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Avantree BTHT-6190P-EU

Avantree Opera Plus Wireless Headphones User Manual

Model: BTHT-6190P-EU

INTRODUCTION

Welcome to the user manual for your Avantree Opera Plus Wireless Headphones. This guide provides detailed instructions on setting up, operating, maintaining, and troubleshooting your new headphones. Designed for an optimal TV watching experience, the Opera Plus features clear dialogue, volume boost for enhanced hearing, and seamless integration with your existing sound system.

WHAT'S IN THE BOX

Please ensure all items listed below are included in your package:

- Avantree Opera Plus Headphones
- Transmitter & Charging Dock
- USB Power Adapter
- Type C Power Cable for Transmitter
- Type C Charging Cable for Headphones
- Optical Audio Cable
- AUX 3.5mm Audio Cable



Figure 1: Avantree Opera Plus Headphones on Charging Dock.

MULTIFUNCTION BASE

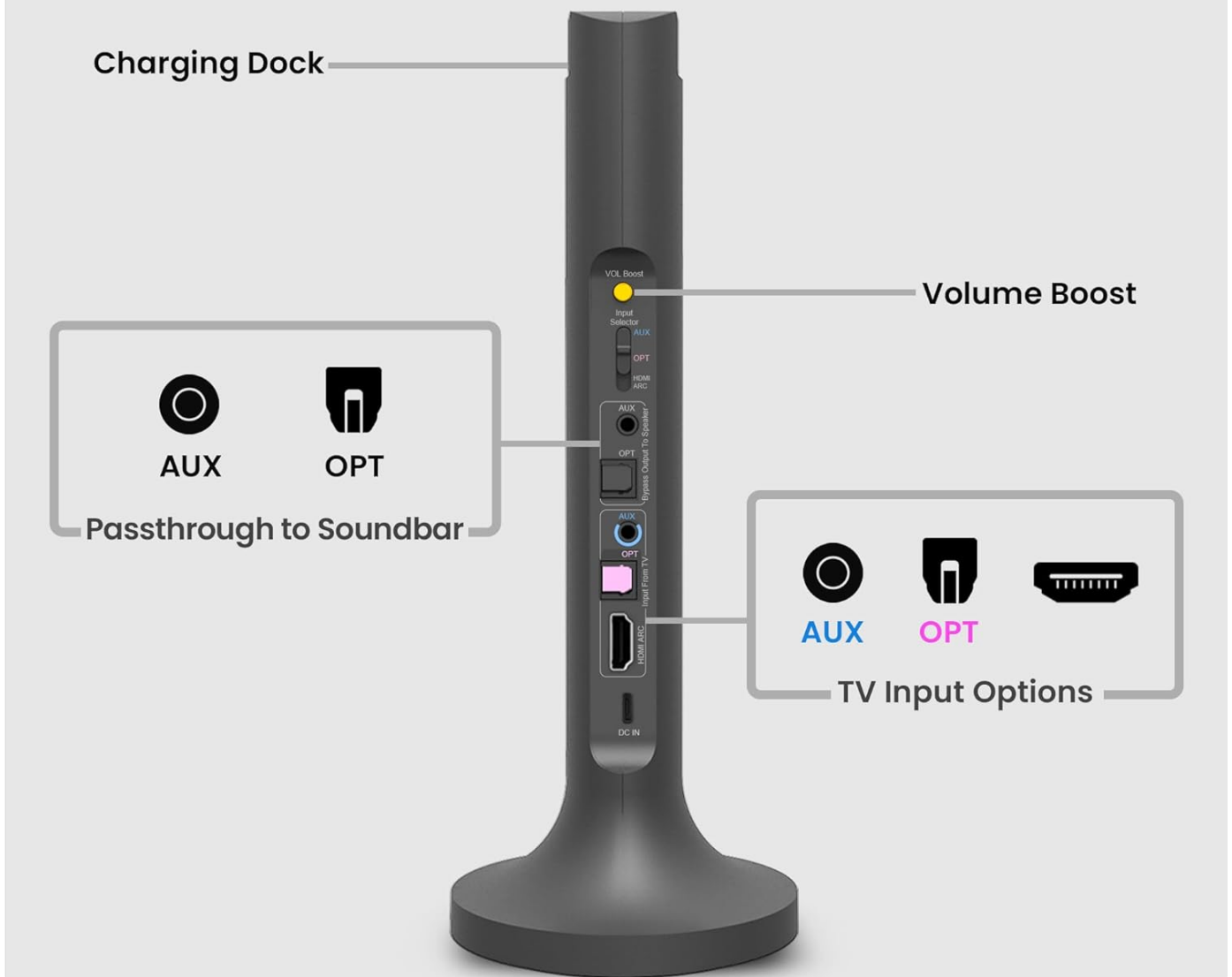


Figure 2: All included components of the Opera Plus set.

SETUP GUIDE

The Avantree Opera Plus is designed for easy plug-and-play setup. Follow these steps to get started:

1. Connect the Transmitter

Connect the transmitter to a power source using the provided USB-C power cable and USB adapter. Place the transmitter near your TV.

Next, connect the transmitter to your TV using one of the following audio input options:

- **Optical (TOSLINK):** Use the optical audio cable for digital audio output. This is the recommended connection for most modern TVs.
- **AUX (3.5mm):** Use the 3.5mm AUX audio cable for analog audio output.
- **HDMI ARC:** Connect via HDMI ARC for integrated audio and control (ensure your TV supports HDMI ARC audio output).



Figure 3: Detailed view of the transmitter's input/output ports.

2. Power On and Pair

The headphones and transmitter come pre-paired from the factory. Simply slide the power switch on the transmitter to 'ON' and the power switch on the headphones to 'TV/Base'. They should automatically connect.

If re-pairing is needed, hold the 'PAIR' button on the transmitter until the LED flashes red & blue. On the headphones, hold the 'TV/Base' button until the LED flashes red & blue. Once connected, the LEDs will turn solid blue.

3. Adjust TV Audio Settings

Depending on your TV model and connection type, you may need to adjust the TV's audio output settings. For optical connections, set the digital audio output format to 'PCM' (Pulse-Code Modulation) and not 'Dolby Digital' or 'DTS'.

Video 1: Interactive User Guide for Avantree Opera Plus TV Headphones. This video provides a step-by-step visual guide for initial setup and connection.

OPERATING INSTRUCTIONS

Sound Modes and Volume Boost

The Opera Plus headphones offer two distinct sound profiles and a volume boost feature:

- **Clear Dialogue Mode:** Enhances speech clarity, ideal for news, talk shows, or users with hearing difficulties.
- **Cinema Mode:** Provides an immersive audio experience with richer bass and dynamic sound, perfect for movies and music.
- **Volume Boost:** Delivers up to 20% louder sound than standard headphones without distortion, activated via the 'VOL Boost' button on the transmitter.



Figure 4: Visual representation of Clear Dialogue and Extra Loud Volume capabilities.

Soundbar Sharing (Pass-Through)

The transmitter features a pass-through function, allowing you to listen to TV audio through your headphones while simultaneously outputting sound to a soundbar or external speaker. This is ideal for shared viewing environments.

PASS-THROUGH SUPPORT

Listen through both the soundbar/external speaker and your headphones simultaneously.



Figure 5: Illustration of the pass-through support feature, enabling simultaneous audio output to headphones and a soundbar.

Flexible Usage (2.4GHz and Bluetooth)

The Opera Plus headphones can be used in two modes:

- **2.4GHz Wireless:** Connects to the transmitter for ultra-low latency audio, ensuring perfect lip-sync with TV content.
- **Bluetooth:** When detached from the base, the headphones can connect directly to Bluetooth-enabled devices like smartphones, tablets, and smart TVs for independent use.

FLEXIBLE USAGE

Swap between 2.4Ghz and Bluetooth with the flip of a switch to connect to various devices.



Bluetooth

2.4Ghz

Figure 6: The headphones support both 2.4GHz wireless and Bluetooth connectivity for versatile use.

Low Latency Performance

The 2.4GHz wireless connection provides an ultra-low audio latency of 30 milliseconds, virtually eliminating any noticeable delay between the on-screen action and the audio you hear. This ensures a perfectly synchronized viewing experience.

NO LIP-SYNC DELAYS

A latency of less than 30ms provides perfectly synced visual & audio.



Figure 7: Enjoy perfectly synchronized audio and video with minimal delay.

MAINTENANCE

Charging Your Headphones

To charge the headphones, simply place them on the charging dock. The LED indicator on the headphones will show charging status. A full charge provides up to 35 hours of battery life and takes approximately 2 hours.

Cleaning and Care

Wipe the headphones and transmitter with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials. Keep the charging contacts clean and free of dust.

Earpad Replacement

The Opera Plus headphones are designed with soft, comfortable, and replaceable earpads for long-term comfort and hygiene. Refer to the Avantree website or contact support for replacement earpads and instructions.

TROUBLESHOOTING

No Sound from Headphones

- Ensure the transmitter is powered on and connected to the TV correctly.
- Verify the input selector on the transmitter matches your TV's audio output (Optical, AUX, HDMI ARC).
- Check your TV's audio settings. For optical connections, set the digital audio output format to 'PCM'.
- Confirm the headphones are powered on and successfully paired with the transmitter (solid blue LED).

Audio Delay (Lip-Sync Issues)

- Ensure you are using the 2.4GHz wireless connection with the transmitter, as Bluetooth connections may introduce slight delays depending on the device.
- Check if your TV has any audio delay settings that can be adjusted.

Headphones Not Charging

- Ensure the headphones are correctly seated on the charging dock and the charging contacts are clean.
- Verify the charging dock is powered on and connected to a working power outlet.

Video 2: Avantree Opera Plus - Wireless Headphones for TV Watching. This video provides an overview of the product's features and may assist with common queries.

TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	Opera Plus
Model Number	BTHT-6190P-EU
Connectivity Technology	Wireless (Bluetooth & 2.4G RF)
Battery Life	35 Hours
Charging Time	2 Hours
Audio Latency	30 Milliseconds
Frequency Range	20Hz-20KHz
Impedance	32 Ohm
Ear Placement	Over Ear
Control Type	Button Control / Push Button
Compatible Devices	Televisions, Laptops, Desktops, Gaming Consoles, Tablets, Smart Speaker, Cellphones

WARRANTY AND SUPPORT

Warranty Information

Avantree Opera Plus comes with a 24-month warranty. Please register your product on the Avantree website or refer to the QR code provided with the product for warranty details and future support.

Customer Support

For further assistance, technical support, or to purchase accessories, please visit the official Avantree website or contact their customer service directly. You can also refer to the [User Manual \(PDF\)](#) for additional details.