**Omnidirectional Dynamic Handheld Microphone**

**AT8004**

**Broadcast & Production Microphones**

**Features**
- Ideal for interviews, sports broadcasting and as the "mono" mic when used in conjunction with a stereo microphone
- Omnidirectional polar pattern provides natural reproduction of surrounding ambience
- Rugged housing with hardened-steel grille stands up to field use
- Internal shock mounting minimizes handling and cable noise

**Description**

The AT8004 is a dynamic microphone with an omnidirectional polar pattern. It is designed for on-location interviews/sports broadcasting.

The microphone's omnidirectional polar pattern is ideal for reproduction of surrounding ambience.

The output of the microphone is a 3-pin XLRM-type connector.

The microphone is enclosed in a rugged housing. The included AT8405a stand clamp permits mounting on any microphone stand with 5/8"-27 threads. A soft protective pouch is also included.

**Operation and Maintenance**

Output 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. For a high-impedance (Hi-Z) mic input, connect a Lo-Z balanced cable to a Hi-Z matching transformer at the equipment input.

Take care to keep foreign particles from entering the windscreen. An accumulation of iron or steel filings on the diaphragm, and/or foreign material in the windscreen's mesh surface, can degrade performance.

**Architect’s and Engineer’s Specifications**

The microphone shall be a moving coil dynamic designed for handheld or stand use. It shall have an omnidirectional polar pattern and a frequency response of 80 Hz to 16,000 Hz. Nominal open-circuit output voltage shall be 2.8 mV at 1V, 1 Pascal. Output shall be low impedance balanced (300 ohms).

The output of the microphone shall be a 3-pin XLRM-type connector.

The microphone shall be 150.5 mm (5.93") long and have a head diameter of 35.8 mm (1.41"). Weight shall be 160 grams (5.6 oz). The microphone shall include a stand clamp and a soft protective pouch.