

# QEx Headset Microphone


Fitness Headset Microphone



Owner's Manual

**SAMSON**<sup>®</sup>

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 If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private household in the 28 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For Countries not mentioned above, please contact your local authorities for a correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

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278-B Duffy Ave

Hicksville, New York 11801

Phone: 1-800-3-SAMSON (1-800-372-6766)

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## Introduction

Congratulations on your purchase of the Samson QEx Fitness Headset Microphone. The QEx is a lightweight, adjustable headset microphone specifically designed for fitness instructors and active performers. With its bidirectional pickup pattern, the QEx provides superb isolation, resulting in more gain before feedback with clear and articulate sound in live sound applications. The comfortable and water and sweat-resistant design adjustable stainless steel metal gooseneck, make the QEx perfect for fitness and a variety of other high-energy applications.

The QEx Fitness Headset Microphone is well-suited for use with Samson wireless systems, and with four included adapter cables, the microphone can be used with most popular wireless systems. Other accessories included in the kit are a clothing collar clip, four windscreens and a carry case that holds the QEx and all the accessories.

In the box, you'll find a registration card enclosed, don't forget to follow the instructions so that you can receive online technical support and so we can send you updated information about this and other Samson products in the future. We recommend you keep the following records for reference, as well as a copy of your sales receipt.

Serial number: \_\_\_\_\_

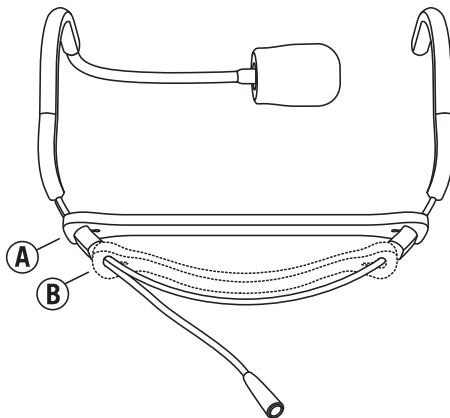
Date of purchase: \_\_\_\_\_

If you have any questions or comments regarding the QEx Fitness Headset Microphone or any other products from Samson, do not hesitate to contact us at **support@samsontech.com**.

With proper care and maintenance, your QEx Fitness Headset Microphone will operate trouble-free for many years. Should your QEx Fitness Headset Microphone ever require servicing, a Return Authorization (RA) number must be obtained before shipping your unit to Samson. Without this number, the unit will not be accepted. Please visit **www.samsontech.com/ra** for an RA number prior to shipping your unit. Please retain the original packing materials and, if possible, return the unit in its original carton. If your QEx Fitness Headset Microphone was purchased outside of the United States, contact your local distributor for warranty details and service information.

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## Fitting the QEx Microphone

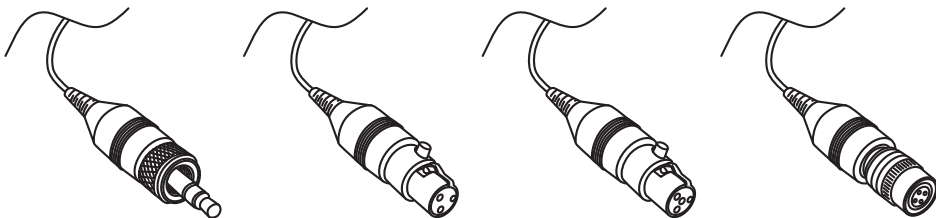


For added comfort and fit, the QEx headset includes an adjustable headband. To fit the headband, pull elastic strap over the ear hooks and locate in front of the stop point (A). For larger sizing, the headband can be moved behind the stop point (B) or completely removed by sliding the elastic band over the ear hooks and microphone capsule.

*Note: When removing the headband, first take off the microphone windscreen.*

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## Connector Cables



The QEx includes four cables with adapters for some of the most popular wireless microphone beltpack transmitters.



### **3.5mm Connector**

Works with Sennheiser® wireless systems



### **Hirose® 4-Pin Connector**

Works with most Audio-Technica® wireless systems



### **Switchcraft® TA3F Connector**

Works with Samson AirLine ATX Series, Concert Series and most AKG® wireless systems



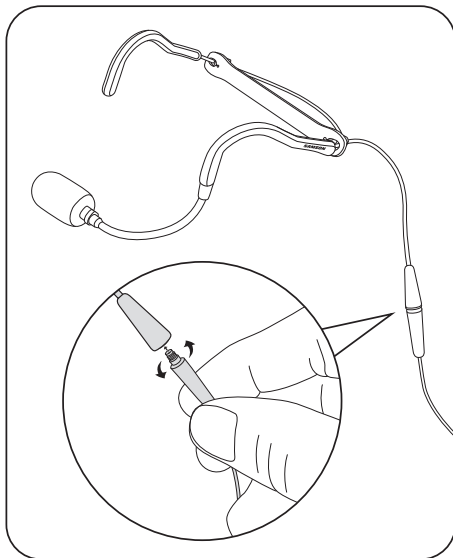
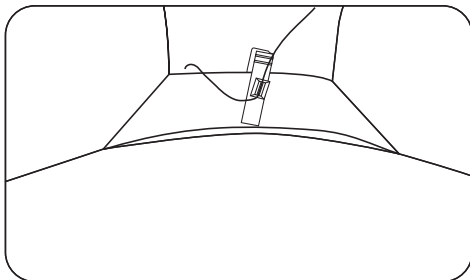
### **Switchcraft® TA4F Connector**

Works with most Shure® wireless systems

## Connector Cables

To connect the cable to the headset:

- Choose the right cable and connector that works with your wireless system.
- Line the cable up to the threaded terminal on the back of the QEx and screw the cable into the headset.
- Do not over tighten the cable.
- Attach the included collar clip on the back of your shirt collar and run the mic wire from the QEx Fitness Headset to the wireless body pack. Leave enough cable to allow you to turn your head from side to side.

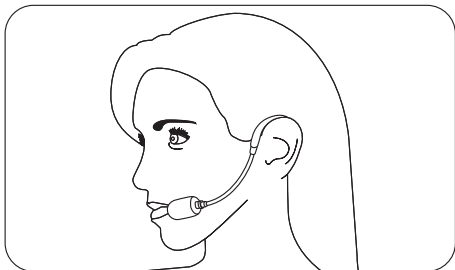


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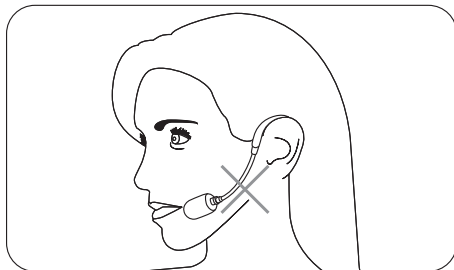
## Mic Positioning

The correct way to wear your QEx fitness headset microphone, is over the ears, as you would wear a pair of eyeglasses. To avoid feedback problems, take care not to cover the microphone capsule with your hand.

*Note: If wearing glasses, it is recommended to put the QEx microphone on first than place glasses over the microphone.*



Position the QEx microphone element about 0.25" – 1" behind the corner of your mouth. To avoid breath noise and p-pops, use the included windscreen.

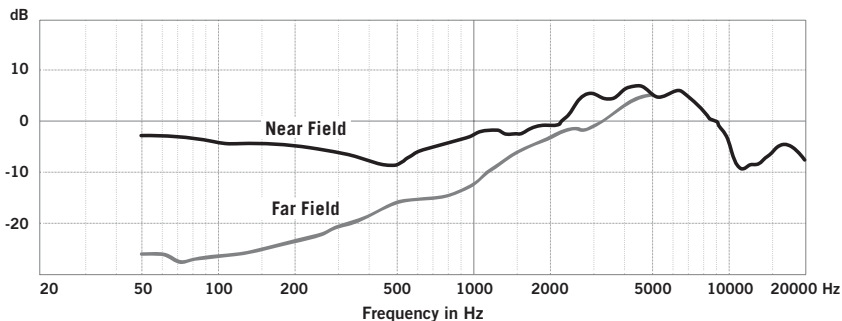


If the microphone is too far away from your mouth you will need to increase the gain and reduce isolation.

To minimize additional noise, do not locate the microphone tight against your cheek.

## Using the QEx

The QEx Fitness Headset employs noise canceling techniques to provide noise reduction, improve clarity and gain before feedback. These techniques allow the QEx to be used in environments and facilities where the sound system might not be optimal. First, the small size of the microphone capsule and the short distance between the microphone and the mouth reduces the sensitivity at 1 kHz for far field noise by 10 dB. And noise at lower frequencies is additionally attenuated. Finally, the bi-directional polar pattern reduces signal coming from a 90° angle by 15 dB compared to signal originating from directly in front of the mic capsule.





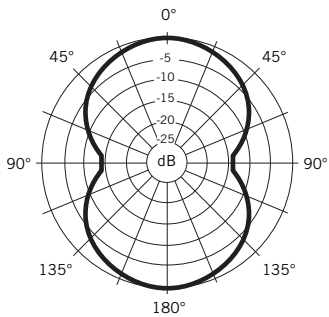
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## Specifications

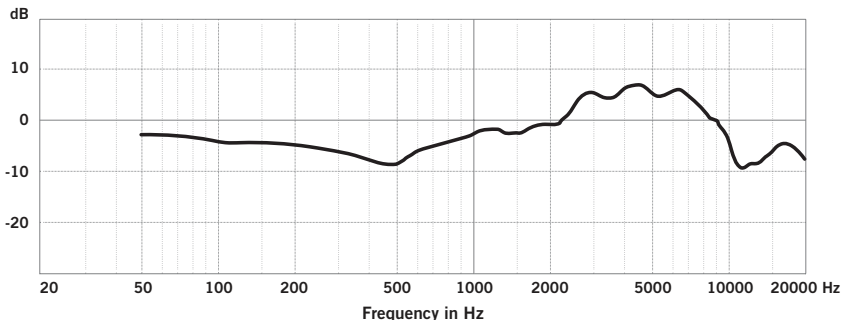
|                         |   |
|-------------------------|---|
| Microphone Element      | Back electret condenser   |
| Polar Pattern           | Bidirectional   |
| Frequency Response      | 50Hz–12kHz  |
| Sensitivity             | -42dB 1 V/Pa ±4dB at 1kHz   |
| Output Impedance        | 2.2kΩ ±30%  |
| Max. SPL                | 110dB   |
| Operating Voltage       | 1.0–5V DC   |
| Cables                  | 4x ø1.4mm*1.2m  |
| Product Weight          | 1.4oz / 39.8g   |
| Included Adapter Cables | 1/8" (3.5mm), Hirose® 4-Pin, Switchcraft® TA3F, Switchcraft® TA4F |
| Accessories             | Windscreen, Clothing Collar Clip, Carry Case                      |

*At Samson, we are continually improving our products, therefore specifications and images are subject to change without notice.*

# Specifications



Polar Pattern



Frequency Response



Samson Technologies Corp.  
278-B Duffy Ave  
Hicksville, New York 11801  
Phone: 1-800-3-SAMSON (1-800-372-6766)  
[www.samsontech.com](http://www.samsontech.com)