

## Avantree BTHT-7100

# Avantree Crescendo 3D Wireless TV Headphones User Manual

Model: BTHT-7100 | Brand: Avantree

## 1. INTRODUCTION

The Avantree Crescendo 3D Wireless TV Headphones (Model BTHT-7100) are designed to provide an immersive audio experience for television viewing. Featuring 7.1 virtual surround sound, HDMI ARC passthrough, and broad compatibility with various TV audio outputs, these headphones offer a personalized listening solution. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

## 2. WHAT'S IN THE BOX

- Crescendo 3D Headphones
- Transmitter & Charging Dock
- Optical Audio Cable
- AUX 3.5mm Audio Cable
- Power Cable for Transmitter
- USB Adapter

## 3. SETUP

This section guides you through connecting your Avantree Crescendo 3D headphones to your television. The transmitter dock supports multiple audio input options to ensure compatibility with nearly all TV models.

### 3.1. Unboxing and Initial Overview

Watch this video for a visual guide on unboxing and an initial overview of the Avantree Crescendo 3D Surround Sound TV Headphones.

Video: Unboxing the Avantree Crescendo 3D Surround Sound TV Headphones. This video demonstrates the contents of the package and provides a first look at the headphones and transmitter dock.

### 3.2. Connecting the Transmitter Dock to Your TV

The transmitter dock features various input ports to connect to your TV. Identify the available audio output ports on your television and select the corresponding cable.

## WORKS WITH ALL TVS

HDMI, Optical, AUX & Bluetooth support  
for all smart or traditional TVs



HDMI ARC



Optical



AUX



Bluetooth

Image: Rear view of the Avantree Crescendo 3D transmitter dock, highlighting the various audio input and output ports including HDMI ARC, Optical, AUX, and DC IN. This image helps users identify the correct ports for connection.

#### 3.2.1. HDMI ARC Connection

For optimal audio quality and simultaneous soundbar use, connect your TV to the transmitter dock via HDMI ARC.

1. Connect one end of an HDMI cable to the **HDMI ARC** port on your TV.

2. Connect the other end of the HDMI cable to the **HDMI ARC 1 (Input From TV)** port on the transmitter dock.
3. If using a soundbar, connect an additional HDMI cable from the **HDMI ARC 2 (Bypass Output To Speaker)** port on the transmitter dock to your soundbar's HDMI ARC input.

# HDMI BYPASS

Soundbar and headphones play together via HDMI, OPT, or AUX



Image: Connection diagram illustrating how to set up the Avantree Crescendo 3D with a TV and a soundbar using HDMI ARC passthrough. The headphones receive audio wirelessly from the transmitter, while the soundbar also plays audio.

## 3.2.2. Optical (OPT) Connection

If your TV has an Optical Digital Audio Out port, use the provided Optical Audio Cable.

1. Connect one end of the Optical Audio Cable to the **Optical Digital Audio Out** port on your TV.
2. Connect the other end of the Optical Audio Cable to the **OPT 1 (Input From TV)** port on the transmitter

dock.

### 3.2.3. AUX (3.5mm) Connection

For TVs with a 3.5mm audio output (headphone jack), use the provided AUX 3.5mm Audio Cable.

1. Connect one end of the AUX 3.5mm Audio Cable to the **3.5mm Audio Out** (headphone) port on your TV.
2. Connect the other end of the AUX 3.5mm Audio Cable to the **AUX 1 (Input From TV)** port on the transmitter dock.

### 3.2.4. Microphone Connection (for older TVs)

If your TV lacks digital audio outputs or a headphone jack, you can use the external microphone for audio input. This method captures sound directly from your TV's speakers.

1. Plug the external microphone into the **MIC** port on the transmitter dock.
2. Position the microphone directly in front of your TV's speaker.

## 3.3. Powering the Transmitter Dock

1. Connect the Power Cable for Transmitter to the **DC IN** port on the transmitter dock.
2. Plug the USB Adapter into a power outlet.

## 4. OPERATING THE HEADPHONES

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Once the transmitter dock is set up, you can begin using your Avantree Crescendo 3D headphones.

Video: Introduction to Avantree Crescendo 3D Surround Sound Wireless TV Headphones. This video provides a general overview of the product's features and benefits.

### 4.1. Power On/Off and Pairing

1. To power on the headphones, slide the **ON/OFF** switch to the 'ON' position.
2. The headphones will automatically pair with the transmitter dock. A successful connection is indicated by a steady blue light on the headphones.
3. To power off, slide the **ON/OFF** switch to the 'OFF' position.

### 4.2. Audio Modes and Controls

The headphones offer various modes and controls for a customized listening experience.

- **Volume Control:** Use the volume buttons on the headphones to adjust the audio level.
- **3D Virtual Surround Sound:** Activate the cinematic 3D virtual surround sound for an immersive experience.
- **Clear Voice and Volume Boost:** These features enhance dialogue clarity and overall volume, beneficial for users with hearing difficulties.
- **Active Noise Cancellation (ANC) & Transparency Modes:** Switch between ANC to reduce ambient noise or Transparency mode to hear your surroundings.

### 4.3. Bluetooth for Everyday Use

Beyond TV, the Crescendo 3D headphones can be used as standard Bluetooth headphones with your phone, tablet, or laptop.

1. Ensure the headphones are disconnected from the TV transmitter.
2. Activate Bluetooth pairing mode on the headphones (refer to the specific button on the headphone for

Bluetooth pairing).

3. Search for "Avantree Crescendo 3D" on your device's Bluetooth settings and connect.

#### 4.4. Charging

The headphones offer up to 60 hours of playtime on a single charge and can be conveniently charged using the transmitter dock.

## LONG BATTERY LIFE

Enjoy up to 60 hours of uninterrupted  
TV listening per charge



Image: Avantree Crescendo 3D headphones illustrating their impressive 60-hour battery life, ensuring extended listening sessions.

1. Place the headphones onto the transmitter dock. Ensure the charging contacts align.
2. The charging indicator light on the dock will show the charging status.

3. A full charge takes approximately 2.5 hours.

## 5. MAINTENANCE

The Avantree Crescendo 3D headphones are designed with replaceable parts to extend their lifespan and maintain comfort.

# REPLACEABLE PARTS

Earpads, battery & headband—all replaceable for long-lasting use



Image: Exploded view diagram of the Avantree Crescendo 3D headphones, highlighting the replaceable headband, earpads, and battery for extended product life.

### 5.1. Replacing the Battery

The battery is user-replaceable to ensure long-term use.

1. Gently open the battery compartment cover on one of the earcups.
2. Remove the old battery and insert a new compatible battery, ensuring correct polarity.
3. Close the battery compartment cover securely.

## 5.2. Replacing Earpads and Headband Padding

Earpads and headband padding can be replaced for hygiene and comfort.

1. Carefully detach the old earpads or headband padding from the headphones.
2. Align the new earpads or padding and press firmly to secure them in place.

## 6. TROUBLESHOOTING

If you encounter any issues with your Avantree Crescendo 3D headphones, refer to the following common troubleshooting steps.

- **No Sound:**
  - Ensure the transmitter dock is powered on and connected correctly to your TV's audio output.
  - Verify that the input selector switch on the transmitter dock matches the audio input you are using (e.g., AUX, OPT, HDMI ARC).
  - Check the volume levels on both your TV and the headphones.
  - Confirm the headphones are successfully paired with the transmitter (indicated by a steady blue light).
- **Audio Delay (Lip-Sync Issues):**
  - Ensure you are using a direct digital audio connection (HDMI ARC or Optical) if available, as these generally offer better lip-sync performance.
  - Avoid using the microphone input for critical viewing if other options are available, as it may introduce slight delays.
- **Headphones Not Charging:**
  - Ensure the transmitter dock is properly connected to a power source.
  - Verify that the headphones are correctly seated on the charging contacts of the dock.
  - Check for any debris on the charging contacts of both the headphones and the dock.

## 7. SPECIFICATIONS

Feature	Detail
Model Name	Crescendo 3D
Item Model Number	BTHT-7100
Connectivity Technology	Bluetooth 5.3
Noise Control	Active Noise Cancellation
Battery Life	60 Hours

Charging Time	2.5 Hours
Headphones Jack	3.5 mm Jack
Special Features	3D Surround Sound, HDMI Passthrough for Soundbar, Replaceable Battery
Compatible Devices	All TVs (HDMI, Optical, AUX, Bluetooth), Phones, Tablets, Laptops

## 8. WARRANTY AND SUPPORT

Avantree products are designed for durability and user satisfaction. The Crescendo 3D headphones come with a 2-year warranty.

For further assistance, troubleshooting guides, or to claim your warranty, please visit the official Avantree support website or contact their customer service directly. Detailed contact information can be found in the included user guide or on the Avantree website.