

# U873R HANDHELD HYPERCARDIOID CONDENSER MICROPHONE

# unipoint



- Designed for high-quality sound reinforcement, professional recording and broadcasting
- Smooth, accurate reproduction for handheld and fixed-mount applications
- Superior off-axis rejection for maximum gain before feedback
- Hypercardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source
- Integral 80 Hz high-pass filter switch and 10 dB pad switch
- Accepts interchangeable elements to permit angle of acceptance from 100° to 360°
- Superior anti-shock engineering ensures low handling noise
- High sensitivity and high SPL capability
- Robust design for enduring dependability

The U873R requires 11V to 52V 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.

An integral 80 Hz high-pass 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.

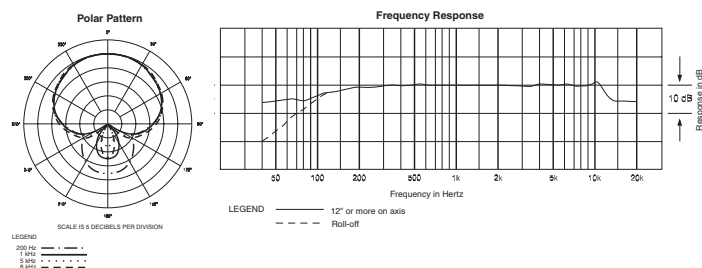
Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for extended periods. Extremely high humidity should also be avoided.

## U873R SPECIFICATIONS<sup>†</sup>

<b>ELEMENT</b>	Fixed-charge back plate permanently polarized condenser
<b>POLAR PATTERN</b>	Hypercardioid
<b>FREQUENCY RESPONSE</b>	70-20,000 Hz
<b>LOW FREQUENCY ROLL-OFF</b>	80 Hz, 18 dB/octave
<b>OPEN CIRCUIT SENSITIVITY</b>	-41 dB (8.9 mV) re 1V at 1 Pa*
<b>IMPEDANCE</b>	200 ohms
<b>MAXIMUM INPUT SOUND LEVEL</b>	155 dB SPL, 1 kHz at 1% T.H.D.
<b>DYNAMIC RANGE (typical)</b>	131 dB, 1 kHz at Max SPL
<b>SIGNAL-TO-NOISE RATIO<sup>†</sup></b>	70 dB, 1 kHz at 1 Pa*
<b>PHANTOM POWER REQUIREMENTS</b>	11-52V DC, 3 mA typical
<b>SWITCHES</b>	Flat, roll-off; 10 dB pad
<b>WEIGHT</b>	5.6 oz (160 g)
<b>DIMENSIONS</b>	6.17" (156.7 mm) long, 1.48" (37.7 mm) head diameter
<b>OUTPUT CONNECTOR</b>	Integral 3-pin XLRM-type
<b>OPTIONAL INTERCHANGEABLE ELEMENTS</b>	UE-C cardioid (120°); UE-O omnidirectional (360°)
<b>ACCESSORIES FURNISHED</b>	AT8122 foam windscreen; AT8405a stand clamp for 5/8"-27 threaded stands; soft protective pouch

<sup>†</sup>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>†</sup>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

P51705 ©2005 Audio-Technica U.S., Inc. Printed in U.S.A.