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> Highgaze BA-550T Multi-Input Bluetooth 5.4 Audio Transmitter with Auracast User Manual

Highgaze BA-550T

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Model: BA-550T | Brand: Highgaze

INTRODUCTION

The Highgaze BA-550T is a versatile Bluetooth 5.4 audio transmitter designed to broadcast audio from various sources to multiple Bluetooth-enabled receiving devices simultaneously. Featuring a Qualcomm 3086 chip, it supports LE Audio and Auracast for efficient, low-latency audio transmission. This device is ideal for scenarios requiring a single audio source to be shared with an unlimited number of listeners, such as in public spaces, educational settings, or for personal use with multiple headphones. It offers flexible connectivity options including 3.5mm and 6.3mm TRS ports, and USB audio input, ensuring compatibility with a wide range of audio equipment. The BA-550T also supports aptX classic/LL/HD/adaptive for real-time audio synchronization and provides up to 8 hours of total playtime.

PACKAGE CONTENTS

Please verify that all items are present in the package:

- Highgaze BA-550T Bluetooth Audio Transmitter
- USB-C to USB-A charging cable
- 3.5mm to 3.5mm audio cable
- 6.3mm to 3.5mm audio adapter

High-performance Bluetooth® stereo audio with **Qualcomm® 3086 Auracast™** chip



Multi Input Bluetooth® 5.4 Audio Transmitter with Auracast™

Image: Highgaze BA-550T box showing the transmitter and included cables.

DEVICE OVERVIEW

Familiarize yourself with the buttons and ports on your Highgaze BA-550T transmitter:

- **Connectivity Switch:** Toggles between 6.3mm TRS port, 3.5mm TRS port, and Charge & USB Audio port.
- **Bluetooth Connection Button:** Initiates Bluetooth pairing.

- **Power ON/OFF Button:** Turns the device on or off.
- **Volume UP Button:** Increases audio volume.
- **Volume DOWN Button:** Decreases audio volume.
- **LED Indicators:** For LE Audio, aptX, Battery, Bluetooth, and Auracast status.



Image: Front panel of the Highgaze BA-550T with labeled controls.

1-to-1 Classic/ LE Audio Mode

6.3mm TRS
Audio-in

3.5mm TRS
Audio-in

USB Type-C
Audio-in



Transmit(TX)



x1



1-to-N Auracast Mode

6.3mm TRS
Audio-in

3.5mm TRS
Audio-in

USB Type-C
Audio-in



Transmit(TX)



xN



SPECIFICATIONS

Connectivity Switch



Power

Battery

USB-C powered

5V 100mA

Button Function

- BT connection
- Power ON/OFF
- Volume UP
- Volume Down

Battery

Up to 2 hours per charge

Up to 8 hours of total playtime

Audio Codec

aptX Adaptive, aptX HD, aptX, SBC, LC3

HIGHGAZE INC.

www.highgaze.com.tw

FCC ID: PANBA550T
MADE IN TAIWAN

Image: Operational diagram and button functions of the Highgaze BA-550T.

SETUP

1. Connect Audio Source:

- For 3.5mm audio input: Connect your audio source (e.g., smartphone, laptop) to the 3.5mm TRS port on the BA-550T using the provided 3.5mm audio cable. Ensure the connectivity switch is set to the 3.5mm TRS position.

- For 6.3mm audio input: Use the 6.3mm to 3.5mm adapter with the 3.5mm audio cable to connect to devices with a 6.3mm output. Ensure the connectivity switch is set to the 6.3mm TRS position.
- For USB audio input: Connect the BA-550T to your computer or other USB audio source using the USB-C cable. Ensure the connectivity switch is set to the Charge & USB Audio position.

2. **Power On:** Press and hold the Power ON/OFF button until the device powers on.
3. **Initiate Bluetooth Pairing:** Press the Bluetooth Connection button to enter pairing mode. The Bluetooth LED indicator will flash.
4. **Connect Receiving Device:** On your Bluetooth-enabled receiving device (e.g., headphones, earbuds), enable Bluetooth and search for available devices. Select "Highgaze BA-550T" (or similar name) to connect.
5. **Enable Auracast (if applicable):** If your receiving device supports LE Audio and Auracast, you may need to enable "LE Audio" or "Listen to Auracast broadcast" in your device's Bluetooth settings after connecting to the BA-550T.

Your browser does not support the video tag.

Video: Step-by-step guide on setting up the Highgaze BA-550T, including connecting the audio source, powering on, and enabling Auracast on a smartphone.

OPERATING

Audio Modes:

- **1-to-1 Classic/LE Audio Mode:** In this mode, the transmitter connects to a single Bluetooth receiving device (e.g., one pair of headphones). This is the standard Bluetooth connection for private listening.
- **1-to-N Auracast Mode:** This advanced mode allows the BA-550T to broadcast audio to an unlimited number of Auracast-enabled receiving devices simultaneously. This is ideal for group listening or public broadcasts. To activate, ensure your receiving devices support Auracast and are configured to listen for broadcasts.

Volume Control:

Use the Volume UP (+) and Volume DOWN (-) buttons on the transmitter to adjust the output volume. You may also adjust volume on your connected receiving device.

Battery and Charging:

The BA-550T provides up to 8 hours of total playtime. The battery LED indicator shows the charging status:

- **Red:** Low battery / No charge.
- **Orange:** Half charge.
- **Green:** Full charge.

To charge, connect the BA-550T to a power source using the USB-C cable. Charging typically takes up to 2 hours.

MAINTENANCE

To ensure the longevity and optimal performance of your Highgaze BA-550T, follow these maintenance guidelines:

- Keep the device clean by wiping it with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not expose the device to water or excessive humidity.
- Handle the device with care to prevent physical damage.

TROUBLESHOOTING

If you encounter issues with your Highgaze BA-550T, refer to the following common problems and solutions:

- **Device not powering on:** Ensure the device is fully charged. Connect it to a power source using the USB-C cable and allow it to charge for at least 30 minutes before attempting to power on again.
- **Unable to pair with Bluetooth device:**
 - Ensure the BA-550T is in pairing mode (Bluetooth LED flashing).
 - Ensure your receiving device's Bluetooth is enabled and in pairing mode.
 - Move the devices closer to each other to ensure they are within range.
 - Try restarting both the BA-550T and your receiving device.
- **Auracast not working or not detected:**
 - Verify that your receiving device (e.g., smartphone, headphones) explicitly supports LE Audio and Auracast. Not all Bluetooth 5.4 devices support these specific features.
 - Check your receiving device's Bluetooth settings to ensure LE Audio or Auracast broadcast listening is enabled.
 - Some devices, like certain JBL speakers, may not be compatible with Auracast broadcasts from this transmitter.
- **No audio output:**
 - Check all cable connections to the audio source and the BA-550T.
 - Ensure the connectivity switch on the BA-550T is set to the correct input port (3.5mm TRS, 6.3mm TRS, or USB Audio).
 - Verify that the volume on both the BA-550T and the receiving device is turned up.
 - Confirm that the audio source is playing content.
- **Battery not showing full charge after extended charging:** If the battery indicator remains orange or red after several hours of charging, try using a different USB-C cable or power adapter. If the issue persists, contact support.

SPECIFICATIONS

| Feature | Detail |
|--------------------|--|
| Bluetooth Version | 5.4 |
| Chipset | Qualcomm 3086 |
| Audio Codecs | aptX Adaptive, aptX HD, aptX, SBC, LC3 |
| Special Features | LE Audio, Auracast, Low Latency |
| Input Ports | 3.5mm TRS, 6.3mm TRS, USB Audio (Type-C) |
| Power Source | Battery Powered (1 9V battery included), USB-C powered (5V, 100mA) |
| Battery Life | Up to 8 hours total playtime |
| Charging Time | Up to 2 hours |
| Item Weight | 6.4 ounces (0.18 Kilograms) |
| Package Dimensions | 6.85 x 4.72 x 1.77 inches |

SAFETY INFORMATION

Please read and adhere to the following safety guidelines:

- Avoid using this device near medical equipment as it may cause interference.
- Do not expose the device to extreme temperatures or humidity.
- Dispose of the device and its battery according to local regulations.
- For specific usage guidelines, contact support.

WARRANTY AND SUPPORT

For immediate technical support or warranty inquiries, please contact Highgaze directly:

- **Email:** supports@highgaze.com.tw

Please note that warranty terms and conditions may vary. Retain your proof of purchase for any warranty claims.

