FX-Audio FX03

FX-Audio FX03 USB C DAC Digital to Analog Audio Converter User Manual

Model: FX03

1. PRODUCT OVERVIEW

The FX-Audio FX03 is a compact and portable USB C Digital to Analog Converter (DAC) designed to enhance audio quality from various digital sources. It accepts a digital audio signal via its USB-C input and converts it into an analog signal for output through RCA connectors, suitable for connection to amplifiers or active speakers. The device supports high-resolution audio formats including PCM up to 32-bit/384kHz and DSD256 DoP.

Image 1.1: Rear view of the FX-Audio FX03 DAC, illustrating the USB IN (Type-C) port and the RCA LINE OUT (Red for Right, White for Left) ports for audio connection.

Image 1.2: The FX-Audio FX03 DAC shown held in a hand, highlighting its small and portable design.

2. PACKAGE CONTENTS

- FX-Audio FX03 USB C DAC Unit
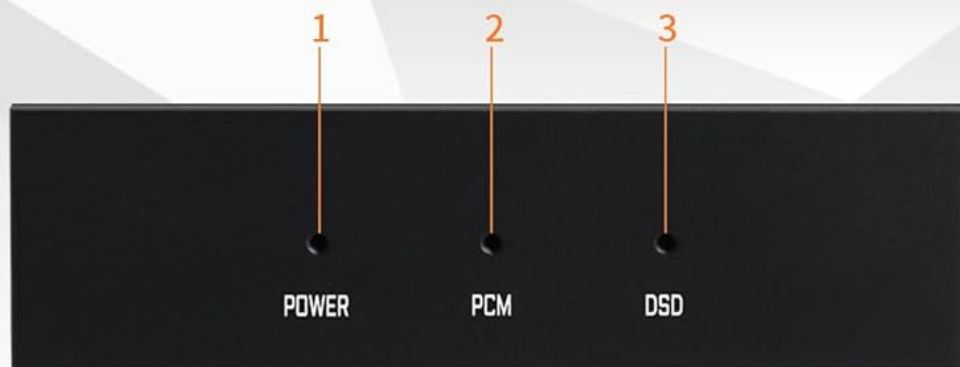- USB-C to USB-A Cable
- User Manual (this document)

3. SETUP INSTRUCTIONS

Follow these steps to connect and begin using your FX-Audio FX03 DAC:

1. **Connect Digital Source:** Use the provided USB-C cable to connect the FX03's USB IN port to your digital audio source (e.g., mobile phone, tablet, laptop, desktop computer, game machine).
   Note: For Android and Windows 10 systems, the device is typically plug-and-play. Other Windows versions may require driver installation from the official FX-Audio website. For iOS devices, a Lightning to Type-C OTG data cable (not included) is required.

2. **Connect Analog Output:** Connect the RCA LINE OUT ports (Red for Right channel, White for Left channel) on the FX03 to the corresponding analog input ports on your amplifier or active speakers.

3. **Power On:** The FX03 is powered via the USB-C connection. Ensure your digital source provides sufficient power. The power indicator light on the front panel will illuminate.

4. **Select Audio Output:** On your digital source device, select the FX-Audio FX03 as the audio output device.
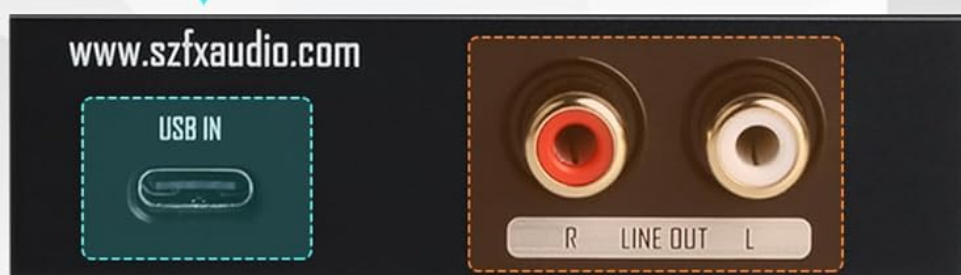
Panel

www.szfxaudio.com
USB IN
R LINE OUT L

POWER   PCM   DSD

1 Power indicator
2 PCM indicator, light on when PCM decoding status
3 DSD indicator, light on when DSD decoding status

Mobile phones/tablets/laptops/MACs/desktop computers

Type-c input

www.szfxaudio.com
USB IN
R LINE OUT L

RCA input

power amplifier + active speaker

Image 3.1: Connection diagram for the FX-Audio FX03, showing Type-C input from various devices and RCA output to an amplifier and active speakers. The front panel indicators (Power, PCM, DSD) are also labeled.

4. OPERATING INSTRUCTIONS

The FX-Audio FX03 operates automatically once connected and powered. There are no manual controls on the device itself.

- **Indicator Lights:** The front panel features RGB indicator lights to show the current status:
    - **POWER:** Illuminates when the device is powered on.
    - **PCM:** Illuminates when PCM audio is being decoded.
    - **DSD:** Illuminates when DSD audio is being decoded.
- **Audio Playback:** Begin playing audio from your connected digital source. The FX03 will automatically detect the audio format and decode it.

5. MAINTENANCE

To ensure optimal performance and longevity of your FX-Audio FX03 DAC, observe the following maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or abrasive materials.
- **Ventilation:** Although compact, the device can generate some heat during operation. Ensure it is placed in a location with adequate airflow to prevent overheating. Do not cover ventilation openings.
- **Connections:** Periodically check all cable connections to ensure they are secure. The gold-plated interfaces are designed for reliable transmission, but loose connections can affect audio quality.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your FX-Audio FX03, refer to the following common problems and solutions:

- **No Sound Output:**
    - Ensure all cables (USB-C input, RCA output) are securely connected.
    - Verify the FX03 is selected as the audio output device on your computer or mobile device.
    - Check the volume levels on both your source device and your amplifier/active speakers.
    - Confirm the POWER indicator light on the FX03 is illuminated. If not, check the USB-C power source.
- **Distorted or Poor Audio Quality:**
    - Ensure you are using a high-quality USB-C cable. Some cables may cause instability.
    - Check for driver updates for your operating system, especially for Windows versions older than Windows 10.
    - Reduce the volume on the source device if the input signal is too strong, causing clipping.
- **Device Not Recognized by Computer:**
    - Try connecting the FX03 to a different USB port on your computer.
    - Restart your computer and reconnect the device.
    - Install necessary drivers if your operating system is not Windows 10 or Android.
- **No DSD or High-Resolution PCM Playback:**

- Ensure your audio playback software supports DSD or high-resolution PCM and is configured correctly.
- Verify the DSD or PCM indicator light on the FX03 illuminates when playing the respective format.

7. Specifications

Detailed technical specifications for the FX-Audio FX03 DAC:

Product

Image 7.1: Parametric dimensions of the FX-Audio FX03 and a table detailing its product parameters.
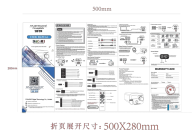
Parameter	Value
Brand	FX-AUDIO-

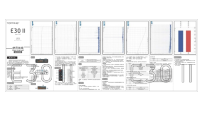| Model	FX03
Chipset	ESS9028Q2M/SA9137L
DC Power Supply	DC5V (USB Powered)
Inputs	Type-C USB
Outputs	RCA Line Out
THD+N	0.005%
SNR	110dB@A-wt
Frequency Response	10Hz-30KHz
Output Level	2.5Vrms
Supported Formats	DSD 64, 128, 256; PCM 32Bit/44.1KHz-384KHz
Dimensions (L x W x H)	75mm x 60mm x 23mm (2.95 x 2.36 x 0.91 inches)
Weight	132g (5.3 ounces)

8. WARRANTY AND SUPPORT

The FX-Audio FX03 comes with a warranty period of more than one year, covering repair and shipping costs for quality-related issues. For any questions, technical assistance, or warranty claims, please contact the seller or manufacturer directly through the platform where the product was purchased. Support is available to assist with product inquiries and troubleshooting.

Related Documents - FX03

[FXAUDIO DAC-M1 User Manual: Digital Audio Converter Guide](#)
Comprehensive user manual for the FXAUDIO DAC-M1 digital-to-analog converter, detailing setup, operation, and specifications for enhanced audio performance.

[FX-AUDIO TUBE-03 Tube Preamplifier Operating Manual](#)
User manual for the FX-AUDIO TUBE-03 tube preamplifier, detailing its features, connections, technical specifications, and warranty information.

[FX-Audio PH-A3 User Manual and Specifications](#)
This document provides a user manual, specifications, and warranty information for the FX-Audio PH-A3 HiFi Vacuum Tube Headphone Amplifier.

	[Khadas Tea Quickstart Guide: Portable Headphone Amplifier & DAC](#) Concise guide to the Khadas Tea portable DAC and Bluetooth headphone amplifier, covering interface, functions, pairing, charging, and FAQs. Learn how to use your Khadas Tea.
	[Pro-Ject DAC Box RS2 User Manual - High-Fidelity Digital-to-Analog Converter](#) Comprehensive user manual for the Pro-Ject DAC Box RS2, detailing setup, operation, features, technical specifications, and safety instructions for this high-fidelity digital-to-analog converter.
	[Topping E30 II DAC User Manual and Specifications](#) Comprehensive user manual and technical specifications for the Topping E30 II HiFi DAC, detailing its features, operation, and performance for USB, Coaxial, and Optical inputs.