种放置方式与话筒的超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。

AE6100 提供高灵敏度的收音效能，可确保能接收到最大的音源。而在某些情况下，为避免发生超负载输入而出现破声情况，需要在话筒和前置放大器之间加入AT8202等的电平衰减器。

小心不要把金属碎或铁屑掉进防风罩内，铁屑会吸进收音头磁铁中，或贴在防风罩内，将会影响及减低收音效果。

安全预防措施

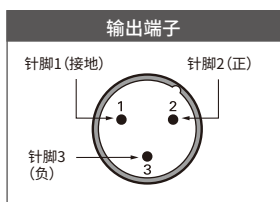
虽然本产品采用安全设计，但使用不当仍可能发生事故。为了确保安全，使用本产品时请注意全部警告和提醒。

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。



规格

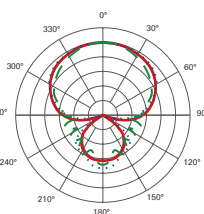
元件	动圈式
指向性	超心形指向性
频率响应	60 - 15,000 Hz
开路灵敏度	-55 dB (1.7mV) 以 1V 于 1Pa
输出阻抗	250 欧姆
重量	310 克
尺寸	长度 177.0 mm, 保护网直径 48.0 mm 锥形话筒身直径 33.0 mm 至 22.0 mm
输出端子	内置式 3 针卡农公头
附带配件	AT8470 Quiet-Flex 防震式 5/8"-27 接头话筒夹; 5/8"-27 至 3/8"-16 转接头、 保護袋

• 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

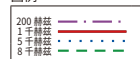
因产品改进, 本产品会随时改装, 恕不另行通知。

指向性

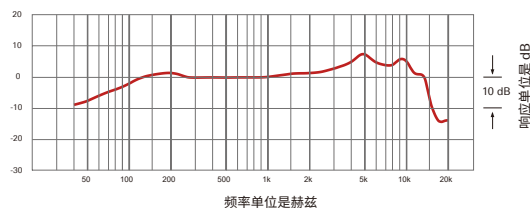


比例是每分隔线 5 分贝

图例



频率响应



图例

— 0°, 50 厘米