



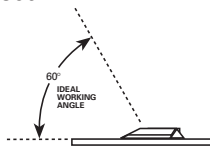
- Designed for surface-mount applications such as high-quality sound reinforcement, professional recording, television, conferencing and other demanding sound pickup situations
- PivotPoint™ rotating output connector allows cable to exit from either the rear or the bottom of the microphone
- Superior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

- UniSteep® filter provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality
- 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 black finish for minimum visibility
- Operates on battery or phantom power

The U851A requires 11-52V DC phantom power or a 1.5V AA battery for operation. A battery need not be in place for phantom power operation.

Battery installation: Remove the cap from the top of the power module. Insert a fresh 1.5V AA battery (“+” end toward the cap release button), then reassemble the power module. Alkaline batteries are recommended for longest life. Remove the battery during long-term storage.

Supplied as a cardioid, the U851A 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 power module’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 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, 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 connector, 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.

U851A SPECIFICATIONS¹

ELEMENT	Fixed-charge back plate permanently polarized condenser
POLAR PATTERN	Half-cardioid (cardioid in hemisphere above mounting surface)
FREQUENCY RESPONSE	30-20,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 18 dB/octave
OPEN CIRCUIT SENSITIVITY (Phantom / Battery)	-40 dB (10.0 mV) / -41 dB (8.9 mV) re 1V at 1 Pa*
IMPEDANCE (Phantom / Battery)	200 ohms / 270 ohms
MAXIMUM INPUT SOUND LEVEL (Phantom / Battery)	133 dB / 123 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC RANGE (typical) (Phantom / Battery)	111 dB / 101 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO¹	72 dB, 1 kHz at 1 Pa*
PHANTOM POWER REQUIREMENTS	11-52V DC, 2 mA typical
BATTERY TYPE	1.5V AA/UM3
BATTERY CURRENT / LIFE	0.4 mA / 1200 hours typical (alkaline)
SWITCH	Off, on-flat, on-roll-off
WEIGHT	
MICROPHONE	8.6 oz (244 g)
POWER MODULE	4.9 oz (139 g)
DIMENSIONS	
MICROPHONE	4.25" (108.0 mm) long, 3.31" (84.0 mm) maximum width, 0.91" (23.0 mm) height
POWER MODULE	3.31" (84.0 mm) H x 2.48" (63.0 mm) W x 0.87" (22.0 mm) D
OUTPUT CONNECTOR (power module)	Integral 3-pin XLRM-type
CABLE	25.0' (7.6 m) long (permanently attached to microphone), 0.13" (3.2 mm) diameter, 2-conductor, shielded cable with TA3F-type connector
OPTIONAL INTERCHANGEABLE ELEMENTS	UE-H hypercardioid (100°); UE-O omnidirectional (360°)
ACCESSORIES FURNISHED	AT8531 power module; battery; 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/cm² = 10 microbars = 94 dB SPL

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

