

# PRO 8HEx

## Hypercardioid Dynamic Headworn Microphone

pro series microphones



### Features

- **Ideal for drummers, keyboard players, guitarists or anyone requiring hands-free operation**
- **High-ENERGY® neodymium element for articulate vocal reproduction**
- **Low-visibility headband provides stable, comfortable fit**
- **Pivot-mounted flexible mic boom descends from left or right side**
- **Hypercardioid polar pattern improves isolation of desired sound source**
- **Rugged design and construction for reliable performance**
- **Also available in a wireless model, PRO 8HEcW**

### PRO 8HEx Description

The PRO 8HEx is a headworn dynamic microphone with a hypercardioid polar pattern. It is designed for use by performing musicians and others who require professional-quality vocal pickup with hands-free operation.

The microphone's hypercardioid polar pattern provides a 100° angle of acceptance.

The microphone includes a 2.2 m (7.2') permanently attached miniature cable terminated with a 3-pin XLRM-type connector.

The microphone comes equipped with a cable clip, a large windscreen and a small windscreen.

### PRO 8HEcW Description

The microphone is also available in a wireless model, the PRO 8HEcW. The PRO 8HEcW includes a 1.4 m (55") permanently attached miniature cable terminated with a locking 4-pin connector for use with Audio-Technica UniPak® body-pack transmitters. The PRO 8HEcW dimensions, polar pattern and included large windscreen are identical to those of the PRO 8HEx.

### 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.

For maximum stability and minimum visibility, the headband should be worn around the back of the head, with each cushioned support pad resting on the temple in front of the ear. The cable should remain clipped to the headband, with some slack at the boom connection. The headset is designed so the microphone descends from the left or right side.

After use in high-moisture applications, such as aerobics instruction, on-stage performing, etc., remove the foam screen, wipe off the headset

with a towel and permit them to air-dry. (Do not store in a closed space, such as a plastic bag, until all moisture has evaporated.)

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 headworn use. It shall have a hypercardioid polar pattern with a uniform 100° angle of acceptance and a frequency response of 200 Hz to 18,000 Hz. Nominal open-circuit output voltage shall be 1.7 mV at 1 V, 1 Pascal. Output shall be low impedance balanced (600 ohms).

The microphone shall have a 2.2 m (7.2') permanently attached miniature cable, terminating in a 3-pin XLRM-type output connector.

The microphone shall be a headworn design with an element diameter of 20.4 mm (0.80"). Weight shall be 60 grams (2.1 oz). The microphone shall include a cable clip, a large windscreen and a small windscreen.

The microphone shall also be available in a wireless model with a 1.4 m (55") permanently attached miniature cable terminated with a locking 4-pin connector for use with Audio-Technica UniPak® body-pack transmitters. The wireless model dimensions, polar pattern and included large windscreen shall be identical to those of the wired model.

The Audio-Technica PRO 8HEx [PRO 8HEcW-wireless] is specified.

**Specifications**

|                                  |  |
|----------------------------------|--|
| <b>Element</b>                   | Dynamic  |
| <b>Polar pattern</b>             | Hypercardioid  |
| <b>Frequency response</b>        | 200-18,000 Hz  |
| <b>Open circuit sensitivity</b>  | -55 dB (1.7 mV) re 1V at 1 Pa  |
| <b>Impedance</b>                 | 600 ohms   |
| <b>Weight</b>                    | 60 g (2.1 oz)  |
| <b>Dimensions</b>                | Microphone: 20.4 mm (0.80") diameter<br>Headset: 120.0 mm (4.72") nominal at widest point, 80.5 mm (3.17") flexible boom         |
| <b>Output connector</b>          | 3-pin XLRM-type on cable   |
| <b>Cable</b>                     | 2.2 m (7.2') long, 2.8 mm (0.11") diameter miniature audio cable permanently attached between microphone and XLRM-type connector |
| <b>Audio-Technica case style</b> | M19  |
| <b>Accessories furnished</b>     | AT8439 cable clip; AT8139L large windscreen; AT8139S small windscreen  |

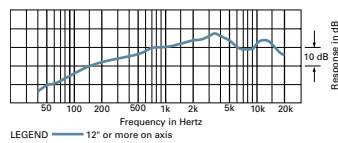
In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

1 Pascal = 10 dynes/cm<sup>2</sup> = 10 microbars = 94 dB SPL

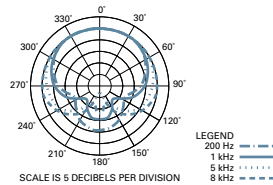
Specifications are subject to change without notice.



frequency response: 200–18,000 Hz



polar pattern



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