U891Rx & U891RWx

Cardioid Condenser Boundary Microphones with Switch

audio-technica

unipoint[®] microphones



Features

- Activation switch can be set to any of three operating modes: "press-on/press-off," "press-to-talk" and "press-to-mute"
- PivotPoint[®] rotating output connector allows cable to exit from either the rear or the bottom of the microphone
- Small-diameter UniPoint cardioid 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 silicone 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) and white (U891RWx)

Description

The U891Rx is a wide-range condenser microphone with a cardioid polar pattern. It is designed for surface-mount applications such as high-quality sound reinforcement, conferencing, professional recording, and other demanding sound pickup applications.

The microphone features an activation switch that can be set (via a switch on the bottom of the microphone) to any of three operating modes: "press-on/press-off," "press-to-talk" and "press-to-mute".

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

The microphone includes a 7.6 m (25') 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.

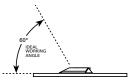
The microphone's heavy die-cast case and non-slip silicone foam bottom pads minimize coupling of surface vibration to the microphone. The microphone includes a soft protective pouch and features a lowreflectance black finish. It is also available in white as the U891RWx.

Installation and Operation

The U891Rx 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, 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.



An activation switch on the microphone offers three choices of switching modes. The SW. FUNCTION switch located on the bottom of the microphone selects the desired mode. TOUCH ON/OFF: Press the on/ off switch once to turn the microphone on; press again to turn off. MOM. ON (momentary on): Microphone is on only while the switch is being pressed ("press to talk"). MOM. OFF (momentary off): Microphone is off only while the switch is being pressed ("press to mute"). The red LED on the top of the unit indicates when the microphone is "on."

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 $^{\odot}$ 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 110° F (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 the unit's RFI immunity. Audio-Technica offers a crimp tool (ATCT) and RFI shields that enable you to shorten the cable and correctly reinstall the connector while maintaining the highest level of RFI immunity.

Note: Placing any object on a surface (such as a conference table) before its finish is fully cured may result in damage to the finish.

U891Rx & U891RWx

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Spe	cifica	ations	5
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Element	Fixed-charg polarized c
Polar pattern	Half-cardio above mou
Frequency response	30-20,000 l
Low frequency roll-off	80 Hz, 18 d
Open circuit sensitivity	-34 dB (19
Impedance	200 ohms
Maximum input sound level	130 dB SPL
Dynamic range (typical)	104 dB, 1 k
Signal-to-noise ratio ¹	68 dB, 1 kH
Phantom power requirements	11-52V DC,
Switches	Activation: Switch fun momentary Flat, roll-of
Weight	264 g (9.3 o
Dimensions	108.0 mm (4 84.0 mm (3 23.0 mm (0
Output connector	TB3M-type
Cable	7.6 m (25.0 diameter, 2 TA3F-type a
Optional interchangeable elements	UE-O omnio UE-H hyper
Accessory furnished	Soft protec

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

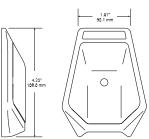
1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

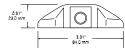
¹ Typical, A-weighted, using Audio Precision System One.

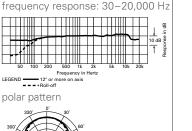
Specifications are subject to change without notice.

ge back plate, permanently condenser oid (cardioid in hemisphere unting surface) Hz dB/octave 9.9 mV) re 1V at 1 Pa ., 1 kHz at 1% T.H.D. kHz at Max SPL Hz at 1 Pa , 4 mA typical on/off; ction: press on/off, y on, momentary off; ff oz) (4.25") maximum length, .31") maximum width, .91") maximum height D') long, 3.2 mm (0.13") 2-conductor, shielded cable with and XLRM-type connectors idirectional (360°) ercardioid (100°) ctive pouch











LEGEND

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