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## FiiO E10K

# FiiO E10K-TC Portable USB DAC Headphone Amplifier User Manual

Model: E10K-TC

## 1. INTRODUCTION

The FiiO E10K-TC is a high-resolution portable USB Digital-to-Analog Converter (DAC) and headphone amplifier designed to enhance the audio output quality of your computer or other compatible devices. It features a robust design and versatile connectivity options for an improved listening experience.



Figure 1: FiiO E10K-TC Portable USB DAC Headphone Amplifier

## 2. FEATURES

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- **High-Resolution Audio:** Supports PCM files up to 24-bit/96 kHz resolution.
- **DAC Chip:** Utilizes the PCM5102 DAC chip for improved audio quality.
- **Low Noise Floor:** Optimized low-pass filter and selectable bass boost circuit designed for minimal noise.
- **Amplification Stage:** Features an LMH6643 op amp for transient response and driving power.
- **Connectivity:** Includes 1/8" headphone jack, 1/8" line output, coaxial digital output, and Micro USB input.
- **Controls:** Volume control, selectable bass boost, and high/low gain switch.
- **Durable Design:** Brushed aluminum shell and chassis for portable use.

## 3. PRODUCT OVERVIEW AND CONTROLS

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### Front Panel



Figure 2: Front Panel of FiiO E10K-TC

1. **Headphone Output (3.5mm):** Connect your headphones here.
2. **Bass Boost Switch:** Toggle to enable or disable bass enhancement.

3. **Volume Knob:** Rotate to adjust the output volume. Pushing the knob in also serves as the power on/off switch.

## Rear Panel



Figure 3: Rear Panel of FiiO E10K-TC

1. **Micro USB Input:** Connect to your computer for data and power.
2. **Coaxial Digital Output:** For connecting to an external DAC or amplifier with coaxial input.
3. **Gain Switch (H/L):** Selects high or low gain for different headphone impedances.
4. **Line Out (3.5mm):** For connecting to an external amplifier or active speakers.

## 4. SETUP

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### 4.1 Connecting to a Computer

1. Connect the FiiO E10K-TC to your computer using the provided Micro USB cable. The device will draw power directly from the USB port.
2. Your computer should automatically detect the device and install the necessary drivers. For Windows 10, it is recommended to use the default drivers installed by the operating system rather than FiiO's ASIO drivers to avoid potential system instability.

3. Once recognized, select the FiiO E10K-TC as your audio output device in your computer's sound settings.



Figure 4: FiiO E10K-TC connected to a laptop via USB

## 4.2 Connecting Headphones or Speakers

1. For headphones, plug your 3.5mm headphone jack into the headphone output port on the front panel.
2. For external speakers or an amplifier, connect a 3.5mm audio cable from the 'Line Out' port on the rear panel to the input of your speakers/amplifier. Alternatively, use the 'Coaxial Out' for digital connection to a compatible device.

# Portable and convenient to carry out

Listening HiFi music at home on your desk



Figure 5: FiiO E10K-TC connected to external speakers

## 5. OPERATING INSTRUCTIONS

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### 5.1 Power On/Off

The FiiO E10K-TC powers on automatically when connected to a powered USB port. To turn it off, disconnect the USB cable. The volume knob also functions as an on/off switch by rotating it fully counter-clockwise until it clicks.

### 5.2 Adjusting Volume

Rotate the large knob on the front panel clockwise to increase volume and counter-clockwise to decrease it. Adjust to a comfortable listening level.

### 5.3 Using Bass Boost

The 'BASS' switch on the front panel allows you to enable or disable bass enhancement. Toggle the switch to 'ON' for increased bass response or 'OFF' for a flatter, more neutral sound profile.

### 5.4 Selecting Gain

The 'GAIN' switch on the rear panel allows you to select between high (H) and low (L) gain settings. Use the 'L' (low) setting for sensitive headphones or when high volume is not required. Switch to 'H' (high) gain

for less sensitive headphones or when more power is needed to drive them effectively.



Figure 6: Front panel with Volume and Bass Boost controls

## 6. MAINTENANCE

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- Keep the device clean by wiping it with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- Protect the device from extreme temperatures, direct sunlight, and moisture.
- Avoid dropping or subjecting the device to strong impacts.
- Ensure all cables are connected securely but do not force them.

## 7. TROUBLESHOOTING

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### 7.1 No Sound Output

- Check if the FiiO E10K-TC is properly connected to your computer via USB and receiving power.
- Ensure the E10K-TC is selected as the default audio output device in your computer's sound settings.
- Verify that the volume knob on the E10K-TC is turned up and not at its minimum setting.

- Confirm that your headphones or speakers are correctly plugged into the appropriate output port and are functioning correctly.

## 7.2 Distorted Sound

- Reduce the volume on both your computer and the E10K-TC. Distortion can occur if the signal is too strong.
- Check the gain setting. If using sensitive headphones, switch to 'L' (low) gain.
- Ensure the audio source file is not corrupted or of low quality.
- Try using a different USB port or cable to rule out interference.

## 7.3 Connectivity Issues (Windows 10)

- If experiencing Blue Screen of Death (BSOD) or other instability, especially when disconnecting the device, ensure you are using the default Windows drivers. FiiO's ASIO drivers may cause issues with Windows 10.
- If you previously installed FiiO ASIO drivers, uninstall them and allow Windows to automatically install its native drivers.

## 8. SPECIFICATIONS

Feature	Specification
Brand	FiiO
Model Number	E10K
DAC Chip	PCM5102
Max Sample Rate	24-bit/96 kHz (PCM)
Output Amplitude	200 mW (32 $\Omega$ / THD + N <1%)
Volume Control	ALPS potentiometer
Gain	1.6 dB (GAIN = L), 8.8 dB (GAIN = H)
Maximum Output Voltage	7.39 Vp-p
Headphone Impedance Range	16~150 $\Omega$
Interface Type	Micro USB, Coaxial, 3.5mm Line Out, 3.5mm Headphone Out
Material	Metal
Product Dimensions	0.83 x 1.93 x 3.11 inches
Item Weight	2.72 ounces

## 9. WARRANTY AND SUPPORT

FiiO products typically come with a limited warranty. For specific warranty terms, duration, and support, please refer to the warranty card included with your product or visit the official FiiO website. You can also contact FiiO customer service for technical assistance or product inquiries.

Official FiiO Website: [www.fiiocom](http://www.fiiocom)

