

# AT875R LINE + GRADIENT CONDENSER MICROPHONE



- Designed for video production and broadcast (ENG/EFP) audio acquisition
- Extremely short length (under 7") ideal for use with compact digital cameras
- Provides the narrow acceptance angle desirable for long-distance sound pickup
- Excellent sound rejection from the sides and rear of mic
- Tailored response minimizes camera and handling noise
- Operates on phantom power only

The AT875R requires 11V to 52V DC phantom power for operation.

Output from the microphone'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.

The high sensitivity of the AT875R assures useful output and an excellent match to most input sources. In some cases, however, an attenuator such as the Audio-Technica AT8202 may be required between the microphone and preamplifier to avoid overloading sensitive input stages.

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 110° F (43° C) for extended periods. Extremely high humidity should also be avoided.

## AT875R SPECIFICATIONS†

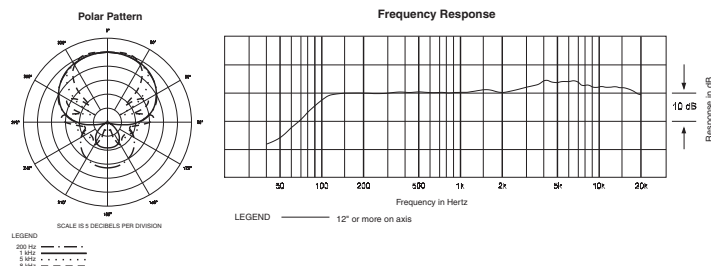
<b>ELEMENT</b>	Fixed-charge back plate permanently polarized condenser
<b>POLAR PATTERN</b>	Line + gradient
<b>FREQUENCY RESPONSE</b>	90-20,000 Hz
<b>OPEN CIRCUIT SENSITIVITY</b>	-30 dB (31.6 mV) re 1V at 1 Pa*
<b>IMPEDANCE</b>	100 ohms
<b>MAXIMUM INPUT SOUND LEVEL</b>	127 dB SPL, 1 kHz at 1% T.H.D.
<b>DYNAMIC RANGE (typical)</b>	107 dB, 1 kHz at Max SPL
<b>SIGNAL-TO-NOISE RATIO<sup>1</sup></b>	74 dB, 1 kHz at 1 Pa*
<b>PHANTOM POWER REQUIREMENTS</b>	11-52V DC, 2 mA typical
<b>WEIGHT (less accessories)</b>	80 g (2.8 oz)
<b>DIMENSIONS</b>	175.0 mm (6.89") long, 21.0 mm (0.83") diameter
<b>OUTPUT CONNECTOR</b>	Integral 3-pin XLRM-type
<b>ACCESSORIES FURNISHED</b>	AT8405a stand clamp for 5/8"-27 threaded stands; 3/8"-27 to 3/8"-16 threaded adapter; windscreens; 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

<sup>1</sup> Typical, A-weighted, using Audio Precision System One.

Specifications are subject to change without notice.



Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224

Audio-Technica Limited, Old Lane, Leeds LS11 8AG England

www.audio-technica.com

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