

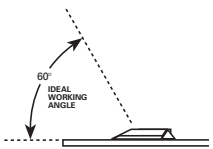


- Designed for surface-mount applications such as high-quality sound reinforcement, professional recording, television, conferencing and other demanding sound pickup situations
- PivotPoint™ rotating output connector allows cable to exit from either the rear or the bottom of the microphone
- Superior off-axis rejection for maximum gain before feedback
- UniGuard™ RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI)

- Self-contained electronics eliminate need for external power module
- 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 (U851R) and white (U851RW)

The U851R requires 11V to 52V phantom power for operation.

Supplied as a cardioid, the U851R 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 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.

## U851R/U851RW SPECIFICATIONS†

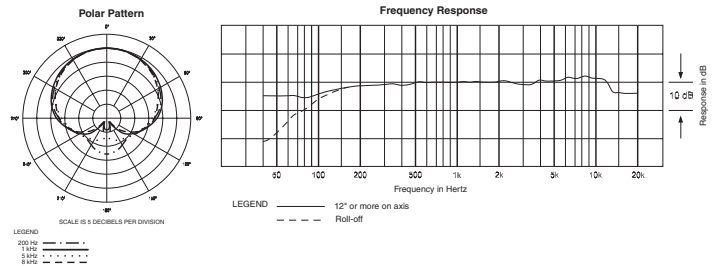
<b>ELEMENT</b>	Fixed-charge back plate permanently polarized condenser
<b>POLAR PATTERN</b>	Half-cardioid (cardioid in hemisphere above mounting surface)
<b>FREQUENCY RESPONSE</b>	30-20,000 Hz
<b>LOW FREQUENCY ROLL-OFF</b>	80 Hz, 18 dB/octave
<b>OPEN CIRCUIT SENSITIVITY</b>	-34 dB (19.9 mV) re 1V at 1 Pa*
<b>IMPEDANCE</b>	200 ohms
<b>MAXIMUM INPUT SOUND LEVEL</b>	134 dB SPL, 1 kHz at 1% T.H.D.
<b>DYNAMIC RANGE (typical)</b>	108 dB, 1 kHz at Max SPL
<b>SIGNAL-TO-NOISE RATIO†</b>	68 dB, 1 kHz at 1 Pa*
<b>PHANTOM POWER REQUIREMENTS</b>	11-52V DC, 4 mA typical
<b>SWITCH</b>	Flat, roll-off
<b>WEIGHT</b>	9.2 oz (262 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

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

Specifications are subject to change without notice.



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