Fosi Audio

BRING THE SOUND TO YOUR HEART

User Manual
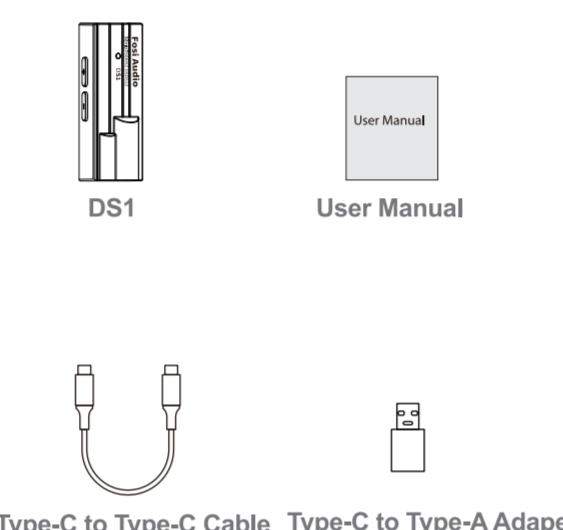
Model: DS1

Foreword

Thank you very much for purchasing the DS1 headphone amp.

Please read the instructions carefully before using the product.

If you have any problems or suggestions for the product, please feel free to contact us via email. We are always at your service.

Email address of our technical support team：**support@fosiaudio.com.**
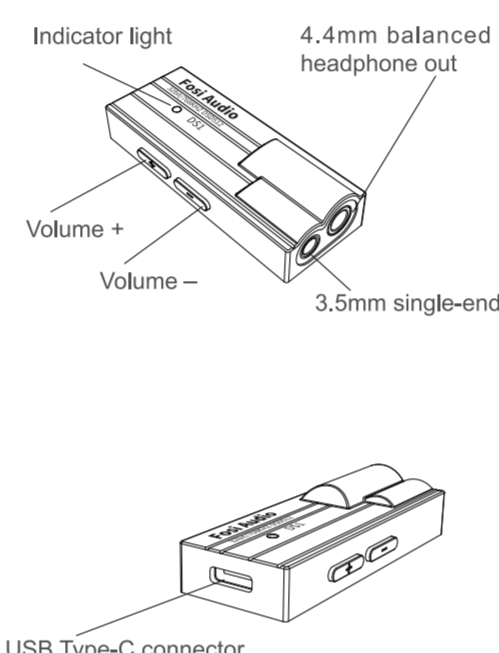
Packing list

DS1   User Manual

Type-C to Type-C Cable   Type-C to Type-A Adaper

Overview

Indicator light   4.4mm balanced headphone out

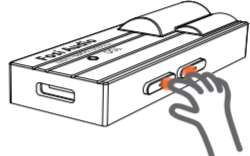Volume +

Volume −

3.5mm single-ended

USB Type-C connector

Specifications

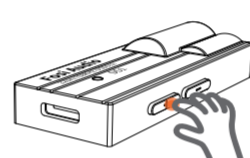|	
DAC Chipset	ESS ES9038Q2M QUAD DAC Chip
THD+N	SE : 0.0006% (32Ω load) BAL: 0.001%(32Ω)
Output Power	SE: 120mw(32Ω) BAL: 220mw(32Ω)
S/N	120dB
Frequency Response	20HZ-20KHZ +/-0.5dB
PCM	Up to 32bit/768kHz
DSD	DSD64/128/256/512
Dynamic Range	120dB
Recommended Headphone Impedance	16~300Ω(SE); 16~300Ω(BAL)
Dual Headphone Outputs	3.5mm single-ended , 4.4mm balanced output
Supported Devices	Mac\Windows\iOS\Android
Product Name	DS1
Weight	38g

Operation instruction

1. Connect the DS1 to your Android phone using a USB Type-C cable. (Note: Some Android phones or music players may have compatibility issues due to system and hardware differences, and some phones require the OTG function to be enabled in order to use the DS1 properly.

2. When connecting the DS1 to a device with a lightning connector, use a lightning to Type-C OTG cable. (not included in the package)

3. When playing music on your computer, please select Fosi Audio DS1 as the audio output device for your computer.

4. Volume control may not be available for some devices in exclusive USB audio access mode.

5. The DS1 does not have a built-in battery, so the DS1 draws power from the main unit via the USB port. Actual power consumption is related to operation and the device system. The DS1 has a built-in audiophile-grade DAC chip. It is normal for the DS1 to get hot during use.

Mode switching

◎ Click the volume up and down buttons simultaneously once to switch between high and low indepedance level mode.

① Long press the volume up button.

② Plug into a USB port of a desktop laptop, PS5, etc ..

③ When the indicator light flashes red, DS1 is in UAC1.0 mode.

Indicator light

UAC Mode	Output Mode	Audio Stream Format	Sampling Rate	Display Colour
UAC 2.0	Low level mode	PCM	44.1K、48K	Red
			88.2K、768K	Green
		DSD	/	Blue
	High level mode	PCM	44.1K、48K	Yellow
			88.2K、768K	Cyan
		DSD	/	Purple
UAC 1.0	Low level mode	/	/	flashing red
	High level mode	/	/	flashing yellow

Cautions and notes

1, If the DS1 is charged via USB from a mobile phone or computer, it will consume their power.

2, The DS1 uses a high performance DAC/Amp chip and it is normal for it to get hot during use.

3, Please adjust the volume to the right level before wearing the headphones to protect your hearing.

4, Please do not wear headphones when plugging them in or out to avoid sudden impulse noise that may damage your hearing.

QA

Q1. Regarding heat and power consumption.

❶ The DS1 does not have a battery and therefore consumes power from the device. When connecting the DS1 to a mobile phone or other device, please plan power consumption wisely.

❷ The DS1 is small in size but has a high output power. The temperature rise is about 15°C during operation. It is normal for it to get a little warm during use.

Q2. About the support of DSD files in DS1:

❶ To play DSD files on the Android devices, please use an APP which supports DSD files (e.g. "HiBy-Music APP") and enable the exclusive USB Audio Access Mode. The DSD output option should be set to DOP or Native. DSD512 is only supported in Native mode.

❷ To play DSD files on the iOS devices, please use an APP which supports DSD files (e.g. "HiByMusic APP") and set DSD output option to DOP.(Note: iOS devices cannot support DSD512 currently.)

❸ To play DSD tracks on the computer, please use the software which supports DSD files (e.g. "Foobar 2000 on window or Audirvana on mac") and install the relevant application plug-ins correctly.

❹ Switching tracks with different sampling rates will cause relatively obvious impulsing sound which is a normal phenomenon. It is recommended classify music files well.

Q3.How to use the DS1 as a USB DAC for mobile phones?

❶ [Android-based phone]: Just use the Type C to Type C cable to connect the DS1 to a mobile phone(cable is included in the package).

❷ [iPhone/iPad]: Please purchase an additional Lightning to Type C OTG cable to connect DS1 to iPhone/iPad/iPod.

Notes:① Only iOS 10.0.2 and above are supported. Due to the iOS system itself, Apple devices below this version cannot be supported.

② Since there is a limitation on the power supply to external USB devices from iPhone, DS1 with high output power may have stuttering or no sound problem at high volume.

Notes:① A compatibility issue may occur to certain Android mobile phones or music players due to system and hardware differences.

② Some mobile phones are required to turn on the OTG function, so as to use the DS1 normally. For detailed settings please consult the support of mobile phones.

③ Some mobile phones may show the "non-certified Type-C digital headphone" notification. You can ignore the message and use it normally.

Q4. How to use the DS1 as a USB DAC for computers?

[Windows system].① The DS1 can be used plug-and-play on window 8/10 and does not require driver installation.

② Connect the DS1 to your computer using a Type C to Type C cable. (If your computer's USB port is USB A, you can use a Type C to USB A cable to help you with this) (included in the package).

③ Select the Fosi Audio DS1 as the audio output on your computer.

[Macbook]. Macbook does not require driver installation. Select Fosi Audio DS1 directly as the output device.

Q5. Under what circumstances do I need to download the driver before using DS1 in window system?

❶ The computer operating system is window 7.

❷ To play DSD songs. (Note: but you do not need to install the driver if you are using foobar and have installed its own Waspi plug-in to play DSD songs).

❸ Play PCM 768KHZ songs.

When you encounter the above problems, please first contact Fosi Audio after-sales service to obtain the DAC driver or scan the QR code on the last page of the manual, and install it as the instruction to enable the USB DAC function.

Q6.What should I pay attention to when using the 4.4 interface balanced mode?

❶ Please do not use any 3.5mm to 4.4mm adapters as this may result in no sound, stuttering etc. during use.

❷ It is recommended to use 4.4mm headphones directly.

Q7.Does the DS1 support in-line headset control or answering calls with a headset?

❶ The DS1 does not support in-line remote control with a headset or answering calls with a headset.

❷ When there is an incoming call, the sound is still transmitted through the phone's speaker and microphone. You can pick up the phone to make a normal call. Whether or not you unplug the DS1 will have no effect.

Q8.Questions about Exclusive USB Audio Access Mode.

Due to system and hardware differences in exclusive USB audio access mode, some Android phones or players may have some permission conflicts and compatibility issues.

Here is the known situations:

About Fosi Audio

❶ On some mobile phones or DSD playback software, the volume buttons on the DS1 body cannot be synchronised to control the volume of your mobile phone, you can control the volume directly from your mobile phone.

❷ Some phone power management policies do not allow third-party apps to run in the background by default. This may cause the APP to pause in exclusive USB audio access mode after the phone has slept for a few seconds. You can manually set the app to keep working while sleeping in the phone's battery management settings.

❸ Running other apps in exclusive USB audio access mode may cause lagging or no sound issues. We will continue to optimise this issue. If you are using exclusive USB audio access mode, we recommend that you focus on listening to music. Alternatively, you can exit the exclusive USB audio access mode to avoid this problem.

◎ Fosi Audio designs and builds innovative audio products with all your music fully in mind. Outstanding sound, simple but elegant design, high-quality materials and truly useful features are what Fosi Audio is all about. We sincerely hope you get as much pleasure from our products as we do from creating them!

◎ Our website: www.fosiaudio.com
◎ Amazon store: www.amazon.com/fosiaudio
◎ Our Youtube channel: Fosi Audio
◎ Facebook page: Fosi Audio
◎ After-sale Service and Technical Support Email: support@fosiaudio.com

DS1 driver   Fosi Audio Product's User Manual