

 TrueDio® Ears

## Wireless TV Headset System



TD-110 | Single Headset  
TD-120 | Dual Headset

## User Manual

TrueDio® Ears Wireless TV Headset System

### INSTALLATION GUIDE

Telephone: (800) 991-6207      [www.TruedioEars.com](http://www.TruedioEars.com)

TrueDio® brand owned and operated by LIBERTY Health Supply, LLC

## **Contents**

**A. Safety Instructions**

**B. Main Features**

**C. Products Included in the Box**

**D. Part Functions**

**E. How to Setup**

**STEP 1 - Place and Connect Power to the Transmitter**

**STEP 2 - Use Analog Cables to Connect Transmitter to TV**

**STEP 3 - Charge Headset Prior to Use**

**STEP 4 – Power On and Use Headset**

**STEP 5 – Power Off Headset**

**F. Technical Specifications**

**G. Frequently Asked Questions - FAQ**

**H. Warranty Information**

**I. Users Notes**

## A. SAFETY INSTRUCTIONS

**Read all instructions completely and follow the safety instructions before using the product.**

1. When using this unit, basic safety precautions should always be followed to avoid the risk of electrical shock or personal injury.
2. Store this user manual in a safe place for future reference.
3. Do not submerge or use the TrueDio® Ears near water or moisture.
4. Protect the transmitter, AC adapter, and other cords from overheating and keep clear of other prolonged abuse such as getting stepped on.
5. Only use authorized TrueDio® Ears accessories and adapters with your TrueDio® Ears System. Warranty may be voided if used with unauthorized accessories and adapters.
6. Set up and store TrueDio® Ears away from heat sources such as fireplaces, appliances, etc.
7. Refer all troubleshooting and servicing problems to our certified TrueDio® Ears Support Team. Warranty may be voided if system is serviced by unauthorized personnel.
8. Clean with a soft, dry cloth.

**WARNING:** To reduce risk of fire or electrical shock, keep your TrueDio® Ears safe from rain or moisture, and do not expose to outdoor elements.

## B. MAIN FEATURES

Listen to and enjoy TV sound clearly and comfortably without turning up the volume and disturbing those around you!

- 1. Voice Clarifying Circuitry:** Makes TV audio and dialogue easier to understand by automatically reducing loud and unwanted background sounds.
- 2. Balance Control:** Located on the back side of the headset and labeled “BAL”. You can adjust the volume of the right and left side separately to make one ear louder than the other. Use the included balance adjusting screwdriver to adjust the left and right volume separately to your preferred level.
- 3. Volume Control:** The convenient volume control wheel allows each user to adjust the volume to his or her preferred level without disturbing others.
- 4. Tone Control:** The convenient tone control wheel allows each user to adjust the tone to hear the audio clearly during frequency changes.
- 5. Rechargeable Transmitter:** Allow approximately 3-5 hours of charging time for headset to be fully charged.
- 6. Lightweight, Rechargeable Headset Receiver:** Each headset weighs only 1.94 ounces and provides up to 12 hours of continuous listening when fully charged.

## C. PRODUCTS INCLUDED IN THE BOX



TD-110 (for one receiver) TD-120 (for two receivers)

**Transmitter**



**Headset Receiver**



**Long audio cables**



**Short audio cables**



**Power Adapter**



**Balance Adjusting Screwdriver**



**User Manual**

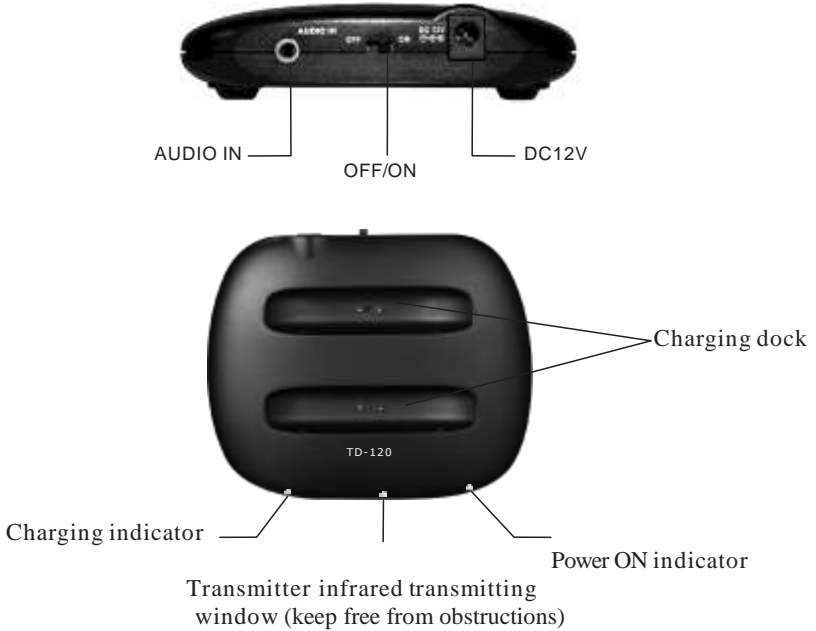


**Rubber Ear Tips (2 pair)**

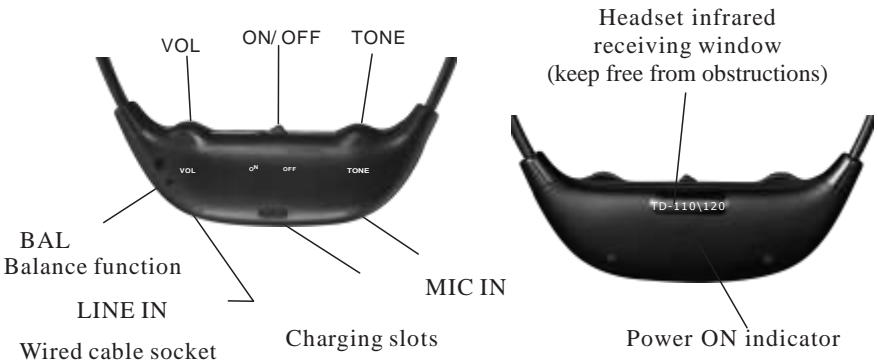
**Note:** Two (2) headset receivers are included with TD-120 purchase.

## D. PART FUNCTIONS

### 1. Transmitter



### 2. Headset Receiver



## E. HOW TO SETUP

### STEP 1 - Place and Connect Power to the Transmitter

Connect and plug the power adapter into a nearby electrical outlet and plug the other end of the power adapter into the “DC 12V” slot of the transmitter.



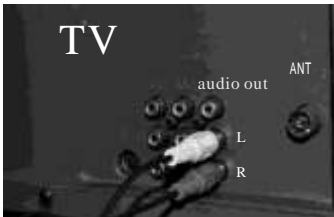
### STEP 2 - Use Analog Cables to Connect Transmitter to TV

Connect the single-plug end of the audio cables (3.5mm plug) into the “**Audio In**” slot of the transmitter. Next, connect the dual-plug ends (red & white male ends) into the “**Audio Out**” ports located on the back or side of your television, cable or satellite box.

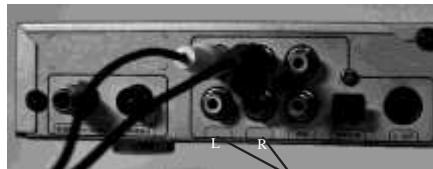
Note: Check all sides of your television, cable or satellite box if you are unable to locate the Audio Out ports on your device. Not all televisions have audio out ports. If your television does not have audio out ports, please go to [www.TrueDioEars.com](http://www.TrueDioEars.com) and purchase the **TrueDio® Ears Digital to Analog Converter (Item # TD-DAC)** or call (800) 991-6207 to speak with a TrueDio® Representative.



Connect to AUDIO OUT



Connect to AUDIO OUT



Audio out

## STEP 3 - Charge Headset Prior to Use

Verify that all plugs are securely in place and that the transmitter is located in open space and free of obstructions blocking it from sending its signal to your headset (example: behind television, entertainment unit, etc.). Next, turn and power on your transmitter by sliding power switch on the back of the transmitter to the “ON” position. The red power indicator will light up confirming power is on. Next, place your headset in the transmitter charging dock for 3-5 hours to fully charge the battery prior to use.

Note: To receive optimal reception, ideal setup and placement for the transmitter is 3-5 feet above the ground with the transmitter pointed directly towards the area the headset will be worn and used.



## STEP 4 – Power On and Use Headset

Turn and power on your headset by sliding the power switch to the “ON” position. The red power indicator will light up confirming power is on. To receive optimal reception, direct and point the transmitter’s infrared transmitting window toward the area you will be wearing the headset. You are now ready to use your TrueDio® Ears! Simply adjust the volume and tone to your preferred levels and enjoy!

Note: Always wear the headset with the TrueDio® Ears logo facing outward so that the infrared receiving window can properly receive the signal from the transmitter.

## STEP 5 – Power Off Headset

Turn and power off your headset by sliding the power switch to “OFF” position. The red power indicator light will turn off confirming the power is off.



## F. TECHNICAL SPECIFICATIONS

### 1. Transmitter

Working voltage	12V±0.8V, 400mA
Working current	95±8mA
Standby current	10±4mA
Trans. frequency	2.3MHz
Signal input limiting volt.	≥400mV
Signal standby starting volt.	≥50mV
Signal input standby volt.	≤40mV
Signal input frequency	20Hz - 20KHz
Signal input range	120mV-1.5V
Li-ion battery recharging current	125±5mA
Transmission distance	≥10M
No signal standby time	60s±5s(when no signal put in, the transmitter come into standby state automatically)

### 2. Receiver

Working voltage	3.7V (3.2V~4.2V)
Static working current	19±3mA
Dynamic working current	≤45mA
Maximum working current of input	≤25mA
Input signal rage	100 mV~800 mV
Input Working current of MIC	≤20mA
Max. Gain of MIC	33dB
Receiving frequency	2.3MHz
Distortion	≤1%
S/N ratio	≥70dB
Maximum output power	800mV / 25mW
LI-ion battery charging time	3~4 hours
Working time	12 hours of continuous TV audio

## G. FREQUENTLY ASKED QUESTIONS - FAQ

### Q1. Why am I hearing silence or no sound at all out of my headset?

First, check and confirm that all power and cable connections are securely in place. Next, confirm that the power switch on both the headset and transmitter are turned to the “ON” position and that the power indicator lights on both the headset and transmitter are showing solid red.

- If the transmitter power indicator light is off when powered “ON”, then the transmitter is likely not plugged in securely. Check connections and try again.
- If the transmitter power indicator light is on and showing red when powered “ON” and you still hear silence, then there may be an object blocking the transmitter from properly sending its signal to the headset. Remove all obstructions and confirm that the transmitter is facing and pointed towards the area you are wearing the headset. Relocate the positioning of the transmitter if necessary.
- If the headset power indicator light is off when powered “ON”, then the headset battery is dead and will need to be recharged or replaced.
- If the headset power indicator light is on and showing red when powered “ON” and you still hear silence, then there may be an object blocking the headset from properly receiving its signal from the transmitter. Remove all obstructions and confirm that the transmitter is facing and pointed towards the area you are wearing the headset. Relocate the positioning of the transmitter if necessary.

### Q2. Why do I hear silence when I turn my head or turn around while wearing the headset?

TrueDio® Ears operate on infrared or “line of sight” technology and will not transmit its signal through obstructions such as walls, entertainment units, appliances, etc. In order to receive optimal reception, keep the transmitter in open space 3 to 5 feet above the ground and confirm that your headset’s infrared receiving window is facing and pointed toward the transmitter and the transmitter’s infrared transmitting window.

### **Q3. Why do I hear television audio when watching a DVD or video?**

When the audio cords are plugged into BOTH the audio out port of a television AND audio out port of a DVD player, you must turn and power off the device that is not in use. In this example, to listen to the DVD audio you will need to power off the television cable box.

### **Q4. How do I Charge the Headset?**

To charge the headset, simply place the headset in the transmitter charging dock with the headset logo facing towards the transmitter logo. The red charging indicator light will turn red confirming the headset is charging.

## **H. WARRANTY INFORMATION**

The TrueDio® Ears 6 month warranty will cover any manufacturing defects and other product failures that occur within a 6 month period beginning from the original purchase date. Repairs or replacement parts purchased and performed by non-authorized personnel will void the warranty. The warranty does not cover damage due to misuse or accidental damage by the user such as water damage, negligence, or normal cosmetic damage from day to day use. Please read our full return policy at [www.truedioears.com/returns](http://www.truedioears.com/returns) for full details.

## **CONTACT INFORMATION**

**Sales, Support &  
Warranty Telephone** | 800-991-6207

**Fax Telephone** | 877-991-8028

**Sales, Support &  
Warranty Email** | [sales@truedio.com](mailto:sales@truedio.com)

**Mailing Address** | TrueDio® Ears  
14044 W. Petronella Drive Suite 5  
Libertyville, IL 60048  
USA

**I. USER NOTES**