MT830R *MINIATURE OMNIDIRECTIONAL CONDENSER MICROPHONE*

BROADCAST & PRODUCTION MICROPHONES

- High intelligibility for lecturers, stage/TV performers and singers
- Provides excellent yet unobtrusive sound pickup
- Wide-range capability ensures clean, accurate reproduction
- Operates on phantom power only

The MT830R is designed to be worn as a lavalier or hidden in loose clothing or in the hair. For use as a lavalier, attach the microphone about six inches below the chin. Anticipate movements that may cause the microphone to rub against or be covered by clothing, and position the microphone to avoid it.

The MT830R is intended for use in professional applications where remote power is available. It requires 11V to 52V DC phantom power, which may be provided by a mixer or console, or by a separate, in-line source such as the Audio-Technica AT8801 single-channel or CP8506 four-channel phantom power supplies.

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.

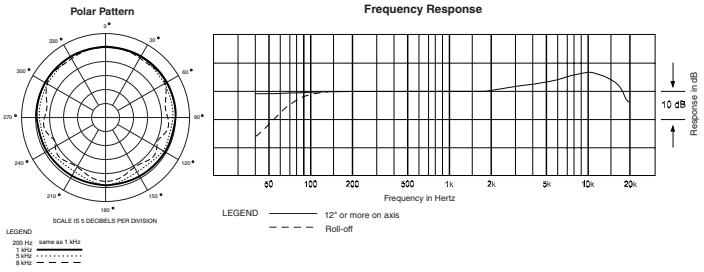
To avoid phase cancellation and poor sound, all mic cables must be wired consistently: Pin 1-to-Pin 1, etc.

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.

MT830R SPECIFICATIONS†	
ELEMENT	Fixed-charge back plate permanently polarized condenser
POLAR PATTERN	Omnidirectional
FREQUENCY RESPONSE	30-20,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 18 dB/octave
OPEN CIRCUIT SENSITIVITY	–37 dB (14.1 mV) re 1V at 1 Pa*
IMPEDANCE	200 ohms
MAXIMUM INPUT SOUND LEVEL	135 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC RANGE (typical)	108 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO[1]	67 dB, 1 kHz at 1 Pa*
PHANTOM POWER REQUIREMENTS	11-52V DC, 2 mA typical
SWITCH	Flat, roll-off
WEIGHT (less cable and accessories)	
MICROPHONE	1.3 g (0.05 oz)
POWER MODULE	81 g (2.9 oz)
DIMENSIONS	
MICROPHONE	15.8 mm (0.62") long, 8.3 mm (0.33") wide, 5.0 mm (0.19") thick
POWER MODULE	92.9 mm (3.66") long, 18.9 mm (0.74") diameter
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
CABLE	7.6 m (25') long (permanently attached to microphone), 2.5 mm (0.10") diameter, 2-conductor, shielded cable with TA3F-type output connector
ACCESSORIES FURNISHED	AT8538 power module; clothing clip; windscreens

†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.



audio-technica

Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224
Audio-Technica Limited, Old Lane, Leeds LS11 8AG England
www.audio-technica.com