



audio-technica BP892X MicroSet Omnidirectional Condenser Headworn Microphones User Manual

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Thank you for purchasing this product. Before using the product, read through the user manual to ensure that you will use the product correctly. Please keep this manual for future reference.

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Features

- Subminiature omnidirectional condenser capsule offers extremely intelligible, natural vocal reproduction
- Inconspicuous, lightweight headset with capsule diameter of just 2.6 mm is ideal for applications requiring minimum visibility
- Ergonomic under-ear design – the flexible, lightweight, contoured loop hooks behind the ear for an ultra-secure, comfortable fit even for those wearing glasses
- Detachable, field-replaceable cable with robust connector at the earset and a variety of available output terminations
- Handles high sound pressure levels with ease
- Wired version's power module (AT8545) includes a high-pass filter that provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality
- Wirekess version equipped with cW-style locking or cH-style screw-down 4-pin termination for Audio-Technica wireless systems
- Comes with the AT8464x Dual-Ear Adapter Kit that converts the single-ear MicroSet to a unit that's worn on both ears for maximum stability and comfort
- Beige colour (-TH) model and constructed of hypoallergenic materials

Notes on use

The BP892x requires 11V to 52V phantom power for operation, and includes a 1.4 m permanently attached miniature cable. Its free end connects to the provided AT8545 power module via a locking 4-pin connector. The connector is also compatible with Audio-Technica cW and cH type body-pack transmitters. The output of the power module is a 3-pin XLRM-type connector.

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.

Safety precaution

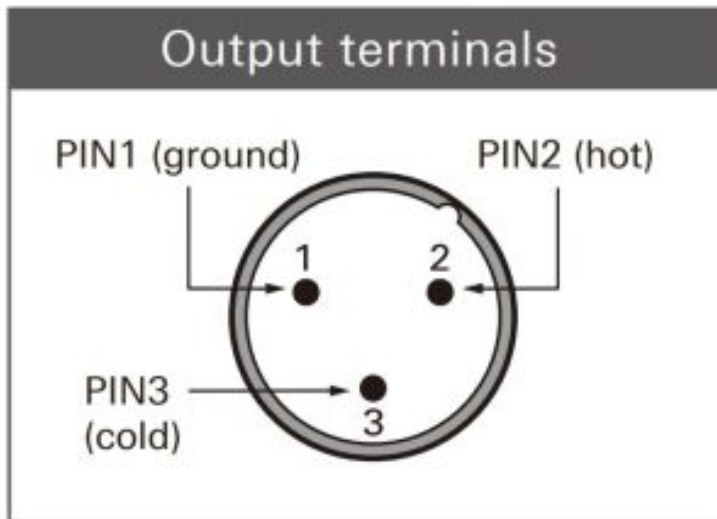
Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

Cautions for the product

- Do not subject the product to strong impact to avoid malfunction.
- Do not disassemble, modify or attempt to repair the product.
- Do not handle the product with wet hands to avoid electric shock or injury.
- Do not store the product under direct sunlight, near heating devices or in a hot, humid or dusty place.

Connection procedure

Connect the output terminals of AT8545 power module to a device that has a microphone input (balanced input) compatible with a phantom power supply. The output connector is an XLRM-type with polarity as shown in the figure below.



This product requires 48 V DC phantom power.

Specifications

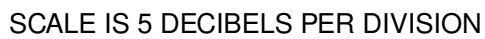
Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Omnidirectional
Frequency response	20-20,000 Hz
Low Frequency response	80 Hz, 18 dB/octave (wired only)
Open circuit sensitivity	-43 dB (7.2 mV) re 1V at 1 Pa
Impedance	250 ohms (wired only)
Maximum input sound level	136 dB SPL (1 kHz at 3% THD)
Dynamic range (typical)	104 dB (1 kHz at Max SPL) (wired only)
Signal-to-noise ratio*	63 dB (1 kHz at 1 Pa)
Phantom power requirements	11-52 V DC, 2 mA typical (wired only)
Current consumption	0.2 mA typical at 5V (wireless only)
Voltage range	2.5-10V (wireless only)
Switch	Flat, roll-off (wired only)
Weight	Microphone, boom and earpiece: 2.6 g Power module (wired only): 85 g
Dimensions	Microphone: 9.5 mm long, 2.6 mm diameter Boom: 98.5 mm long, 1.07 mm diameter Power module: 100.0 mm long, 18.9 mm diameter
Output connector	Integral 3-pin XLRM-type
Cable	1.4 m long (permanently attached to microphone) 1.6 mm diameter, 2- or 3-conductor shielded cable (termination dependent)
Included accessories	AT8440 cable clip; AT8464x dual-ear mount; AT8157 windscreens; AT8171 windscreens; two AT8156 element covers; moisture guard; carrying case (wired only) – AT8545 power module; belt clip

- 1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

Typical, A-weighted, using Audio Precision System One.

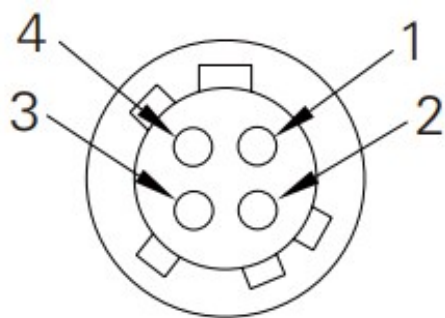
For product improvement, the product is subject to modification without notice.

Polar pattern



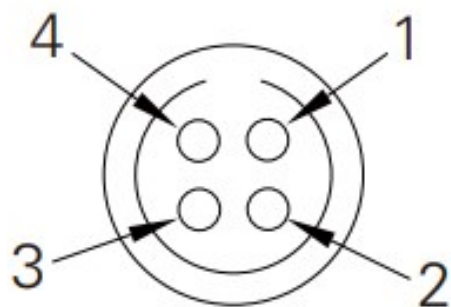
— 0°, 50cm
- - - Roll-off

BP892xcW, BP892xcW-TH – Terminated with locking 4-pin connector for use with A-T UniPak® body-pack transmitters



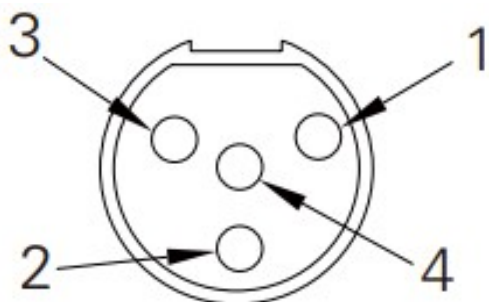
	Pin 1	Pin 2	Pin 3	Pin 4
Function	Ground / Shield	Instrument	Mic Audio	Blas + In
Wire Colour	Green	Jumper to Pin 1	Copper Colour	Red

BP892xcH, BP892xcH-TH – Terminated with locking 4-pin connector for use with A-T CH body-pack transmitters



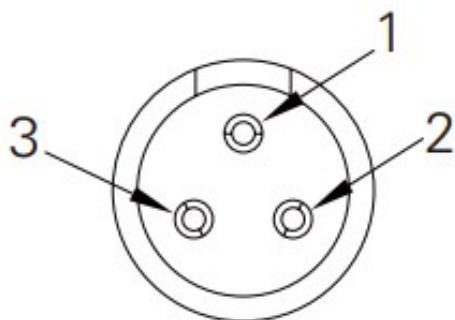
	Pin 1	Pin 2	Pin 3	Pin 4
Function	Ground / Shield	Instrument	Mic Audio	Blas + In
Wire Colour	Green	Jumper to Pin 1	Copper Colour	Red

BP892xcT4, BP892xcT4-TH – Terminated using TA4F-type connector



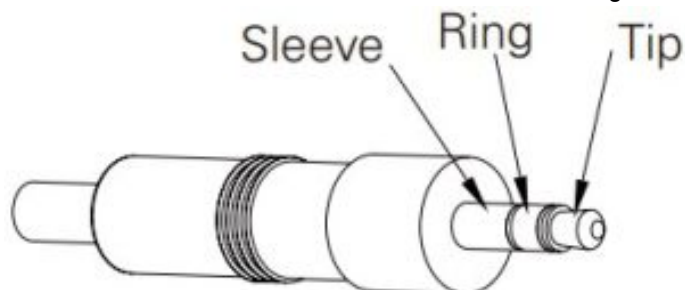
	Pin 1	Pin 2	Pin 3	Pin 4
Function	Ground / Shield	Blas + In	Mic Audio	Source Load
Wire Colour	Green	Red	Copper Colour	Jumper to Pin 3

BP892xcL4, BP892xcL4-TH – Terminated using Lemo®



	Pin 1	Pin 2	Pin 3	Shell / Case
Function	N/C	N/C	Blas + In, Mic Audio	Ground / Shield
Wire Colour	Open	Open	Red	Green

BP892xcLM3, BP892xcLM3-TH – Terminated using locking 3.5 mm connector



	Sleeve	Ring	Tip
Function	Ground / Shield	Mic Audio	Blas + In
Wire Colour	Green	Copper Colour	Red

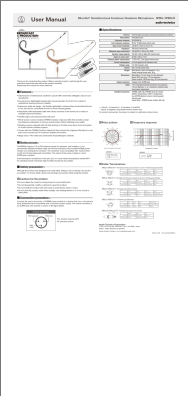
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Documents / Resources

	<p>audio-technica BP892X MicroSet Omnidirectional Condenser Headworn Microphones [pdf] User Manual BP892X, BP892XTH, MicroSet Omnidirectional Condenser Headworn Microphones</p>
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References

-  [Audio-Technica Corporation](#)