

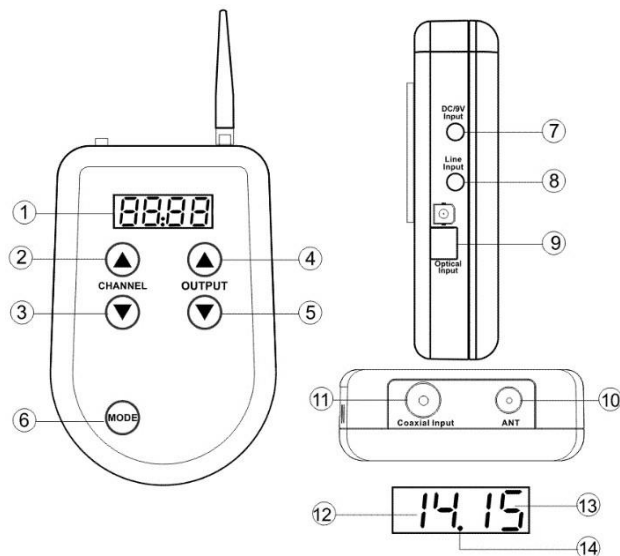
Fitness Entertainment Solutions

2.4GHz Transmitter Part#ARG-2.4T Manual and User Guide



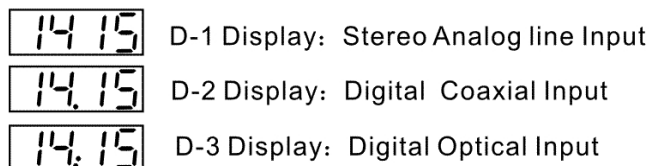
Updated: 1/5/2017
User Guide Part # ARG-OM33

2.4 GHz Transmitter Diagram



- | | |
|--------------------------|---------------------|
| 1. Display | 8. Line Input |
| 2. Channel "up" Button | 9. Optical Input |
| 3. Channel "down" Button | 10. Antenna (Ant) |
| 4. Output "up" Button | 11. Coaxial Input |
| 5. Output "down" Button | 12. Channel Number |
| 6. Mode Button | 13. Volume Number |
| 7. DC/9V Input | 14. Input indicator |

2.4GHz Transmitter Line Input Displays



INSTALLATION INSTRUCTIONS:

Mounting the Transmitter - The ARG 2.4GHz audio transmitter is a universal unit designed to be compatible with most makes and models of televisions and audio devices. The transmitter should be mounted somewhere near the TV/audio device to generate the broadcast signal throughout your facility. It is recommended to locate the unit within the range of the supplied cables. The transmitter can be mounted directly onto the TV/audio device, but do not cover any ventilation grates or cause interference with the function of the equipment. The transmitter is designed with slots on the back that hook onto the mounting bracket (included). Screws with wall anchors and hook-and-loop fasteners are provided to attach the mounting bracket to a variety of surfaces.

Attaching the Antenna – Place the rubber antenna into the receptacle marked "ANT" on the top of the transmitter (Diagram #10) and hand-tighten the antenna screw until it seats into place. (DO NOT over-tighten the antenna screw as it may damage the antenna assembly or the transmitter.) The antenna can be set to any angle or rotated 360 degrees to fit into available space.

Powering the Unit - Plug the small round end of the 9V/DC power supply (included) into the terminal on the side of the transmitter marked "DC/9V Input" (Diagram #7). Plug the other end into a standard 110V AC power outlet. When both ends of the cord are plugged in, the transmitter will turn on. If the transmitter does not receive a signal from the TV/audio device (or if the output is set too low), it will be unable to read the signal source device. The transmitter will then shut down after a few minutes to save power.

Connecting the Transmitter to an Audio Source - The transmitter has three types of audio input options to choose from. The type of cable you use to connect the transmitter to the TV or other audio source will depend on what type of audio output terminals your signal source device is equipped with. You **MUST** also set the transmitter to read the input source you have chosen. This will be discussed in the next section of this manual. The connection options are as follows:

Analog Stereo Line Input (Diagram #8) – This input allows connection to the audio device with either the RCA analog audio output jacks or a headphone mini-jack/3.5mm stereo audio output jack.

IMPORTANT: Make sure terminals on TV/audio device marked as audio **OUTPUTS** are connected. Both audio input and audio output connections can be made using these types of connectors/cables. Many newer televisions **DO NOT** have audio **OUTPUT** connections of this type and **CANNOT** be connected to the transmitter with this input. If connecting to the RCA audio output jacks, a cable with stereo RCA jacks (usually one red and one white or black) on one end and a 3.5mm stereo mini-jack on the other is needed (included). If connecting to a headphone jack or 3.5mm stereo mini-jack, a cable that has 3.5mm stereo plugs on both ends is needed (a conversion cable is included). Connect the male/female RCA jacks to each other. The 3.5mm stereo plugs on either end of the combined cables will allow this connection to TV/audio device.) After the connection has been made to TV/audio device, plug the other end of the cable into the port on the transmitter marked "Line Input" (Diagram #8). **NOTE:** **Do Not** connect the transmitter to an

*amplified audio source. The transmitter is manufactured with sensitive components that are designed to work with line-level voltages **Only**. Connecting the transmitter to an amplified audio source will damage the unit and void the warranty.*

Digital Optical Input (Diagram #9) – Use this input selection if TV/audio device has a digital optical audio output or S/PDIF or TOSLINK jack. This connection allows for the highest quality audio transmission and is the preferred method if available. This connection requires the use of a fiber-optic or TOSLINK cable made specifically for this type of connection. (This cable is available from ARG, # ARG-CA017.) One end of the cable is inserted into the jack marked “Optical Audio Output”, “S/PDIF” or similar description on TV/audio device. Insert the other end of the cable into the port on the transmitter marked below with “Optical Input” and the XXXXX. symbol (Diagram #10). Make sure the ends of the cable are securely connected to the ports on both ends. These plugs usually “click” into place when properly inserted. (NOTE: these cables are usually shipped with clear plastic protective covers on the ends, be sure to remove these covers before connecting.)

Digital Coaxial Input (Diagram #11) –The output terminal for this connection looks like a standard RCA-type jack and will be orange. A cable specifically designed to transmit digital audio signals is needed for this connection. (Purchase from ARG, part # ARG-CA016.) DO NOT use a standard RCA cable as it will NOT have the proper shielding and may cause interference with other electronic devices located in close proximity to the cable. Plug one end of the cable into the orange terminal on TV/audio device labeled “Digital Audio Output” or similar. The other end plugs into the white RCA jack on the top of the transmitter marked “Coaxial Input”.

Note – DO NOT connect more than one audio source to the transmitter at a time. Connecting multiple cables can cause permanent damage to the unit.

Setting the Audio Input Source - The input source on the transmitter must be set to correspond to the chosen input. This allows the transmitter to read the type of audio signal and where to find it. Failure to set the input source to match the connection will result in poor or no audio being sent from the transmitter. The input setting is shown in the input indicator (Diagram #14) by the number of decimals showing in the display. Set the input source on the transmitter by pressing the “MODE” button (Diagram #6) in the lower left corner of the unit. Each time the “MODE” button is pressed, the transmitter will toggle between the three input sources: Analog Line (no decimal lit); Digital Coaxial (1 decimal lit); or Optical Digital (2 decimals lit).

If the desired setting is missed, keep pressing the “MODE” button as it will continue cycling through the selections. Again, make sure the setting corresponds to the cable type used to connect the transmitter to the audio source.

Confirming Signal Acquisition – When properly connected to the TV/audio source (assuming the output for that device has been set correctly) and the corresponding input source has been selected, the transmitter will detect the audio signal automatically. Make sure the transmitter is receiving and has detected a usable audio signal from the TV/audio source by observing the digits in the display that represent the volume level (Diagram #1). If the digits are steadily lit (NOT flashing), the transmitter is receiving and has detected a good audio signal from the device. If the digits are flashing, the transmitter has detected either a weak signal or no audio signal at all. If weak/no signal, check connections; the input setting on the transmitter; and verify that the TV/audio device is generating a usable signal. If the device is not sending a good signal, check to see if the volume level on the TV/audio source is adjusted too low. The level should be set to approximately 75% of the maximum. Turn up the volume, then turn off the speakers on the device by changing the setting through the on-screen menus. (See the owner’s manual for instructions.) If the problem persists, contact the technical service department for your TV/audio device or ARG for assistance.

Setting the Broadcast Channel – The transmitter has a total of 14 different channels to choose from (01-14). Select the broadcast channel by pressing the “CHANNEL UP” (Diagram #2) or “CHANNEL DOWN” (Diagram #3) button. The channel number selected will be shown as the two digits on the left side of the display window (Diagram #12).

OTHER FUNCTIONS:

Changing the Output Level - This setting controls the loudness or volume level of the transmitter’s audio signal. Use this as an auxiliary volume control if TV/Audio device has a **fixed** audio output that is either too high or too low. The output level setting is displayed as the two digits on the right side of the LCD, with a range from zero to 15. If the

output level display is flashing, the signal coming from the TV/audio source is too low or missing. Review the sections "Setting the audio input source" and "Confirming signal acquisition" as needed. Lower the output level by pressing the "OUTPUT DOWN" arrow (Diagram #5) and increase it by pressing the "OUTPUT UP" arrow (Diagram #4). (Note: The factory setting output level is "08". If the level is too low, it will be difficult to hear the transmitter sound or if it is set too high, the sound will become distorted be difficult to understand.) This setting can also be used for evening out the volume levels of different televisions in a multiple device system as TV channels broadcast at different volume levels.

If you are experiencing difficulty with the transmitter or it is not functioning normally, unplug the power from the unit. After about one minute, re-connect the power to "reset" the transmitter.

NOTES:

- Make sure the audio cables are connected to terminals on the TV/audio device marked "OUTPUT" or "AUDIO OUT". Terminals marked "INPUT" or "AUDIO IN" will NOT supply audio to the transmitter.
- Only connect one type of audio cable to the transmitter at a time. Connecting multiple cables can cause permanent damage to the unit.
- If the volume on the TV/audio device is adjusted too low, the transmitter will read the signal source device as turned off. The transmitter will shut down after a few minutes to save power.
- Avoid setting the volume on the TV/audio device to the maximum level as the audio will be distorted. The transmitter may also shut down to protect from overload.
- Use only ARG approved accessories to not cause damage to the transmitter.

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.