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> Highgaze Dual Input Bluetooth 5.4 Audio Transmitter with Auracast Clip (Model: BA-55T) - Instruction Manual

Highgaze BA-55T

Highgaze Dual Input Bluetooth 5.4 Audio Transmitter with Auracast Clip

Model: BA-55T

INTRODUCTION

The Highgaze BA-55T Bluetooth 5.4 transmitter is designed to broadcast audio from a single source to multiple devices simultaneously. It supports both Bluetooth Classic/LE Audio modes and Auracast for versatile audio sharing in various environments such as airports, hotels, museums, or churches, providing real-time translation with minimal delay.

Key Features:

- Dual-mode operation with LE Audio and Auracast, compatible with certain smartphones.
- Simple pairing: double-click for Bluetooth Classic/LE Audio mode, triple-click for Auracast mode.
- Real-time audio synchronization with aptX classic/LL/HD/adaptive codecs.
- Flexible connectivity via 3.5mm TRS port and USB audio input.
- Up to 8 hours of total playtime.

PRODUCT OVERVIEW AND PACKAGE CONTENTS

HIGHGAZE®

BA-55T

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



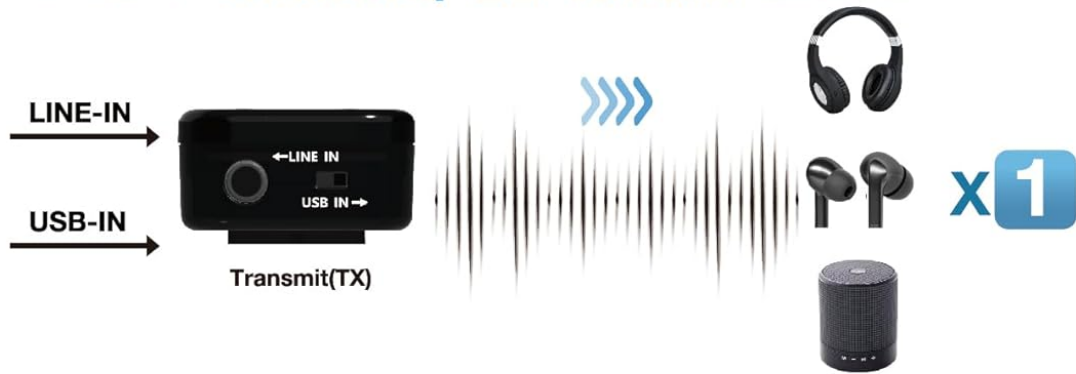
Dual Input Bluetooth® 5.4 Audio Transmitter with Auracast™ **Clip**

Image: The Highgaze BA-55T Bluetooth Audio Transmitter, showcasing its compact design and the included 3.5mm audio cable and USB charging cable.

The package includes the Highgaze BA-55T transmitter unit, a 3.5mm TRS audio cable for line-in connections, and a USB cable for charging and USB audio input.

MODES AND TECHNICAL SPECIFICATIONS

1-to-1 Classic/ LE Audio Mode



1-to-N Auracast Mode



SPECIFICATIONS

Connectivity Switch



Dimensions

59 mm x 29 mm x 21 mm

Weight

16g

Button Function

- 🔄 Auracast & BT
- ⊕ 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

FC RoHS
FCC ID: PANBA55T
MADE IN TAIWAN

Image: A visual representation of the two primary operating modes (1-to-1 and 1-to-N Auracast) and a table detailing the device's specifications and button functions.

Operating Modes:

- **1-to-1 Classic/LE Audio Mode:** Transmits audio from a single source to one receiving device (e.g., headphones, earbuds, speaker).
- **1-to-N Auracast Mode:** Broadcasts audio from a single source to an unlimited number of Auracast-enabled receiving devices simultaneously.

Specifications:

Connectivity Switch

3.5mm TRS port, Charge & USB Audio port

Dimensions	59 mm x 29 mm x 21 mm
Weight	16g
Battery	Up to 2 hours per charge, Up to 8 hours of total playtime
Audio Codec	aptX Adaptive, aptX HD, aptX, SBC, LC3

Button Functions:

- **Center Button:** Auracast & Bluetooth pairing.
- **'+' Button:** Volume Up.
- **'-' Button:** Volume Down.

SETUP AND OPERATION

Your browser does not support the video tag.

Video: A step-by-step guide on how to set up and use the Highgaze BA-55T Bluetooth Audio Transmitter, including connecting to an audio source and initiating an Auracast broadcast.

Step 1: Connect Audio Source

Plug the 3.5mm audio cable into the LINE IN port of the BA-55T transmitter. Connect the other end of the 3.5mm cable to your audio source (e.g., laptop, MP3 player, TV).

Step 2: Power On and Select Input

Power on the BA-55T. Ensure the input switch on the side is set to 'LINE IN' for 3.5mm audio or 'USB IN' if using USB audio.

Step 3: Prepare Receiving Device for Auracast

On your Auracast-compatible smartphone or receiving device, go to Bluetooth settings. Connect your earbuds or headphones. Access the settings for your connected audio device and ensure 'LE Audio' is enabled to enhance sound quality and performance.

Step 4: Initiate Auracast Broadcast

Triple-click the center button on the BA-55T transmitter to activate Auracast broadcast mode. On your receiving device, select 'Listen to Auracast broadcast' and choose the broadcast from the available list (e.g., 'Broadcast1104').

FREQUENTLY ASKED QUESTIONS (FAQ)

Q1. What Transmitter is for?

A.

HIGHGAZE Audio Transmitter is to broadcast audio from a single source to an unlimited number of receiving devices without the need for traditional one-to-one Bluetooth pairing.

Think of it like a radio broadcast where any Auracast™ enabled device can pick up the audio within range.

Q2. The differences between LE Auracast™ and non LE Auracast™ mode?

A.

LE Auracast™ - Single audio source to unlimited BT receivers (LE Auracast™ support)

Non LE Auracast™ - Single audio source to only one BT receiver

Q3. Which devices will support Auracast™?

A.

Devices need Bluetooth LE Audio capability to support Auracast™. Latest Android (No iPhone), wireless headphones, hearing aids, and audio systems will gradually support Auracast™.

(HIGHGAZE has tested with Samsung Galaxy S23/S24/S25 which One UI version 6.1 or higher. For headphones we've tested with Samsung Buds2 Pro and EarFun Air Pro4)

Image: A list of frequently asked questions and their answers regarding the Highgaze BA-55T and Auracast functionality.

Q1. What is this Transmitter for?

A. The HIGHGAZE Audio Transmitter is designed to broadcast audio from a single source to an unlimited number of receiving devices without the need for traditional one-to-one Bluetooth pairing. It functions similarly to a radio broadcast, allowing any Auracast™ enabled device within range to pick up the audio.

Q2. What are the differences between LE Auracast™ and non-LE Auracast™ mode?

A. **LE Auracast™:** Allows a single audio source to broadcast to an unlimited number of Bluetooth LE Audio receivers.

Non-LE Auracast™: Transmits audio from a single source to only one Bluetooth receiver.

Q3. Which devices will support Auracast™?

A. Devices require Bluetooth LE Audio capability to support Auracast™. Latest Android devices (excluding iPhones), wireless headphones, hearing aids, and audio systems are gradually incorporating Auracast™ support. HIGHGAZE has tested compatibility with Samsung Galaxy S23/S24/S25 (One UI version 6.1 or higher) and headphones such as Samsung Buds2 Pro and EarFun Air Pro4.

- Avoid using this device near other wireless devices to prevent interference.
- Do not dispose of the battery in regular trash; follow local regulations for recycling lithium-ion batteries.
- Keep the device away from extreme temperatures and humidity.

TROUBLESHOOTING

If you encounter issues with your Highgaze BA-55T transmitter, please consider the following:

- **No Audio Output:** Ensure the 3.5mm cable is securely connected to both the transmitter and the audio source. Verify the input switch on the transmitter is set correctly (LINE IN or USB IN). Check the volume levels on both the transmitter and your receiving device.
- **Pairing Issues:** For Bluetooth Classic/LE Audio mode, ensure your receiving device is in pairing mode and double-click the center button on the BA-55T. For Auracast, ensure your receiving device supports LE Audio and Auracast, and triple-click the center button on the BA-55T to broadcast.
- **Interference:** Move the transmitter and receiving devices away from other wireless electronics that might cause signal interference.
- **Battery Life:** If the device is not holding a charge, ensure it is properly connected to a power source using the provided USB cable.

CUSTOMER SUPPORT

For immediate technical support or any inquiries regarding your Highgaze BA-55T, please contact us via email:

supports@highgaze.com.tw