

# BP894x MicroSet® Cardioid Condenser Headworn Microphones



Broadcast & Production Microphones

#### **Features**

- Features a rotating capsule housing with talk-side indicator for perfect polar pattern placement from either ear
- Subminiature cardioid 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 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
- 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
- Constructed of hypoallergenic materials

#### **BP894x Description**

The BP894x is a headworn condenser microphone with cardioid polar pattern. It is designed to provide intelligible natural audio for stage and television talent, lecturers, and worship leaders.

The microphone includes a 1.4 m (55") detachable, field-replaceable cable that is available in a variety of terminations for use in wired and wireless applications, as indicated below.

## **Cable Terminations**

BP894x, BP894x-TH: Terminated with a cH-style screw-down 4-pin connector for use with the included AT8545 power module.

BP894xcH, BP894xcH-TH: Terminated with a cH-style screw-down 4-pin connector for use with Audio-Technica wireless systems featuring cH-style connector.

BP894xcW, BP894xcW-TH: Terminated with a cW-style locking 4-pin connector for use with Audio-Technica wireless systems featuring cW-style connector.

BP894xcLM3, BP894xcLM3-TH: Terminated for Sennheiser® wireless systems using locking 3.5 mm connector.

BP894xcT4, BP894xcT4-TH: Terminated with TA4F-type connector for Shure® wireless systems.

Model numbers ending in "TH" are beige.

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The wired models (BP894x, BP894x-TH) require 11V to 52V phantom power for operation. Included for this purpose is the AT8545 power module, which is equipped with a cH-style screw-down 4-pin input connector and a 3-pin XLRM-type output connector. A recessed switch in the power module permits choice of flat response or low-frequency roll-off (via integral 80 Hz high-pass UniSteep® filter) to help control undesired ambient noise. A belt clip is also included to hold the power module.

All models of the microphone come with a cable clip, a dual-ear adapter kit, two windscreens, a moisture guard, and a protective carrying case. The microphone is available in black and beige.

# **Operation and Maintenance**

The BP894x requires 11V to 52V phantom power for operation (wired only).

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.

The AT8545 power module included with wired models is equipped with an 80 Hz highpass UniSteep® filter that 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. To engage the UniSteep® filter, use the end tip of a paperclip or other small pointed instrument to slide the switch toward the "bent" line.

The flexible design of the BP894x MicroSet enables it to be worn on either the left or right ear. Bend a gentle upward curve in the microphone's boom, then hook the lightweight contoured loop around the back of your ear, so that the boom extends from the bottom of your ear. Adjust the boom as needed to follow the contour of your face, positioning the microphone near the corner of your mouth. The microphone has a large acoustical sweet spot; experiment with placement near the corner of your mouth for optimal performance.

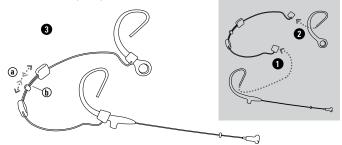
The BP894x features a unique 180-degree rotating capsule housing, which must be adjusted when moving the microphone from one ear to the other. A talk-side indicator shows you which way to turn the capsule housing for your desired position. Simply locate the white dot on the capsule housing and rotate the capsule until the white dot faces your mouth.

A cable clip is provided for strain relief, allowing the microphone to remain securely in place without the weight of the cable pulling on the headset. To use the clip, slip the cable into the clip's cable-holding groove, then attach the clip to your clothing, leaving enough slack in the microphone cable to allow for free, comfortable motion.

The included AT8464x Dual-Ear Adapter Kit allows you to convert the BP894x to a dualear unit for increased stability and comfort. The BP894x attaches to either side of the adapter so that the microphone can be worn to either the left or right of your mouth. The headband easily adjusts to fit both children and adults.

### How to use the Dual-Ear Microphone Mount

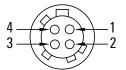
- Insert the rounded end of your BP894x ear hook into the larger opening of the adapter's left or right tapered holder. Firmly seat the ear hook in the tapered holder.
- Insert the small rounded end of the additional supplied ear hook into the larger opening of the adapter's remaining tapered holder. Firmly seat the ear hook in the tapered holder.
- 3. Open the adapter's adjustable behind-the-neck headband to its maximum position by pushing the headband's adjusting tabs together (a). Put the behind-the-neck headband on, hooking the ear hooks over your ears. Adjust the fit of the headband as needed by sliding the headband's adjusting tabs until you arrive at a secure, comfortable fit (a). Attach the microphone cable to the cable clip positioned between the headband's adjusting tabs (b).

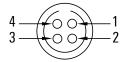


The donut-shaped moisture guard is provided to protect the element from sweat and moisture. Position the moisture guard as close to the element as possible to provide maximum protection. To remove the moisture guard, first remove the element cover and place it out of harm's way. Gently slide the moisture guard over the element. Replace the element cover.

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.

# **Wireless Termination Diagrams**



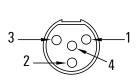


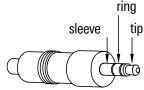
BP894xcW, cW-TH

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

# BP894xcH, cH-TH

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





BP894xcT4, cT4-TH

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

BP894xcLM3, cLM3-TH

	Function	Wire Color
Sleeve	Ground/Shield	Green
Ring	Mic Audio	Copper Color
Tip	Bias + In	Red

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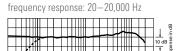
## **Specifications**

Flater Polar pattern Polar pattern Frequency response Popen circuit sensitivity Polarized condenser Popen circuit sensitivity Polarized condenser Popen circuit sensitivity Po	Specifications	
Frequency response Low frequency roll-off Open circuit sensitivity Impedance Dynamic range (typical) Signal-to-noise ratio¹ Phantom power requirements Current consumption Weight Weight Weight Dimensions  Dimensions  Dimensions  Cutput connector (power module)  Cable  Audio-Technica case style  Audio-Technica case style  Low Maximum input sound level Accessories furnished  20-20,000 Hz 80 Hz, 18 dB/octave (wired only)  -47 dB (4.3 mV) re 1V at 1 Pa  250 ohms (wired only)  135 dB SPL, 1 kHz at 3% T.H.D. Max SPL (wired only)  98 dB, 1 kHz at 3% T.H.D. Max SPL (wired only)  90 dB, 1 kHz at 1 Pa  11-52V DC, 2 mA typical (wired only)  0.25 mA typical at 5V (wireless only)  11-52V DC, 2 mA typical (wired only)  12-52V DC, 2 mA typical (wired only)  13-5-10V (wireless only)  13-5-10V (wireless only)  14-7 dB (4.3 mV) re 1V at 1 Pa  15-64 N dB, 2 dt 3% T.H.D.  15-7 dB, 1 kHz at 3% T.H.D.  16-7 dB, 1 kHz at 3% T.H.D.  17-8 dB, 1 kHz at 3% T.H.D.  18-7 dB, 1 kHz at 3% T.H.D.  19-7 dB, 1 kHz at 3% T.H.D.  19-7 dB, 1 kHz at 3% T.H.D.  10-8 dB, 1 kHz at 3% T.H.D.  10-8 dB, 1 kHz at 3% T.H.D.  10-8 dB, 1 kHz at 3% T.H.D.  11-52V DC, 2 mA typical (wired only)  11-52V DC	Element	
Low frequency roll-off Open circuit sensitivity Impedance Impedance  Maximum input sound level Dynamic range (typical)  Signal-to-noise ratio¹ Phantom power requirements Current consumption Voltage range Switch Weight Weight  Dimensions  Dimensions  Dimensions  Cutput connector (power module)  Cable  Accessories furnished  Accessories furnished  Accessories furnished  Maximum input sound level 250 ohms (wired only) 250 ohms (wired only) 350 ohms ohms ohms ohms ohms ohms ohms ohms	Polar pattern	Cardioid
Open circuit sensitivity Impedance Impedance Oynamic range (typical) Signal-to-noise ratio¹ Phantom power requirements Current consumption Voltage range Switch Weight Object Dimensions  Dimensions  Dimensions  Dimensions  Cutput connector (power module) Cable  Audio-Technica case style  Audio-Technica case style  Maximum input sound level 135 dB SPL, 1 kHz at 3% T.H.D. Max SPL (wired only) 57 dB, 1 kHz at 1 Pa 11-52V DC, 2 mA typical (wired only) 0.25 mA typical at 5V (wireless only) 35-10V (wireless only) 35-10V (wireless only) Microphone, boom & earpiece: 2.0 g (0.07 oz) (without cable) Power module (wired only): 85 g (3.0 oz) Microphone: 9.67 mm (0.38") long, 1.07 mm (0.04") diameter Boom: 98.4 mm (3.87") long, 1.07 mm (0.04") diameter Power module (wired only): 100.0 mm (3.94") long, 18.9 mm (0.74") diameter Integral 3-pin XLRM-type Detachable 1.4 m (55") long, 1.6 mm (0.06") diameter, 2- or 3-conductor shielded cable (termination dependent)  M40 AT8545 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt	Frequency response	20-20,000 Hz
Impedance 250 ohms (wired only)  Maximum input sound level 135 dB SPL, 1 kHz at 3% T.H.D.  Dynamic range (typical) 98 dB, 1 kHz at 3% T.H.D. Max SPL (wired only)  Signal-to-noise ratio 57 dB, 1 kHz at 1 Pa 11-52V DC, 2 mA typical (wired only)  Outage range 35-10V (wireless only)  Switch Weight Wirophone, boom & earpiece: 2.0 g (0.07 oz) (without cable) Power module (wired only): 85 g (3.0 oz)  Dimensions Microphone: 9.67 mm (0.38") long, 2.6 mm (0.10") diameter Boom: 98.4 mm (3.87") long, 1.07 mm (0.04") diameter Power module (wired only): 100.0 mm (3.94") long, 18.9 mm (0.74") diameter Integral 3-pin XLRM-type  Output connector (power module) Integral 3-pin XLRM-type  Detachable 1.4 m (55") long, 1.6 mm (0.06") diameter, 2- or 3-conductor shielded cable (termination dependent)  Audio-Technica case style M40  Accessories furnished At8454 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt	Low frequency roll-off	80 Hz, 18 dB/octave (wired only)
Maximum input sound level Dynamic range (typical)  Bignal-to-noise ratio¹ Signal-to-noise ratio¹ To dB, 1 kHz at 3% T.H.D. Max SPL (wired only)  Signal-to-noise ratio¹ To dB, 1 kHz at 1 Pa  Phantom power requirements Current consumption Voltage range Switch Weight Weight Weight Wicrophone, boom & earpiece: 2.0 g (0.07 oz) (without cable) Power module (wired only): 85 g (3.0 oz)  Dimensions Microphone: 9.67 mm (0.38") long, 2.6 mm (0.10") diameter Boom: 98.4 mm (3.87") long, 1.07 mm (0.04") diameter Power module (wired only): 100.0 mm (3.94") long, 18.9 mm (0.74") diameter Integral 3-pin XLRM-type Detachable 1.4 m (55") long, 1.6 mm (0.06") diameter, 2- or 3-conductor shielded cable (termination dependent)  Audio-Technica case style Accessories furnished Artes45 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt	Open circuit sensitivity	-47 dB (4.3 mV) re 1V at 1 Pa
Dynamic range (typical)  Signal-to-noise ratio¹ Phantom power requirements Current consumption Voltage range Switch Weight Weight Dimensions  Dimensions  Dimensions  Cutput connector (power module)  Cable Accessories furnished  Accessories furnished  At 36 d, 1 kHz at 37 Pa  11-52V DC, 2 mA typical (wired only) 0.25 mA typical at 5V (wireless only) 3.5-10V (wireless only) Flat, roll-off (wired only) Wicrophone, boom & earpiece: 2.0 g (0.07 oz) (without cable) Power module (wired only): 85 g (3.0 oz)  Microphone: 9.67 mm (0.38") long, 2.6 mm (0.10") diameter Boom: 98.4 mm (3.87") long, 1.07 mm (0.04") diameter Power module (wired only): 100.0 mm (3.94") long, 18.9 mm (0.74") diameter Integral 3-pin XLRM-type Detachable 1.4 m (55") long, 1.6 mm (0.06") diameter, 2- or 3-conductor shielded cable (termination dependent)  Audio-Technica case style  ACCESSORIES furnished AT8545 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt	Impedance	250 ohms (wired only)
(wired only)  Signal-to-noise ratio¹ Phantom power requirements Current consumption Voltage range Switch Weight Weight Dimensions  Dimensions  Curpent consumption  Voltage range Switch Weight Weight Weight Microphone, boom & earpiece: 2.0 g (0.07 oz) (without cable) Power module (wired only): 85 g (3.0 oz)  Microphone: 9.67 mm (0.38") long, 2.6 mm (0.10") diameter Boom: 98.4 mm (3.87") long, 1.07 mm (0.04") diameter Power module (wired only): 100.0 mm (3.94") long, 18.9 mm (0.74") diameter  Integral 3-pin XLRM-type Detachable 1.4 m (55") long, 1.6 mm (0.06") diameter, 2- or 3-conductor shielded cable (termination dependent)  Audio-Technica case style Accessories furnished Areasonies furnished	Maximum input sound level	135 dB SPL, 1 kHz at 3% T.H.D.
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Power module (wired only): 100.0 mm (3.94") long, 18.9 mm (0.74") diameter  Integral 3-pin XLRM-type  Cable  Detachable 1.4 m (55") long, 1.6 mm (0.06") diameter, 2- or 3-conductor shielded cable (termination dependent)  Audio-Technica case style  Accessories furnished  AT8545 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt		, , ,
(3.94") long, 18.9 mm (0.74") diameter  Output connector (power module)  Cable  Cable  Detachable 1.4 m (55") long, 1.6 mm (0.06") diameter, 2- or 3-conductor shielded cable (termination dependent)  M40  Accessories furnished  AT8545 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt		,
Output connector (power module)  Cable  Cable  Detachable 1.4 m (55") long, 1.6 mm (0.06") diameter, 2- or 3-conductor shielded cable (termination dependent)  Audio-Technica case style  Accessories furnished  ACCESSORIES furnished  AT8545 power module (wired only);  AT8464x dual-ear adapter kit;  AT8440 cable clip; AT8163 windscreen;  AT8171 windscreen; moisture guard; belt		* * * * * * * * * * * * * * * * * * * *
Cable Detachable 1.4 m (55") long, 1.6 mm (0.06") diameter, 2- or 3-conductor shielded cable (termination dependent)  Audio-Technica case style Accessories furnished AT8545 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt	0	, , ,
diameter, 2- or 3-conductor shielded cable (termination dependent)  Audio-Technica case style  Accessories furnished  AT8545 power module (wired only);  AT8464x dual-ear adapter kit;  AT8440 cable clip; AT8163 windscreen;  AT8171 windscreen; moisture guard; belt	. "	0 1 /1
Audio-Technica case style Accessories furnished AT8464x dual-ear adapter kit; AT840 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt	Cable	
Audio-Technica case style Accessories furnished AT8545 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt		·
Accessories furnished AT8545 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt	Audio Tochnica caso stylo	
AT8464x dual-ear adapter kit; AT8440 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt		
AT8440 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt	Accessories furnished	
AT8171 windscreen; moisture guard; belt		•
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In the interest of standards development, ATILS		onp (mind only), duriying dubb

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

Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL
 Typical, A-weighted, using Audio Precision System One.
 Specifications are subject to change without notice.





50 100 200 500 1k 2k
Frequency in Hertz
LEGEND NEAR FIELD: 2-3 cm (0.8"-1.2")

