

U851RO

Omnidirectional Condenser Boundary Microphones

unipoint®



Features

- **PivotPoint®** rotating output connector allows cable to exit from either the rear or the bottom of the microphones
- Small-diameter UniPoint omnidirectional capsule near boundary eliminates phase distortion and delivers clear, high-output performance
- Superior off-axis rejection for maximum gain before feedback
- UniGuard® RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI)
- Self-contained electronics eliminate need for external power module
- UniSteep® filter provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality
- Available interchangeable elements permit angle of acceptance from 100° to 360°
- Heavy die-cast case and non-slip silicon foam bottom pads minimize coupling of surface vibration to the microphone
- Low-profile design with low-reflectance finish for minimum visibility

U851RO Description

The U851RO is a wide-range condenser microphone with an omnidirectional polar pattern. It is designed for surface-mount applications such as high-quality sound reinforcement, conferencing, professional recording, television and other demanding sound pickup applications.

The microphone requires 11V to 52V phantom power for operation.

The microphone is equipped with UniGuard® RFI-shielding technology, which offers outstanding rejection of radio frequency interference (RFI).

The microphone's omnidirectional polar pattern provides a 360° angle of acceptance (omni in hemisphere above mounting surface). Additional interchangeable elements with cardioid (120°) and hypercardioid (100°) pickup patterns are available.

The microphone includes a 7.6 m output cable terminating in special TA3F-type and XLRM-type connectors designed to optimize RFI immunity. The output of the microphone is a TB3M-type connector. The microphone is equipped with Audio-Technica's unique PivotPoint® rotating output connector.

A switch permits choice of flat response or low-frequency roll-off (via integral 80 Hz high-pass UniSteep® filter) to help control undesired ambient noise.

The microphone's heavy die-cast case and non-slip silicon foam bottom pads minimize coupling of surface vibration to the microphone. The microphone includes a soft protective pouch and features a low reflectance black finish.

Installation and Operation

The U851RO requires 11V to 52V phantom power for operation.

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.

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

An 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, airhandling systems, etc.), room reverberation and mechanically coupled vibrations. To engage the UniSteep® filter, slide the switch toward the "bent" line.

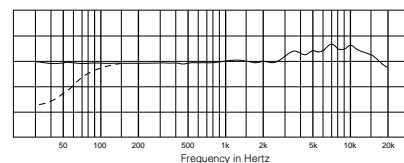
The microphone's PivotPoint® rotating output connector allows the cable to exit from either the rear or the bottom of the microphone without the need for tools or disassembly.

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.

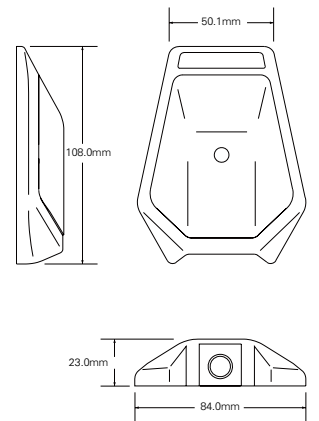
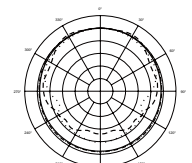
Specifications

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	-31 dB (28.2 mV) re 1V at 1 Pa
Impedance	200 ohms
Maximum input sound level	132 dB SPL, 1 kHz at 1% T.H.D.
Dynamic range (typical)	111 dB, 1 kHz at Max SPL
Signal-to-noise ratio	73 dB, 1 kHz at 1 Pa
Phantom power requirements	11-52V DC, 4 mA typical
Switch	Flat, roll-off
Weight	262 g
Dimensions	108.0 mm maximum length, 84.0 mm maximum width, 23.0 mm maximum height
Output connector	TB3M-type
Cable	7.6 m long, 3.2 mm diameter, 2-conductor shielded cable with TA3F-type and XLRM-type connector
Optional interchangeable elements	UE-C cardioid (120°) UE-H hypercardioid (100°)
Accessories furnished	Soft protective pouch

frequency response: 30–20,000 Hz



polar pattern



U851RO

全方向指向性平面式会议话筒

unipoint®



特点

- **PivotPoint®** 转动式输出连接头，可因应需要把输出连接线设置为话筒背后或话筒底部输出
- 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
- 优越的离轴抑制性能，在出现反馈啸叫声前可提供最高的增益
- **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
- 内置话筒前置放大器供电组件，无需使用外置供电模组
- **UniSteep®** 高通滤波器，提供了一个高效能的高通滤波，提低噪声作出衰减而无损语音的收音质量
- 可选配适合的收音头更换配合实际的应用，收音角度可由 100° 至 360°
- 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，并涂上低反光的颜色涂料

U851RO 介绍

U851RO 是一枚阔频宽的电容式全方向指向性平面话筒，设计于平面放置应用，提供高质量收音、会议、专业录音、电视广播等的收音应用。

话筒需要以 11V 至 52V 幻象供电工作。

话筒配备有 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。

话筒的全方向指向性提供 360° 的收音角度 (平面上的半球形)，并可选配其他适合的收音头配合实际的应用，包括心形指向性 120°、超心形指向性 100°。

话筒提供有 76 m 长供射频干扰屏蔽的 TA3F 和 XLRM 卡农端子连接线，作长距离连接。而话筒并配置独有的 PivotPoint® 转动式输出 TB3M 连接座，可因应需要把输出连接线设置为话筒背后或话筒底部输出。

设有高通滤波开关，可选择设置为平直的频率响应，或于 80 Hz UniSteep® 的高通滤波收音效果，以控制环境中的低频噪声。

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。

安装及操作

U851RO 需要以 11V 至 52V 幻象供电工作。

低阻抗的平衡音频输出，音频信号以卡农公头的 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。

话筒应放置在平面及没有阻碍物的环境使用，音源应在话筒的前方发声。

内置高质量 UniSteep® 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，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。

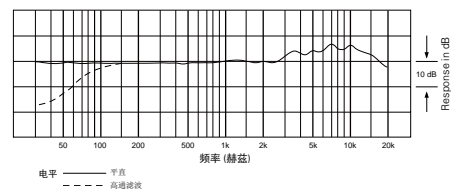
话筒并配的 PivotPoint® 转动式输出连接座，在无需工具下把输出连接线由话筒背后转到话筒底部输出。

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	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	-31 dB (28.2 mV) 以 1V 于 1 Pa
阻抗	200 欧姆
高最大承受声压	132 dB 声压级, 1 kHz 于 1% T.H.D.
动态范围 (典型)	111 dB, 1 kHz 于最高声压级
讯噪比	73 dB, 1 kHz 于 1 Pa
幻象供电	直流 11-52V, 耗电 4 mA 典型
开关	平直, 高通滤波
重量	262 克
外形尺寸	长度 108.0 mm, 最大宽度 84.0 mm, 高度 23.0 mm
输出端子	TB3M 小型卡农公座
连接线	长 76 米, 直径 3.2 mm, 2 芯屏蔽式连线并配置 TA3F 小型卡农母头及 XLRM 卡农公头
标准配置	UE-C 心型指向性收音头 (120°); UE-H 超心型指向性收音头 (100°)
标准配置	软质保护袋

频率响应: 20-20,000 Hz



指向特性

