Important Safety Information

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug the apparatus during lightning storms, or when unused for long periods of time.
14. Refer all servicing to qualified personnel. Service is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This appliance shall not be exposed to dripping or splashing water and that no object filled with liquid such as vases shall be placed on the apparatus.
17. Please keep a good ventilation environment around the entire unit.
18. The direct plug-in adapter is used as disconnect device, the disconnect device shall remain readily operable.
19. Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

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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Samson Technologies Corp.
278-B Duffy Ave
Hicksville, NY 11801
www.samsontech.com
Important Safety Information

FCC Rules and Regulations

Samson wireless receivers are certified under FCC Rules part 15 and transmitters are certified under FCC Rules part 74. Licensing of Samson equipment is the user's responsibility and licensability depends on the user's classification, application and frequency selected.

This device complies with Part 15 of the FCC rules Class B and RSS-210 of Industry & Science Canada.

Operation is subject to the following two conditions:

(1) This device must not cause harmful interference, and
(2) This device must accept any interference received including interference that may cause undesired operation. Suitable for home or office use.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced Radio/TV technician for help.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment is intended for use in wireless microphone applications.


*Subject to license. Please contact your national frequency authority for information on available legal use in your area. Any changes or modifications not expressly approved by Samson Technologies Corp. could void your authority to operate the equipment.

Hereby, Samson Technologies Corp., declares that this AR99m and AH9 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The declaration of conformity may be consulted at:
http://www.samsontech.com/site_media/support/manuals/AirLine99m_AH9_DOC.pdf
Introduction

Welcome to Samson AirLine, the original micro-wireless microphone systems. Wireless microphone and instrument systems were originally developed to eliminate cables, providing unparalleled freedom of movement. AirLine 99m takes this concept to a new level with frequency agile transmitters and micro receiver, providing a completely “hassle-free” user experience.

Featuring miniaturized circuitry and an internal, rechargeable battery the AH9 can operate for up to 8 hours on a single charge. The AirLine 99m System combines an AH9 headset transmitter with a Samson Qe Fitness or DE10 low profile headset microphone. Offering frequency-agile UHF operation, the micro-sized True RF Diversity AR99m receiver provides 100 available channels to secure reliable wireless performance. The receiver provides easy setup with 1-touch scan which analyzes and selects the clearest operating channel, infrared set to pair the transmitter with the receiver, and versatile output connections (XLR, 1/4” and 1/8”). An included USB port can be used to charge the AH9 transmitter or integrate a Samson XPD Series wireless system (sold separately) to make it a dual-receiver.

In these pages, you’ll find a detailed description of the features of the AirLine 99m System, as well as step-by-step instructions for its setup and use. If your wireless system was purchased in the United States, you’ll also find a registration card enclosed—don’t forget to follow the instructions so that you can receive online technical support and so that we can send you updated information about this and other Samson products in the future. Also, be sure to check out our website www.samsontech.com for complete information about our full product line.

We recommend you keep the following records for reference, as well as a copy of your sales receipt:

Receiver Serial number: _________________________________________

Transmitter Serial number: _________________________________________

Date of purchase: ______________________________________________

If you have any questions or comments regarding the AirLine 99m Microphone System or any other products from Samson, do no hesitate to contact us at support@samsontech.com.

With proper care and maintenance, your AirLine 99m System will operate trouble-free for many years. Should your AirLine 99m System 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 AirLine 99m System was purchased outside of the United States, contact your local distributor for warranty details and service information.
AR99m Receiver Features

1. **Antennas** - The antenna mountings allow full rotation for optimum placement. In normal operation, both antennas should be placed in a vertical position. Both antennas can be folded inward for convenience when transporting the AR99m.

2. **SET Button** - Press this button to scan through the receiver’s 100 operating channels to find the optimal channel for performance. Once the scan is complete, the AR99m will enter IR Set mode and send the selected channel to the transmitter.

3. **LED Display** - The two digit, 7-segment LED display shows the receiver’s current operating channel.

4. **READY Indicator** - This indicator lights green when the CR99m is receiving RF signal and the system is ready to use.

5. **IR Transmitter** - During “IR SET” an infrared light is used to set the transmitter channel.

6. **PEAK Indicator** - This indicator lights red when the transmitted audio signal is overloaded.

7. **VOLUME / Power Control** - This rotary knob controls the level of the receiver output and powers the AR99m on and off. Turn the control clockwise to turn the system on. Turn the knob counterclockwise until it clicks to turn the system off.

8. **USB Port** - This USB port provides 5V 200mA of power which can be used to charge the AH9 headset transmitter or a small portable USB device like an MP3 player or smartphone (AR99m only pass power to the USB port when the power is ON). It can also be used to connect an optional Samson XPD USB Digital Wireless receiver to this input, turning the AR99m into a dual wireless system.
1. **DC Input** - Connect the supplied power adapter here. WARNING: Do not substitute any other kind of power adapter. Doing so can cause severe damage to the AR99m and will void your warranty.

2. **UNBALANCED OUTPUTS** - Use these unbalanced 1/4" and 1/8" jacks when connecting the AR99m to consumer (-10 dBV) audio equipment. Wiring is as follows: tip hot, sleeve ground.

3. **BALANCED OUTPUT** - Use this electronically balanced low impedance (600 Ohm) XLR jack when connecting the AR99m to professional (+4 dBu) audio equipment. Pin wiring is as follows: Pin 1 ground, Pin 2 high (hot), and Pin 3 low (cold).
1. **Power/Mute Button** - Press and hold for 3 seconds to turn the unit on or off. A quick press and release will mute or un-mute the transmitter when the transmitter is on.

2. **Status Indicator** - This LED displays the operation mode, low battery and recharge status of the transmitter. The chart below defines the LED colors for each function.

<table>
<thead>
<tr>
<th>LED Color</th>
<th>Function</th>
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<tr>
<td>GREEN</td>
<td>Normal Operation</td>
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<tr>
<td>AMBER</td>
<td>Mute</td>
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<tr>
<td>Flashing RED</td>
<td>Low Battery</td>
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<tr>
<td></td>
<td>Charging</td>
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<tr>
<td>RED</td>
<td>Fully Charged</td>
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3. **Volume +/- Buttons** - Press and hold either Volume button to adjust the volume. Pressing the + or – button increases or decrease the level by one step with each push of the button. There is a total 9 volume levels. The Status Indicator light will flash faster for each increased step and slower for each decrease.

4. **IR Lens** - This window is used to capture the infrared signal sent from the receiver during the IR SET to channelize the transmitter. The IR Lens is only active for the first 10 seconds when the transmitter is powered on.

5. **Charging Connector** - Connect the supplied magnetic charging cable to this sealed, gold contact charging connector to recharge the internal Lithium Ion battery. The AH9 can be recharged by connecting the cable to the USB connector on the AR99m reciever or any 5-volt DC adapter that has a USB output.
Wearing the AH9 Headset Microphone

As shown in the illustration, the correct way to wear your Qe fitness headset microphone, is over the ears, as you would wear a pair of eyeglasses. Because the Qe microphone is specially designed to be used up close, be sure to position the microphone directly in front of your lips. To avoid feedback problems, take care not to cover the microphone capsule with your hand.

Position the headset over your head so that the body of the transmitter is behind your head. Adjust the headset so that it fits comfortably on your ears and is secure against your head.

*Note: If wearing glasses, it is recommended to put the AH9 transmitter on first than place glasses over the transmitter.*

For added comfort and fit, the 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.*
DE10 Headset

Fitting the DE10 Headset

The DE10 headset can be sized by sliding the ear hooks to fit snug around your head. If the DE10 is loose and will not stay in place, slide the ear hook wires back for a tighter fit.

Adjust the microphone position by holding the left ear hook wire and slide the boom forward or back. For optimum performance the microphone should be close to the skin and towards the corner of the mouth, approximately a half inch away.

Position the moisture guard ring as close to the capsule as possible.

For outdoor use and to help reduce p-popping, use the included windscreens.

Mic Positioning

Position the DE10 microphone element about 0.25” – 1” behind the corner of your mouth. Since the DE10 is an omnidirectional capsule, the end of the microphone does not need to be facing your mouth. To avoid breadth noise and p-pops, do not place the microphone directly in front of your mouth.

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.
Quick Start

In order for your wireless system to work correctly, both the receiver and transmitter must be set to the same channel. Follow this basic procedure for setting up your AirLine 99 wireless system:

1. Physically place the AR99m receiver where it will be used, and extend the antennas vertically. The general rule of thumb is to maintain “line of sight” between the receiver and transmitter so that the person using or wearing the transmitter can see the receiver.

2. Ensure that the AH9 transmitter is fully charged (see section Charging the AH9 Transmitter).

3. With the AR99m powered off, connect the included power adapter.

4. With your amplifier or mixer off and volume control all the way down, connect the AR99m receiver output jack to the mic or line level input of a mixer or amplifier using the balanced XLR output or unbalanced 1/4” or 1/8” line level outputs. Turn the VOLUME knob on the AR99m clockwise to turn its power on, but keep the level low.

5. Press and hold the SET button on the front of the AR99m receiver to scan for an available channel. Once the optimal channel is selected the receiver will enter IR Set mode (figure 1).

6. Turn on the power to the AH9 transmitter by pressing and holding the Power button for 3 seconds; the indicator LED will light yellow when the button is pressed and turns green when released and the AH9 is powered on.

7. Position the AH9 transmitter about 6-12” (15-30 cm) from the front of the AR99m with the transmitter’s IR window facing the IR transmitter on the front panel of the AR99m receiver (figure 2).

8. When the transmission of the operating channel is complete, the AR99m will receive RF signal and the READY indicator will light indicating that it is receiving wireless signal from the transmitter.

Note: The AH9 will only accept infrared transmission from the receiver for the first 10 seconds after the AH9 is powered on. If you need to change the operating channel, the AH9 must be first powered off, then powered on again to receive the new channel.

9. Turn on your connected amplifier or mixer, but keep the volume all the way down. Set the Volume knob on the AR99m fully clockwise. This is unity gain. Speak or sing into the microphone at normal performance level. Slowly raise the volume of your amplifier or mixer until the desired level is reached.

10. When using multiple systems, each system must be set to a different operating channel. Follow these steps to set each receiver and transmitter to the optimal channel.
Connecting XPD Wireless

1. Plug the XPD USB receiver into the USB jack on the side of the AR99m receiver.

2. Place a fresh set of AA (LR6) batteries in the transmitter battery holder, taking care to observe the polarity markings.

3. Turn the AR99m receiver on by rotating the VOLUME control clockwise. The AR99m VOLUME control will affect the mix of the AH9 and XPD transmitters.

4. Turn on the power to the XPD transmitter by pressing and holding Power switch; the indicator LED will light amber.

5. If the transmitter and receiver have not been previously paired, press and hold the button on the XPD receiver for >5 seconds, until it begins to flash. Press and continue to hold the Power button on the transmitter until the LED indicators on both units light steady, indicating that the receiver and transmitter are paired and ready for operation.

6. Speak or sing into the microphone at a normal performance level and raise the AR99m VOLUME control until the desired level is reached.

7. To balance the level between the AH9 and XPD transmitter, use the supplied screwdriver to adjust the Gain control inside the XPD battery compartment. If you hear distortion from the XPD transmitter turn down the Gain. Conversely, if you hear a weak, noisy signal at the desired volume level, turn the Gain control in the XPD transmitter slowly clockwise until the signal reaches an acceptable level.
Charging the AH9 Transmitter

1. With the AR99m powered off, connect the included power adapter.
2. Insert the magnetic power cable to the AR99m USB Port (or any 5-volt DC adapter that has a USB port).
3. Turn the VOLUME knob on the AR99m clockwise to turn its power on.
4. Place the AH9 transmitter on a flat surface.
5. Attach the magnetic connector to the gold contact power port on the bottom of the AH9 transmitter. The cable attaches to the port magnetically. The magnetic connector is keyed so it will only connect in one direction.
   
   Note: Transmission is disabled during charging.

6. Look at the indicator light on the AH9 transmitter to determine when the transmitter has finished charging. When the light is flashing red, the AH9 is charging. When the red light stops flashing it indicates that the AH9 is fully charged.

7. Disconnect the magnetic power cable from the AH9 when the unit is fully charged.

If you notice your AH9 battery life is becoming shorter after a full charge, you can order a user replaceable battery from your local Samson distributor.

Getting the most out of the rechargeable battery:

- Completely charge the batteries before first use
- Fully charge the battery before it will be used.
- After the battery is charged, unplug the charger from the outlet.
- The optimal temperature range for using and storing the battery is 50°F - 86°F (30°C - 50°C). The battery performance and operation may decrease in temperatures below 50°F (30°C).

A warning that batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. Attention should be drawn to the environmental aspects of battery disposal.
### Specifications

#### System
- **Working Range**: 300' (100m) line of sight
- **Audio Frequency Response**: 50 Hz - 15 kHz
- **T.H.D. (Overall)**: <1% (@AF 1 kHz, RF 46 dBu)
- **Dynamic Range**: >100 dB A-weighted
- **Signal to Noise**: >95 dB
- **Operating Temperature**: –10°C (14°F) to +60°C (+140°F)
- **Tone Key Frequency**: 35 kHz

#### AH9 Transmitter
- **Input Gain Range**: 20dB
- **RF Power**: 10mW EIRP
- **Power Requirements**: 3.6V 500mAh
- **Battery**: Lithium Ion rechargeable battery
- **Battery Life**: 8 hours
- **Dimensions (LxWxH)**: 5.9” x 6.7” x 3.9”
- **Weight**: 0.13lb / 60g

#### AR99m Receiver
- **Audio Output Level**:
  - 1/8” (3.5mm) & 1/4” (6.3mm) jack (unbalanced): +14dBu
  - XLR jack (balanced): +9dBu
- **Audio Output Impedance**:
  - 1/8” (3.5mm) & 1/4” (6.3.mm) jack (unbalanced): 810 Ohms,
  - XLR output jack (balanced): 240 Ohms
- **Sensitivity**: 100dBm/30dB SINAD
- **Image Rejection**: >50dB
- **Operating Voltage**: 15VCC  600mA
- **Dimensions (LxWxH)**: 4.3” x 3.74” x 1.5”
- **Weight**: 0.42lb / 192g

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

**Group K 470–494MHz**

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**Group D** 542–566MHz

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# Channel Plans

## Group G* 863–865MHz

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* Not for use in the USA and Canada.
** Not for use in the EU.

For questions regarding available channels in your area contact your local Samson distributor.
Having Trouble with your AirLine Wireless System? We can help!

CONTACT OUR SUPPORT TEAM: support@samsontech.com
Our experts can help you resolve any issues.

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