

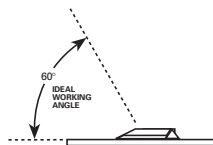


- Designed for surface-mount applications such as high-quality sound reinforcement, professional recording, television, conferencing and other demanding sound pickup situations
- Ultra-quiet electronic switch can be set to any of three operating modes: “touch-on/touch-off,” “touch-to-talk” and “touch-to-mute”
- PivotPoint™ rotating output connector allows cable to exit from either the rear or the bottom of the microphone
- Superior off-axis rejection for maximum gain before feedback

- UniGuard™ RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI)
- Small-diameter UniPoint capsule near boundary eliminates phase distortion and delivers clear, high-output performance
- 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 (U891R) and white (U891RW)

The U891R requires 11V to 52V phantom power for operation.

Supplied as a cardioid, the U891R 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.

A touch-sensitive on/off switch on the U891R offers three choices of switching modes. A switch located on the bottom of the microphone selects the desired mode. TOUCH ON/OFF: Touch the on/off switch once to turn the microphone on; touch again to turn off. MOM. ON (momentary on): Microphone is on only while the switch is being touched (“press to talk”). MOM. OFF (momentary off): Microphone is off only while the switch is being touched (“press to mute” function). The red LED on the top of the unit indicates when the microphone is “on.”

Output from the microphone cable’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.

An 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 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 connectors, you may adversely affect the unit’s 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.

## U891R/U891RW SPECIFICATIONS†

|  |   |
|--|---|
| <b>ELEMENT</b>                           | Fixed-charge back plate permanently polarized condenser   |
| <b>POLAR PATTERN</b>                     | Half-cardioid (cardioid in hemisphere above mounting surface)   |
| <b>FREQUENCY RESPONSE</b>                | 30-20,000 Hz  |
| <b>LOW FREQUENCY ROLL-OFF</b>            | 80 Hz, 18 dB/octave   |
| <b>OPEN CIRCUIT SENSITIVITY</b>          | -34 dB (19.9 mV) re 1V at 1 Pa*   |
| <b>IMPEDANCE</b>                         | 200 ohms  |
| <b>MAXIMUM INPUT SOUND LEVEL</b>         | 130 dB SPL, 1 kHz at 1% T.H.D.  |
| <b>DYNAMIC RANGE (typical)</b>           | 104 dB, 1 kHz at Max SPL  |
| <b>SIGNAL-TO-NOISE RATIO<sup>1</sup></b> | 68 dB, 1 kHz at 1 Pa*   |
| <b>PHANTOM POWER REQUIREMENTS</b>        | 11-52V DC, 4 mA typical   |
| <b>SWITCHES</b>                          | Touch-sensitive control: on/off; Switch function: touch on/off, momentary on, momentary off; Flat, roll-off |
| <b>WEIGHT</b>                            | 9.3 oz (264 g)  |
| <b>DIMENSIONS</b>                        | 4.25" (108.0 mm) long, 3.31" (84.0 mm) maximum width, 0.91" (23.0 mm) height                                |
| <b>OUTPUT CONNECTOR</b>                  | TB3M-type   |
| <b>CABLE</b>                             | 25.0' (7.6 m) long, 0.13" (3.2 mm) diameter, 2-conductor, shielded cable with TA3F and XLRM-type connectors |
| <b>OPTIONAL INTERCHANGEABLE ELEMENTS</b> | UE-H hypercardioid (100°); UE-O omnidirectional (360°)  |
| <b>ACCESSORY FURNISHED</b>               | Soft protective pouch   |

†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/cm<sup>2</sup> = 10 microbars = 94 dB SPL

<sup>1</sup> Typical, A-weighted, using Audio Precision System One. Specifications are subject to change without notice.

