

AT2020

Cardioid Condenser Microphone



Specifications

Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Cardioid
Frequency response	20-20,000 Hz
Open circuit sensitivity	-37 dB (14.1 mV) re 1V at 1 Pa
Impedance	100 ohms
Maximum input sound level	144 dB SPL, 1 kHz at 1% T.H.D.
Noise	20 dB SPL
Dynamic range (typical)	124 dB, 1 kHz at Max SPL
Signal-to-noise ratio	74 dB, 1 kHz at 1 Pa
Phantom power requirements	48V DC, 2 mA typical
Weight (less accessories)	345 g
Dimensions	162.0 mm - long, 52.0 mm - maximum body diameter
Output connector	Integral 3-pin XLRM-type
Accessories furnished	Stand mount for 5/8"-27 threaded stand; 5/8"-27 to 3/8"-16 threaded adapter; Soft protective pouch

Features

- The price/performance standard in side-address studio condenser microphone technology.
- Ideal for project/home-studio applications.
- High SPL handling and wide dynamic range provide unmatched versatility.
- Custom-engineered 16 mm low-mass diaphragm provides extended frequency response and superior transient response.
- Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source.
- Pivoting, threaded stand mount attaches securely for easy and precise placement of the microphone.

Description

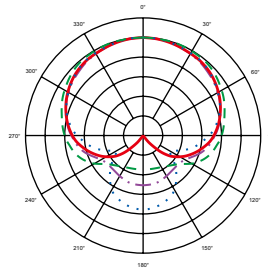
The AT2020 is intended for use in applications where remote power is available. It requires 48V DC phantom power, which may be provided by a mixer or console, or by a separate, in-line source such as the Audio-Technica AT8801 single-channel and AT8506 four-channel phantom power supplies.

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.

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.

polar pattern



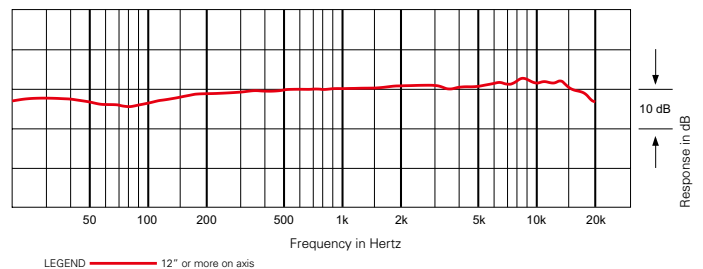
LEGEND
200 Hz
1 kHz
5 kHz
8 kHz

Optional Accessories:

AT8506 four-channel 48V phantom power supply (AC powered).

AT8801/EU single-channel 48V phantom power supply (AC powered).

frequency response



audio-technica
Machida • Tokyo • Japan

FORM No. ATGC-L0017-06-E

AT2020

心形指向性电容话筒

20 SERIES



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	20-20,000 Hz
开通灵敏度	-37 dB (14.1 mV) 以 1V 于 1 Pa
输出阻抗	100 欧姆
最大输入声压	144 dB 声压, 1 kHz 于 1% T.H.D.
噪声	20 dB 声压
动态范围(典型)	124 dB, 1 kHz 于最高声压
讯噪比	74 dB, 1V 于 1 Pa
幻象供电	直流 48V, 耗电 2 mA 典型
重量	345 克
外形尺寸	162.0 mm - 长度, 52.0 mm - 最大直径
输出连接器	内置 XLRM-3 针卡农公头
附属品	5/8" -27 接头转轴式支架套环, 5/8" -27至3/8" -16转接头, 保护袋。

特性

- 高性价比及能够提供高质量的工作室话筒音质。
- 是作为项目或家居工作室的理想选择。
- 能提供更大的动态范围外, 亦可处理较高的声压电平。
- 以特别设计而采用的16mm小振膜, 提供更宽的频率响应。
- 心形指向性收音设计, 能减低旁边及后方的噪声干扰, 提供更好的隔离。
- 配置有转轴式支架套环, 可以精确及安全地摆放话筒。

说明

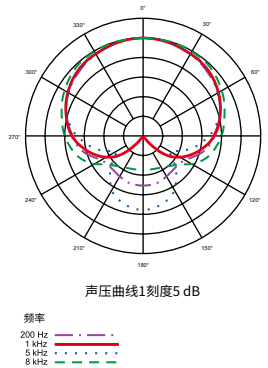
AT2020需要使用48V幻象供电工作, 可使用调音台上的幻象电源, 也可以使用鐵三角的AT8801单通道或AT8506四通道幻象电源供电作独立供电。

低阻抗的平衡音频输出, 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。

为濶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。

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。

指向特性



选择配件:

AT8506 四通48V幻象供电 (交流供电)。

AT8801/EU 单通道48V幻象供电 (交流供电)。

频率特性

