

Talk & Listen Systems

900MHz Mini Digital Transmitter and Receiver Part #s – ARG-TX900M & ARG-RX900M Manual and User Guide



User Guide Part # ARG-OM030 – Rev B
Updated: 1/5/2017

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE PRODUCT TO RAIN OR MOISTURE

Audio Resource Group products are engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. To ensure your safety and prolong the service life of your equipment, please read the following precautions and all collateral materials carefully before using the product.

1. Read and keep these instructions.
2. Heed all warnings.
3. Follow all instructions.
4. Do not use this device near water. Do not place objects filled with liquids, such as water bottles or drink containers directly near or on equipment.
5. Protect power cords from being walked on or pinched: especially at plugs, convenience receptacles, and the device's exit point.
6. Only use attachments/accessories specified by the manufacturer.
7. Unplug devices from wall outlets during lightning storms or when not in use for long periods of time.
8. Do not attempt to service the devices yourself. Please contact Audio Resource Group, Inc. directly for maintenance, repair, or replacements.

HEARING SAFETY CAUTION!

Many of ARG's products are designed to amplify sounds to a high volume level which could potentially cause hearing damage if used improperly. To protect your hearing and the hearing of others:

1. Set the volume level at the minimum setting, then place the listening accessory (headphones, earphones or ear buds) on your ears and finally adjust the volume to a comfortable level.
2. If feedback (a high-pitched squealing sound) occurs, immediately move the receiver away from the transmitter and reduce the volume level.
3. Do not allow children or other unauthorized persons access to this product.

RECHARGEABLE BATTERIES

The TX900M transmitter and RX900M receiver uses a lithium-ion rechargeable battery. Please use the single power adapter or multi-slot charging tray provided with the devices to charge the transmitters and receivers. Using smart charging circuitry, the transmitters and receivers will be fully charged in a maximum of 2 hours. Following a 2 hour charge, the batteries are designed to operate the TX900M transmitter for approximately 16 hours and a RX900BM receiver for 25 hours. Batteries **MUST BE CHARGED** for a complete cycle before the first use.

To charge a single transmitter or receiver using the single power adapter, insert the charger plug into the 5V/DC Input on the bottom of the unit. To use the drop-in charging tray, plug in the power supply for the tray and insert each transmitter and receiver into the tray, making sure that the 5V/DC Input plug of each unit securely fits the charging post in the tray. The LED will turn red indicating the unit is charging; the unit is fully charged when the red LED turns off.



SYSTEM OVERVIEW

The Audio Resource Group, Inc. 900MHz Mini Talk & Listen® System is a portable, high-performance communication system designed to be used for many types of communication applications. It is composed of four principal components: transmitter, microphone, receiver and listening equipment (headphone, earphone, ear bud).

The 900MHz Mini Talk & Listen® System incorporates a new digital design with robust interference rejection. Built-in switching diversity antennas provide a more reliable and secure transmission of the FM signal.

The transmitter broadcasts a high-quality one-way audio signal to an unlimited number of receivers providing crystal clear FM quality audio to each listener. Much like a miniature radio station, the speaker uses a transmitter to broadcast a radio signal while the listeners use a receiver to hear the signal. The transmission range of this system is 200m LOS (Line of Site).

HINTS to Using the TALK & LISTEN® Wireless System

Maximum operating distance between the transmitter and receiver is 200m (LOS). The operating range will vary in different environments. The built-in switching diversity antennas will virtually eliminate drop-out (signal loss). If signal loss does occur, moving a few feet in any direction should restore the signal.

Getting transmitters too close to one another may cause signal interference, even when they are set to a different channel. Maintain at least **three feet of separation** between transmitters to avoid signal interference.

Receivers are not subject to interference when in close proximity to one another therefore listeners may sit close together whether on the same or different channels. If a receiver gets too close to a transmitter, interference may occur. Maintain **three feet of separation** between a transmitter and receiver to avoid interference.

FCC Compliance

These devices comply with part 15 of the FCC Rules. FCC regulations require the user to comply with the rules of transmitter operation. Any changes or modifications made by the user not expressly approved for compliance may result in the loss of privileges and authority to operate the equipment. Operation is subject to the following two conditions:

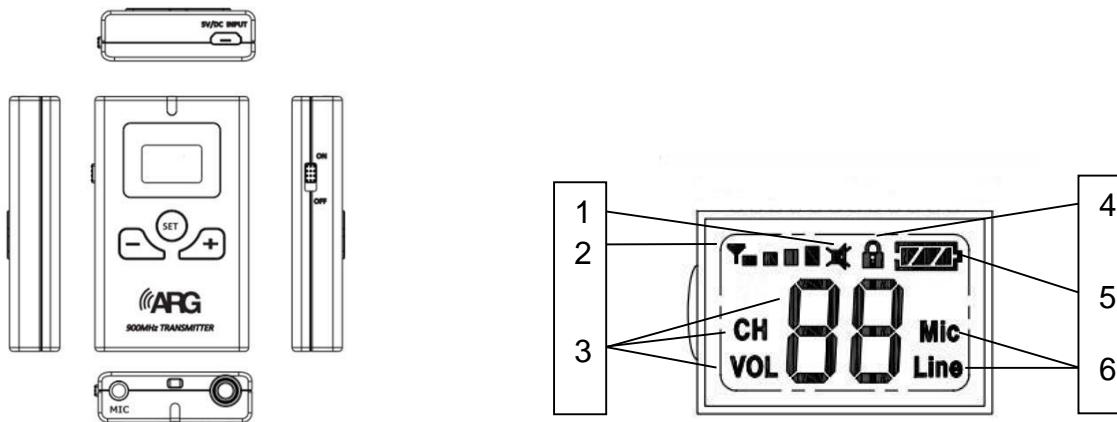
- 1) The device may not cause interference.
- 2) The device must accept any interference, including interference that may cause undesired operation of the device.

TROUBLESHOOTING

1. Read through the manual and user guide carefully to verify proper setup and installation of the transmitter and receiver(s).
2. Make sure the transmitter and receiver(s) are fully charged prior to use.
3. Make sure the microphone is plugged into the TX900M transmitter and the earphone/headphone is plugged in the RX900M receiver.
4. When using two or more transmitters simultaneously do not use adjacent channels if possible, for example: you want to use two transmitters simultaneously, set TRANSMITTER ONE to channel 1 and TRANSMITTER TWO to channel 3; leaving channel 2 as an unused channel. This creates more spacing between the channels and reduces the likelihood of interference.
5. If you are still hearing interference, turn the transmitter off and listen to a receiver. If you hear the interference with the transmitter off, you need to change to a clear channel.
6. If you are still experiencing difficulties, call ARG at (888) 468-4552.

Operating Instructions: ARG-TX900M Mini Transmitter

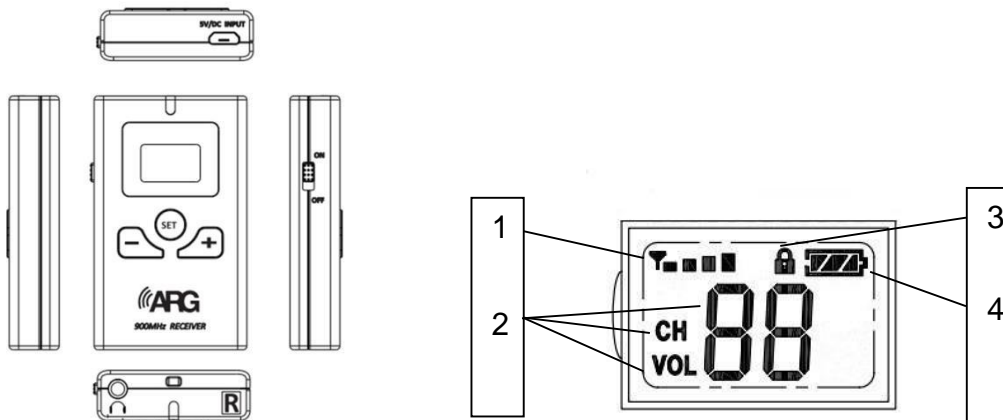
1. Plug the microphone into the 3.5mm audio input jack located on the top of the transmitter housing. Do not bunch up the cord, wrap it tightly around your body or wrap it around the transmitter. Use only Talk & Listen® approved microphones; substitutions can greatly affect the overall performance therefore causing poor audio quality.
2. Turn the power switch of the Transmitter to “ON”. The LCD will turn on and remain on until the power is turned off. The display will show the Volume Level for a second and then change to Channel Number. The LCD backlight will turn off after 5 seconds and will turn back on with the push of any button. The LED will turn green indicating the power is on; green flashing indicates low battery.
3. Confirm that the channel number on the transmitter matches the channel number on the receiver(s). **To adjust the channel number**, in the “OFF” position, press and hold the “SET” button and turn the transmitter “ON”. Use the “-” or “+” buttons to scroll through the channel numbers (01 – 25), the channel will be set once the backlit screen goes off.
4. **To temporarily mute the transmitter**, press and hold the “SET” button for two seconds until the Mute icon appears. To unmute the transmitter, press and hold the “SET” button for two seconds until the Mute icon disappears.
5. **To adjust the microphone volume**, in the “OFF” position, press and hold the “SET” button and turn the transmitter “ON”. Use the SET button to scroll through the volume level (01 – 07), the volume will be set once the backlit screen goes off. **NOTE:** The volume level of the transmitter is factory set at 5. It is extremely unusual to need to adjust the transmitter’s volume.
6. **To change from microphone input to line input**, in the “OFF” position, press and hold the “+” and turn the transmitter “ON”. The system is now in line input mode. To switch back to microphone input, in the “OFF” position, press and hold the “-” button and turn the transmitter “ON”. The system is now in microphone input.
7. When finished using Transmitter, slide the “ON/OFF” switch to the “OFF” position.



1. Mute Icon (when there is a mute icon on the display, the transmitter is muted; vice versa)
2. Signal Strength
3. Channel or Volume Icon and its value
4. Lock Icon
5. Battery status (when the battery status is low, please charge the device soon)
6. Mic or Line Input Icon

Operating Instructions: ARG-RX900M Mini Receiver

1. Plug the headphone/earphone into the 3.5mm audio output jack located on the top of the receiver housing. Do not bunch up the cord, wrap it tightly around your body or wrap it around the receiver housing. Use only Talk & Listen® approved headphones/earphones, substitutions can greatly affect the overall performance and cause poor audio quality.
2. Turn the power switch of the Receiver to “ON”. The LCD will turn on and remain on until the power is turned off. The display will show the Channel Number for a second and then change to Volume Level. The LCD backlight will turn off after 5 seconds and will turn back on with the push of any button. The LED will turn green indicating the power is on; green flashing indicates low battery.
3. **Volume Control:** To adjust, use the “+” and “-” buttons on the front panel to adjust the volume level from 0-16 (0 being the lowest setting and 16 the highest setting). The number located on the LCD display indicates the volume level setting.
4. Confirm that the channel number on the receiver(s) matches the channel number on the transmitter. **To adjust the channel number**, press and hold the “SET” button until the Lock icon disappears and the channel number appears. Use the “-” or “+” buttons to scroll through the channel numbers (01 – 25), the channel will be set once the backlit screen goes off and the Lock icon appears.
5. When finished using the Receiver, slide the “ON/OFF” switch to the “OFF” position.



1. Signal Strength
2. Channel or Volume Icon and its value
3. Lock Icon
4. Battery status (when the battery status is low, please charge the device soon)



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.