ATM710

ARTIST SERIES™

CARDIOID CONDENSER VOCAL MICROPHONE

- Tailored for exacting detail, high-fidelity vocal reproduction with maximum impact and intelligibility.

- Excels in venues with controlled stage volume or in-ear monitoring.

- Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source.

- Durable performance for professional applications.

- Superior anti-shock engineering for low handling noise.

- Multi-stage grille design offers excellent protection against plosives and sibilance without compromising high-frequency clarity.

- Condenser design for studio-quality performance.

- Integral 80Hz HPF switch and 10 dB pad.

- Corrosion-resistant contacts from gold-plated XLRM-type connector.

- Rugged, all-metal design and construction for years of trouble-free use.

The ATM710 is intended for use in professional applications where remote power is available. It required 11V to 52V DC phantom power, which may be provided by a mixer or console, or by a separate, in-line source such as the Audio-Technica AT8801 single-channel or AT8506 four-channel phantom power supplies.

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.

When using the ATM710 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.

An integral 80Hz hi-pass filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the microphone's sensitivity to popping in close vocal use. It also reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

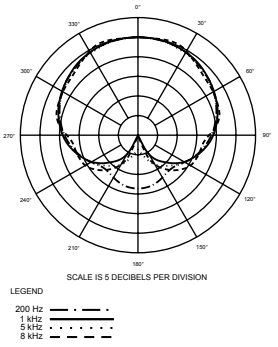
The ATM710 is also equipped with a switchable 10 dB pad that lowers the microphones's sensitivity, thus providing higher SPL capability for flexible use with a wide range of performers and system configurations.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 40°C for extended periods. Extremely high humidity should also be avoided.

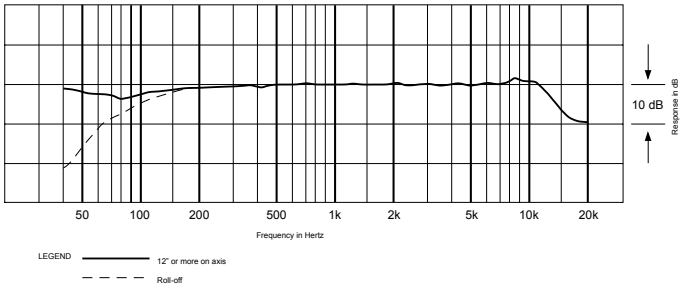
SPECIFICATIONS

ELEMENT	Fixed-change back plate permanently polarized condenser
POLAR PATTERN	Cardioid
FREQUENCY RESPONSE	40-20,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 12 dB/octave
OPEN CIRCUIT SENSITIVITY	-40 dB (10.0 mV) re 1V at 1 Pa
IMPEDANCE	200 ohms
MAXIMUM INPUT SOUND LEVEL	148 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC RANGE (typical)	127 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO	73 dB, 1 kHz at 1 Pa
PHANTOM POWER REQUIREMENTS	11-52V DC, 3.5 mA typical
SWITCHES	Flat, roll-off; 10 dB pad
WEIGHT	274 g
DIMENSIONS	179.0 mm - long, 50.0 mm - diameter
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
ACCESSORIES FURNISHED	AT8470 Quiet-Flex™ stand clamp for ⅝"-27 threaded stand; ⅝"-27 to ⅜"-16 threaded adapter; Soft protective pouch

Polar Pattern



Frequency Response



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ATM710

ARTIST SERIES™

心形指向性电容式话音话筒

- 专为极高要求及高保真的人声话音收音而开发，提供最清晰及卓越的表现。
- 擅长在舞台上有音量控制或耳机监听的应用。
- 心形指向性收音，能有效减低旁边及后方的杂声干扰。
- 专业应用性的耐用表现。
- 优秀的抗震结构，能有效减低手持噪声。
- 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。
- 专业录音质量的电容收音头设计。
- 内置80Hz高通滤波器及10dB衰减。
- 抗腐蚀的镀金XLRM卡农输出头。
- 全金属结构，坚固、耐用、可长期使用。

ATM710应用于专业收音工作，需要提供11V至52V幻象供电，可使用调音台上的幻象电源，也可以使用鐵三角的AT8801单通道或AT8506四通道幻象电源供电器作独立供电。

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。

当ATM710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。

内置高通滤波电路，可轻易由平直的频率响应，开启为于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声(如外间汽车引擎声，空调系统的风声等)，房间中的回声及机械性的震动声。

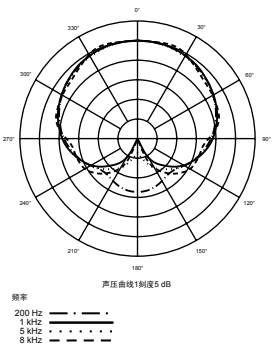
话筒并设有10dB衰减开关，在高声压环境收音时，减低话筒的灵敏度，避免破声的失真现象出现。

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。

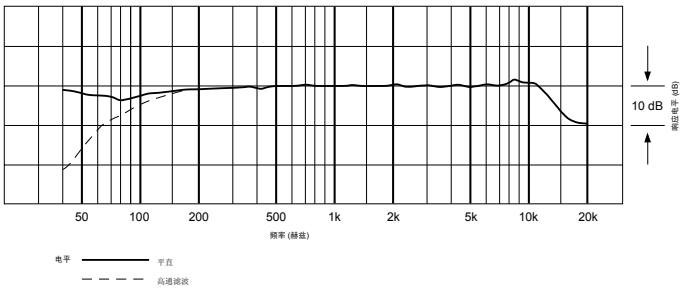
技术指标

收音头	固定充电背板，静电型电容式
指向特性	心形指向性
频率响应	40-20,000 Hz
高通滤波	80 Hz, 12 dB/octave
开通灵敏度	-40 dB (10.0 mV) 以 1V 于 1 Pa
输出阻抗	200 欧姆
最大承受声压	148 dB 声压, 1 kHz 于 1% T.H.D.
动态范围（典型）	127 dB, 1 kHz 于最高声压
讯噪比	73 dB, 1 kHz 于 1 Pa
幻象供电	直流 11-52V, 耗电 3.5 mA 典型
开关	高通滤波；10 dB 衰减
重量(不带连线与配件)	274 克
外形尺寸	179.0 mm - 长度, 50.0 mm - 直径
输出连接器	内置 XLRM-3针卡农公头
附属品	AT8470 Quiet-Flex™ - ⅝”-27接头话筒夹， ⅝”-27至⅜”-16转接头，保護袋。

指向特性



频率特性



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