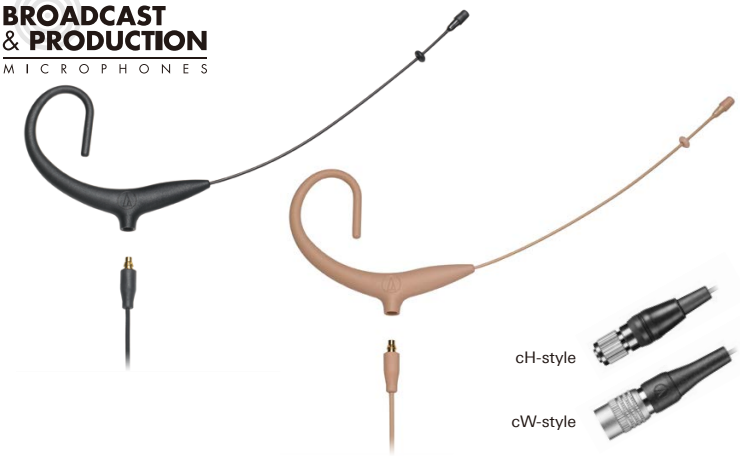
User Manual

MicroSet® Omnidirectional Condenser Headworn Microphones BP892x / BP892xTH

audio-technica

BROADCAST & PRODUCTION MICROPHONES



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.

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

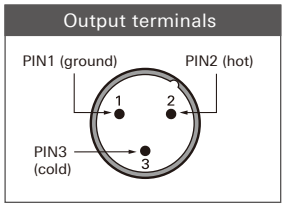
Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

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.



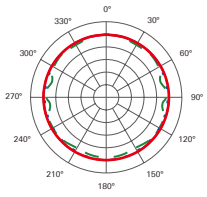
This product requires 48 V DC phantom power.

Specifications

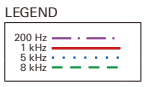
Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Omnidirectional
Frequency response	20-20,000 Hz
Low Frequency response	80 Hz, 18 dB/octave (wired only)
Open circuit sensitivity	-43 dB (7.2 mV) re 1V at 1 Pa
Impedance	250 ohms (wired only)
Maximum input sound level	136 dB 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/cm^2 = 10 microbars = 94 dB SPL
* Typical, A-weighted, using Audio Precision System One.
For product improvement, the product is sublect to modification without notice.

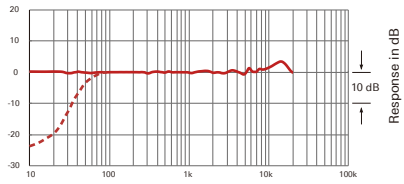
Polar pattern



SCALE IS 5 DECIBELS PER DIVISION



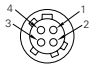
Frequency response



Frequency in Hertz

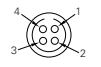
Cable Terminations

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



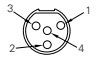
	Pin 1	Pin 2	Pin 3	Pin 4
Function	Ground / Shield	Instrument	Mic Audio	Bias + In
Wire Colour	Green	Jumper to Pin 1	Copper Colour	Red

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	Bias + In
Wire Colour	Green	Jumper to Pin 1	Copper Colour	Red

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

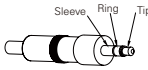


	Pin 1	Pin 2	Pin 3	Pin 4
Function	Ground / Shield	Bias + In	Mic Audio	Source Load
Wire Colour	Green	Red	Copper Colour	Jumper to Pin 3

BP892xcL4, BP892xcL4-TH – Terminated using Lemo® connector

	Pin 1	Pin 2	Pin 3	Shell / Case
Function	N/C	N/C	Bias + 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	Bias + In
Wire Colour	Green	Copper Colour	Red

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BROADCAST & PRODUCTION MICROPHONES

感谢您购买本产品。在使用产品之前，请全文浏览本用户手册以确保您将正确地使用本产品。请妥善保存本手册，以供将来参考。

■ 产品特点

- 超小型的全指向电容收音头，提供非常清晰而自然的声音
- 不起眼的轻巧耳挂，收音头直径仅为2.6 mm，非常适合需要作隐藏性的应用
- 符合人体工学的挂耳式设计 - 收藏于耳后的环形挂钩，灵活而轻巧，即使戴上眼镜也能有安全和舒适的感觉
- 可拆卸式的更换导线设计，在耳挂处具有坚固的连接器，并可配上各种可用的输出终端
- 能轻易地处理高声压电平的输入
- 有线版本的电源模块(AT8545)设有高通滤波器，可提供陡峭的低频衰减，从而改善声音拾取，而不会影响语音质量
- 无线版本的锁固式4针话筒输出端子，可配套连接于有线供电模组，或所有鐵三角 Audio-Technica cW 或 cH 型的盒式无线发射机
- 配备AT8464x双耳式话筒挂耳架，可把只有单耳挂设置的话筒，能非常稳固而舒适地佩戴于双耳上
- 米黄色(肤色-TH)型号，挂耳由防过敏材料制成

■ 使用注意事项

BP892x 需要以11V 至 52V 幻象供电工作，并配置有1.4米长度，幼细而固定装置的连接线，输出为锁固式4 针端子，可直接连接于附属的AT8539 供电模组工作，亦可配置于所有鐵三角Audio-Technica cW 或 cH 型的盒式无线发射机中。供电模组的输出端为内置3 针XLRM 卡农公头。

把话筒暴露于高温中可能导致输出电平逐渐及永久性减弱，应避免将话筒留在日晒的地方或长时间置于温度超过43°C的地方，而极高湿度也应避免。

■ 安全预防措施

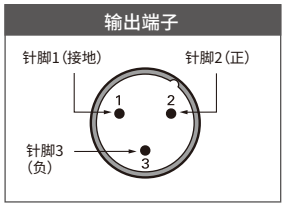
虽然本产品采用安全设计，但使用不当仍可能发生事故。为了确保安全，使用本产品时请注意全部警告和提醒。

■本产品注意事项

- 设切勿让本产品遭受强烈冲击，以避免发生故障。
- 屏切勿拆开、改装或尝试维修本产品。
- 独切勿用湿手握持本产品，以免触电或受伤。
- 切勿将本产品存放在阳光直射的地方、加热装置附近或者炎热、潮湿或多尘的地方。

■ 连接步骤

将AT8539 供电模组的输出端子连接到具有兼容幻象电源的话筒输入（平衡输入）的设备。输出接口是 XLRM 型接口，其极性如下图所示。



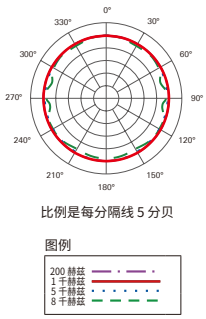
本产品使用直流 48V 幻象电源。

■ 规格

元件	静电型电容话筒
指向性	全方向指向性
频率响应	20-20,000 Hz
高通滤波	80 Hz，18 dB/octave (有线型号)
开路灵敏度	-43 dB（7.2mV) re 1V at 1Pa
阻抗	250 欧姆 (有线型号)
最大输入声压级	136 dB SPL（1kHz 于 3% THD)
动态范围 (典型)	104 dB （1kHz 于最大声压级) (有线型号)
信噪比*	63 dB （1kHz at 1Pa)
幻象供电	直流 11-52V，2mA 典型 (有线型号)
耗电	0.2 mA 典型于 5V (无线型号)
电压范围	2.5-10V (无线型号)
开关	平直，高通滤波 (有线型号)
重量	收音头(不含连线): 2.6 克 供电模组 (有线型号): 85 克
尺寸	收音头: 长 9.5 mm, 直径 2.6 mm 连杆: 长 98.5 mm, 直径 1.07 mm 供电模组: 长 100.0 mm, 直径 18.9 mm
输出端子 (供电模组)	内置式 3 针卡农公头
连接线	长 1.4 米 (固定连接于话筒), 直径 1.6 mm , 2或3芯屏蔽式连线并配置连接端子 (连接端子类型视乎不同型号)
附带配件	AT8440 接线固定夹; AT8464x 双耳式话筒挂架; AT8157 防风海棉; AT8171 防风海棉; 两个 AT8156 收音头保护盖; 防汗水环; 便携保护袋 (有线型号)- AT8545供电模组; 腰带夹

• 1 帕＝ 10 达因 / 平方厘米＝ 10 微巴＝ 94 dB SPL
*典型，A 计权，使用 Audio Precision System One
因产品改进，本产品会随时改装，恕不另行通知。

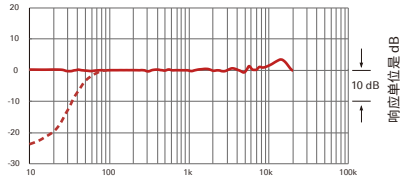
■指向性



比例是每分隔线 5 分贝

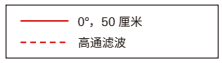
图例

■频率响应



频率单位是赫兹

图例



■接线端子

BP892xcW, BP892xcW-TH – 以锁固式4式针端子，使用于鐵三角 A-T UniPak® 盒式无线发射机

	针脚1	针脚2	针脚3	针脚4
功能	地线 / 屏蔽	乐器	话筒音频	偏压+输入
导线颜色	绿色	与 针脚1 跳线	透明铜线	红色

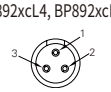
BP892xcH, BP892xcH-TH – 以锁固式4式针端子，使用于鐵三角 A-T CH型 盒式无线发射机

	针脚1	针脚2	针脚3	针脚4
功能	地线 / 屏蔽	乐器	话筒音频	偏压+输入
导线颜色	绿色	与 针脚1 跳线	透明铜线	红色

BP892xcT4, BP892xcT4-TH – 以TA4F端子

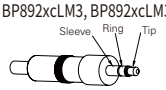
	针脚1	针脚2	针脚3	针脚4
功能	地线 / 屏蔽	偏压+输入	话筒音频	音源负载
导线颜色	绿色	红色	透明铜线	与 针脚3 跳线

BP892xcL4, BP892xcL4-TH – 以Lemo® 端子



	针脚1	针脚2	针脚3	外壳
功能	空置	空置	偏压+输入，话筒音频	地线 / 屏蔽
导线颜色	不连接	不连接	红色	绿色

BP892xcLM3, BP892xcLM3-TH – 以锁固式3.5 mm端子



	Sleeve	Ring	Tip
功能	地线 / 屏蔽	话筒音频	偏压+输入
导线颜色	绿色	透明铜线	红色

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