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› [FiiO](#) /

› [FiiO BTR13 Bluetooth Headphone Amplifier User Manual](#)

FiiO BTR13

FiiO BTR13 Bluetooth Headphone Amplifier User Manual

Model: BTR13

1. INTRODUCTION

The FiiO BTR13 is a versatile Bluetooth headphone amplifier designed to elevate your audio experience. It combines advanced decoding capabilities with powerful amplification in a compact, portable form factor. This manual provides detailed instructions for setting up, operating, and maintaining your BTR13 to ensure optimal performance.

Supports sampling rates of 96k Dual high-res Bluetooth/ USB sound card modes

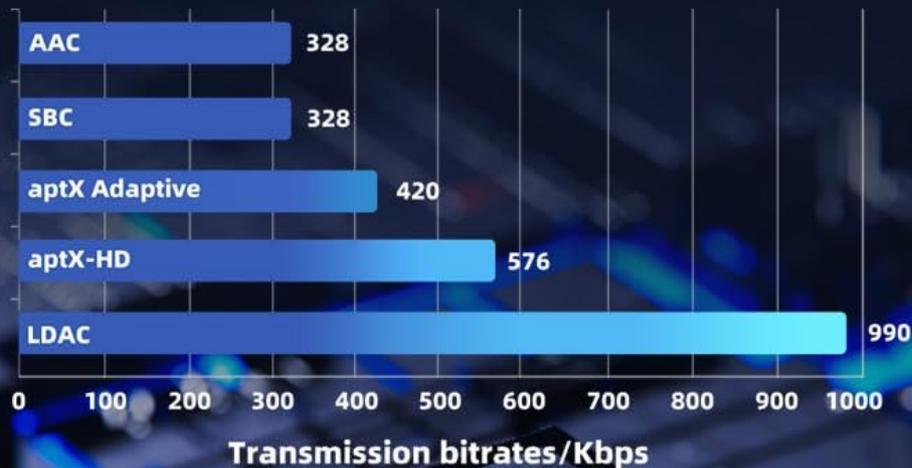


Image: The FiiO BTR13 Bluetooth DAC and Headphone Amplifier.

Video: An overview of the FiiO BTR13 Bluetooth Headphone Amplifier, highlighting its key features and design.

2. PACKAGE CONTENTS

Please check the package contents upon unboxing to ensure all items are present:

- FiiO BTR13 Unit
- Screen Protector (pre-installed)
- Dual Type-C Data Cable
- Lanyard
- Quick Start Guide
- Warranty Card

Parts list

- ①-----BTR13*1 ②-----Screen protector (pre-installed)*1
 ③-----Dual Type-C data cable*1 ④-----Lanyard*1
 ⑤-----Quick start guide*1 ⑥-----Warranty card*1



Image: All items included in the FiiO BTR13 package.

3. PRODUCT FEATURES

- **High-Fidelity Audio:** Equipped with dual Cirrus Logic CS43131 DACs, one for each channel, to minimize crosstalk and deliver pure, high-quality sound.
- **Powerful Output:** Independent headphone amplifier power supply boosting balanced output power to 220mW+220mW.
- **Advanced Bluetooth Connectivity:** Features Qualcomm QCC5125 Bluetooth chip supporting LDAC, aptX, aptX LL, aptX Adaptive, aptX HD, AAC, and SBC codecs. Achieves up to 96kHz sampling rate for high-definition audio.
- **Multi-Mode Operation:** PC/BT/PHONE three-position switch allows quick transitions between computer sound card, Bluetooth decoding, and mobile phone modes.
- **Customizable Sound:** Supports various preset sound effects and allows fine adjustment of EQ frequencies, gain, and bandwidth via FiiO's proprietary algorithms and app/web interface.
- **Compact and Portable:** Weighs just 28.6g, designed for easy portability.
- **Display:** 0.96-inch color IPS display for clear visual feedback.
- **In-line Controls Support:** The 3.5mm jack supports the CTIA standard for in-line controls, allowing use of

microphone, play/pause, and volume adjustment from your headphones' cable.

Fully balanced audio Dual high-end CS43131 DACs

Each channel is separately handled by a dedicated high-end Cirrus Logic CS43131 DAC. This effectively reduces crosstalk and allows for higher quality and purer sound.



Image: Dual high-end CS43131 DACs for fully balanced audio.

Independent headphone amplifier power supply

Unleashing immense force

An independent power supply system, with low noise and capable of high current output, was designed specifically for the built-in amplifier of the CS43131 DAC. This significantly boosts the balanced output power of the BTR13 by 282% compared to the BTR3K up to 220mW - making it easily capable of meeting any portable audio needs.

 **282%**
Balanced output power

78mW
BTR3K Balanced output power

220mW
BTR13 Balanced output power

Image: Independent headphone amplifier power supply for immense force.



Image: The BTR13 display showing APTX-HD codec and EQ settings.

4. SETUP

4.1 Initial Charging

Before first use, fully charge your FiiO BTR13. Connect the provided Dual Type-C data cable to the BTR13's USB-C port and the other end to a USB power adapter (not included) or a computer's USB port. The charging time is approximately 2 hours.

4.2 Power On/Off

- **Power On:** Press and hold the Power button until the screen lights up.
- **Power Off:** Press and hold the Power button until the screen turns off.

4.3 Connecting to Devices

The BTR13 features a PC/BT/PHONE three-position switch on its side for easy mode selection.

Computer sound card/Bluetooth decoder/sound dongle for phones



PC:



Connect to a computer for use as a USB DAC and headphone amp, powered completely by the computer.



BT:



Bluetooth decoder and headphone amplifier, powered by the internal battery, can be charged by USB.



PHONE:



Connect to a phone as a USB DAC audio dongle, being powered by its internal battery.

Image: The PC/BT/PHONE three-position switch and connection examples.

- **PC Mode (Computer Sound Card):** Set the switch to 'PC'. Connect the BTR13 to your computer via the USB-C cable. The device will function as a USB DAC and headphone amplifier, powered by the computer.
- **BT Mode (Bluetooth Decoding):** Set the switch to 'BT'. The BTR13 will act as a Bluetooth decoder and headphone amplifier, powered by its internal battery. To pair, put the BTR13 into pairing mode (refer to the Quick Start Guide for specific button combinations) and select 'FiiO BTR13' from your device's Bluetooth settings.
- **PHONE Mode (Mobile Phone Sound Dongle):** Set the switch to 'PHONE'. Connect the BTR13 to your mobile phone via the USB-C cable. It will function as a USB DAC audio dongle, powered by its internal battery.

4.4 Headphone Connection

The BTR13 offers both unbalanced and balanced headphone outputs:

- **3.5mm Unbalanced Output:** For standard headphones.
- **4.4mm Balanced Output:** For headphones with a balanced connection, offering enhanced audio performance.

5. OPERATING INSTRUCTIONS

5.1 Basic Controls

The BTR13 features physical buttons for various functions:

- **Volume Control:** Use the dedicated volume buttons (+/-) on the side of the device.
- **Play/Pause:** Typically controlled via the multi-function button or in-line controls on your headphones.
- **Track Navigation:** Skip tracks forward/backward using the multi-function button (refer to Quick Start Guide for specific presses).

All-around in-line controls Total control at your fingertips

The 3.5mm jack supports the CTIA standard of in-line controls. Not only can you use the microphone on your headphones, you can also play/pause/adjust the volume using the controls on your headphones' cable.



Image: All-around in-line controls for total control at your fingertips.

5.2 EQ and Sound Customization

The FiiO BTR13 allows for extensive sound customization:

- **FiiO Control App:** Download the FiiO Control app (available for Android and iOS) to access advanced settings,

including detailed EQ adjustments, preset sound effects, and online EQ sharing.

- **Web Interface:** Some advanced settings may also be accessible via a web interface when connected to a computer (refer to FiiO's official website for details).



Global PEQ

Use it well to make it sound well

Thanks to FiiO's self-developed adjustment algorithm, get access to a high-quality PEQ easily adjustable through the app or the web*!



Adjust the sound to suit your tastes



Use FiiO presets or custom adjustments uploaded online



One-click import of adjustments suited to headphones from various major brands

Image: Global PEQ settings accessible via app or web.

5.3 Car Mode

The BTR13 features a patented car mode for seamless integration with vehicle audio systems. When connected to a car's USB port, the BTR13 can automatically power on/off with the car's ignition, providing convenient audio playback.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the BTR13 in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** To prolong battery life, avoid fully discharging the device frequently. Charge it regularly, even if not in use for extended periods.

- **Firmware Updates:** Periodically check FiiO's official website or the FiiO Control app for available firmware updates to ensure optimal performance and access to new features.

7. TROUBLESHOOTING

If you encounter issues with your FiiO BTR13, please refer to the following common troubleshooting steps:

- **No Sound:**
 - Ensure the BTR13 is powered on and charged.
 - Check headphone connections (3.5mm or 4.4mm).
 - Verify the volume level on both the BTR13 and the connected source device.
 - Confirm the correct mode is selected (PC/BT/PHONE switch).
- **Bluetooth Connection Issues:**
 - Ensure the BTR13 is in BT mode and pairing mode.
 - Delete the BTR13 from your source device's Bluetooth list and attempt to re-pair.
 - Move the BTR13 closer to the source device to reduce interference.
 - Restart both the BTR13 and the source device.
- **Device Not Recognized by PC/Phone:**
 - Ensure the BTR13 is in PC or PHONE mode.
 - Try a different USB-C cable.
 - Connect to a different USB port on your computer or try another phone.
- **Short Battery Life:**
 - Ensure the device is fully charged.
 - High volume levels or demanding codecs (like LDAC) can consume more power.
 - If the issue persists, contact FiiO support.

8. SPECIFICATIONS

Feature	Specification
Model Name	BTR13
Brand	FiiO
Connectivity Technology	Wireless (Bluetooth), USB
Wireless Communication Technology	Bluetooth 5.1
Supported Bluetooth Codecs	LDAC, aptX, aptX LL, aptX Adaptive, aptX HD, AAC, SBC
DAC Chip	Dual Cirrus Logic CS43131
Headphones Jack	3.5 mm Unbalanced, 4.4 mm Balanced
Balanced Output Power	220mW + 220mW
Sampling Rate (Max)	96kHz (Bluetooth/USB DAC)

Frequency Range	20 Hz - 20,000 Hz
Impedance	150 Ohm
Charging Time	2 Hours
Item Weight	28.6g (approx. 1 oz)
Material	Plastic
Display	0.96-inch Color IPS

9. WARRANTY AND SUPPORT

FiiO products come with a limited warranty. Please refer to the included Warranty Card for specific terms and conditions regarding your FiiO BTR13. For technical support, troubleshooting assistance, or warranty claims, please visit the official FiiO website or contact their customer service directly.

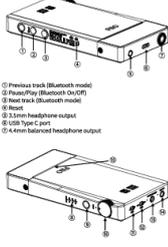
FiiO Official Website: www.fiiio.com

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Related Documents - BTR13

	<p>FiiO BTR3K Quick Start Guide: Bluetooth Headphone Amplifier</p> <p>Get started with your FiiO BTR3K portable high-fidelity Bluetooth amplifier. This guide covers setup, operations, indicator lights, and precautions for seamless audio experiences.</p>
	<p>FiiO K9 Desktop DAC and Amplifier Quick Start Guide</p> <p>Concise guide to setting up and using the FiiO K9 flagship desktop DAC and amplifier, covering connections, controls, and specifications for optimal audio performance.</p>
<p>FiiO K15 complete User manual</p> 	<p>FiiO K15 Complete User Manual: Features, Operation, and Specifications</p> <p>Comprehensive user manual for the FiiO K15 decoding headphone amplifier. Learn about its features, operation modes, connectivity, PEQ functions, firmware updates, and protection mechanisms.</p>
	<p>FiiO BTR5 Quick Start Guide: Portable Bluetooth Headphone Amplifier</p> <p>A comprehensive quick start guide for the FiiO BTR5 portable high-fidelity Bluetooth headphone amplifier, detailing button operations, menu functions, computer connectivity, and important precautions.</p>
	<p>FiiO BTR15 Bluetooth DAC and Headphone Amplifier User Manual</p> <p>Comprehensive user guide for the FiiO BTR15 portable Bluetooth DAC and headphone amplifier, covering setup, operation, features, specifications, and compliance information.</p>

Buttons and ports labeled
(The Q5s is equipped with the amp module AK52-Type C. For extra needs of other amp modules, please consult local sales agent!)



- ① Previous track (Bluetooth model)
- ② Play/Pause (Bluetooth model)
- ③ Next track (Bluetooth model)
- ④ Power
- ⑤ 3.5mm headphone output
- ⑥ USB Type-C port
- ⑦ 4.4mm balanced headphone output

FiiO Q5s-TC Portable DAC and Headphone Amplifier Quick Start Guide

A comprehensive guide to the FiiO Q5s-TC portable DAC and headphone amplifier, covering button and port identification, operation, input selection, Bluetooth connectivity, USB DAC functionality, firmware updates, and precautions.

Documents - FiiO – BTR13

PEQ Settings Instructions for FiiO Portable DAC/AMP

1. The FiiO Products with PEQ support

FiiO products that support wired PEQ settings include:
 KA17, KA15, JA11, BTR11, BTR17, BTR15, K15, K17, Q1, Q15

FiiO products that support web control (<https://fiiicontrol.fii.com/>) PEQ settings include:
 KA17, KA15, JA11, BTR11, BTR17, K15

FiiO products that support DSP/least PEQ settings include:
 K15, K17

FiiO Products that support Bluetooth PEQ settings include:
 U1WS5, Z025, Q1, Q15, BTR11, BTR15, BTR17, F1A5, F1A1, U1A5S, K6, K5AKM, K5Ph, K5Ph, K5, K7, K15, K17, B17

FiiO products supporting PEQ—whether Bluetooth or wired—can be adjusted via the FiiO Control app. The web-based interface currently only supports some newer models, with more to be added later. UI interfaces may vary slightly.

[FiiO Portable DAC/AMP PEQ Settings Guide](#)

Comprehensive guide to setting up and using the Parametric Equalizer (PEQ) on FiiO portable DAC/AMP devices, including instructions for the FiiO Control app and web control.

lang:en score:43 filesize: 1.29 M page_count: 11 document date: 2025-07-29



[FiiO BTR13 Quick Start Guide](#)

A concise guide to setting up and using the FiiO BTR13 Bluetooth amplifier, including connection instructions, button functions, and troubleshooting.

lang:en score:39 filesize: 2.17 M page_count: 1 document date: 2024-08-22