

SPIDERS

C3 Gaming Sound Card

AI-Enhanced Footsteps, Own the Advantage



SPIDERS

Spider S is Fosi Audio's premium esports lineup, blending competitive performance, Hi-Fi sound philosophy, and AI perception algorithms. Built around sound awareness, Spider S spans a complete gaming audio ecosystem—headsets, sound cards, speakers, and microphones. Powered by Fosi's in-house AI models for call noise reduction, FPS audio enhancement, and voice changing, the lineup shares a unified AI sound engine and tuning approach, delivering a consistent, upgradable sonic edge for gamers.

C3 is the first AI gaming sound card in the Spider S series truly built for FPS gamers who rely on precise sound positioning. Its built-in FPS AI model analyzes in-game audio in real time, intelligently enhancing key footsteps to help you locate enemies faster. Unlike traditional sound cards which only adjust EQ, C3 boosts what matters, preserving ambient sounds and gunfire for accurate awareness even in chaotic battles.

C3 features a HiFi-grade DAC and premium circuit design, delivering high resolution with low noise to reveal subtle in-game details. A dedicated headphone amp easily drives gaming headsets, while hardware-level 7.1 spatial audio creates a more realistic and immersive soundstage. With independent mic volume control, AI noise reduction, and real-time monitoring, team communication stays clear and smooth. The web-based control panel offers multiple game presets and customizable EQ, letting you fine-tune sound to match your playstyle.

01\ Redefine Sound Card

Fosi Audio C3



Traditional Sound Cards



Footsteps hard to hear clearly?

Such as grass movement, landing, vaulting, and other fine footstep cues

In-House FPS AI Model

Precisely isolates footstep frequencies and enhances only critical information, without altering other audio characteristics

- Clearer footsteps with accurate enemy positioning
- Overall game loudness remains unchanged
- Comfortable for long gaming sessions with reduced fatigue

EQ Adjustment

Boost or attenuate fixed frequency bands (e.g. lows/highs at 63–1 kHz / 2–4 kHz)

- All sounds are affected equally
- Gunshots become harsh, explosions overpowering
- Ambient noise increases, leading to distortion
- Cause ear fatigue and discomfort over long sessions

Environmental details masked or too weak?

Such as cloth movement, wind through grass, insects, wind noise, distant thunder, raindrops hitting the ground

HiFi-Grade DAC and Circuit

Reduce distortion and noise at the hardware level, delivering higher resolution and improved separation

- Hear subtle sounds without raising overall volume
- More immersive and realistic soundstage

Volume Boost or EQ Adjustment

- Environmental details remain weak or distorted
- Prolonged listening leads to fatigue or potential hearing strain

02\ In-House FPS AI Model

In FPS games, players often rely on footstep sounds to judge an enemy's direction and distance. However, because footsteps occupy a narrow frequency range and have very short transients, they are easily masked by gunfire, explosions, and ambient noise.

The Spider S AI model is optimized for FPS titles such as CS2 and PUBG. Trained on large-scale datasets, it precisely identifies and amplifies footstep frequency bands while keeping gunfire and explosion sounds unchanged, ensuring clear footsteps without altering overall game audio.



6-9dB

Footstep Enhancement



40ms

Processing Latency

02\ In-House FPS AI Model

Counter-Strike 2

Model Training Time: *3,950 Hours*

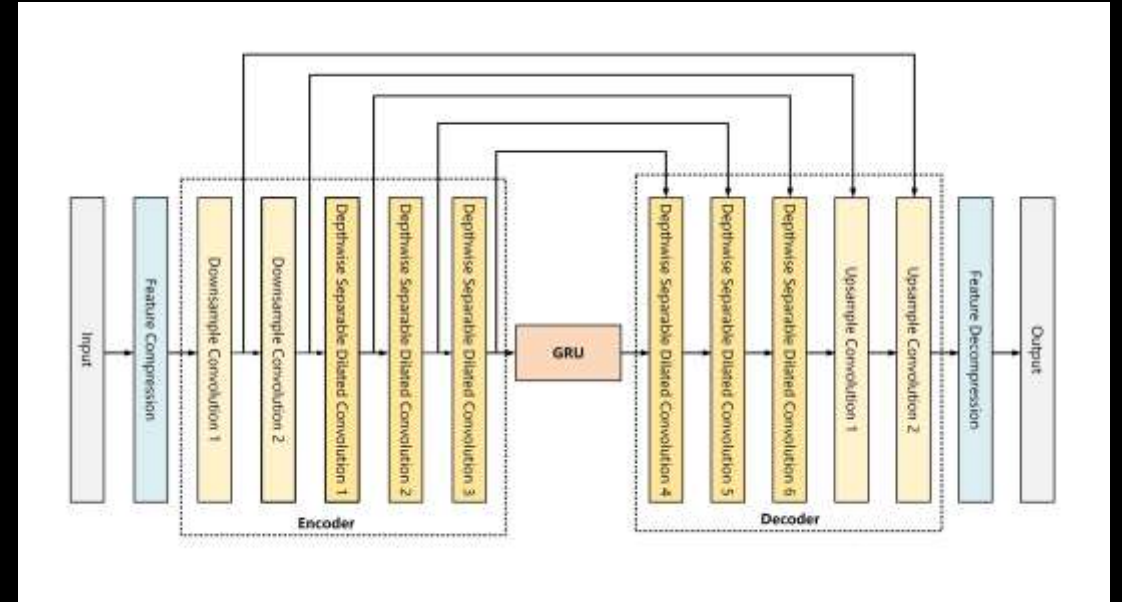
Training samples: *2,137,399*

PUBG: Battlegrounds

Model Training Time: *4,000 Hours*

Training samples: *2,172,110*

More game-specific optimizations coming soon...



Model Network Architecture



03\ Impressive Audio Performance

- **XMOS XU316 16-Core Flagship Processor:** Delivers powerful computing performance for AI models. High-precision dual-clock management ensures stable and accurate game audio transmission.
- **CS43131 Premium DAC:** Supports high-resolution lossless audio decoding with excellent detail and an ultra-low distortion of 0.0004%, accurately reproducing in-game sound details.



PCM 32bit 384kHz DSD256
Support Lossless Audio

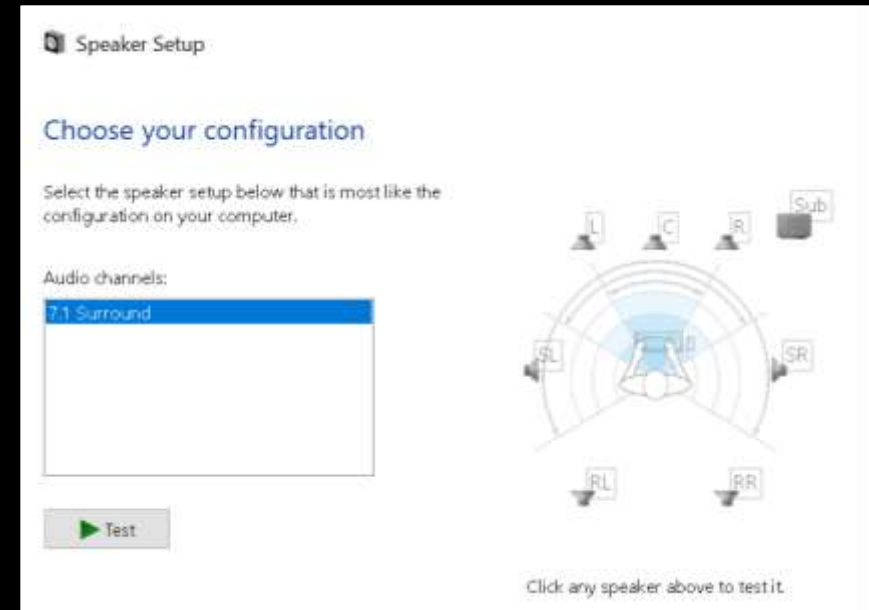
320mW x2@32Ω(THD+N < 1%)
Easily Drive Headsets

04\ Hardware-Level 7.1 Spatial Audio

Plug and play—no drivers required. In games that support multichannel output, such as Delta Force and Forza Horizon 5, enabling 7.1 audio delivers realistic distance cues and deep immersion—bringing battlefield gunfire to life and capturing the roar and rush of the racetrack.



Supports native 7.1 multichannel audio input. Using spatial audio algorithms based on human auditory models (HRTF/HRIR), the signal is spatially reconstructed and then rendered through two-channel output, delivering a 360° surround sound experience with accurate stereo spatial imaging.



Hardware-level 7.1 can be verified in the Windows Sound settings, where all eight discrete channels are available for testing. Software-level 7.1, typically achieved via EQ or virtual effects, remains two-channel (stereo) only.

05\ Independent Mic Control

■ AI Voice Noise Canceling

Filters out keyboard clicks and background noise. With 50ms low-latency processing, voice chat sounds smoother and clearer.

■ Mic Volume Control

Quickly boost mic volume when speaking softly, so teammates hear you clearly. Slider-based design for easy, intuitive desktop control.

■ Monitoring Mode (Sidetone)

Hear your own voice in real time to gauge speaking volume, helping you control loudness and avoid disturbing others.

■ One-Touch Mute

Instantly mute the microphone when voice chat is not needed.



06\ Sound Presets & EQ Adjustment

Through the web-based control panel, you can quickly switch UAC and audio effect modes. Built-in sound profiles for popular FPS titles such as CS 2 and PUBG deliver a more immersive, fluid gaming experience. Custom EQ is supported, and you can share your sound profiles with the community.



Online URL: cc.fosiaudio.com

07\ Born for Desktop Gaming

■ Compact Size

Takes up minimal desk space and draws power directly from USB-C port of your computer.

■ Intuitive Buttons & Sliders

Clear layout with excellent tactile feedback for quick, no-look control.

■ 5° Angled Ergonomic Design

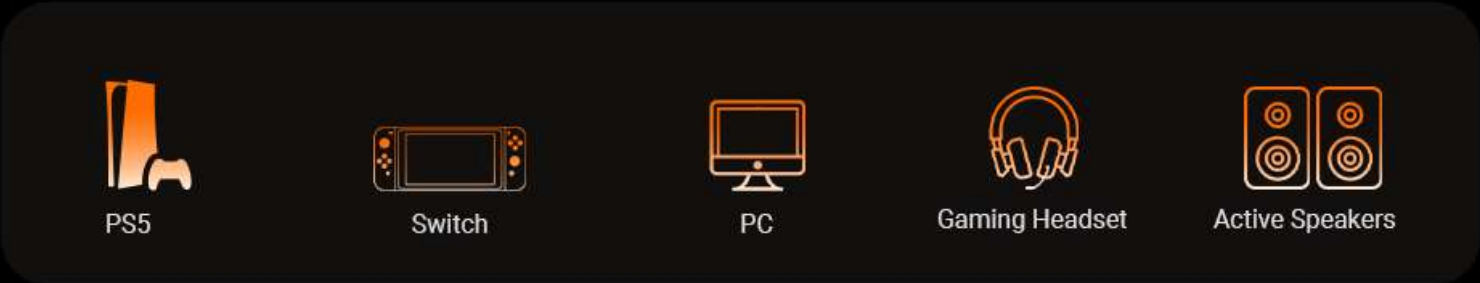
Designed for desktop use with a slight tilt, making buttons easier and more comfortable to operate.

■ Aluminum Alloy Chassis

CNC-machined unibody construction for durability, with effective shielding against electromagnetic interference.



08\ Wide Compatibility



09\ Specifications



Chipset	XMOS XU316+CS43131+TPA6120*2	
Max Sampling Rate	UAC 2.0	PCM 32bit 384kHz/DSD256
	UAC 1.0	PCM 16bit 48kHz
	OPT	PCM 24bit 192kHz
	COAX	PCM 24bit 192kHz
Input	Coaxial, Optical, USB-C (power/data), 3.5mm Microphone Input	
Output	3.5 mm Headphone Jack, RCA Line Output	
Input Voltage	DC 5V	
Headphone Impedance	16-300Ω	
Headphone Output Power	L+R≥320mW+320mW (32Ω/THD+N < 1%)	
RCA Output Level	≥2Vrms	
SNR (A-weighted)	3.5mm: 123dB、RCA: 124dB	
THD+N (A-weighted)	3.5mm: 0.0004%、RCA: 0.0005%	
Dynamic Range	3.5mm: 123dB、RCA: 124dB	
Noise Floor (A-weighted)	≤3μV	
Frequency Response	20Hz-20kHz (±0.06dB)	



SPIDER S

MUTE/ST
USB
OPT
COAX
PCM/DSD

IN

Q

UAC

EFFECT

2.0
1.0

7.1

VOL

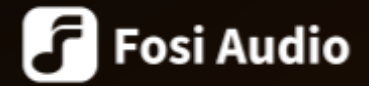
MIC







About Fosi Audio



Established in 2017, Fosi Audio has been committed to developing, manufacturing, and selling high-quality HiFi audio products. The brand name FOSI is shaped by four core principles:

- Foresight, thinking further ahead;
- Openness, embracing users' voices;
- Sincerity, serving you wholeheartedly;
- Innovation, upholding technical excellence. We've crafted a home and personal HiFi system—including home audio amplifiers, preamps, DACs, speakers, headphones, headphone DAC amps, etc. Fosi Audio has quickly become a rising star in the HiFi audio world, earning recognition from audiophiles globally, with a distribution network spanning over 100 countries and trusted by millions of music enthusiasts across the globe.

We believe every sound matters. With cutting-edge innovation, we make every note clear, real, and full of emotion, empowering you to “Hear the Unheard”. Driven by our mission to redefine HiFi with unmatched value, Fosi Audio continues to fuel its passion for the HiFi industry, ramp up R&D efforts, and co-create new HiFi equipment with users. We pledge to bring more amazing HiFi gear with cutting-edge technology, innovative design, and premium quality to audiophiles worldwide.

Official Website: www.fosiaudio.com

Official Forum: community.fosiaudio.com

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Facebook Group



Youtube



Whatsapp

