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.

Architect's and Engineer's Specifications

The microphone shall be a fixed-charge condenser designed for permanent installation or portable applications. It shall have a UniLine® (line cardioid) polar pattern with a uniform 90° angle of acceptance and a frequency response of 30 Hz to 20,000 Hz. It shall be capable of accepting optional interchangeable elements for additional polar patterns. The microphone shall operate from an external 11V to 52V DC phantom power source or, alternatively, from a 1.5V AA/UM3 battery. It shall be capable of handling sound input levels up to 130 dB (phantom) or 120 dB (battery) with a dynamic range of 110 dB (phantom) or 100 dB (battery). Nominal open-circuit output voltage shall be 12.5 mV (phantom) or 11.2 mV (battery) at 1 V, 1 Pascal. Output shall be low impedance balanced (200 ohms – phantom, 270 ohms – battery). It shall offer outstanding rejection of radio frequency interference (RFI).

The microphone shall have a 7.6 m (25') permanently attached miniature cable terminating in a special TA3F-type output connector designed to optimize RFI immunity. The output connector shall connect to a TB3M-type jack on the included power module. The power module shall house the battery, and shall contain a switch that permits choice of off, on/flat response, or on/low-roll-off (80 Hz). The output of the power module shall be a 3-pin XLRM-type connector.

An adjustable steel wire hanger shall be provided for suspended installations. The steel wire hanger shall attach to the microphone body and allow for the positioning of the microphone without the need for tools. A two-stage foam windscreen, a 5/8"-27 threaded stand adapter and a battery shall be included.

The microphone shall be a hanging design, with an overall length of 156.0 mm (6.14") and a head diameter of 12.2 mm (0.48"). Weight shall be 30 grams (1.1 oz) without cable. The microphone, cable and steel hanger shall be black [white].

The Audio-Technica U853AU [U853AWU] is specified.

Specifications

Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	UniLine® (line cardioid)
Frequency response	30-20,000 Hz
Low frequency roll-off	80 Hz, 18 dB/octave
Open circuit sensitivity	Phantom: –38 dB (12.5 mV) re 1V at 1 Pa Battery: –39 dB (11.2 mV) re 1V at 1 Pa
Impedance	Phantom: 200 ohms Battery: 270 ohms
Maximum input sound level	Phantom: 130 dB SPL, 1 kHz at 1% T.H.D. Battery: 120 dB SPL, 1 kHz at 1% T.H.D.
Dynamic range (typical)	Phantom: 110 dB, 1 kHz at Max SPL Battery: 100 dB, 1 kHz at Max SPL
Signal-to-noise ratio[1]	74 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: 30 g (1.1 oz) Power module: 139 g (4.9 oz)
Dimensions	Microphone: 156.0 mm (6.14") long, 12.2 mm (0.48") diameter Power module: 84.0 mm (3.31") H x 63.0 mm (2.48") W x 22.0 mm (0.87") D
Output connector	Power module: Integral 3-pin XLRM-type
Cable	7.6 m (25.0') long (permanently attached to microphone), 3.2 mm (0.13") diameter, 2-conductor, shielded cable with TA3F-type connector
Optional interchangeable elements	UE-O omnidirectional (360°) UE-C cardioid (120°) UE-H hypercardioid (100°)
Audio-Technica case style	M32
Accessories furnished U853AU	AT8531 power module; AT8451 steel hanger; AT8154 two-stage foam windscreen; AT8438 5/8"-27 stand adapter; battery
U853AWU	AT8531 power module; AT8451(WH) steel hanger; AT8154(WH) two-stage foam windscreen; AT8438 5/8"-27 stand adapter; battery

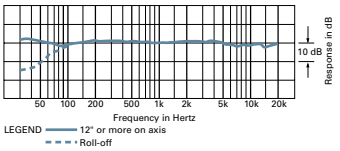
In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

1 Pascal = 10 dynes/cm^2 = 10 microbars = 94 dB SPL

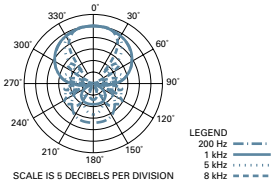
[1] Typical, A-weighted, using Audio Precision System One.

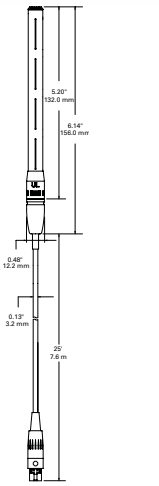
Specifications are subject to change without notice.

frequency response: 30–20,000 Hz



polar pattern





audio-technica

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