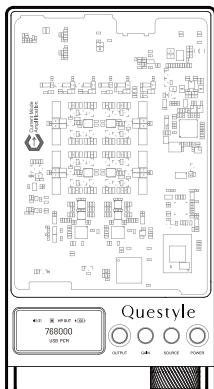


Questyle

Audio Engineering



SIGMA Pro

Portable DAC With Headphone Amplifier

Made for

iPhone | iPad

快速入门指南 | Quick Start Guide | Schnellstart-Anleitung
クイックスタートマニュアル | 퀵스타트 가이드 | Guide rapide débutant



FCC ID: 2AEKH-DAC2

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

About SIGMA Pro

As Questyle's flagship portable DAC/amp, SIGMA Pro embodies our relentless pursuit of audio excellence. It is not only a culmination of cutting-edge engineering, but also a new performance benchmark. We have long asked whether desktop-grade performance and portability must be at odds—SIGMA Pro provides a definitive answer: "Professional audio, made portable."

Matching desktop-class specifications and sonic performance, SIGMA Pro features four sets of Questyle's patented current-mode, fully discrete amplifiers (PCT), a dual-mono ESS ES9069 DAC architecture, and an XMOS XU316 USB interface supporting PCM 768kHz/DSD512 master-grade decoding as well as full MQA decoding.

SIGMA Pro carries triple certifications: Apple MFi, Qualcomm Snapdragon Sound™, and Sony LDAC—ensuring outstanding compatibility with iOS and other devices for diverse professional audio needs.

It offers USB, optical, coaxial, and high-resolution Bluetooth inputs, adds multitrack recording monitoring, and provides 3.5mm single-ended, 4.4mm balanced, and analog inputs—greatly expanding connectivity. The sandblasted aerospace-grade aluminum chassis with Kunlun glass is minimalist yet durable. Dual independent USB-C ports support charging while listening with an intelligent battery management system for long, stable power delivery.

What's in the box



SIGMA Pro x 1



User Manual x1
Warranty Card x1



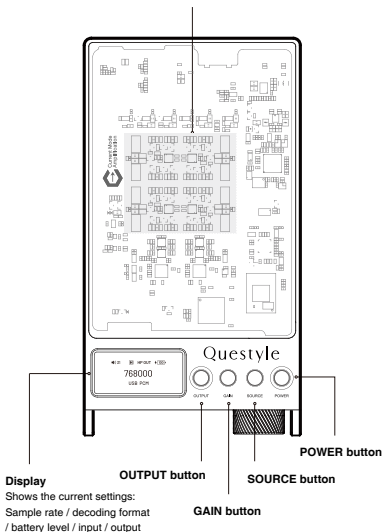
Type-A to Type-C
adapter x1



Type-C to Type-C
cable (1.2 m) x1

Top View & Buttons

Four Questyle PCT Current-Mode Amplifier Sets
Fully discrete, fully balanced design



Button Functions & Operation

SOURCE — Input Select

- Short press to switch input: USB / BLUETOOTH / OPT / S/PDIF / SINGLE ENDED ANALOG INPUT / BALANCE ANALOG INPUT.
- In BLUETOOTH mode, long-press SOURCE to enter pairing.

GAIN — Gain Setting

- When in IEM MODE output: short press to select High or Low gain.
- When in HP OUT / LINE OUT output: short press to select Studio, High, or Low gain.

Studio is a high-voltage output mode simulating a studio environment. It can be used only in HP OUT or LINE OUT modes. Do not use Studio with Hi-Fi IEMs—it may cause damage.

- In HP OUT, Studio is recommended for high-impedance headphones;
- In LINE OUT, Studio is suitable for professional gear such as mixers.

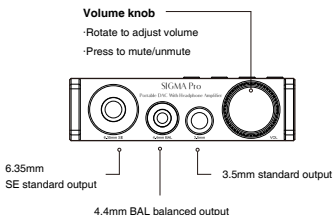
OUTPUT — Output Mode

- Short press (when not in IEM MODE): toggle LINE OUT / HP OUT.
- Long press: enter/exit IEM MODE.
- Each output mode retains its own volume setting after power-off.
- IEM MODE: optimized for in-ear monitors (IEMs).
- HP OUT: for over-ear headphones.
- LINE OUT: for active speakers.

POWER — On/Off

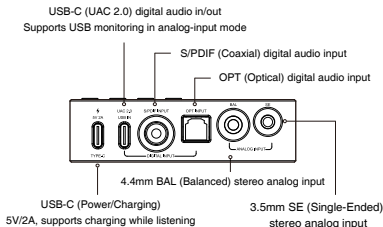
- Long press to power on/off.

Front Panel



- These outputs can connect to headphones/amps/active speakers. Select the appropriate output mode to match the connected device.
- We do not recommend using three headphones at the same time.

Rear Panel

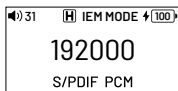
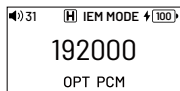
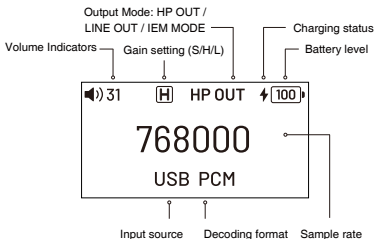


Using SIGMA Pro as a DAC & Headphone Amplifier

Digital Inputs (USB / OPT / S/PDIF)

SIGMA Pro provides optical, coaxial, and USB digital inputs. Connect PCs, music servers (UAC 2.0 standard), CD/Blu-ray players, etc., via the corresponding digital interface to feed audio to SIGMA Pro.

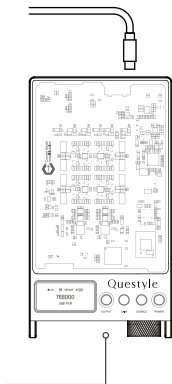
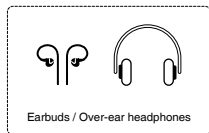
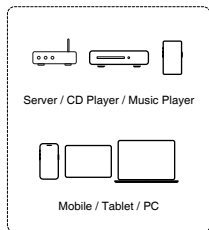
* If your music server supports Linux UAC 2.0, no USB driver is required.



Using SIGMA Pro as a DAC & Headphone Amplifier

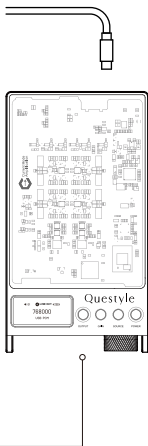
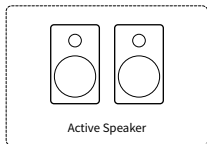
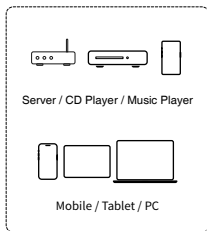
In IEM MODE or HP OUT, SIGMA Pro functions as a DAC/headphone amplifier.

- Short-press OUTPUT (when not in IEM MODE) to select HP OUT and choose an appropriate GAIN for various over-ear headphones.
- Long-press OUTPUT to enter/exit IEM MODE for Hi-Fi IEMs. For high-sensitivity, low-impedance IEMs, IEM MODE is recommended.
- Use GAIN to select a suitable gain level.



Using SIGMA Pro as DAC + Preamp

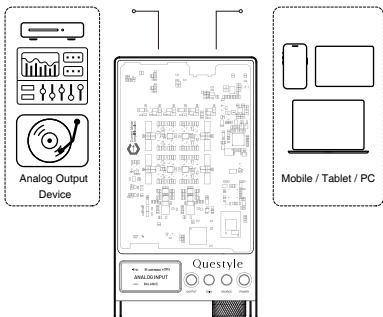
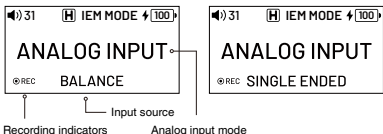
- Short-press OUTPUT (when not in IEM MODE) to select LINE OUT and connect to active speakers; SIGMA Pro then works as a DAC preamp or standalone preamp.
- Use GAIN to set the pre-level output gain.



Analog Input Recording Function

SIGMA Pro supports stereo 3.5mm AUX IN and 4.4mm BAL IN, allowing connections from vinyl players, mic preamps, mixers, and other audio devices with LINE OUT.

It can also convert analog signals into digital audio files for easy storage on an external device, while enabling real-time monitoring of the recording process.

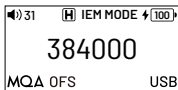


*In ANALOG INPUT mode, once SIGMA Pro is connected via USB to an Android/iOS device, tablet, or PC, the host can select SIGMA Pro for analog input recording.

No special recording software is required—any audio or video app that supports USB sound cards will recognize SIGMA Pro as an external high-performance stereo recorder, replacing the built-in microphone.

MQA Decoding

MQA packages very high sampling-rate audio into files small enough for streaming. MQA carries 100% of the information from the original master and adapts to your playback device to deliver the highest possible quality—so you hear what the artist heard in the studio.



USB Driver Installation & JRiver/Foobar Setup

On Windows versions earlier than Win10, please install Questyle's ASIO driver.

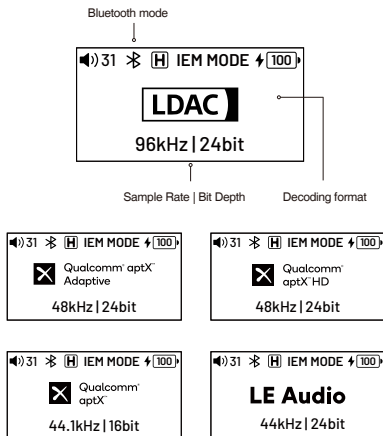
On Win10 without driver, DSD playback is limited to DoP DSD128. With the driver, playback supports up to Native DSD512.

Please visit www.questyle.com to download "Questyle Desktop USB Driver Installation and JRiver/Foobar Setup Guide."

Using SIGMA Pro as a Bluetooth DAC & Headphone Amplifier

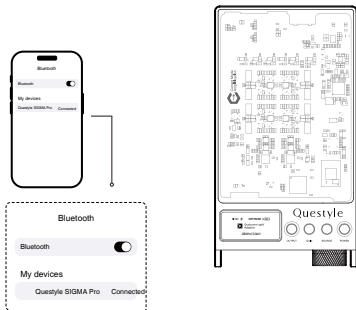
Bluetooth Input Mode

SIGMA Pro integrates Qualcomm® Snapdragon Sound™ technology and is certified for both Snapdragon Sound and Sony LDAC. With Bluetooth 5.4, it supports Qualcomm codecs—aptX Adaptive (lossless), aptX HD, and aptX—as well as Sony's LDAC (up to 24-bit/96 kHz), plus the latest LE Audio and standard SBC.



Using SIGMA Pro as a Bluetooth DAC & Headphone Amplifier

- For the first connection, short-press SOURCE to set the input to BLUETOOTH. In your phone's Bluetooth menu, find "Questyle SIGMA Pro" and tap to pair.
- In BLUETOOTH mode, the device will automatically enter reconnection and pairing modes.
- You may use either headphones or speakers as the output device.



Technical Specifications

Input/Output Interface Specifications

Digital Inputs	USB Inputs::
	PCM: 44.1kHz~768kHz/32Bit
	DSD Native: DSD64,DSD128,DSD256,DSD512,
	DSD DoP: DSD64,DSD128,DSD256
	MQA rendering & full decoding
	UAC 2.0;
	Compatible Win XP/Vista/Win7/Win8/Win10/ Win11/Linux/Android/HarmonyOS/macOS and iOS
	Optical Input (OPT):
	PCM 44.1kHz~192kHz/24Bit
	Coaxial Input (S/PDIF):
Analog Inputs	PCM 44.1kHz~192kHz/24Bit
	Bluetooth 5.4
	SBC/LE Audio/aptX/aptX HD/aptX Adaptive/LDAC
Audio Outputs	3.5mm SE IN: 1Vrms
	4.4mm BAL IN: 2Vrms
Audio Outputs	3.5mm / 6.35mm (single-ended)
	4.4mm (balanced)

Pre-Out Technical Specification

Max Analog	3.5mm: 3.3V @ 300Ω; 4.4mm: 6.6V @ 300Ω
Output Amplitude	
THD+N	SE: 0.0002%; BAL: 0.0002%
Frequency Response	±0.8dB (DC-22kHz) @ 48kHz/24Bit
SNR	RCA: >120dB; XLR: >120dB

Headphone Amplifier Output Specifications

Max Output Power	>1200mW @ 32Ω Balanced
THD+N	<0.0002% @ 300Ω
Frequency Response	±0.8dB (DC-22kHz) @ 48kHz/24Bit
SNR	3.5mm/6.35mm: >120dB; 4.4mm BAL: >120dB

Questyle

Audio Engineering

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