

# Professional Computer Audio Interface

## FOX UA22



### Product Introduction

This is a professional plug-and-play computer audio interface designed for high-fidelity (Hi-Fi) audio enthusiasts and professional recording studios. Featuring two dedicated audio isolation transformers, it provides complete electromagnetic isolation to effectively eliminate computer ground potential noise, ground loop interference, and EMI/RFI noise, ensuring pure audio transmission and playback. Supporting high-resolution audio playback, it combines a low-noise DAC with a precision clock system to deliver exceptional Hi-Fi playback quality. Offering superior isolation performance and multi-channel support, it is ideal for desktop Hi-Fi systems, home theaters, and professional audio workstations.

### Product Features

- ✧ Plug-and-play design: USB Type-B 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.);
- ✧ Dual isolation transformers: Features two dedicated audio isolation transformers for complete current isolation, blocking computer ground noise and reducing background noise;
- ✧ High-Resolution Audio: Supports high-resolution audio playback with wide dynamic range, ensuring Hi-Fi-level detail reproduction;
- ✧ Professional DAC and Amplification: Utilizes a high-performance DAC chip combined with a headphone amplifier, supporting high-impedance headphones;
- ✧ Noise Suppression Technology: Low-jitter TCXO clock source eliminates EMI/RFI interference for a pristine audio environment;
- ✧ Multi-output support: Balanced XLR connectors for stereo and multi-channel Hi-Fi systems;
- ✧ Rugged design: Metal-shielded enclosure for electromagnetic interference protection, operating in environments from 0°C~50°C.

## Specification

Category	Parameter Item	Parameter Description
Audio Performance	Chip	High-Performance DAC Chip
	Signal to Noise Ratio	96dB (A-weighted, front-end output)
	Total Harmonic Distortion + Noise	< 0.0001% (-120 dB) @ 1 kHz, 0 dBFS
	Dynamic Range	96dB (A-weighted)
	Sampling Rate	44.1 kHz~48 kHz (PCM);
	Bit Depth	16-bit
	Frequency Response	20 Hz~20 kHz ( $\pm 0.1$ dB)
Isolation and Noise Suppression	Isolation Type	Current-isolated 2 x audio-dedicated transformers (TY-250P grade, 1:1 ratio)
	Isolation Voltage	> 5 kV (PC side to audio side)
	Ground Noise Rejection	> 60 dB (50/60 Hz ground loop)
	EMI/RFI Shielding	Metal-shielded enclosure + internal filtering circuitry
	Power Isolation	Built-in LDO regulator
Interfaces and Connectivity	Analog Output	Balanced XLR (stereo pair)
	Headphone Output	3.5 mm unbalanced, supports 16-600 $\Omega$
	Input Interface	Stereo UAC input for external source switching
Clock and Synchronization	Clock Source	Internal TCXO (temperature-compensated crystal oscillator, $\pm 1$ ppm accuracy)
	Jitter	< 200 ps (RMS)

	Synchronization Mode	Master mode/Slave mode
Physical and Environmental	Dimensions (L x W x H)	70 mm x 36 mm x 100 mm
	Weight	0.45 kg
	Enclosure Material	Metal shielding + PCB ground plane
	Operating Temperature	0°C~50°C
	Storage Temperature	-20°C~70°C
	Humidity	5%~95% (non-condensing)
Power and Safety	Power Input	USB computer power supply
	Power Consumption	< 8 W (typical, full channel output)
Drivers	Driver Support	Windows, MAC OS, Kylin OS, UnionTech UOS, and other domestic systems