

AT831R

MINIATURE CARDIOID CONDENSER MICROPHONE



- Clip-on lavalier mic provides crisp, full-sounding voice pickup
- Also excels as an instrument mic, especially for pickup of acoustic guitar with included AT8444 instrument adapter
- Excellent gain before feedback and suppression of background noise
- UniSteep filter provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality
- Operates on phantom power only

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 AT831R is intended for use in professional applications where remote power is available. It requires 11 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.

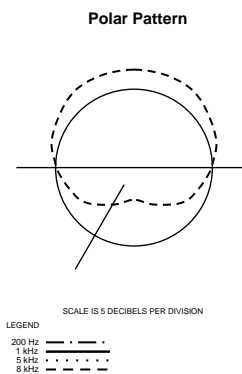
Output from the power module's XLRM-type connector is low impedance (Lo-Z) balanced. The signal appears across Pins 2 and 3; Pin 1 is ground (shield). Output phase is "Pin 2 hot" – positive acoustic pressure produces positive voltage at Pin 2.

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 microphone's sensitivity to popping in close vocal use. It also reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

The microphone is RoHS compliant—free from all substances specified in the EU directive on hazardous substances.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 43°C for extended periods. Extremely high humidity should also be avoided.



Frequency Response



AT831R



40-16,000 Hz	
-42 dB (7.9 mV)	1V 1 Pa
141 dB SPL, 1 kHz 1% T.H.D	
80 Hz, 18 dB/octave	
()	112 dB, 1 kHz
65 dB, 1V 1 Pa	
11-52V, 2 mA	
()	

25.0 mm -	10.2 mm -
92.9 mm -	18.9 mm -
XLRM-3	
4.0 m -	3.2 mm -

- UniSteep

150mm

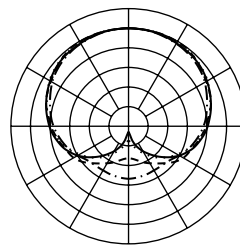
11V 52V

XLRM

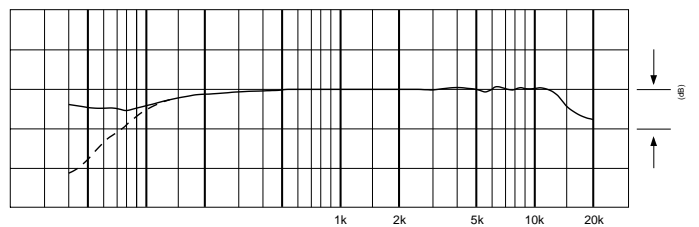
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UniSteep
80 Hz

)



200 Hz - - - - -
1 kHz -
5 kHz - - - - -
8 kHz - - - - -



(MTS30a)