# U891Rx / U891RWx / U891RCx UNIPOINT



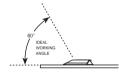
## CARDIOID CONDENSER BOUNDARY MICROPHONE WITH SWITCH

(U891RCx - WITH LOCAL OR REMOTE SWITCHING)



- Designed for surface-mount applications such as high-quality sound reinforcement, conferencing, distance learning and other demanding sound pickup situations.
- Ultra-quiet electronic switch can be set to any of three operating modes; 'touch-on/touch-off", "touch-to-talk" and "touch-to-mute".
- External contact closure capability permits control of remote devices from microphone switch. - (U891RCx)
- External LED control allows for accurate depiction of the live status. - (U891RCx)
- PivotPoint™ rotating output connector allows cable to exit from either the rear or the bottom of the microphone.
- 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.
- Available in two colors: black (U891Rx/U891RCx) and white (U891RWx)

The microphone requires 11V to 52V DC phantom power for operation. And supplied as a cardioid and accepts interchangeable elements to permit selection of angle of acceptance from 100° to 360°.



The microphone 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 U891Rx and U891RWx, the signal appears across Pins 2 and 3; Pin 1 is ground (shield) in XLRM-type output connector. Output phase is "Pin 2 hot" - positive acoustic pressure produces positive voltage at Pin 2.

At integral 80 Hz high-pass 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.

For U891RCx applications that require the microphone to remain active or always "on", regardless of the touch switch setting, a "Local/Remote/LED Remote" control function

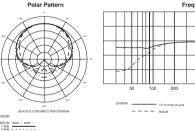
- when the CONTROL switch is in "Local" position, the touch switch controls the microphone's audio output, LED status and contact closure internally.
- when the CONTROL switch is in the "Remote" position, the microphone's audio output remains active or "on" all the time. The touch switch controls only the LED and contact closure.
- when the CONTROL switch is in the "LED Remote" position, it allows remote control of the LED, for accurate depiction of the microphone live status. The LED will remain "on" when driven logic high or open, and "off" when driven logic low or connected to ground. The microphone's audio output remains active or "on" all the time, and the contact closure follows the configuration of the touch switch.

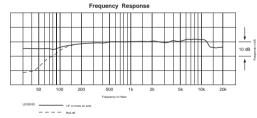
#### **SPECIFICATIONS**

ELEMENT	Fixed-charge back plate permanently polarized condenser
POLAR PATTERN	Half-cardioid
FREQUENCY RESPONSE	30-20,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 18 dB/octave
OPEN CIRCUIT SENSITIVITY	-34 dB (19.9 mV) re 1V at 1 Pa
IMPEDANCE	200 ohms
MAXIMUM INPUT SOUND LEVEL	130 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC RANGE (TYPICAL)	104 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO	68 dB, 1 kHz at 1 Pa
PHANTOM POWER REQUIREMENTS	11-52V DC, 4 mA typical
SWITCH	Touch-sensitive control: on/off; Switch function: touch on/off, momentary on, momentary off; (Control: local, remote, LED remote - U891RCx only) Flat, roll-off
WEIGHT U891Rx / U891RCx	264 g / 266 g
DIMENSIONS	108 mm - long, 84 mm - maximum width, 23 mm - height
OUTPUT CONNECTOR	TB3M-type / TB5M-type
CABLE	7.6m long, 3.2mm diameter, (2-conductor shielded cable with TA3F / XLRM-type connector for U891Rx) (5-conductor shielded cable with TA5F-type connector / pigtail for U891RCx)
OPTIONAL INTERCHANGEABLE ELEMENTS	UE-C cardioid (120°) UE-H hypercardioid (100°) UE-O omnidirectional (360°)
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).





## U891Rx/RWx, and U891RCx CONTROL Switch in "Local" Position

SW Setting	Microphone Audio	LED	External Contact Closure
TOUCH ON/OFF	Follows touch-sensitive switch	Follows touch-sensitive switch	Follows touch-sensitive switch
MOM. ON	"On" when switch is pressed	"On" when switch is pressed	Closed when switch is pressed
MOM. OFF	"Off" when switch is pressed	"Off" when switch is pressed	Open when switch is pressed

## U891RCx CONTROL Switch in "Remote" Position

SW Setting	Microphone Audio	LED	External Contact Closure
TOUCH ON/OFF	Always "On"	Follows touch-sensitive switch	Follows touch-sensitive switch
MOM. ON	Always "On"	"On" when switch is pressed	Closed when switch is pressed
MOM. OFF	Always "On"	"Off" when switch is pressed	Open when switch is pressed

### U891RCx CONTROL Switch in "LED Remote" Position

SW Setting	Microphone Audio	LED	External Contact Closure
TOUCH ON/OFF MOM, ON	Always "On" Always "On"	Remotely controlled Remotely controlled	Follows touch-sensitive switch Closed when switch is pressed
MOM. OFF	Always "On"	Remotely controlled	Open when switch is pressed



For wire color -

audio: thick black - shield yellow - hot(+) red - cold(-)

control: slim black - ground blue - external contact white - LED remote

## U891Rx / U891RWx / U891RCx Unipoint



## 心形指向性平面式会议话筒 - 带开关(U891RCx - 带本地及谣控开关)



- 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。
- 超宁静的电子开关,可设定话筒操作于三种模式:"反复按下开关"、 "按下讲话"、"按下哑音"。
- 可连接外置器材,并能以话筒开上的 开关作遥距控制。(U891RCx型号)
- LED显示灯可设定由外置器材控制的 实际收音状态显示。(U891RCx型号)
- 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。
- UniGuard™ 射频干扰(RFI)屏敝技术,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。
- 以压模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, 并涂上低反光的颜色涂料。
- 设有两种颜色选择:黑色(U891Rx/U891RCx),及白色(U891RWx)。

话筒使用直流11V至52V 幻象供电操作,以心型指向性收音,并可选配 及更换不同收音头配合实际的应用, 收音角度可由100°至360°。



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, 理想的收音角度应在平面至60°高度之

低阻抗的平衡音频输出,U891Rx及U891RWx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。

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(如外间汔车引擎声,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。

U891RCx设有遥距控制,可把轻触开关应用在遥控外置的其他器材,而 话筒保持在开启状态。底部设有 "Local/Remote/LED Remote" 控制选择。

- 当控制选择设定在 "Local" 时,轻触开关同时控制话筒音频输出、LED 显示灯及内部开关。
- 当控制选择设定在 "Remote" 时,话筒音频输出会保持在开启状态,轻 触开关只同时控制LED显示灯及外接开关。
- 当控制选择设定在 "LED Remote" 时,话筒音频输出会保持在开启状态 ,轻触开关只控制外接开关。而LED显示灯则由外部所控制,输入 高电位时将会亮起;输入低电位时则会熄灭。

接线颜色 音频输出:粗黑-屏蔽 黄色-正相位电平

控制: 幻黑-地线 蓝色-外接开关 红色-反相位电平 白色-LED显示灯

## 技术指标

收音头		固定充电背板, 静电型电容式
指向特性		半心形单指向性
频率响应		30-20,000 Hz
高通滤波		80 Hz, 18 dB/octave
开通灵敏度		-34 dB (19.9 mV) 以 1V 于 1 Pa
输出阻抗		200 欧姆
最大承受声压		130 dB 声压, 1 kHz 于 1% T.H.D.
动态范围 (典型)		104 dB, 1 kHz 于最高声压
讯噪比		68 dB, 1 kHz 于 1 Pa
幻象供电		直流 11-52V,耗电 4 mA 典型
开关		轻触开关,开关功能选择(反复按下开关、按下讲话、按下哑音), 控制开关-U891RCx(本地、遥控、 LED遥控),高通滤波
重量	U891Rx / U891RCx	264 克 / 266 克
		100 //

重量	U891Rx / U891RCx	264 克 / 266 克
外形尺寸		108 mm - 长 84 mm - 最宽度, 23 mm - 高
输出连接器	U891Rx / U891RCx	内置式TB3M / TB5M公头
连接线		7.6m 长, 3.2 mm 直径连接线,

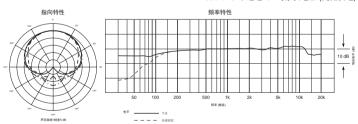
(U891Rx为2蕊屏蔽线, TA3F插头 / 卡农插头) (U891RCx为5蕊屏蔽线, TA5F插头 / 无连接头) UE-C 心形指向 (120°) 可转换收音头

UE-H 超心形指向 (100°) UE-O 全方向性 (360°)

软质保护袋 附属品

### 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)。



## U891Rx/RWx, 及U891RCx的控制选择设于"Local"位置

轻触开关功能	话筒音频输出	LED灯号	外接控制开关状态
TOUCH ON/OFF	跟随轻触按键反复开关	跟随轻触按键反复开关	跟随轻触按键反复开关
MOM. ON	按下时保持开启收音	按下时保持亮起	按下时保持导通
MOM. OFF	按下时保持关闭	按下时保持熄灭	按下时保持断路

## U891RCx的控制选择设于"Remote"位置

轻触升关功能	话筒音频输出	LED灯号	外接控制升关状态
TOUCH ON/OFF	保持开启收音	跟随轻触按键反复开关	跟随轻触按键反复开关
MOM. ON	保持开启收音	按下时保持亮起	按下时保持导通
MOM. OFF	保持开启收音	按下时保持熄灭	按下时保持断路

## U891RCx的控制选择设于"LED Remote"位置

轻触开关功能	话筒音频输出	LED灯号	外接控制开关状态
TOUCH ON/OFF	保持开启收音	由外部控制	跟随轻触按键反复开关
MOM. ON	保持开启收音	由外部控制	按下时保持导通
MOM. OFF	保持开启收音	由外部控制	按下时保持断路



