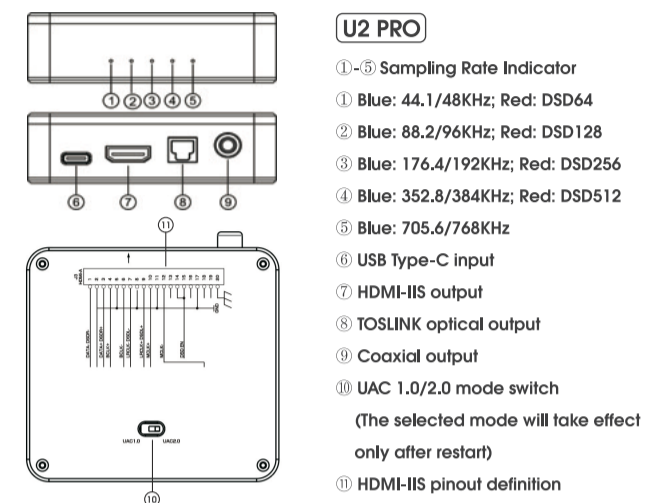
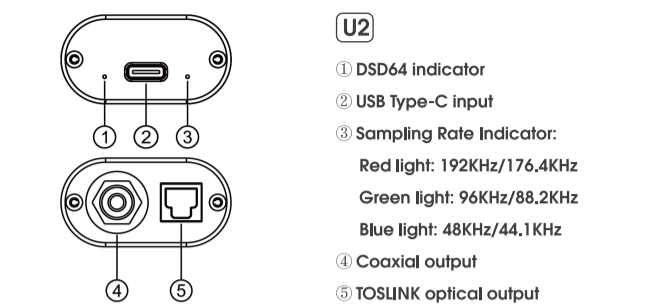


Front and Rear Panel



Operation steps

1. Connect DAC, digital amplifier, active speakers or other digital devices to the coaxial/optical output of the U2, or the coaxial/optical/HDMI-IIS output of the U2 PRO. When using the equipped optical cable to connect

output of U2/U2 PRO and other devices, please remove the dust caps from both ends of the equipped optical cable.

2. The U2/U2 PRO comes with a 2-in-1 USB-A/USB-C to USB-C cable that supports OTG functionality. Connect the USB-C end to the input of U2/U2 PRO. Depending on your need, use either the USB-A or USB-C connector to connect audio source such as smartphone, tablet, laptop, PC, PS5, Switch, or media player etc.
3. After successful connection to both the audio source and back-end device, the U2/U2 PRO will automatically power on, and the corresponding sampling rate indicator will light up. If the indicator does not match your expected sampling rate or remains off, please check the settings of your audio source or back-end device.
4. For U2 PRO, you can switch UAC 1.0/UAC 2.0 mode to ensure compatibility with different devices by toggling the mode switch on the bottom. After switching modes, please restart the U2 PRO for the new mode to take effect.
 - (1) UAC 1.0 Mode: Suitable for PS5 and Switch. No driver required, plug and play. Supports PCM 44.1-96kHz.
 - (2) UAC 2.0 Mode: Suitable for high-fidelity audio playback and DSD-capable devices. Requires driver installation. Supports PCM 44.1-768kHz; DSD (Native) 64-512; DSD (DOP) 64-256.

Warm tips

1. The U2/U2 PRO supports Windows 10/11, macOS, Android, and iOS. Windows systems require driver installation, while macOS does not. To avoid potential compatibility issues, it is not recommended to use Windows 7/8, or general-purpose Linux systems. Linux-based audio systems like Daphile, Volumio, and ROON are supported.
2. The U2 PRO supports oscillator replacement. Default 24,000 MHz \pm 20 PPM 5032 active oscillator. can be replaced by DIP-4P rectangular plug-in active oscillators or 5030 SMD active oscillators. Oscillator with higher precision can reduce jitter and enhance audio performance.
3. The U2 PRO features a standard IIS differential output supporting LVDS levels and adheres to the standard IIS protocol, compatible with most DAC.

How to Set PC-USB Driver

1. Please connect the equipped USB cable to the USB output of the computer and the USB input of U2/U2 PRO. The USB connection supports hot swapping.
2. Please download the USB driver from the equipped U-disk or from (https://drive.google.com/drive/folders/1H-e8Ue4So_YyOrCVVfSbZBKfW9oX?usp=drive_link) or scan the QR code below or contact us directly. An instruction video for Windows driver installation and macOS setup is also included in the U-disk.

Install ASIO Plug-in

Double click "ASIOProxyInstall-0.6.5" and follow the instructions to install.

Install Driver

1. Double-click "SUCA_UsbAudio_v4.82.0_2020-01-21_setup" and follow the instructions to install.

2. After installation, open the driver and the following dialog box will appear:
3. After restarting, locate the speaker icon in the bottom-right corner of the desktop, right-click to open the menu, and select "Playback Devices".
4. In the pop-up window, select the USB device recognized by the PC (HIFI USB AUDIO).
5. Click to confirm the recognized digital output and set it as the default device.

Set Foobar 2000

1. The Foobar software does not require installation. Double-click foobar2000 to open the player.
2. Click File, select Preferences, click Components, and then click Install.

3. Select the files foo_input_sacd.fb2k-component, foo_out_asio.fb2k-component, and WASAPI.fb2k-component, then click Open.
4. Click Apply, then click Ok.
5. Open foobar2000, click Library, select Configure, and then click Output.

(Native output mode setting)

Note: For U2, when playing PCM files, both Native and DOP output modes are available. When playing DSD files, only DOP output mode is supported.

(DOP output mode setting)

Note: For U2, when playing PCM files, both Native and DOP output modes are available. When playing DSD files, only DOP output mode is supported.

Parameters

Model	U2	U2 PRO
Audio input	USB Type-C	
Audio output	Coaxial/Optical	Coaxial/Optical/HDMI-IIS
USB chip	XMOSS XU316	
Output mode switch	/	UAC 1.0/UAC 2.0

Max. sampling rate Coaxial/Optical supported	PCM: 44.1kHz-192kHz/14Bit-24Bit DSD: DOP DSD64	
Max. sampling rate IIS supported	/	PCM 44.1kHz-768kHz/14Bit-32Bit DSD (Native): 64-512 DSD (DOP): 64-256
Operation systems	W10/W11/Mac OS	W10/W11/Mac OS/Android/IOS/PS5/Switch
PC-USB supported	/Andriod/iOS	IOS/PS5/Switch
Jitter	/	75ps (typical)
THD+N	0.000008%	
Working voltage	DC 5V	
Dimensions (W*D*H)	40*52*20mm / 1.57*2.05*0.79in	85*79*26mm / 3.35*3.11*1.02in
Package dimensions (W*D*H)	170*120*50mm / 6.69*4.72*1.97in	195*156*70mm / 7.68*6.10*2.64in
Net weight	45g / 0.1lb	200g / 0.44lb
Package weight	170g / 0.37lb	400g / 0.88lb

FAQ

- Q: After connecting U2/U2 PRO to the computer via USB input, there is no response? Or after connecting, the computer prompts that U2/U2 PRO cannot be recognized?
A: Please connect another USB interface of computer or change another USB cable. You may also try a different computer. If the issue persists, please contact us for assistance.
- Q: U2/U2 PRO can not work after connecting with phone?
A: Please check whether the phone and the connection cable you use support OTG function, and some phones need to open the OTG option and set the output device in the settings. For iPhone, you need to use a camera kit that supports large current, some camera kits require a separate power supply. And we cannot guarantee compatibility with all phones, as some phones lack built-in drivers.
- Q: Why is there no sound output after the optical / coaxial output is connected to DAC or amplifier?
A: Please ensure that the connected DAC or amplifier is set to the correct input mode and supports the sampling rate and bit depth being output. Files above 192kHz can be played normally but there is no sound?
A: The bandwidth of the optical/coaxial connection supports a maximum of 192kHz/24Bit. Files with higher sampling rates cannot be transmitted normally.
Q: There is no sound output when browsing webpage video, but the FOobar play is normal.
A: Please close FOobar: you can click the small speaker in the lower right corner of the desktop ->play device ->double-click the USB device, and select "Advanced" in the menu, and then uncheck the two check marks in exclusive mode.
Q: The computer can recognize U2/U2 PRO but the driver cannot be installed?
A: This is usually because the computer system lacks a digital signature patch or U2/U2 PRO has been banned by anti-virus software. Please install a lower version driver (such as version 2.15) or turn off the anti-virus software.
Q: The driver cannot be installed, and there is always an exclamation point on the device manager.
A: Please close the auto install driver function of your computer system, and then install USB driver from the equipped U-disk again.
Q: Why is U2/U2 PRO no longer recognized by the computer after working normally for a while, even though the driver was installed successfully?
A: The change and updation of computer system, software and hardware and security software may sometimes lead to driver loss, please reinstall the driver and try again.
Q: If I have previously installed a driver, do I need to uninstall it before installing the new one?
A: Yes, you should uninstall the previous driver before installing the new one.
Q: After installing the driver, why does the audio cut in and out intermittently?
A: Please ensure that all connections are secure. Also, check if the output sample rate is set too high and verify that the connected device supports the selected sample rate.
Q: There is some noise and the music sound is very low when playing DSD music?
A: Please set the computer system volume to 100; click the small speaker in the lower right corner of the computer ->play ->device ->double-click the USB device, and adjust the volume to 100.

- Q: Why is there no sound output when playing DSD music via coaxial output?
A: The coaxial can only output DSD in DOP mode, and the coaxial port of the connected decoder must also support DOP DSD decoding, otherwise there will be no sound.
- Q: The volume of DSD playing is lower than PCM playing?
A: This is normal, the sound of DSD is 3dB smaller than PCM.
- Q: The DSD indicator doesn't light up when playing DSD music?
A: There is something wrong with the player software settings, please carefully follow the player settings guidance.
- Q: Why do the sampling rates of music and the actual display are different?
A: The sampling rate displayed on the U2/U2 PRO is the real-time sampling rate of the playback device. If not match, please switch the output sampling rate in the settings of playback device.
- Q: Do I need to install a driver if I don't intend to play DSD files?
A: No. On Windows 10 or later, no driver installation is required.
- Q: The U2/U2 PRO will work driver-free for PCM playback (up to 384kHz).
A: XMOSS only can show 24Bit/192kHz in the computer?
- Q: This is because the computer system can only display up to 192kHz. But in fact using Foobar2000 ASIO can play DSD128 PCM/768kHz.
- Q: Why can't my device operate at the highest sampling rate listed in the parameters?
A: The parameters indicate the maximum supported sampling rate, not the constant operating rate. The actual sampling rate depends on your audio source and playback device output.
- Q: Can I use two digital interfaces on the same computer simultaneously?
A: No. Although multiple USB ports are available, the system can only select one output device at a time.

Vorder- und Rückseite

U2

- ① DSD64-Anzeige
- ② USB-Typ-C-Eingang
- ③ Abtastratenanzeige:
Rotes Licht: 192 kHz/176,4 kHz
Grünes Licht: 96 kHz/88,2 kHz
Blaues Licht: 48 kHz/44,1 kHz
- ④ Koaxialausgang
- ⑤ Optischer TOSLINK-Ausgang

U2 PRO

- ①~⑤ Anzeige der Abtastrate
- ① Blau: 44,1/48 kHz; Rot: DSD64
- ② Blau: 88,2/96 kHz; Rot: DSD128
- ③ Blau: 176,4/192 kHz; Rot: DSD256
- ④ Blau: 352,8/384 kHz; Rot: DSD512
- ⑤ Blau: 705,6/768 kHz
- ⑥ USB-Typ-C-Eingang
- ⑦ HDMI-IIS-Ausgang
- ⑧ Optischer TOSLINK-Ausgang
- ⑨ Koaxialausgang
- ⑩ UAC 1.0/2.0-Modusschalter (Der gewählte Modus wird erst nach einem Neustart wirksam)
- ⑪ HDMI-IIS-Pinbelegung

Arbeitsschritte

1. Schließen Sie DAC, Digitalverstärker, Aktivlautsprecher oder andere digitale Geräte an den koaxialen/optischen Ausgang des U2 oder den koaxialen/optischen/HDMI-IIS-Ausgang des U2 PRO an. Wenn Sie das mitgelieferte optische Kabel verwenden, um den Ausgang des U2/U2 PRO und andere Geräte zu verbinden, entfernen Sie bitte die Staubschutzkappen von beiden Enden des mitgelieferten optischen Kabels.
2. Dem U2/U2 PRO liegt ein 2-in-1-USB-A/USB-C-auf-USB-C-Kabel bei, das OTG-Funktionalität unterstützt. Schließen Sie das USB-C-Ende an den Eingang des U2/U2 PRO an. Verwenden Sie je nach Bedarf entweder den USB-A- oder den USB-C-Anschluss, um Audioquellen wie Smartphone, Tablet, Laptop, PC, PS5, Switch oder Media Player usw. anzuschließen.
3. Nach erfolgreicher Verbindung mit der Audioquelle und dem Back-End-Gerät schaltet sich der U2/U2 PRO automatisch ein und die entsprechende Abtastratenanzeige leuchtet auf. Wenn die Anzeige nicht Ihrer erwarteten Abtastrate entspricht oder ausgeschaltet bleibt, überprüfen Sie bitte die Einstellungen Ihrer Audioquelle oder Ihres Back-End-Geräts.
4. Um die Kompatibilität mit verschiedenen Geräten sicherzustellen, können Sie beim U2 PRO den UAC 1.0/UAC 2.0-Modus durch Umschalten des Modusschalters an der Unterseite umschalten. Starten Sie nach dem Umschalten den U2 PRO neu, damit der neue Modus wirksam wird.
 - (1) UAC 1.0-Modus: Geeignet für PS5 und Switch. Kein Treiber erforderlich, Plug-and-Play. Unterstützt PCM 44,1-96 kHz.
 - (2) UAC 2.0-Modus: Geeignet für Hi-Fi-Audiowiedergabe und DSD-fähige Geräte. Erfordert Treiberinstallation. Unterstützt PCM 44,1-768 kHz; DSD (nativ) 64-512; DSD (DOP) 64-256.

Warme Tipps

1. Der U2/U2 PRO unterstützt Windows 10/11, macOS, Android und iOS. Für Windows-Systeme ist eine Treiberinstallation erforderlich, für macOS nicht. Um mögliche Kompatibilitätsprobleme zu vermeiden, wird von der Verwendung von Windows 7/8 oder allgemeinen Linux-Systemen abgeraten. Linux-basierte Audiosysteme wie Daphile, Volumio und ROON werden unterstützt.
2. Der U2 PRO unterstützt den Oszillatoraustausch. Der standardmäßige aktive 5032-Oszillator mit 24.000 MHz \pm 20 PPM kann durch rechteckige DIP-4P-Plug-in-Oszillatoren oder aktive 5030-SMD-Oszillatoren ersetzt werden. Oszillatoren mit höherer Präzision reduzieren Jitter und verbessern die Audioleistung.
3. Der U2 PRO verfügt über einen standardmäßigen IIS-Differenzialausgang mit LVDS-Unterstützung und dem Standard-IIS-Protokoll, das mit den meisten DACs kompatibel ist.
4. Bitte beachten Sie, dass der U2/U2 PRO nur 2.0-Kanal-Stereo-Audio unterstützt. Mehrkanalformate wie 5.1, 7.1 oder Dolby werden nicht unterstützt.
5. Die USB-Verbindung nutzt synchrone Übertragung; asynchrone Übertragung wird nicht unterstützt.
6. U2/U2 PRO unterstützt keine MQA-Dekodierung.

フロントパネルとリアパネル

U2

- ① DSD64インジケータ
- ② USB Type-C入力
- ③ サンプリングレートインジケータ:
赤色点灯: 192kHz/176.4kHz
緑色点灯: 96kHz/88.2kHz
青色点灯: 48kHz/44.1kHz
- ④ 同軸出力
- ⑤ TOSLINK光出力

U2 PRO

- ①~⑤ サンプリングレートインジケータ
- ① 青色: 44.1/48kHz, 赤色: DSD64
- ② 青色: 88.2/96kHz, 赤色: DSD128
- ③ 青色: 176.4/192kHz, 赤色: DSD256
- ④ 青色: 352.8/384kHz, 赤色: DSD512
- ⑤ 青: 705.6/768kHz
- ⑥ USB Type-C入力
- ⑦ HDMI-IIS出力
- ⑧ TOSLINK光出力
- ⑨ 同軸出力
- ⑩ UAC 1.0/2.0モードスイッチ (選択したモードは再起動後に有効になります)
- ⑪ HDMI-IISピン配列

操作手順

1. DAC, デジタルアンプ, アクティブスピーカー、その他のデジタル機器を U2の同軸/光出力、またはU2 PROの同軸/光/HDMI-IIS出力に接続します。付属の光ケーブルを使用してU2/U2 PROの出力と他の機器を接続する場合は、付属の光ケーブルの両端のダストキャップを外してください。
2. U2/U2 PROには、OTG機能に対応した2-in-1 USB-A/USB-C to USB-C ケーブルが付属しています。USB-C端子をU2/U2 PROの入口に接続します。必要に応じて、USB-AまたはUSB-Cコネクタを使用して、スマートフォン、タブレット、ノートパソコン、PC、PS5、Switch、メディアプレーヤーなどのオーディオソースを接続します。
3. オーディオソースとバックエンドデバイスの両方に正常に接続されると、U2/U2 PROは自動的に電源がオンになり、対応するサンプリングレートインジケータが点灯します。インジケータが想定したサンプリングレートと一致しない場合、または消灯した場合は、オーディオソースまたはバックエンドデバイスの設定を確認してください。
4. U2 PROでは、底面のモードスイッチを切り替えることで、UAC 1.0/UAC 2.0モードを切り替えることができ、様々なデバイスとの互換性を確保できます。モード切り替え後、新しいモードを有効にするには、U2 PROを再起動してください。
 - (1)UAC 1.0モード: PS5およびSwitchに対応。ドライバー不要、プラグアンドプレイ。PCM 44.1-96kHzに対応。
 - (2)UAC 2.0モード: 高音質オーディオ再生およびDSD対応デバイスに適しています。ドライバーのインストールが必要です。PCM 44.1-768kHz、DSD (ネイティブ) 64-512kHz、DSD (DOP) 64-256kHzに対応。

ヒント

1. U2/U2 PROは、Windows 10/11、macOS、Android、iOSに対応しています。Windowsシステムではドライバーのインストールが必要ですが、macOSでは必要ありません。互換性の問題を回避するため、Windows 7/8、または汎用Linuxシステムの使用は推奨しません。Daphile、Volumio、ROONなどのLinuxベースのオーディオシステムはサポートされています。
2. U2 PROは発振器の交換に対応しています。標準の24,000MHz \pm 20PPM 5032アクティブ発振器は、DIP-4P長方形プラグインアクティブ発振器または5030 SMDアクティブ発振器に交換できます。高精度の発振器はジッターを低減し、オーディオ性能を向上させます。
3. U2 PROは、LVDSレベルをサポートする標準IIS差動出力を備え、標準IISプロトコルに準拠しているため、ほとんどのDACと互換性があります。
4. U2/U2 PROは2.0チャンネルステレオオーディオのみに対応しています。ご注意ください。5.1、7.1、ドルビーなどのマルチチャンネルフォーマットはサポートされていません。
5. USB接続は同期転送を使用します。非同期転送はサポートされていません。
6. U2/U2 PROはMQAデコードをサポートしていません。

東莞商事合同会社

☎ 〒274-0071 千葉県船橋市習志野1-9-29コーポ高橋205号
☎ TEL : 050-5326-3894
✉ E-mail : tysj_online@yahoo.co.jp
営業日: 平日10-17時 ※ 土日祝祭日はお休みをいただいております。
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