

**Professional USB &  
RCA Audio Interface  
User Manual**

## Preface

The purpose of this section is to ensure that the user is able to use the product correctly through this manual in order to avoid danger in operation or property damage. Before using this product, please read the product manual carefully and keep it for future reference.

### Outlined

This manual applies to Professional USB & RCA Audio Interface.

This manual describes the functions and use of the various functional modules of the Professional USB & RCA Audio Interface, and guides you through the installation and commissioning of the Professional USB & RCA Audio Interface.

### Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 <b>Note</b>	Provides additional information to emphasize or supplement important points of the main text.
 <b>Caution</b>	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 <b>Danger</b>	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

### Safety Instructions

#### **Danger**

To ensure reliable use of the equipment and the safety of personnel, please observe the following during installation, use and maintenance:

- During the installation and use of the equipment, all electrical safety regulations of the country and the region of use must be strictly observed.
- Keep the working environment well ventilated so that the heat generated by the equipment during operation can be discharged in time to avoid damage to the equipment due to excessive temperature.
- Always unplug the unit's power adapter from the AC power outlet before: A. Removing or reinstalling any part of the equipment; B. Disconnecting or reconnecting any electrical plug or connection of the equipment. Do not operate with electricity.

- There are AC high-voltage parts in the equipment, non-professionals should not disassemble them without permission to avoid the risk of electric shock. Do not repair the equipment privately to avoid aggravating the damage.
- Do not spill any corrosive chemicals or liquids on or near the equipment.
- If the unit emits smoke, odour or noises, turn off the power immediately and unplug the power cord, and contact your dealer or service centre.
- If the appliance is not working properly, contact the shop where you purchased the appliance or the nearest service centre and do not disassemble or modify the appliance in any way. (We cannot be held responsible for problems caused by unapproved modifications or repairs).

**Caution**

- Do not drop objects on the equipment or vibrate the equipment vigorously, and keep the equipment away from locations with magnetic field interference. Avoid installing the equipment in a place where the surface vibrates or is susceptible to shock (neglecting this may damage the equipment).
- Do not use the equipment in high temperature, low temperature or high humidity environments. Refer to the equipment's data sheet for specific temperature and humidity requirements.
- Use the unit indoors, not in an exposed installation where it may be exposed to rain or extreme humidity.
- When the equipment is not used for a long period of time or in a humid and dewy environment, the main power supply of the equipment should be switched off.
- When cleaning the equipment, please use a sufficiently soft dry cloth or other alternatives to wipe the internal and external surfaces, do not use alkaline detergent to wash, and avoid hard objects to scratch the equipment.
- Please keep all the original packaging materials of the equipment properly, so that in case of problems, use the packaging materials to pack the equipment and send it to the agent or return it to the manufacturer for processing. We will not be responsible for any accidental damage in transit not caused by the original packaging materials.

**Note**

- Requirements for the quality of installation and commissioning personnel  
Qualifications or experience in the installation and commissioning of audio and video systems and qualifications to perform related work, in addition to the knowledge and operational skills listed below.
  - Basic knowledge and installation skills of audio and video systems and components.
  - Basic knowledge and skills in low voltage cabling and wiring of low voltage electronics.
  - Basic audio and networking knowledge and skills and the ability to read and understand the contents of this manual.

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# Chapter 1 Product Introduction

## 1.1 Introduction

This is a professional plug-and-play USB & RCA audio interface designed for desktop audio, multimedia systems, and portable applications. The device supports 2 RCA stereo inputs and 2 RCA stereo outputs, featuring built-in level control knobs and monitoring functionality for seamless signal switching, mixing, and monitoring. Compatible with all domestic operating systems (such as HarmonyOS, Kylin OS, UnionTech UOS, etc.), it requires no driver installation and operates plug-and-play, ensuring cross-platform universality. The device offers comprehensive functionality in level adjustment and integrated monitoring, making it suitable for home theaters, music production, and conference systems, guaranteeing pure audio transmission and real-time monitoring.

## 1.2 Product Features

- ✧ Plug-and-play design: USB Type-C interface requires no additional drivers, supports hot-swapping, and is compatible with Windows, macOS, Linux, and all domestic operating systems (HarmonyOS 3.0+, Kirin, etc.);
- ✧ 2 RCA inputs/outputs: Supports dual stereo RCA inputs (mixed mode) and dual RCA outputs (split or mirrored), enabling 2-in-2-out functionality;
- ✧ Level Adjustment: Independent knobs for each input/output ( $-\infty$  to +20 dB) enable precise volume control to prevent overload or signal attenuation;
- ✧ Monitoring Function: Built-in 3.5 mm monitor output supports real-time headphone monitoring with independent volume control, ideal for DJing or recording applications;
- ✧ Low-Noise Transmission: Integrated EMI filtering and ground loop isolation provide >50 dB noise suppression, ensuring high-fidelity audio (SNR > 96dB);
- ✧ Compact and portable: No external power required (USB-powered), metal housing, suitable for desktop or mobile use;
- ✧ Compatible and expandable: Supports ASIO/Core Audio drivers (optional download), compatible with professional DAW software.

## Chapter 2 Interface Description



- ① USB-C: USB Type-C audio interface supporting USB power delivery with power indicator light;
- ② Monitor Output: 3.5 mm monitor output jack with volume control knob;
- ③ IN/OUT: Select audio input or output from monitor IN/OUT ports;
- ④ IN L and R: RCA stereo left and right channel inputs; LEVEL: Input level adjustment for precise volume control, preventing overload or signal attenuation;
- ⑤ OUT L and R: RCA stereo left and right channel outputs; LEVEL: Output level adjustment for precise volume control, preventing overload or signal attenuation.

## Chapter 3 Application Scenarios

- Home Multimedia System: Switch between multiple RCA sources (e.g., CD players, turntables) to an AV receiver with monitor preview support.
- Music Production Starter: 2 inputs mix to output with level adjustment for simple recording, compatible with domestic tablet/mobile OS.
- Conferencing & Education: Plug-and-play connection from computer to speakers; monitor function allows presenters to adjust volume.
- Portable DJ/Mobile Applications: USB-powered, compact design for real-time audio management on HarmonyOS devices.

## Chapter 4 Specification

Category	Parameter Item	Parameter Description
Audio Performance	Input Channels	2 x Stereo RCA (Unbalanced, Line Level)
	Output Channels	2 x Stereo RCA (Unbalanced) + 1 x 3.5 mm Monitor (Stereo)
	Sampling Rate	44.1 kHz / 48 kHz (USB Mode)
	Bit Depth	16-bit
	Frequency Response	20 Hz~20 kHz ( $\pm 0.5$ dB)
	Total Harmonic Distortion + Noise (THD+N)	< 0.01% (1 kHz, 0 dBu)
	Signal to Noise Ratio (SNR)	> 96 dB (A-weighted)
	Dynamic Range	> 96 dB
	Maximum Input Level	+26 dBu (RCA); Monitor Output: +8 dBu
	Level Adjustment Range	$-\infty \sim +20$ dB (per channel independent knob)
Isolation and Noise Suppression	Noise Suppression	> 50 dB (EMI/RFI filtering); Ground loop isolation (>40 dB, 50/60 Hz)
	Crosstalk	< -80 dB (channel separation)
	Maximum Transmission Distance	> 50 m (RCA cable, no attenuation)
Interfaces and Connectivity	USB Interface	USB Type-C (power + data, 5V/500 mA)
	Input Connectors	2 x RCA female jacks (gold-plated, unbalanced)

	Output Connectors	2 x RCA female jacks (gold-plated, unbalanced); 1 x 3.5 mm TRS (monitoring, 16-32 $\Omega$ headphones)
	Impedance (Input/Output)	Input: 10 k $\Omega$ ; Output: 1 k $\Omega$
Compatibility and System	OS Compatibility	Windows 7, 8, 10, 11+, macOS, Linux (ALSA), HarmonyOS 3.0+, Kirin OS, and other domestic systems (Plug-and-Play)
	Driver Support	Driver-free (UAC 2.0 compatible); optional ASIO 2.0/Core Audio
	USB Protocol	USB Audio Class 1.0/2.0, hot-swappable
	Latency	< 5 ms (USB transmission)
Physical and Environmental	Dimensions (L x W x H)	70 mm x 36 mm x 100 mm
	Weight	0.39 kg
	Enclosure Material	Metal, blue spray-painted
	Operating Temperature	0°C~50°C
	Storage Temperature	-20°C~70°C
Power and Safety	Humidity	5%~95% (non-condensing)
	Power Input	USB-powered (5V DC, from host)
	Power Consumption	< 2 W (typical, all channels active)
Software and Control	Configuration Tool	No software required
	Compatible Software	DAW (Audacity, Reaper), media players (VLC, Foobar2000)

# Warranty Regulations

The warranty period of this product is 1 year.

In the warranty period of non-man-made damage caused by the product performance failure can enjoy three packages of service.

Warranty card by the sales unit stamped after the effective. The alteration is invalid!

**The following conditions (including, but not limited to, this) are not covered by the three-package service:**

1. No warranty card or missing valid invoice or the date has exceeded the validity period of the three packages of services;
2. Not in accordance with the requirements of the product instructions for use, maintenance, management and damage caused;
3. The product model or code on the warranty voucher does not match the physical goods;
4. Damage caused by the dismantling and repair of non-authorized service providers;
5. Normal discoloration, wear and tear and consumption during the use of the product are not covered by the warranty;
6. The product cannot be used due to the user's own network reasons, please consult customer service staff.