

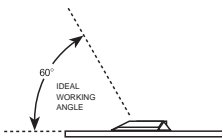
U843R MULTIDIRECTIONAL CONDENSER BOUNDARY MICROPHONE



- Multidirectional cardioid condenser elements mounted in a single housing. U843R can be adjusted to proper positioning simply of divided angle between 90° to 120° by two corresponding elements (Ch1 and Ch3). Each elements can be powered and used individually or in any combination.
- Designed for surface-mount applications such as high-quality sound reinforcement and provide total coverage of round table or longer table with fewer microphones.

- U843R is ideal for a variety of video and audio conferencing application, especially when used with an Audio-Technica automatic SmartMixer™.
- Small-diameter UniPoint capsule near boundary eliminates phase distortion and delivers clear, high-output performance.
- UniGuard™ RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI).
- 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.

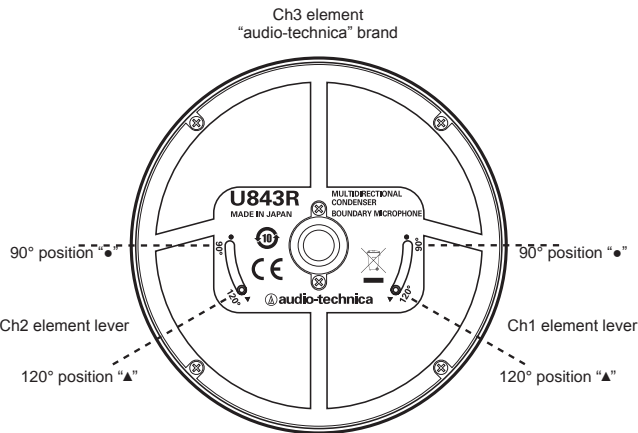
The microphone requires 11V to 52V DC phantom power for operation and should be placed on a flat, unobstructed mounting surface, with the front of the microphone facing the sound source. The sound source should not be below, or higher than 60° above, the plane of the mounting surface.



Output from the microphone is low impedance (Lo-Z) balanced. For U843R, the appears across the pair of colour wires (red and yellow wires for Ch1, white and blue wires for Ch2, and green and brown wires for Ch3); audio ground is the shield connection. Output is phased so that positive acoustic pressure produces positive voltage on the yellow, green and white wires.

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.

For U843R applications that require the microphone to adjust the elements for omnidirectional (3 channels combination with 120° angle divided) or bidirectional (Ch1 and Ch2 combination with 90° angle divided) configuration. For correct orientation, position the microphone so the brand name of "audio-technica" is Ch3, "●" marks are 90° position of Ch1 and Ch2, "▲" marks are 120° position of Ch1 and Ch2.

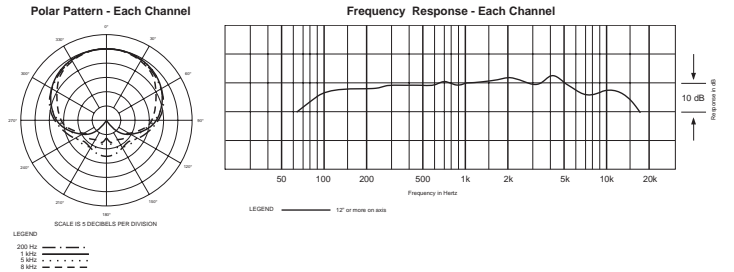


- For wire color - shield wire - grounding
 yellow - Ch1 hot(+) blue - Ch2 hot(+) brown - Ch3 hot(+)
 red - Ch1 cold(-) white - Ch2 cold(-) green - Ch3 cold(-)

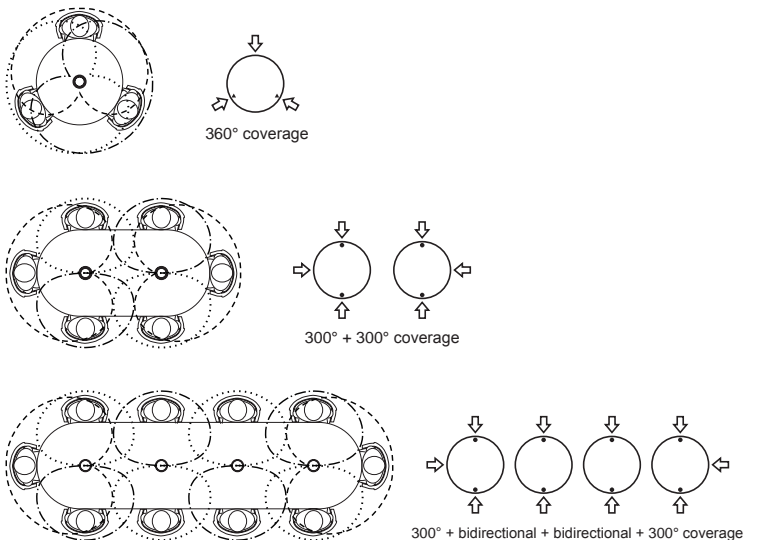
SPECIFICATIONS

| | | | | | | | |
|-----------------------------------|--|--------|--------------|--------|--|--------|--|
| ELEMENT | Fixed-charge back plate permanently polarized condenser | | | | | | |
| POLAR PATTERN | Hemispherical Cardioid x 3 (combine to omnidirectional or bidirectional) | | | | | | |
| FREQUENCY RESPONSE | 70-16,000 Hz | | | | | | |
| OPEN CIRCUIT SENSITIVITY | -37 dB (14.1 mV) re 1V at 1 Pa | | | | | | |
| IMPEDANCE | 100 ohms | | | | | | |
| MAXIMUM INPUT SOUND LEVEL | 134 dB SPL, 1 kHz at 1% T.H.D. | | | | | | |
| DYNAMIC RANGE (TYPICAL) | 105 dB, 1 kHz at Max SPL | | | | | | |
| SIGNAL-TO-NOISE RATIO | 65 dB, 1 kHz at 1 Pa | | | | | | |
| PHANTOM POWER REQUIREMENTS | 11-52V DC, 2mA typical | | | | | | |
| SWITCH | The lever of elements can adjust the proper position | | | | | | |
| WEIGHT (less cable) | 160 g | | | | | | |
| DIMENSIONS | 20.0 mm - height, 85.0 mm - maximum body diameter | | | | | | |
| CABLE | 7.6 m long (permanently attached to microphone), 4 mm diameter, 6 conductor, shielded cable | | | | | | |
| CABLE TERMINATIONS | <table border="0"> <tr> <td>U843Rc</td> <td>Unterminated</td> </tr> <tr> <td>U843Rd</td> <td>Terminated for mixer using D-sub connector</td> </tr> <tr> <td>U843Rx</td> <td>Terminated with a specialized connector and included a conversion cable to three XLR-3M output</td> </tr> </table> | U843Rc | Unterminated | U843Rd | Terminated for mixer using D-sub connector | U843Rx | Terminated with a specialized connector and included a conversion cable to three XLR-3M output |
| U843Rc | Unterminated | | | | | | |
| U843Rd | Terminated for mixer using D-sub connector | | | | | | |
| U843Rx | Terminated with a specialized connector and included a conversion cable to three XLR-3M output | | | | | | |
| ACCESSORIES FURNISHED | Soft protective pouch | | | | | | |

Optional Accessories:
 AT8506 four-channel 48V phantom power supply (AC powered).
 AT8801/EU single-channel 48V phantom power supply (AC powered).



Combinations:



U843R 多指向性电容式平面话筒

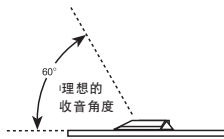
unipoint®



- 在单一机体中配置多个心形指向性电容收音头。U843R 话筒可对两个相应的收音头 (Ch1 及 Ch3) 作 90° 至 120° 收音角度的调节。每个电容收音头均为独立供电和操作，并可按不同使用环境作出组合。
- 设计于平面放置应用，提供高质量的收音，当配置多个话筒组合时，能为圆桌会议或长桌会议作出全面覆盖的收音应用。

- U843R 是理想的视频和音频会议应用形号，尤其是当配合于 Audio-Technica 的 SmartMixer™ 智能型混音器使用，更有优越的表现。
- 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。
- 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。
- 以压铸铸造的坚固外壳及话筒底部的防滑砂泡棉，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。

话筒使用直流 11V 至 52V 幻象供电操作，并应放置在平面上，及没有阻碍物的环境使用。音源应在话筒的前方发声，理想的收音角度应在平面至 60° 高度之内。

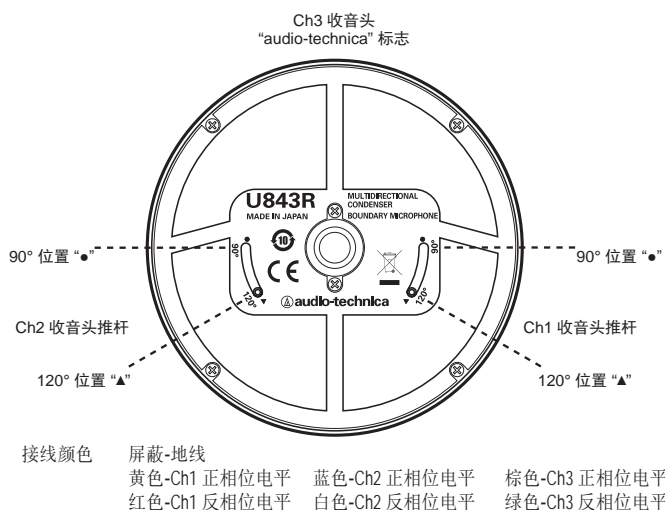


低阻抗的平衡音频输出，U843R 音频信号以多组不同颜色接线作划分 (Ch1 为红-黄色接线；Ch2 为白-蓝色接线；Ch3 为绿-棕色接线)，以及地线(屏蔽)。输出相位将以正相位电平设于黄色、白色、绿色接线上。

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。

U843R 可按话筒的应用需要而调节收音头之间的角度，如全方向性指向收音 (3 枚收音头以 120° 划分，并组合 3 组通道信号) 或双指向收音 (Ch1 和 Ch2 收音头以 90° 划分) 的配置。

为能确认方向和位置，话筒前方印有 "audio-technica" 标志的收音头为 Ch3，而印有 "●" 标志位置为 Ch1 和 Ch2 收音头的 90° 方向；印有 "▲" 标志位置为 Ch1 和 Ch2 收音头的 120° 方向。

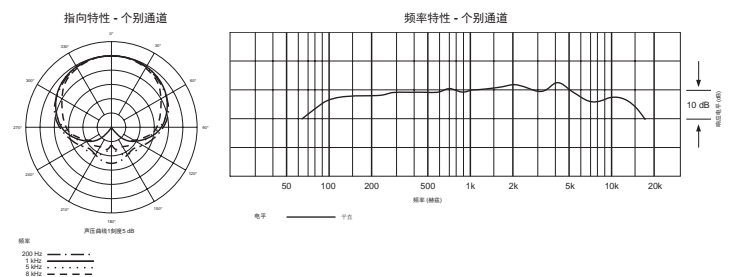


技术指标

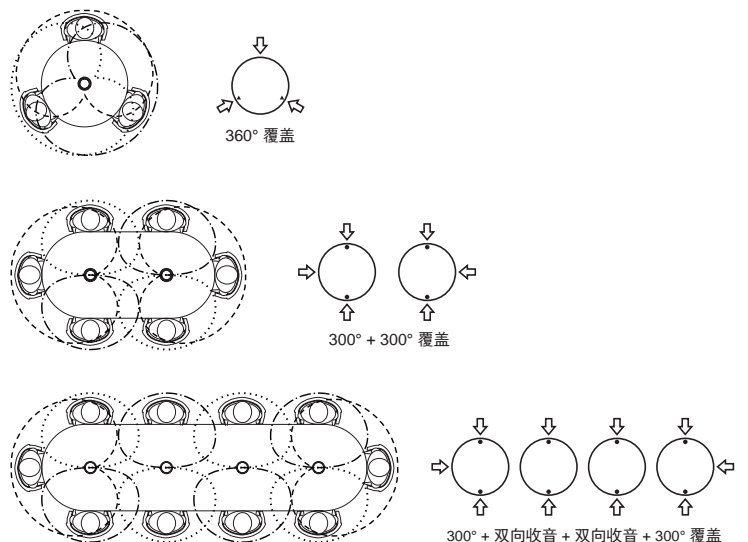
| | |
|------------|---|
| 收音头 | 固定充电背板，静电型电容式 |
| 指向特性 | 半球形心形指向性 x 3 (可组合为全方向指向性或双向式指向性) |
| 频率响应 | 70-16,000 Hz |
| 开通灵敏度 | -37 dB (14.1 mV) 以 1V 于 1 Pa |
| 输出阻抗 | 100 欧姆 |
| 最大承受声压 | 134 dB 声压级, 1 kHz 于 1% T.H.D. |
| 动态范围 (典型) | 105 dB, 1 kHz 于最高声压级 |
| 讯噪比 | 65 dB, 1 kHz 于 1 Pa |
| 幻象供电 | 直流 11-52V, 耗电 2mA 典型 |
| 开关 | 可调校收音头正确位置和角度的推杆 |
| 重量 (不含连接线) | 160 克 |
| 外形尺寸 | 20.0 mm - 高度, 85.0 mm - 最大直径 |
| 连接线 | 7.6m 长 (固定装置于话筒中), 4 mm 线径, 6 芯导线及屏蔽电缆 |
| 导线连接头 | U843Rc 无连接头 U843Rd 接上专用混音器的 D-sub 接头 U843Rx 接上专用转接头，并配有转接到 3 路标准卡农公头输出转换线 |
| 附属品 | 软质保护袋 |

选择配件:

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



收音头组合:



audio-technica®

鐵三角®

Machida • Tokyo • Japan

FORM No. ATGC-L0163-10-C