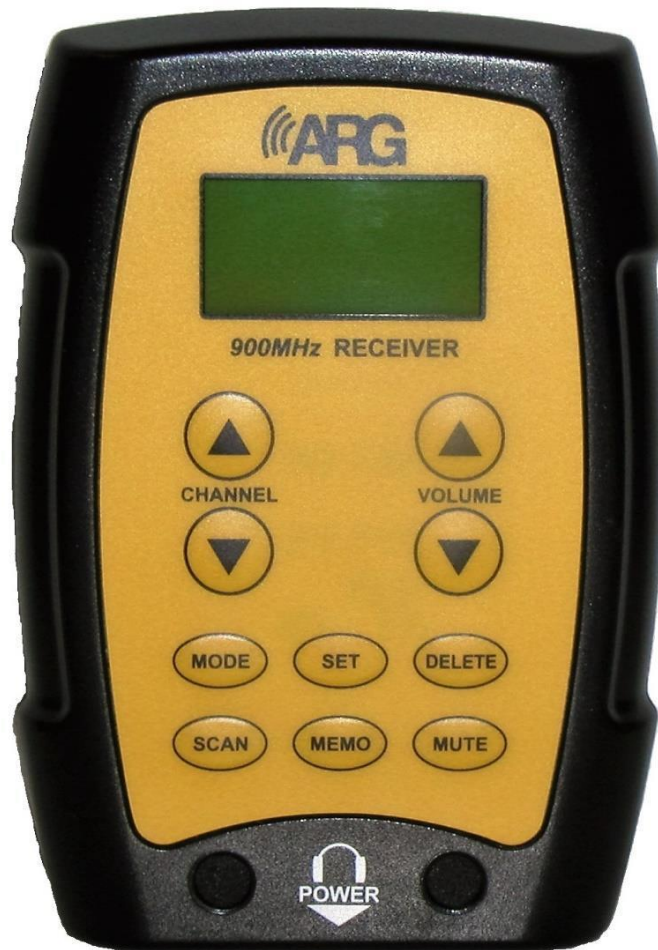


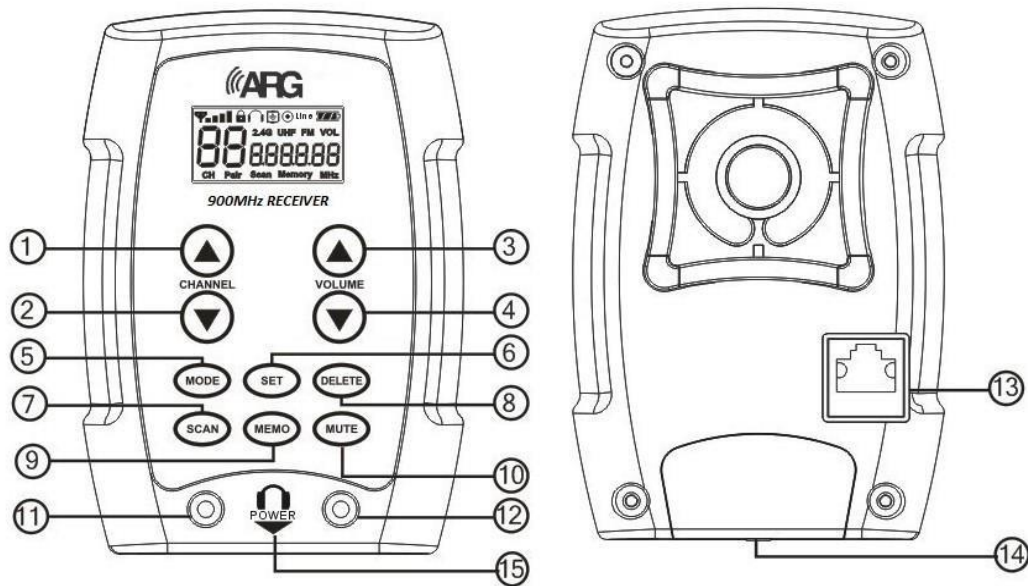
# Fitness Entertainment Solutions

## 900 MHz Analog Receiver Part #ARG-900AR Manual and User Guide



Updated: 1/5/2017  
Manual Part# ARG-OM-004-2014 – Rev B

## CONTROL FUNCTIONS:



The buttons on the receiver perform the functions as detailed below:

- |                        |   |  |
|------------------------|---|--|
| 1. Channel Up Button   | 6. Set Button                                   | 12. Screw 2 (Used to change the headphone jack)    |
| 2. Channel Down Button | 7. Delete Button                                | 13. C-SAFE Port (Vin Power in)                     |
| 3. Volume Up Button    | 9. Memo Button                                  | 14. Replaceable headphone jack module              |
| 4. Volume Down Button  | 10. Mute Button                                 | 15. Auto Power ON/OFF and 3.5mm Stereo Audio Jack. |
| 5. Mode Button         | 11. Screw 1 (Used to change the headphone jack) |  |

## MOUNTING INSTRUCTIONS:

The ARG 900MHz receiver is a universal unit designed to be compatible with most makes and models of cardio equipment. To mount the Receiver:

- Determine the appropriate location to mount the receiver to the cardio equipment. Take note the range of motion of the components of machine and make sure the placement of the receiver and its cabling will not interfere with operation of the machine or any safety features.
- Slide the cable ties through the appropriate holes in the mounting cleat on the underside of the receiver. (Top to bottom if you are mounting it to a horizontal bar or side to side if you are mounting to a vertical bar.)
- Wrap and thread the cable ties around the bar on the cardio machine at the predetermined location. Pull the ties tightly around the bar so the receiver does not move or rotate. Be careful not to over-tighten the ties to avoid cracking the mounting cleat or case of the receiver. Trim off the excess ends of the cable ties.
- Connect the power cable to the receiver. The receiver can be powered by either a CSAFE power outlet on the cardio machine or an A/C power converter that can be plugged into the wall/floor. (Power adapters and cables are not included and must be ordered separately.) If you are using a C-SAFE connection: connect one end of the Cat-5 cable to the C-SAFE port on the cardio machine. (Check with the equipment manufacturer to make sure the machine has this feature and for location of the outlet.) The other end of the cable connects to the RJ45 receptacle on the back of the receiver. If you are using an A/C power supply: locate a standard 110V outlet and plug the 12V A/C adapter side into the outlet and the RJ45 plug into the receptacle on the back of the receiver. Make sure to route the cord for either option appropriately to avoid interference with any of the functions or safety features of the cardio machine.

**Note: Once mounted, the receiver can be rotated by lifting the main unit away from the cardio equipment and rotating it to the desired angle. It will lock back down on its own. Verify that the unit is locked correctly by gently turning the unit to the right or left.**

## OPERATING INSTRUCTIONS

**POWER ON/OFF:** The receiver is powered on and off by inserting the headphone plug into the headphone jack. When you plug the headphones in, the receiver will turn on. When you unplug the headphones, the receiver will turn off after a few seconds.

**SETTING UP AND PROGRAMMING THE CHANNELS:** The receiver is capable of memorizing any frequency in the 900Mhz band from 902.00Mhz through 928.00Mhz. This covers all major manufacturers of cardio entertainment equipment. To do this follow the below instructions.

1. To enter into the programming mode press and hold the "SET" and "MEMO" button together for about six seconds until the screen display changes and list a 900Mhz band frequency.
2. Start auto scanning by pressing the "SCAN" button once. This process takes approximately 60 to 90 seconds to complete.
3. When the auto scan is complete user the "VOLUME UP" and "VOLUME DOWN" buttons to review the scanned list. Select the channel number that you desire to program by pressing the "CHANNEL UP" and "CHANNEL DOWN" button. For example, set Channel 01 and then select 903.50Mhz.
4. Hold the "MEMO" button down till "Memory" flashes once on the bottom of the screen. This means that the frequency and channel are stored. The receiver is capable of storing up to 64 channels.
5. Repeat steps 4 and 5 for each frequency being used in your facility.

**EXIT PROGRAMMING:** When you have entered all of the frequencies being used at your facility, press and hold the "SET" and "MEMO" buttons together for six seconds to exit the programming mode. The "lock" icon will reappear and your receiver will now be in the normal operating mode.

**SCANNING SENSITIVITY:** The receiver will only save up to 64 frequencies in the memory and will stop auto-scanning when it collects the 64th frequency in the found list. If the receiver does not find all of the frequencies your transmitters are broadcasting or if you are in an area with excessive noise or interference; you can adjust the scanning sensitivity of the receiver. To adjust the sensitivity, press the "Delete" button while in the programming mode. Each time you press the button the sensitivity setting will advance by 1 strength (16 total strengths, 0 to F). The higher the number or letter, the less sensitive the scan will be. The factory setting is 5. After you change the sensitivity setting, re-scan the frequencies so the receiver can find those missed the first time. Reset the sensitivity and re-scan as necessary so the setting allows the receiver to find all of the frequencies your transmitters are using.

**SQUELCH SETTING:** The squelch setting adjusts the threshold at which audio signals will pass-through to the headphones. If there is excessive low level noise (hiss or static) bleeding through into one of the channels, adjust the squelch control to block the audio signal that passes through the circuit to the headphones. The higher the number, the more noise the receiver will block. If the setting is too high, the receiver will start to block the desired portions of the audio signal as well. The ideal setting is to adjust the level so all of the desired audio is heard but with as little background noise as possible. To adjust the squelch setting: make sure the receiver is in the user mode. Press and hold the "DELETE" and "MUTE" button for 10 seconds. (A number will appear in the middle of the display. This is the squelch setting, ranging from 0 to 9; the factory default level is 3.) Press the "VOLUME UP" or "VOLUME DOWN" buttons to adjust. Press and hold the "DELETE" and "MUTE" button again to return to the normal mode.

**REBOOTING THE RECEIVER:** The receiver is equipped with built-in, self-protection circuitry that will activate when receiving a variety of electrical or environmental circumstances. This may cause the unit to lock-up or behave in an undesirable fashion. If this occurs, you can reboot the receiver by disconnecting it from its power source for one minute. This will restart the software and should return the unit to normal operation. If problems persist, please contact your dealer or ARG for further assistance.

**HEADPHONE JACK REPLACEMENT:** Because it is subject to heavy use, it is normal for the contacts in the headphone jack assembly to wear out over time. The 900MHz receiver is equipped with a replaceable headphone jack module to address this wear without replacing the entire unit. Under ideal conditions, the headphone jack is rated to last roughly 6,000 plug insertions and removals (cycles). After 6,000 cycles, an icon that looks like headphones will flash in the display to alert that the headphone jack should be replaced. Every time the receiver is powered-up, the display will flash the number cycles the module has used under the letters “UHF”. The headphone jack module can, in most cases, be changed without removing the receiver unit from the cardio machine

1. To remove the worn jack, locate the two Philips screws on the front bottom of the unit. They will be covered by a foam insert on either side of the headphone/power logo.
2. Remove the black foam inserts.
3. Remove the two screws and set the screws to the side.
4. The headphone module will drop out of the unit.



5. Replace the headphone module and insert and tighten the two screws.
6. Plug in a set of headphones to power on the receiver
7. Press the “SET” and “MEMO” buttons for about six seconds to enter into the programming mode
8. Press the “DELETE” and “MUTE” buttons for eight seconds till the flashing headphone icon disappears.
9. Press the “SET” and “MEMO” buttons for about six seconds to exit the programming mode.

**SETTING COPY:** The new ARG receivers have the ability to copy settings from one unit over to another unit. This greatly speeds up programming multiple units as it takes approximately one minute to copy all settings. To copy from one unit to another The ARG Copy Module is required (ARG-PM03).

1. Program one receiver manually. This receiver will be referred to as the master receiver. The other receivers will be referred to as slave receivers.
2. Plug the ARG Copy module power adaptor into AC power and connect two C-SAFE/CAT-5 cables to the copy module.



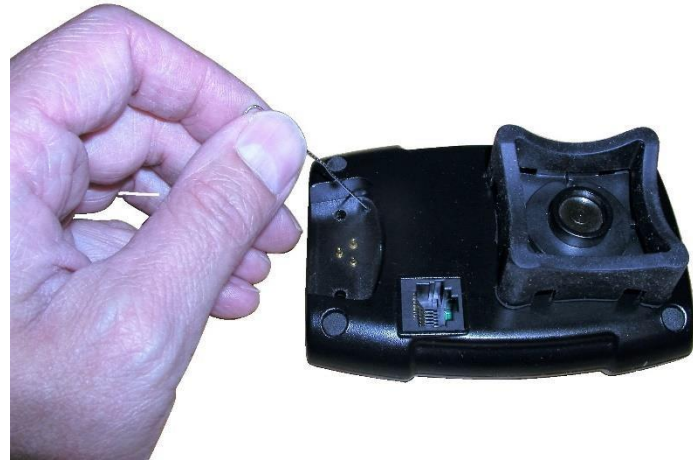
3. Remove the headphone module from the master receiver and slave receiver by removing the two black foam inserts and the two screws located in front of the receiver (Note: refer to headphone jack replacement).
4. Connect the other end of the C-SAFE/CAT-5 cables from step 2 to the master receiver (Note: it does not matter which CAT-5 cable you use). Connected the second C-SAFE/CAT-5 cable to the slave receiver.



5. On the master receiver locate the small programming button in the headphone jack compartment.
6. Press this button once. ARG Audio recommends using a paperclip for this procedure.



Programming Start Button



7. At this point the backlight on both the master and slave receiver will turn on. This means that the programming has started. **“Warning” Do not disconnect either receiver from the programming assembly until copying has completed as this could cause damage to the receivers.**
8. Programming will take approximately one minute. After programming has ended both backlights will turn off.
9. Repeat steps 4 through 9 for each additional receiver to be programmed.
10. After programming all receivers has been completed, replace the headphone jack module tighten the two screws and insert the black foam spacers.
11. After installing the receiver and you find that it does not function, redo the copy setting procedure listed above or manually program the receiver.



**Audio Resource Group**  
*Improving Communication Through Sound Technology*

## Warranty Statement

Audio Resource Group, Inc. (ARG) develops, designs and distributes only high quality products that will provide users with many years of trouble-free service. Some of the products we distribute are sold exclusively by ARG. The following Warranty Statement defines the warranty periods for each product line and model of equipment distributed by Audio Resource Group, Inc.

### **Talk and Listen™ Systems**

ARG warrants the following transmitters and receivers (TX72BP, TX72M, TX900BP, TX900HH, TX900M, RX72BPS, RX72BPM, RX72BP, RX72M, RX900BP, RX900M) to be free from defects in workmanship and material under normal use and conditions for five years from date of purchase.

ARG warrants the following charging systems (CHGR12, CHR24) to be free from defects in workmanship and material under normal use and conditions for two years from date of purchase. Rechargeable batteries in the TX72M, TX900M, RX72M, and RX900M are warranted for 2 years. Power Supplies are warranted for 90 days.

All other parts and accessories are warranted for 90 days from date of purchase.

### **VoiceAmp® Portable Amplifiers**

ARG warrants the following VoiceAmp portable amplifiers (VA20WB, VA20T, and VA30SE) to be free from defects in workmanship and material under normal use and conditions for five years from date of purchase. Batteries for these listed products are warranted for two years from date of purchase.

All other parts and accessories are warranted for 90 days from date of purchase.

### **Fitness and Cardio Entertainment Products**

ARG warrants the following transmitters (ARG-CV-FMT, ARG-CV-900T, ARG-900AT, and ARG-CV-2.4T) to be free from defects in workmanship and material under normal use and conditions for four years from date of purchase.

ARG warrants the following receivers (ARG-CV-FMR, ARG-CV-900R, ARG-900AR, ARG-CV-2.4R and ARG-2.4R) to be free from defects in workmanship and material under normal use and conditions for two years from date of purchase.

ARG warrants the following personal viewing screens and accessories (ARG-PVS15LED, ARG-PVS19LED, ARG-PVSC) to be free from defects in workmanship and material under normal use and conditions for two years from date of purchase.

All other parts and accessories are warranted for 90 days from date of purchase.

The Warranty is only available to the original end purchaser of the product and cannot be transferred. Warranty is void if damage occurred because of deliberate or accidental physical damage, neglect, misuse or if the product has been repaired or modified by anyone other than a factory authorized service technician. Warranty does not include normal wear and tear on the product or any other physical damage unless the damage was the result of a manufacturing defect. ARG is not liable for consequential damages due to any failure of equipment to perform as intended.

The above stated warranty is exclusive and replaces all other warranties express or implied, including those of merchantability and fitness for a particular purpose. ARG will not be held liable for any other damages or loss including incidental or consequential damages and loss of profit or revenues from whatever cause including breach of warranty or negligence.

The terms of the warranty are governed by the laws of the state of North Dakota. This warranty, prices, and the specifications of products are subject to change without notice.

Revised 1/4/2017

# Repairs and Returns

If you are experiencing difficulty with your system please review the Troubleshooting section of your manuals and user guides for tips and techniques to correct your issues. If you continue to experience problems with your equipment, please call Audio Resource Group, Inc. (ARG) toll-free Customer Service Assistance number at (888) 468-4552.

If it is necessary to return your system for service, you must first be issued a Return Authorization Number (RMA) by our Customer Service Technician prior to sending the system to ARG. All returns must be prepaid by the sender (no freight collect shipments will be accepted). Make sure to clearly mark the RMA number on the outside of the package and ship to:

## **Ship To:**

Audio Resource Group, Inc.  
Attn: Repair Department  
405 Main Ave W Unit 3A  
West Fargo, ND 58078

## **Out-of-Warranty Repairs:**

We can service/repair most Out-of-Warranty products. These repairs will be charged in accordance with our Flat Rate Repair Schedule. Please contact your sales representative or customer service for a repair quotation under our Flat Rate Repair Schedule.

## **Repair Quotes:**

In some cases, if your product is not listed on the Flat Rate Repair Schedule, we can provide you with a repair price based on an individual repair cost estimate.

## **Warranty Repairs:**

The ARG warranty period begins from date of purchase. Warranty is only available to the original end purchaser of the product and cannot be transferred. We will, at our option, repair or replace any part or product found to be defective in workmanship or material under normal use and condition. Warranty is void if damage occurred because of deliberate or accidental physical damage, neglect, misuse or if the product has been repaired or modified by anyone other than a factory authorized service technician. Warranty does not include normal wear and tear on the product or any other physical damage unless the damage was the result of a manufacturing defect.

## **Returns for Credit:**

Items returned for credit, in "like new" condition (unopened, or original packaging intact), will be issued a full credit (minus applicable shipping charges). Items returned for credit after 30 days are subject to a restocking fee. We are unable to issue credit for any items after 90 days from the date of purchase. Additional fees or partial credit may occur due to missing or damaged items.

## **Ship To:**

Audio Resource Group, Inc.  
405 Main Ave W Unit 3A  
West Fargo, ND 58078  
Phone: (888) 468-4552 Fax: (888) 373-4819  
repairs@argaudio.com

ARG Repairs and Return policies, programs, and pricing are subject to change without notice.