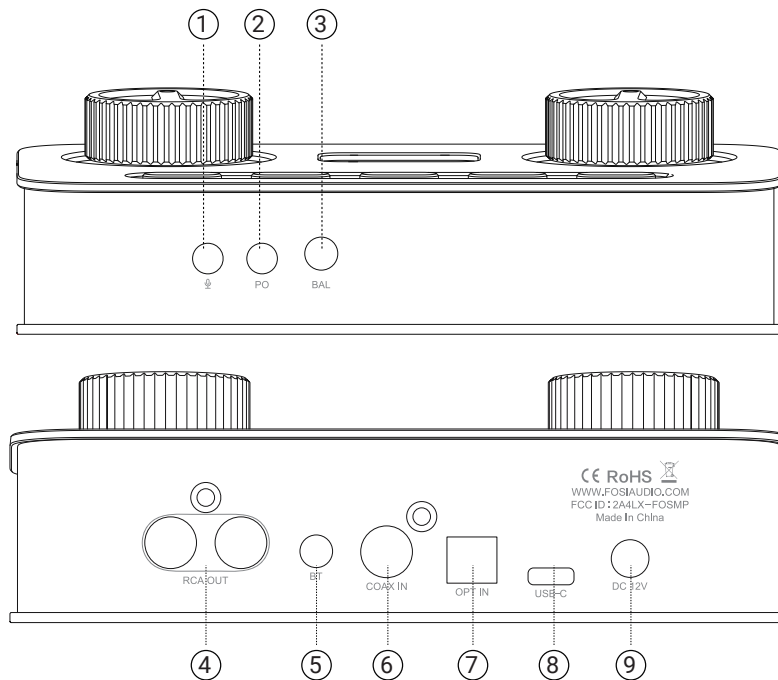


## K7 User Manual

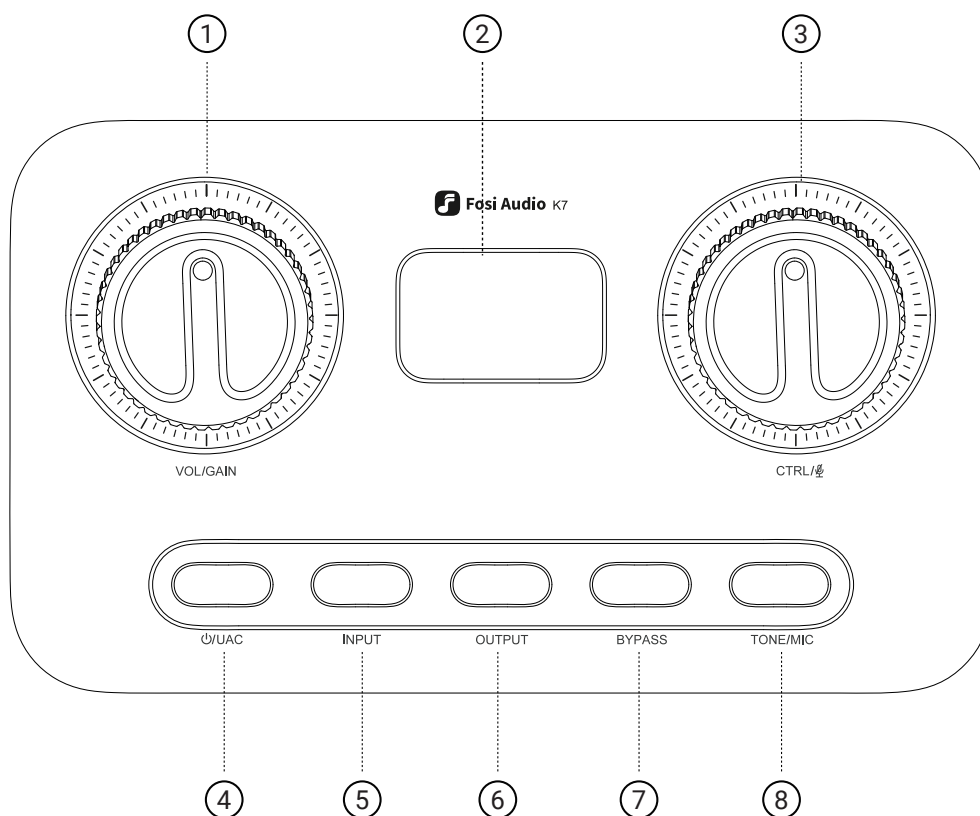
# Introduction

Thank you for purchasing Fosi Audio K7 Desktop Gaming DAC/Headphone Amplifier.

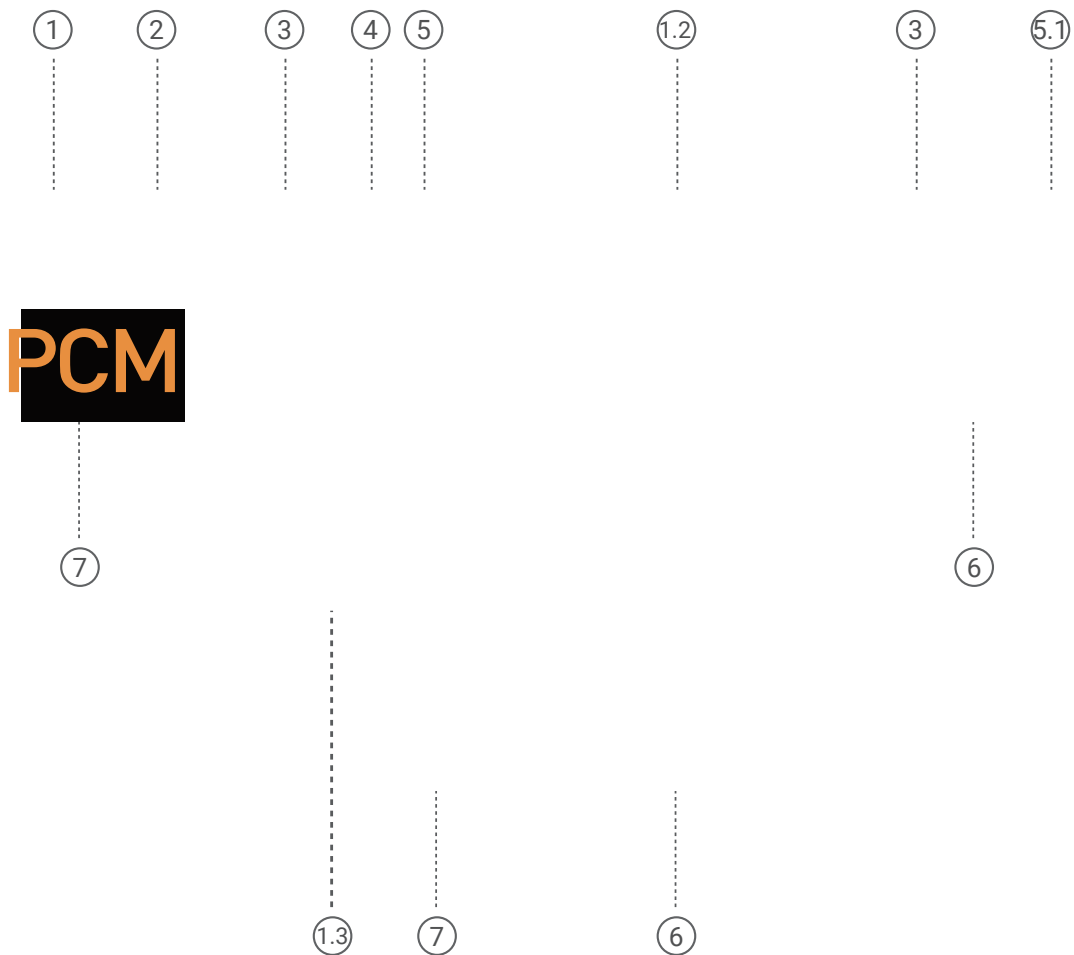
The K7 stands out as our inaugural venture into high-performance audio devices for gaming after deep understanding of user needs. Offering both wired and wireless connections, it provides minimal latency and superior audio quality, enhancing your gaming, music, and multimedia experiences. Compatible with devices such as PS4, PS5, Switch, PC, Mac, tablets, and TVs, the K7 boasts a sleek, compact design coupled with advanced proprietary technologies. It is set to transform your audio experience across various applications. Thanks again for your trust in Fosi Audio as we continue to deliver exceptional audio solutions for all users.



- ① 3.5mm Microphone Input
- ② 3.5mm Single-Ended Headphone Input  
(cannot be used for calls with only 4-pole headphones)
- ③ 4.4mm Balanced Headphone Input
- ④ RCA Output
- ⑤ Bluetooth Antenna Connector  
(install the included antenna to enhance the Bluetooth signal)
- ⑥ Coaxial Input
- ⑦ Optical Input
- ⑧ USB-C Input
- ⑨ DC 12V Power Input



- ① Volume Control Knob/Gain Switch:  
Rotate to adjust volume; Short press to switch between high/low gain modes (valid when using headphone output only).
- ② OLED Display
- ③ Bass/Treble/Microphone Volume Control:  
Rotate to adjust the gain; Short Press to turn on/off of the microphone (valid when using UAC1.0 mode only).
- ④ Power On/Off Button:  
Short Press to turn on and long press for 1.5 seconds to turn off;  
When the device is on, short press to switch between UAC1.0 and 2.0 (valid when using USB input only).
- ⑤ Input Mode Selector                      ⑥ Output Mode Selector
- ⑦ Bypass Toggle: Short press to toggle between bypass(direct signal) and EQ.
- ⑧ TONE/MIC Button:  
Short press to switch among bass, treble and microphone volume control, and then fine tune via the CTRL knob.



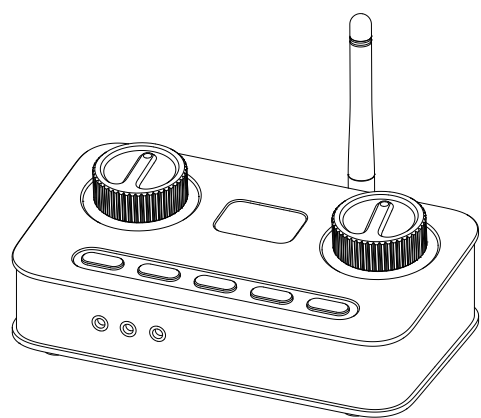
- ① MIC Volume Icon  
(Only available and displayed in UAC1.0 mode)
- ①.2 Treble Mode  
(Adjusts only the treble frequency range of music, does not affect calls)
- ①.3 Bass Mode  
(Adjusts only the bass frequency range of music, does not affect calls)
- ② Bypass Mode On/Off Indicator
- ③ UAC 1.0/UAC 2.0 Icon  
(Displayed only in USB input mode)
- ④ Microphone Mute Icon  
(Only available and displayed in UAC1.0 mode)
- ⑤ Headphone Output Mode Icon
- ⑤.1 RCA Line Output Mode Icon
- ⑥ Input Mode Icon
- ⑦ PCM/DSD/Sampling Rate/  
Bluetooth Codec Format Icon

# Specifications

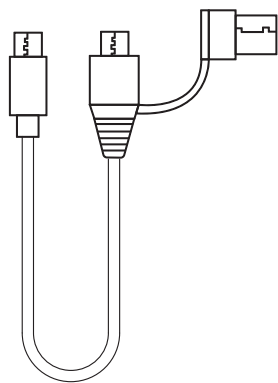
General Specs	
Chipset	XMOS XU208+AKM4493SEQ+ QCC 3031+ TPA6120
Maximum Sampling Rate	USB: PCM 384kHz-32bit/DSD256 Optical: PCM 24bit/192kHz Coaxial: PCM 24bit/192kHz Bluetooth: PCM 24bit/48kHz
Headphone Impedance	16-300Ω
Input	Coaxial, Optical, USB-C,Bluetooth, 3.5mm Microphone
Output	RCA, 3.5mm Single-Ended, 4.4mm Balanced
Firmware Upgrade	XMOS firmware can be updated via the Type-C interface
Bluetooth Version	5.0
Bluetooth Connection Distance	≤13m
Bluetooth Transmission Audio Format	SBC, AAC, aptX, aptX HD, aptX LL
Input Voltage and Current	DC 12V 2A
USB Compatible Devices	Windows 7, 8, 8.1, 10, 11 (Driver required) Mac OS X, Linux (No driver required)

Audio Parameters	
4.4mm Balanced Headphone Output	
Rated Power Output	$L+R \geq 2100\text{mW} + 2100\text{mW}$ ( $32\Omega / \text{THD+N} < 1\%$ )
SNR	121dB (A-Weighting)
THD+N	$< 0.0002\%$ (A-Weighting)
Dynamic Range	121dB
Noise Floor	$\leq 6.5\mu\text{V}$ (A-Weighting)
Frequency Response	20Hz-20KHz ( $\pm 0.2\text{dB}$ )
3.5mm Single-Ended Headphone Output	
Rated Power Output	$L + R \geq 600\text{mW} + 600\text{mW}$ ( $32\Omega / \text{THD+N} < 1\%$ )
SNR	122dB (A-Weighting)
THD+N	0.0005% (A-Weighting)
Dynamic Range	121dB
Noise Floor	$\leq 2.5\mu\text{V}$ (A-Weighting)
Frequency Response	20Hz - 20kHz ( $\pm 0.2\text{dB}$ )
RCA Output	
Output Level	$\geq 2\text{V}_{\text{rms}}$
SNR	121dB (A-Weighting)
THD+N	0.0005% (A-Weighting)
Dynamic Range	121dB
Noise Floor	$\leq 3\mu\text{V}$ (A-Weighting)
Frequency Response	20Hz - 20kHz ( $\pm 0.2\text{dB}$ )

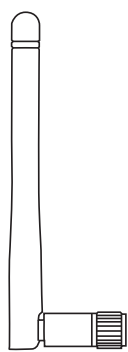
# Product Overview



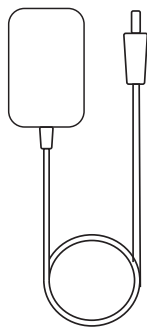
K7



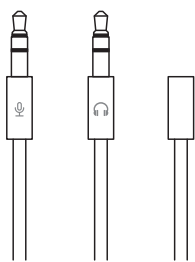
USB-A/C to USB-C Cable



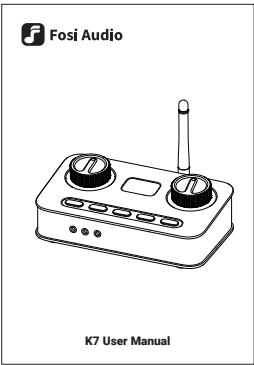
Bluetooth Antenna



12V Power Adapter



Y-splitter



User Manual

# Operation Guide

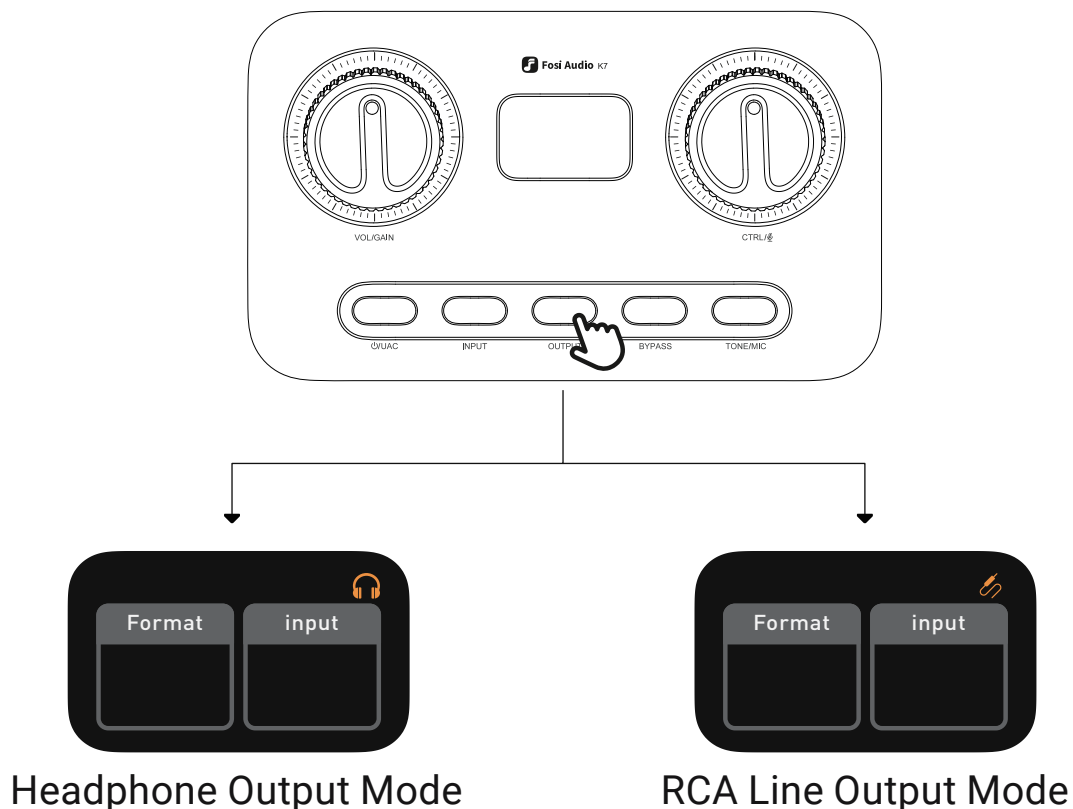
- Do not power on the device until all connections have been completed;
- Before playing music, ensure the volume is set to a low level to avoid potentially damaging the speakers/headphones or impacting your hearing with sudden loud sounds.

## Power On/Off Operations

1. Briefly press the power button to turn on the K7; the screen will display "Fosi Audio" for 2 seconds before proceeding to the main menu, which defaults to USB input mode;
2. While the K7 is on, press and hold the power button for 1.5 seconds to turn off the device; the screen will display "OFF" for 2 seconds before turning off.

## Output Mode Selection

The K7 supports headphone output and line output. Press the output button briefly to switch between output modes. In line output mode, active speakers can be connected via the RCA interface.



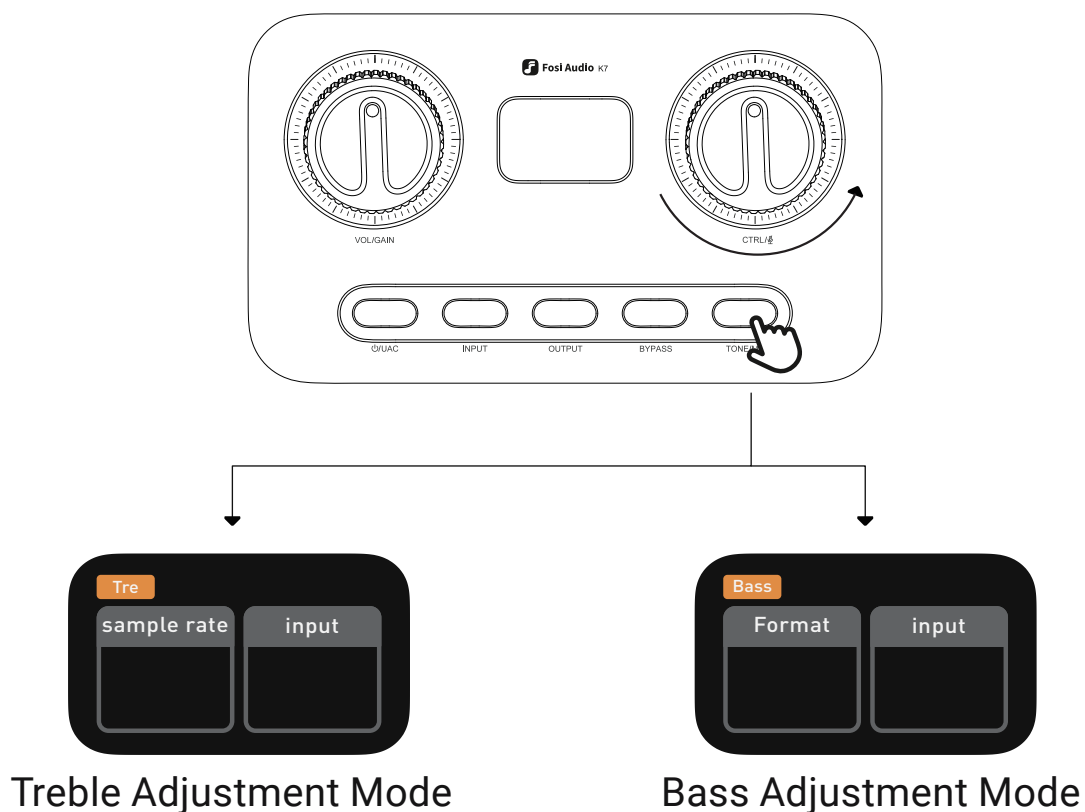


**Note:** It is not recommended to insert 3.5mm and 4.4mm headphones simultaneously.

1. This can cause the output signal of the 4.4mm headphones to be unbalanced;
2. Due to the significant difference in output power between 3.5mm and 4.4mm headphone outputs, failing to adjust the volume level may lead to excessively high volume, potentially causing hearing damage and discomfort.

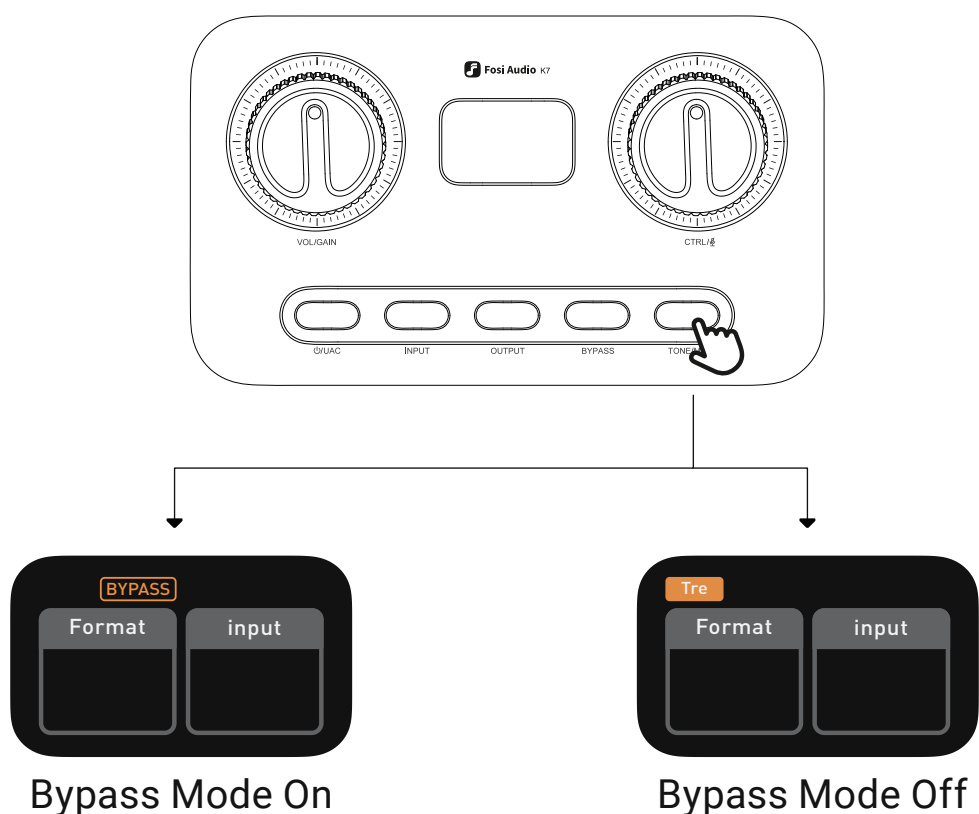
## EQ Mode

The K7 allows for bass, treble and microphone volume adjustments. Press the TONE/MIC button briefly to switch between modes you wish to adjust, then use the CTRL knob to fine tune the gain.



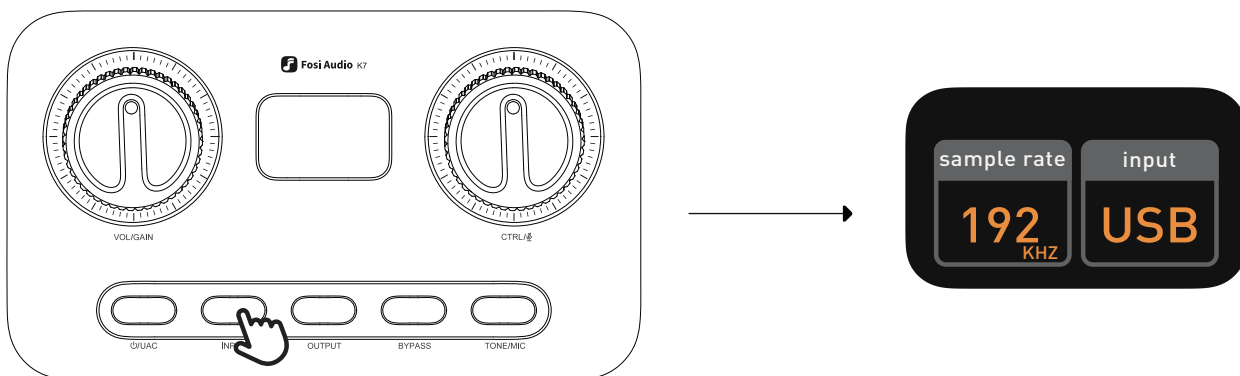
# Bypass Mode

When the Bypass mode is activated, it bypasses the internal EQ, including treble and bass adjustments, to preserve the original audio signal output. Press the Bypass button briefly to engage Bypass mode; the screen will display the corresponding indicator. Press again to deactivate Bypass mode.



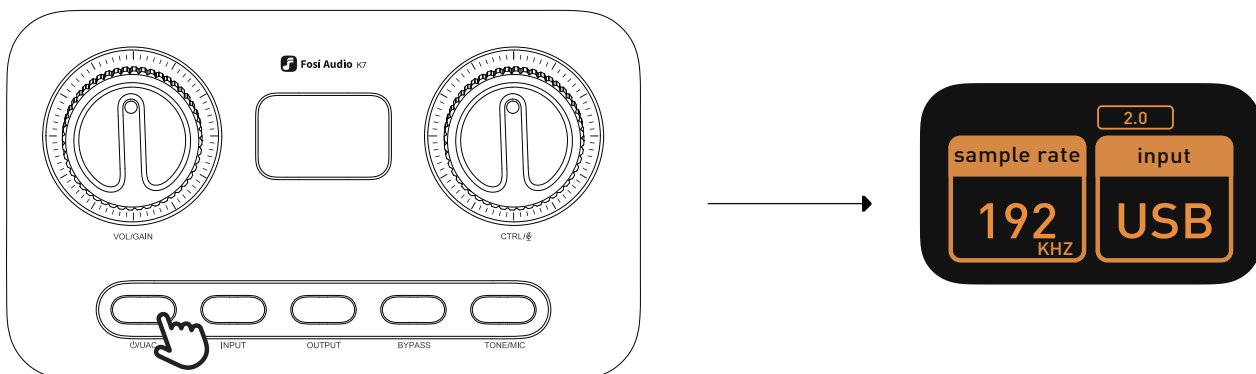
## USB Input Mode

1. Connect one end of the included USB cable to the K7 and the other end to the output device;
2. Briefly press the INPUT button to switch to USB input mode; the name of this mode will appear on the right side of the screen.



## UAC 2.0 Mode

While in USB input mode, you can briefly press the UAC button to switch to UAC 2.0 mode. The top of the screen will display a "2.0" icon indicating this mode. UAC 2.0 mode supports playback of high sample rate audio files up to PCM 384kHz-32bit/DSD256.



## **Important Notes:**

### **1. How to Use the K7 as a USB DAC for Your Computer?**

#### **[Windows]**

- ① The K7 supports plug-and-play on Windows 8/10/11 systems without the need for installing any drivers;
- ② Use the included USB-A to USB-C cable to connect the K7 to your computer;
- ③ Select "Fosi Audio K7" as the audio output on your computer.

#### **[Mac OS X]**

The Mac OS X also supports plug-and-play and does not require any driver installation. Simply connect it as described above and select the Fosi Audio K7 as the output device.

### **2. When using the K7 under the Windows system, drivers are required in the following situations:**

- ① The computer's operating system is Windows 7 or older versions;
- ② Playing DSD music files;

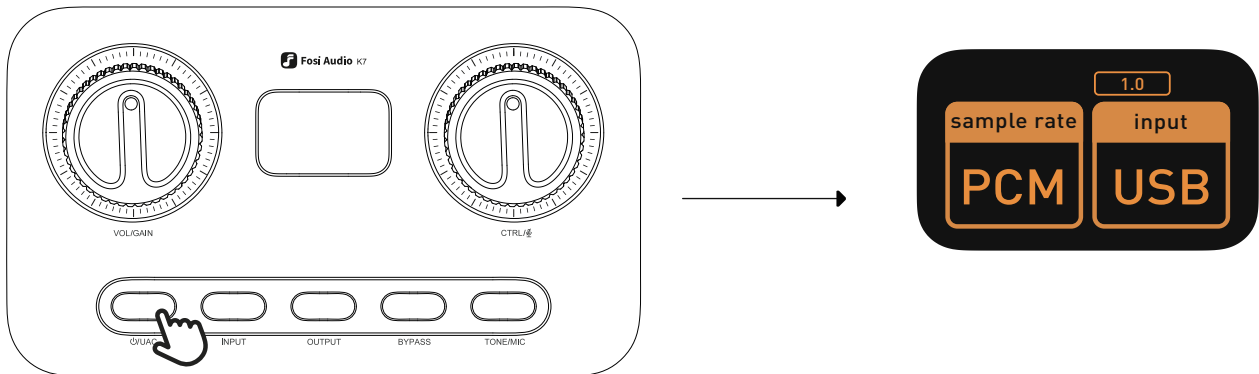
(Note: If you are using foobar2000 with the installed Wasapi plugin to play DSD music, you do not need to install additional drivers. You can visit our official website to download the Foobar Installation Guide.)

If you encounter the above issues/requirements, please contact Fosi Audio customer service or visit the official website to obtain the K7 DAC driver. Follow the provided instructions to install and enable USB DAC functionality.

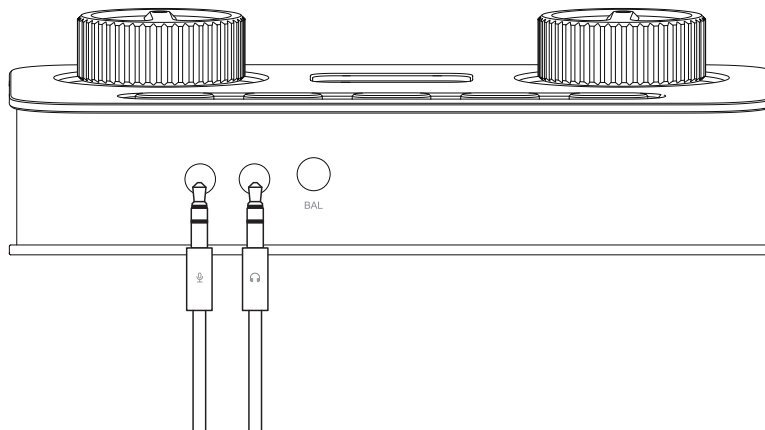
**3. To support DSD audio file playback, the K7 would lock the system volume (e.g. Mac, Windows, Android, iOS) at maximum, disabling the volume adjustment. Thus, volume control must be managed either through the K7 or the music player. However, due to compatibility differences across systems, it may still be possible to adjust the volume through the system when DSD audio files are not being played.**

## UAC 1.0 Mode

1. Press the UAC button briefly to switch to UAC 1.0 mode, which is indicated by a "1.0" icon displayed at the top of the screen. This mode supports microphone communication with a fixed output sample rate of PCM 48kHz-16bit and is compatible with gaming devices like the PS5 and Switch;



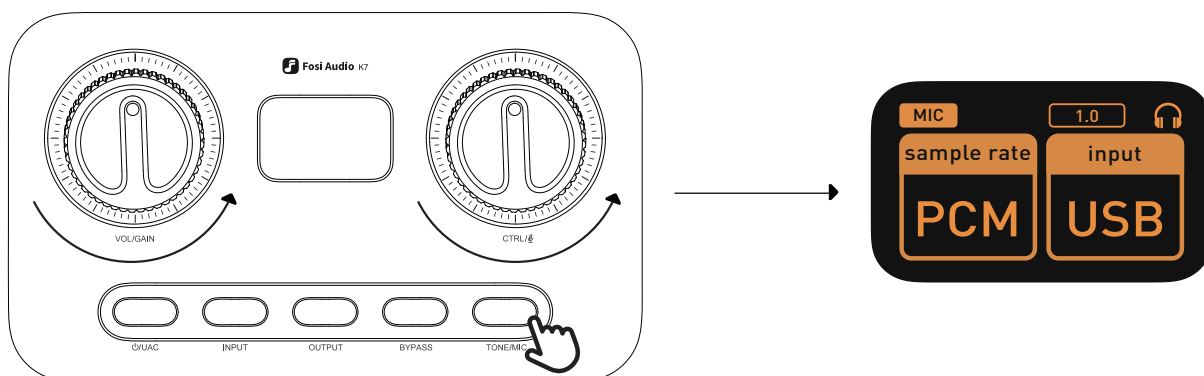
2. Use the provided 2-in-1 audio cable to connect to the K7's microphone input and 3.5mm headphone jack according to the icons printed on the connectors, allowing simultaneous talk and music listening;



**Note:** The headphones must have a mic for pickup; the K7 only handles the transmission of the communication signal.

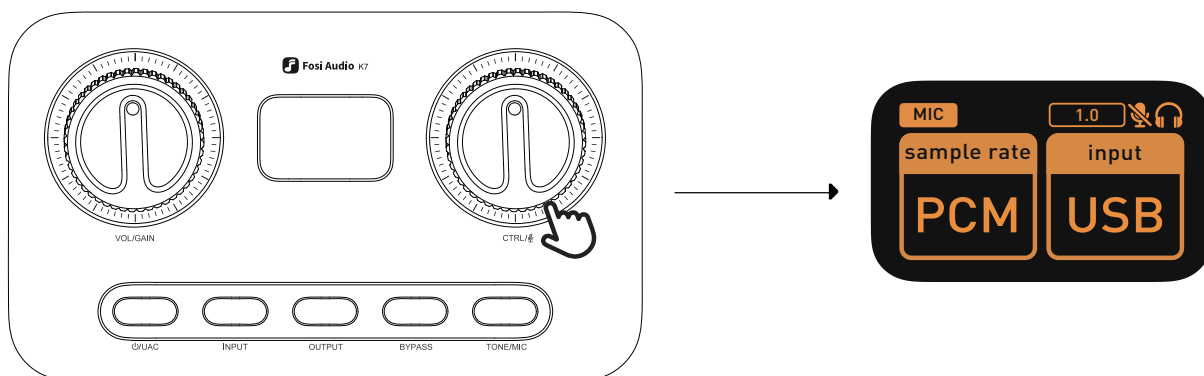
## Microphone Volume Adjustment

1. Press the "TONE/MIC" button briefly to switch to MIC mode, indicated by a MIC icon at the top left corner of the screen;
2. In this mode, use the "CTRL" knob to adjust the microphone input volume, which affects how loudly others can hear you;
3. Turn the main volume knob to adjust the volume of the microphone audio you receive, controlling the loudness of the voice from your conversation partner.



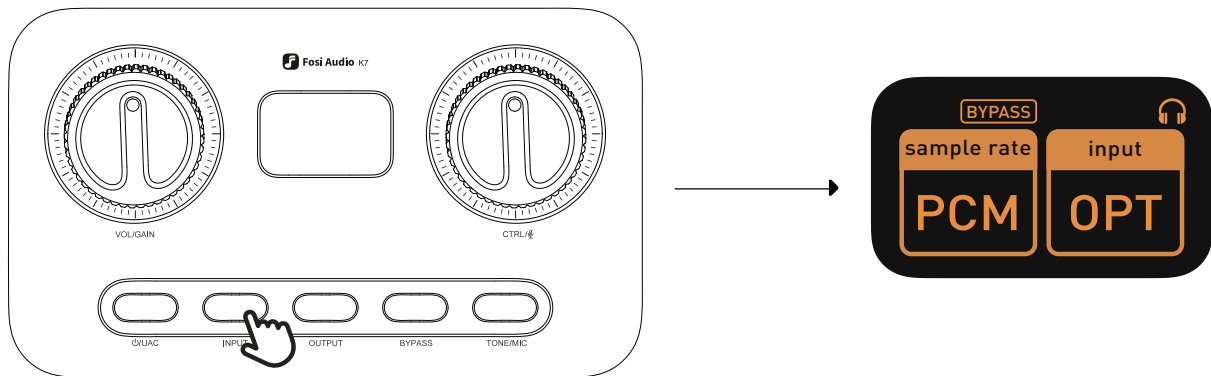
## Mute/Unmute

The K7 supports one-touch mute. Briefly press the “CTRL/μ” button to activate this feature. A mute icon will appear on the screen, quickly silencing the audio. Press again to deactivate mute and resume audio.



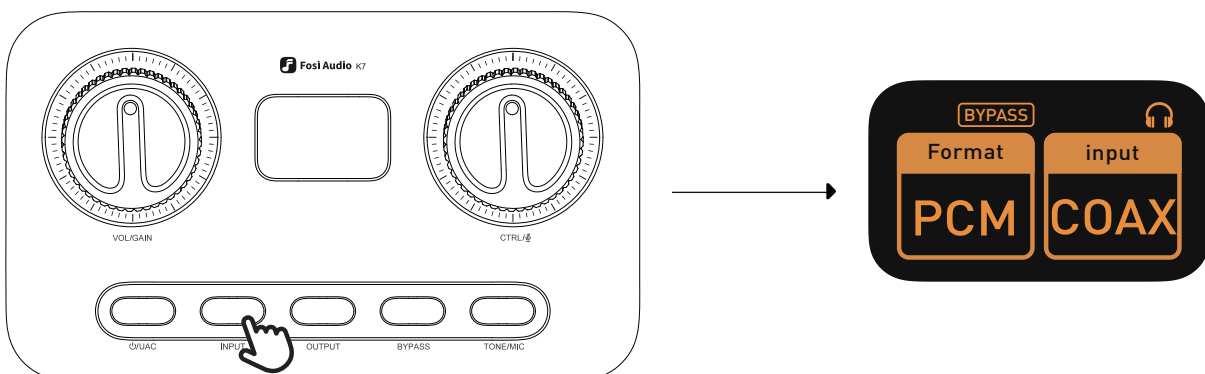
## Optical Input Mode

1. Connect one end of the optical cable to the K7 and the other end to your output device;
2. Briefly press the INPUT button to switch to Optical (OPT) input mode. The screen will display the mode name on the right side.



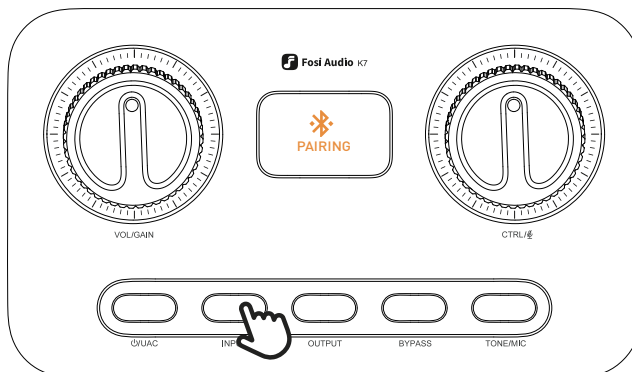
## Coaxial Input Mode

1. Connect one end of the coaxial cable to the K7 and the other end to your output device;
2. Briefly press the INPUT button to switch to Coaxial (COAX) input mode. The mode name will appear on the right side of the screen.

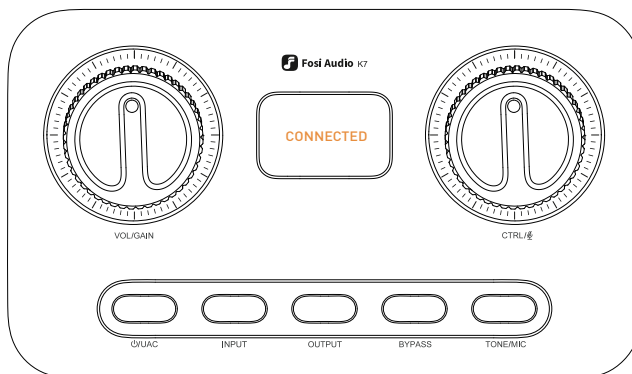


# Bluetooth Input Mode

1. Briefly Press the INPUT button to switch to Bluetooth input mode. The screen will display 'PAIRING,' indicating that the K7 is in Bluetooth pairing mode;



2. Open the Bluetooth settings on your phone, computer, or other devices, and connect to the device named "Fosi Audio K7." Once paired successfully, the screen will display "CONNECTED;"



3. While in Bluetooth mode, press and hold the INPUT button for 3 seconds to clear the Bluetooth pairing history and re-enter pairing mode.



# Frequently Asked Questions

## 1. System setup complete but no sound?

- A.** Ensure the K7 is powered on; check if the display on the front panel is lit. If the volume is too low, rotate the volume knob clockwise to increase it to an appropriate level.
- B.** Verify if the audio source is playing or muted; check your audio source device.
- C.** Check if you have chosen the desired input mode.
- D.** If there are issues with the audio cable connection or poor contact, recheck and secure all connections.

## 2. USB not recognized?

- A.** If the USB connection is improper or there is poor contact, replace the USB cable and reconnect.
- B.** If there is a fault with the computer, try connecting with a different computer.
- C.** If there is an issue with the computer's USB port, try using another USB port.
- D.** Ensure the K7 is set to USB input mode.

### **Note:**

For more detailed troubleshooting information regarding the K7, please visit the official website at [fosiaudio.com](https://fosiaudio.com).

If you have any further questions, please contact our support team at **[support@fosiaudio.com](mailto:support@fosiaudio.com)**.

# Warranty and Maintenance

Fosi Audio pledges to give a 24-month limited warranty and support from the date of purchase. If you encounter any problem when using our product, please contact our support team at [support@fosiaudio.com](mailto:support@fosiaudio.com).

## About Us

Fosi Audio designs and builds innovative audio products with all your music in mind. Great sound, simple but elegant designs, high-quality components, and truly useful features are what Fosi Audio pursues. We sincerely hope you can get as much enjoyment from our products as we've had to create them!

**Our Website:** [www.fosiaudio.com](http://www.fosiaudio.com)

**Amazon Store:** [www.amazon.com/fosiaudio](http://www.amazon.com/fosiaudio)

**Facebook Page:** [www.facebook.com/fosiaudioglobal](http://www.facebook.com/fosiaudioglobal)

**Youtube Channel:** [www.youtube.com/@fosiaudio](http://www.youtube.com/@fosiaudio)

**Official Forum:** <https://community.fosiaudio.com>

**Whatsapp:** +86 13716612254

**After-Sales Service and Technical Support Email:**  
[support@fosiaudio.com](mailto:support@fosiaudio.com)

**Get Online Support**