

ATM510

ARTIST SERIES™

CARDIOID DYNAMIC HANDHELD MICROPHONE



SPECIFICATIONS

ELEMENT	Dynamic
POLAR PATTERN	Cardioid
FREQUENCY RESPONSE	90-16,000 Hz
OPEN CIRCUIT SENSITIVITY	-55 dB (1.7 mV) re 1V at 1 Pa
IMPEDANCE	300 ohms
WEIGHT (less cable and accessories)	258 g
DIMENSIONS	170.0 mm - long, 53.7 mm - diameter
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
ACCESSORIES FURNISHED	AT8470 Quiet-Flex™ stand clamp for 5/8"-27 threaded stand; 5/8"-27 to 3/8"-16 threaded adapter; Soft protective pouch

- Natural, full-range vocal reproduction
- Superior anti-shock engineering ensures low handling noise and quiet performance
- Hi-ENERGY® neodymium magnet for improved output and transient response
- Excellent off-axis rejection for minimum feedback
- Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source
- Multi-stage windscreen effectively controls popping, distortion from sibilant sounds and wind noise
- Rugged, all-metal design and construction for years of trouble-free use
- Corrosion-resistant contacts from gold-plated XLRM-type connector
- Quiet-Flex™ stand clamp provides silent, flexible microphone positioning

The ATM510 is a dynamic microphone with a cardioid polar pattern. It is designed specifically for close-up vocal use in professional live-sound applications.

The cardioid polar pattern of the microphone is more sensitive to sound originating directly in front of the element, making it useful for controlling feedback, reducing pickup of unwanted sounds and providing isolation between performers.

The output of the microphone is a 3-pin XLRM-type connector.

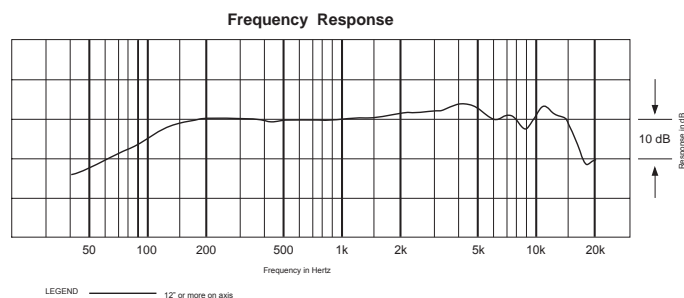
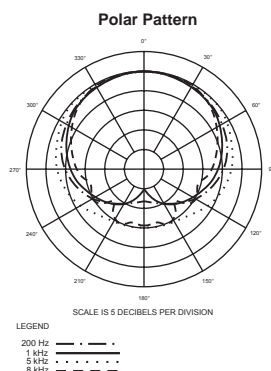
The microphone is enclosed in a rugged housing. Its multi-stage windscreen effectively controls popping, distortion from sibilant sounds and wind noise. The included AT8470 Quiet-Flex™ stand clamp permits mounting on any microphone stand with 5/8"-27 threads. A soft protective pouch is also included.

Output 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 ATM510 in settings with a stage monitor speaker, the speaker should be located 180° off axis (at the 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.

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.



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心形指向性动圈式手持话筒



- 自然，全面性的收音及语音重现。
- 优越的防震结构，确保有较低的手持噪音和静音性能。
- **Hi-ENERGY®** 高能量钕硼磁铁，提供更大输出及音质透明度。
- 出色的防回声特性，适合在舞台上使用。
- 心形指向性设计，减低旁边及后方的噪声干扰，提高收音目标的隔离度。。
- 多层音头保护网结构，能加强收录爆破声时的保护，又不会影响高音的收音质量。
- 全金属结构，坚固、耐用、可长期使用。
- 抗腐蚀的镀金XLRM卡农输出头。
- **Quiet-Flex™** 话筒夹，提供防震、静音的保护，并可调校话筒位置。

ATM510为心形指向性动圈话筒，专用于现场声乐及语音的专业收音而设计。

话筒的心形收音指向特性，对收音头前方的目标声源有更高的灵敏度，而能够减低旁边杂声的干扰，并对反馈回声有更好的控制。

话筒的输出端为内置3针XLRM卡农公头。

话筒封装于坚固的机壳内，附设有 **AT8470 Quiet-Flex™** 话筒夹，可把话筒安装于任何 $\frac{5}{8}$ "-27接环的话筒架上，并提供一个防风海绵罩，一个便携袋及保护盒。

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。

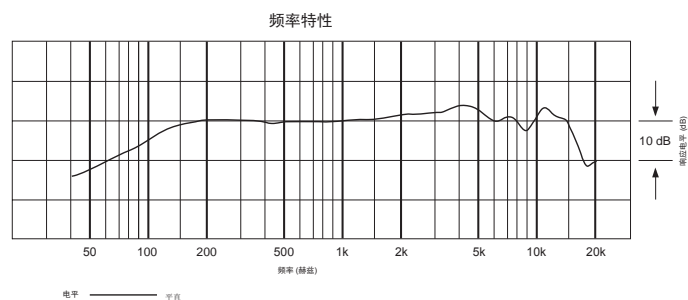
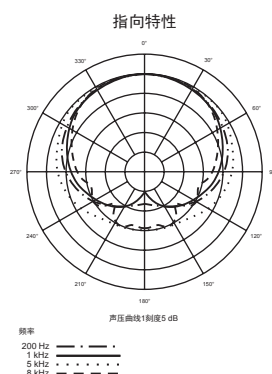
为避免出现相位相互抵消而失真的情况，所有话筒连接时，接线必需以1-1, 2-2, 3-3型式把针脚连接。如连接高阻抗的话筒输入，请配套阻抗匹配变压器**AT8201**。

当**ATM510**话筒及现场监听音箱同时使用时，需要把音箱放置于话筒的180°正后方。在这位置上，由于话筒的心形指向性设计，可减低出现反馈回声的情况。

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。

技术指标

收音头	动圈式
指向特性	心形指向性
频率响应	90-16,000 Hz
开通灵敏度	-55 dB (1.7 mV) 以 1V 于 1 Pa
输出阻抗	300 欧姆
重量(不带连线与配件)	258 克
外形尺寸	170.0 mm - 长度, 53.7 mm - 直径
输出连接器	内置 XLRM-3针卡农公头
附属品	AT8470 Quiet-Flex™ - $\frac{5}{8}$ "-27接头 话筒夹， $\frac{5}{8}$ "-27至 $\frac{3}{8}$ "-16转接头，保护袋。



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