Professional USB & RCA Audio Interface

FOX UA22-RCA

Product 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.

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 (-∞ 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.

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 (±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	-∞～+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 Ω headphones)

	Impedance (Input/Output)	Input: 10 kΩ; Output: 1 kΩ
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
	Humidity	5%～95% (non-condensing)
Power and Safety	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)