

U841A

unipoint®

OMNIDIRECTIONAL CONDENSER BOUNDARY MICROPHONE



- Designed for surface-mount applications such as high-quality sound reinforcement, professional recording, television, conferencing and other demanding sound pickup situations.
- UniGuard™ RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI).
- UniSteep® filter provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality.

- Small-diameter UniPoint capsule near boundary eliminates phase distortion and delivers clear, high-output performance.
- Heavy die-cast case and silicon foam bottom pads minimize coupling of surface vibration to the microphone.
- Low-profile design with low-reflectance black finish for minimum visibility.
- Operates on battery or phantom power.

The U841A requires 11V to 52V DC phantom power or a 1.5V AA battery for operation. A battery need not be in place for phantom power operation.

Alkaline batteries are recommended for longest life. Remove the battery during long-term storage.

The microphone should be placed on a flat, unobstructed mounting surface. The sound source should not be below the plane of the mounting surface.

Output from the power module'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.

At integral 80 Hz high-pass UniSteep® filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

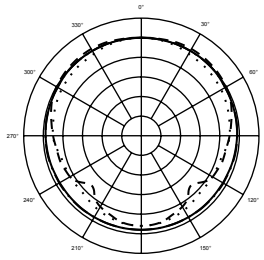
Avoid leaving the microphone in the open sun or in areas where temperatures exceed 43°C for extended periods. Extremely high humidity should also be avoided.

NOTE: Audio-Technica has developed a special RFI-shielding mechanism, which is an integral part of the connectors in the UniPoint line. If you remove or replace the connector, you may adversely affect unit's RFI immunity.

SPECIFICATIONS

ELEMENT	Fixed-charge back plate permanently polarized condenser
POLAR PATTERN	Omnidirectional in hemisphere above mounting surface
FREQUENCY RESPONSE	30-20,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 18 dB/octave
OPEN CIRCUIT SENSITIVITY (Phantom / Battery)	-39 dB (11.2 mV) / -40 dB (10.0 mV) re 1V at 1 Pa
IMPEDANCE (Phantom / Battery)	200 ohms / 270 ohms
MAXIMUM INPUT SOUND LEVEL (Phantom / Battery)	(1 kHz at 1% T.H.D.) 132 dB / 122 dB SPL
DYNAMIC RANGE (typical) (Phantom / Battery)	(1 kHz at Max SPL) 111 dB / 101 dB
SIGNAL-TO-NOISE RATIO	73 dB, 1 kHz at 1Pa
PHANTOM POWER REQUIREMENTS	11-52V DC, 2 mA typical
SWITCH	Off, on-flat, on-roll-off
BATTERY TYPE	1.5V AA/UM3
BATTERY CURRENT / LIFE	0.4 mA / 1200 hrs typical (alkaline)
WEIGHT	
MICROPHONE	78 g
POWER MODULE	139 g
DIMENSIONS	
MICROPHONE	65 mm - diameter, 15.1 mm - height
POWER MODULE	84 mm(H) x 63 mm(W) x 22 mm(D)
OUTPUT CONNECTOR	Integral 3-pin XLRM-type (power module)
CABLE	7.6m long (permanently attached to microphone), 3.2mm diameter, 2-conductor shielded cable with TA3F-type connector.
ACCESSORIES FURNISHED	AT8531 power module, battery, Soft protective pouch

Polar Pattern



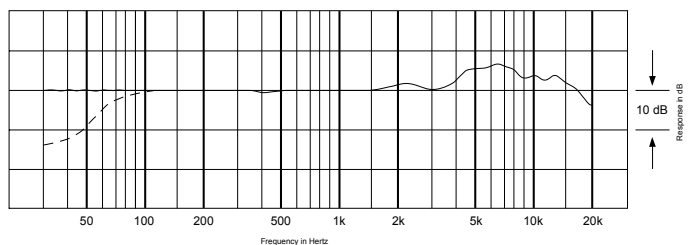
SCALE IS 5 DECIBELS PER DIVISION

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



LEGEND ———— 12° or more on axis
- - - - - Roll-off

 **audio-technica**
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全向方指向性平面式会议话筒



- 设计在平面放置应用，提供高质量收音、会议、遥距教学、及其他高要求的收音应用。

- UniGuard™ - 射频干扰(RFI)屏蔽技术，提供杰出的防止射频干扰能力，避免收音时受到如手提电话等的干扰。

- UniSteep® - 高通滤波器，提供了一个高效能的高通滤波，把低频噪声作出衰减而无损语音的收音质量。

- 细小的UniPoint系列收音头，可消除反射式相位失真，并提供清晰及高信号的音频输出。

- 以压铸铸造的坚固外壳及话筒底部的防滑矽泡棉，可减低桌面震动对话筒的影响。

- 平放不显眼的设计，并涂上低反光的黑色涂料。

- 使用幻象供电或电池供电操作，当使用幻象供电时，可不用安装电池。

U841A话筒使用直流11V至52V幻象供电或一枚1.5V AA 3号电池供电操作，当使用幻象供电时，可不用安装电池。

建议使用硷性电池工作，当长期不使用电池时，请把电池取出。

话筒应放置在平面上，及没有阻碍物的环境使用。音源应在话筒的前方发声。

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。

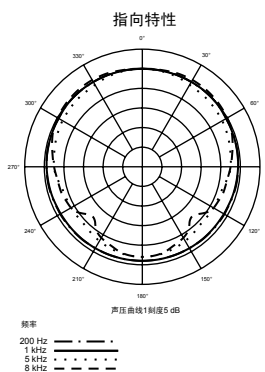
内置高质量高通滤波电路，可轻易由平直的频率响应，开启为于80 Hz以下衰减的收音效果，应高通滤波器可减低收音环境中低频噪声(如外间汽车引擎声，空调系统的风声等)，房间中的回声及机械性的震动声。

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。

备注：**Audio-Technica**开发了一个特别的抗射频干扰设计，在所有原装U系列的话筒接头内，都设有屏蔽保护密封。如把接头剪掉或非原装更换，都会破坏话筒的抗射频干扰保护。

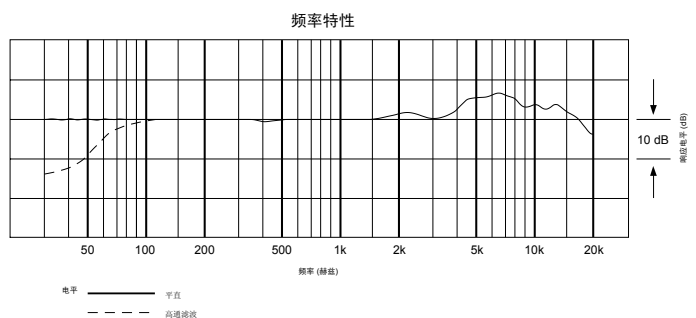
技术指标

收音头	固定充电背板，静电型电容式	
指向特性	半球形全方向指向性	
频率响应	30-20,000 Hz	
高通滤波	80 Hz, 18 dB/octave	
开通灵敏度	(幻象供电/电池)	-39 dB (11.2 mV) 以 1V 于 1 Pa / -40 dB (10.0 mV) 以 1V 于 1 Pa
输出阻抗	(幻象供电/电池)	200 欧姆 / 270 欧姆
最大承受声压	(幻象供电/电池)	132 dB 声压 (1 kHz 于 1% T.H.D.) / 122 dB 声压 (1 kHz 于 1% T.H.D.)
动态范围 (典型)	(幻象供电/电池)	111 dB (1 kHz 于最高声压) / 101 dB (1 kHz 于最高声压)
讯噪比	73 dB, 1 kHz 于 1Pa	
幻象供电	直流 11-52V, 耗电 2 mA 典型	
开关	关闭，平直，高通滤波	
电池种类	1.5V AA 3号电池	
电池耗电量 / 电池寿命	0.4 mA / 1200 小时 (典型硷性电池)	
重量	话筒	78 克
	供电模组	139 克
外形尺寸	话筒	65 mm - 直径, 15.1 mm - 高,
	供电模组	84 mm(高) x 63 mm(宽) x 22 mm(厚)
输出连接器	内置式3针卡农公头 (供电模组)	
连接线	7.6m 长 (固定连接), 3.2 mm 直径 连接线, 2蕊线连屏蔽电线, 以TA3F 插头连接	
附属品	AT8531 双供电模组, 电池, 保护袋	



选择配件:

AT8506 四通通48V幻象供电器 (交流供电),
AT8801/EU 单通道48V幻象供电器 (交流供电)。



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