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maono PS22 USB-C Audio Interface

maono PS22 USB-C Audio Interface User Manual

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User Manual

ProStudio 2×2 Audio Interface For C<>m utar & Smart hon&

Maono['manou], meaning "vision" in Kiswahili, is the Global Best Selling Internet Microphone Brand that products are sold well in 153 countries worldwide. With the beautiful vision of becoming a global leading brand of Internet audio products that deliver a pleasant sound experience, Maono is always working with audio professionals, influencers, and users, to make the world's best microphones and audio products.

Thanks for choosing Maono PS22 Audio Interface.
Please read the User manual carefully to have a better using experience.

Packing List

- Maono PS22 Audio
- Interface 1/4 Inch to3.5mm Headphone
- Adapter USB-C to C Cable
- USB-A to C Cable
- User Manual

Description

Maono ProStudio PS22 streaming audio interface is the ultimate solution for recording high-quality audio and connecting to a wide range of equipment. Featuring premium preamps with up to 60dB of gain range, 24-bit/192 kHz sample rate, and 2-in/2-out | configuration, the PS22 delivers studio-level sound for your audio and music production. Unlike the traditional audio interface, PS22 supports smartphone connectivity via either USB-C or 3.5mm TRRS connection. Whether you're a musician, podcaster, streamer, or content creator, the PS22 is the perfect tool to take your audio production to the next level.

Features

- Premium Mic Preamps with up to 60dB of gain range

- 24-bit/192 kHz Sample Rate

- 2-in/2-out with two combo XLR/Instrument/Line-In inputs

- Dual USB-C Connectivity

- 3.5mm Output|

- Pass-thru charging for select mobile devices

- Two virtual in and two virtual out channels

- Advanced Routing software

- Monitor Mix with Mono/Stereo Switch

- All metal chassis

Applications
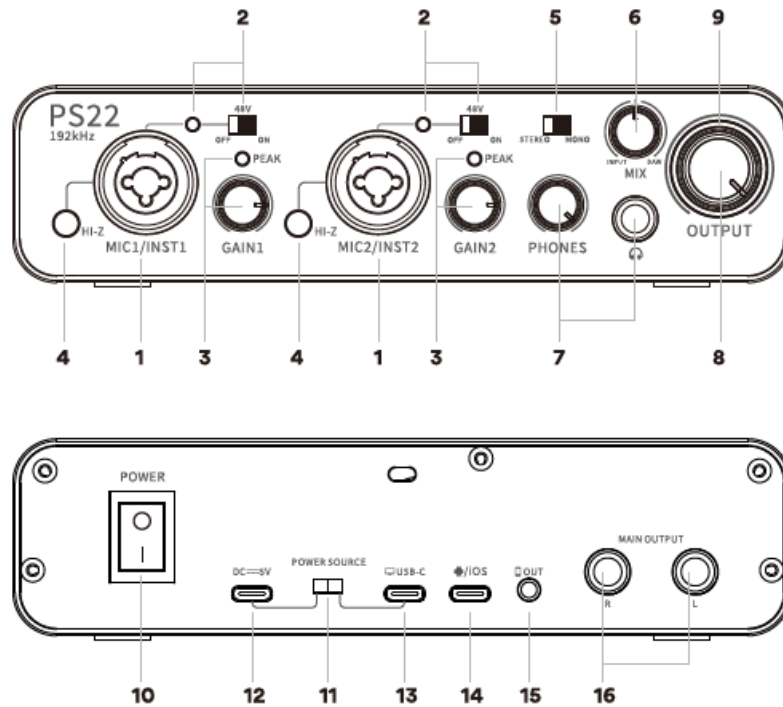Vocal and instrument recording, podcasting, streaming.

Specification

Sample Rate	
Main USB-C	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
Secondary USB-C	48kHz
Microphone Inputs	
Frequency Response	20Hz~20kHz, ±0.25dB
Dynamic Range	105dB (A-weighted)
THD+N Ratio	0.0035%
Noise Ein	-127dB (A-weighted)
Max Input Level	-5dBu
Gain Range	6~+60dB
Impedance	3.3KΩ

Line Inputs	
Frequency Response	20Hz~20kHz, ±1dB
Dynamic Range	104dB (A-weighted)
THD+N Ratio	0.0035%
Max Input Level	8dBu
Gain Range	-6~48dB
Impedance	13.5KΩ
Instrument Inputs	
Frequency Response	20Hz~20kHz, ±2dB
Dynamic Range	102dB (A-weighted)
THD+N Ratio	0.01%
Max Input Level	0dBu
Gain Range	3~57dB
Impedance	100KΩ
Main Outputs	
Frequency Response	20Hz~20kHz, ±0.1dB
Dynamic Range	103dB (A-weighted)
THD+N Ratio	0.0045%
Max Output Level	8dBu
Impedance	600Ω
Headphone Outputs	
Frequency Response	20Hz~20kHz, ±0.5dB
Dynamic Range	102dB (A-weighted)
THD+N Ratio	0.0055%
Max Output Power	100mW
Impedance	18Ω
I/O	
USB	2 x USB 2.0 Type-C connector
Power Supply	
Phantom Power	48V, 6mA
USB-C Input	5V
MAX Current	1A
Connector	USB Type-C
Weight and Dimensions	
W x H x D	"178mm x 46mm x 125mm / 7.00in x 1.81in x 4.92in"
Weight	"645g 1.42lb"

Layout

1.

PS22
192kHz

2 2 5 6 9

48V OFF ON · PEAK · 48V OFF ON · PEAK · STEREO MONO · INPUT DAW MIX · ⌀ · OUTPUT

HI-Z MIC1/INST1 GAIN1 HI-Z MIC2/INST2 GAIN2 PHONES

4 1 3 4 1 3 7 8

POWER

DC=5V POWER SOURCE USB-C /IOS OUT MAIN OUTPUT R L

10 12 11 13 14 15 16

Combo XLR input 1&2 – Connect microphones, instruments (e.g., guitar), or line level inputs. Each input accepts both XLR and ¼" (6.35 mm) jacks. Connect microphones using XLR plugs; Connect instruments and line level inputs using a TS or TRS ¼" (6.35 mm) jack. To protect the circuitry, ¼" (6.35 mm) microphone input is not supported, please use a XLR to XLR cable to connect your microphone.

2. Phantom power switch and LED indicator for combo XLR input 1&2 – Each switch enables 48V phantom power at XLR plug of the corresponding combo input. The LED indicator turns red if the phantom has been turned on.

3. GAIN 1, GAIN 2, and PEAK – Adjust the preamp gain for signals on inputs 1 and 2 respectively. The PEAK LED indicator shows signal level in three colors: green indicates a normal input level, orange indicates the signal is close to clipping, red indicates clipping. Please keep your input in the green zone to avoid clipping.

4. HI-Z Switch – Line/Instrument level switches for each input which provides proper gain and input impedance for different inputs. Press down the switch for the instrument and press it again for the line level signal.

5. STEREO/MONO – Switch for monitoring settings. In MONO mode, Inputs 1 and 2 are routed equally to the left and right channels of nain outputs and headphone outputs. This mode is suited for most applications. In STEREO mode, Input 1 is routed to the left output channel and Input 2 to the right. Select this mode if you are using a stereo recording setup. If you are using Maono ProStudio software to set up the routing, we recommend leaving it in STEREO mode for more flexibility.

6. Monitor mix – Control the output mix that you will listen to via headphones or main output. By default, the knob is set to the 12 o'clock position, allowing for 50% of direct monitoring alongside 50% DAW(computer playback). You can choose to hear a different ratio of two sources by adjusting the knob. For more detailed explanation, please refer to the Monitor Mix section of the manual.

7. Headphone jack and level – Connects headphones with ¼" TRS plug and adjusts the output level. If your headphones have a 3.5 mm headphone jack, you need to use the included headphone adapter.

8. Main output level – Adjusts the output level at the main (rear panel) outputs L and R.

9. Status LED ring – Turns green if the device is powered on.

10. Power switch – Turn to I' to power on and turn to 'O' to power off. 11. POWER source switch – Set how the device is powered. When switched to the left, the device will be externally powered and it switched to right, the device will be bus powered. For more detailed explanation, please refer to the Powering the device section of

the manual.

11. Power input – When switched to the externally powered mode, connect a 5V- 2A power supply to power the device.

12. USB-C Data & Power for PC/Mac – Connects to the computer. In bus powered mode, it provides both data transfer and power. Requires driver installation on Windows.

13. USB-C for Mobile Devices – Only offers data transfer. Does not require a driver. Fixed 16bit/48kHz sample rate.

14. 3.5mm TRRS output – Duplicates the main output signal. Can be used to connect to a phone to do live streaming via a TRRS to TRRS cable (not included).

15. MAIN OUTPUT: L and R – 2 x ¼" (6.35 mm) TRS jack sockets; Accept either ¼" TRS (balanced connection) or TS (unbalanced connection) plugs.

Connection Guide
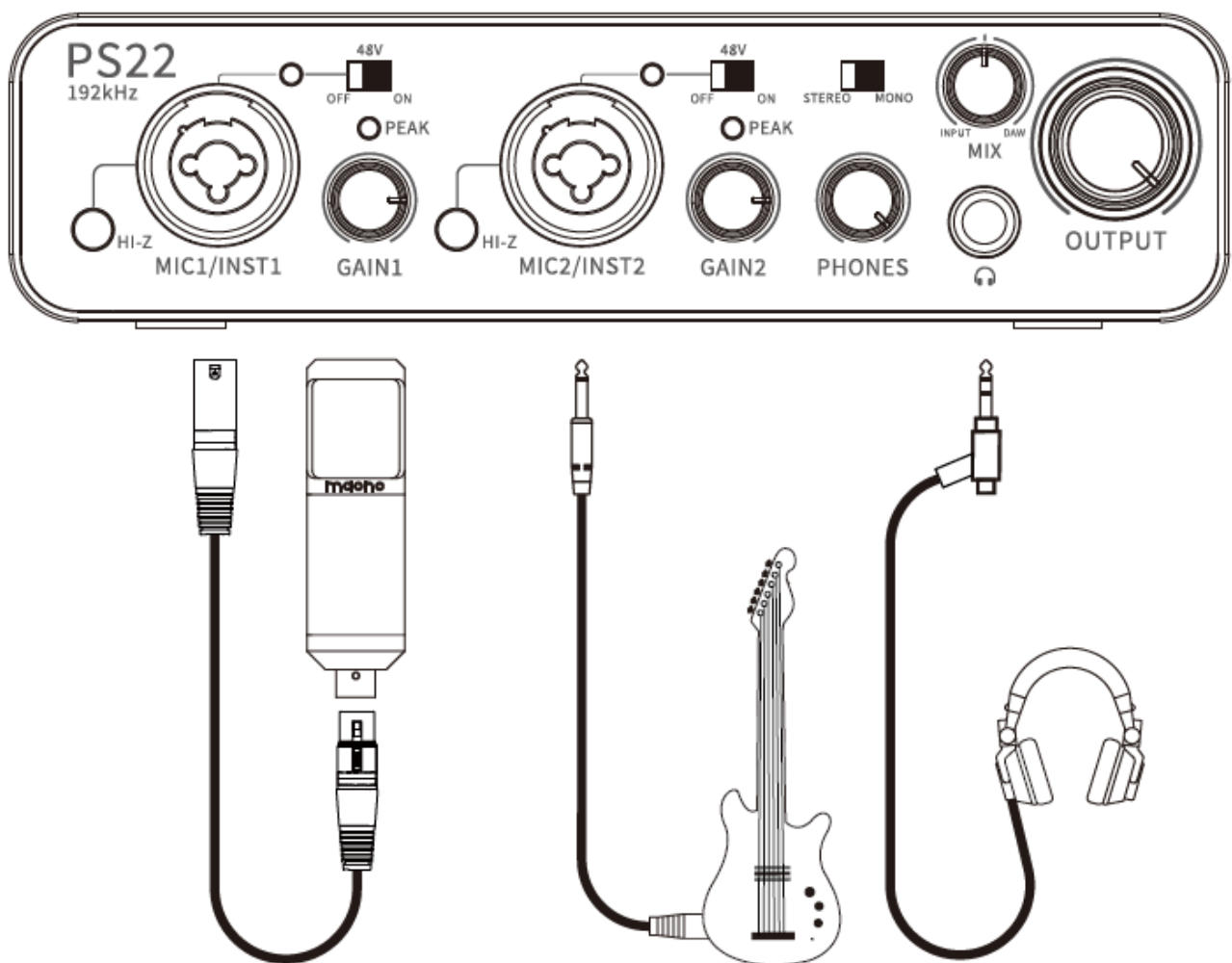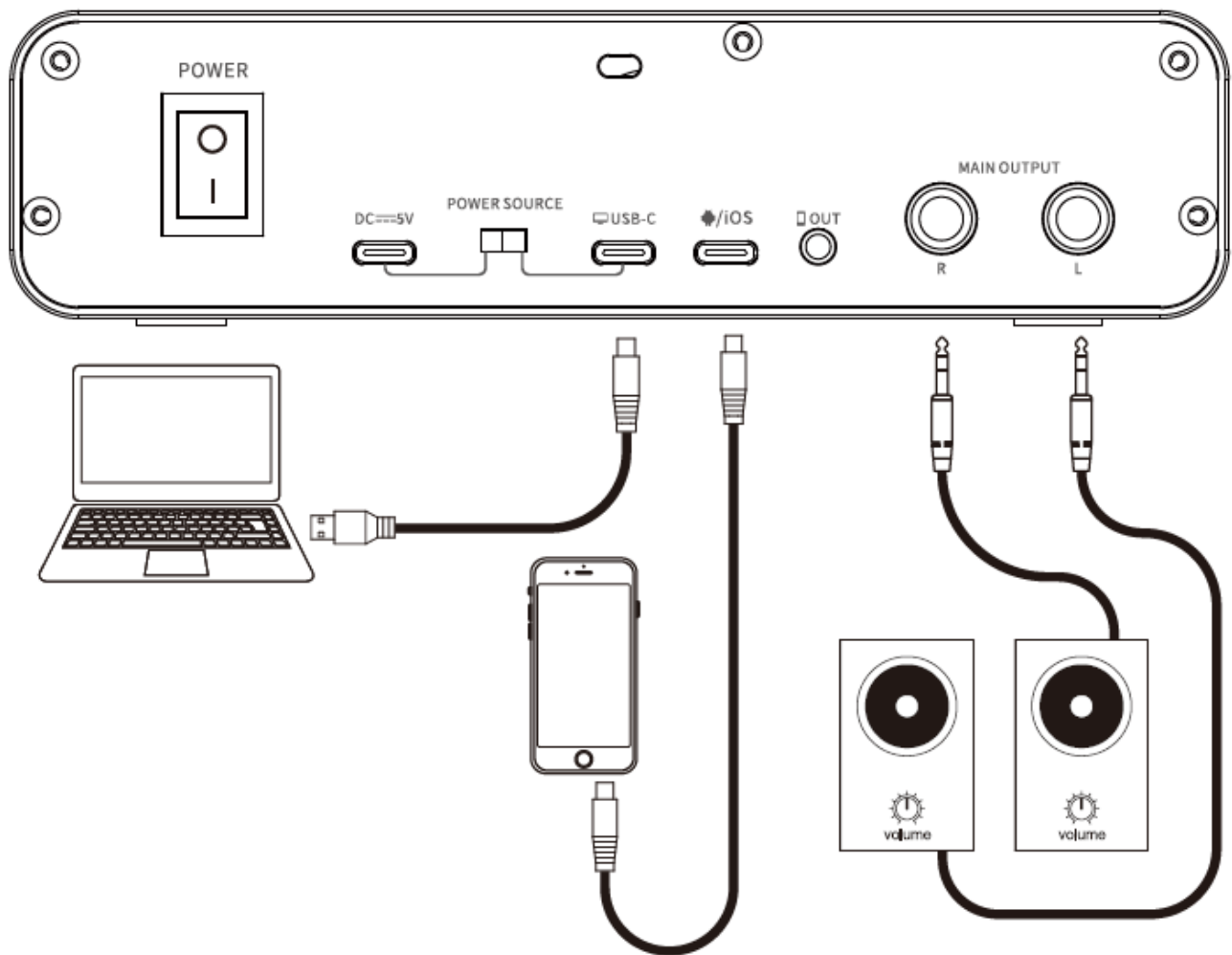
Powering the device
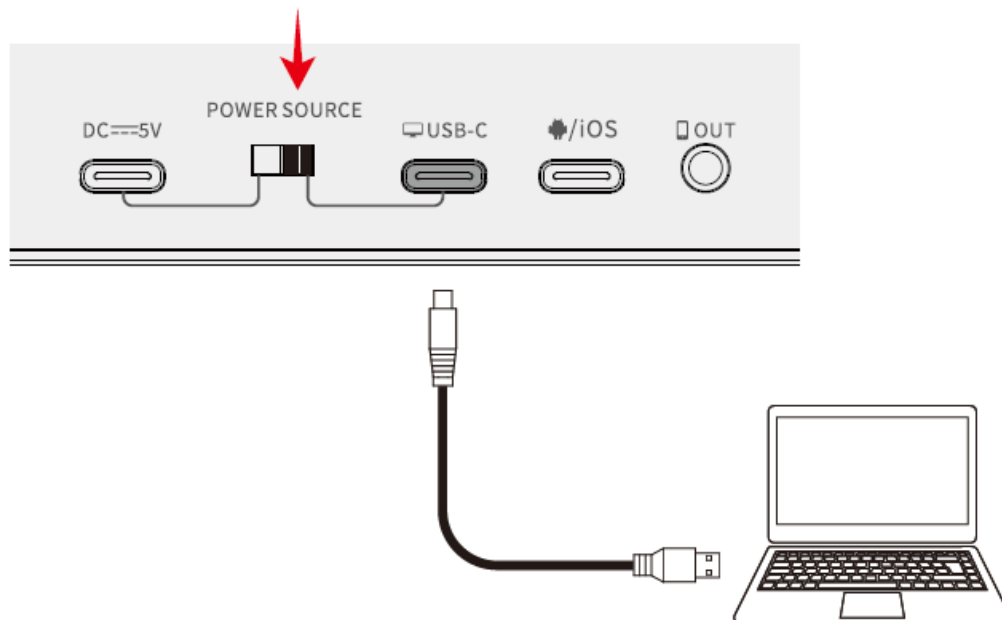
When using the device with a PC or Mac. Make sure the power source is switched to PC. PS22 audio interface will be bus-power in this mode. No external power supply is required.
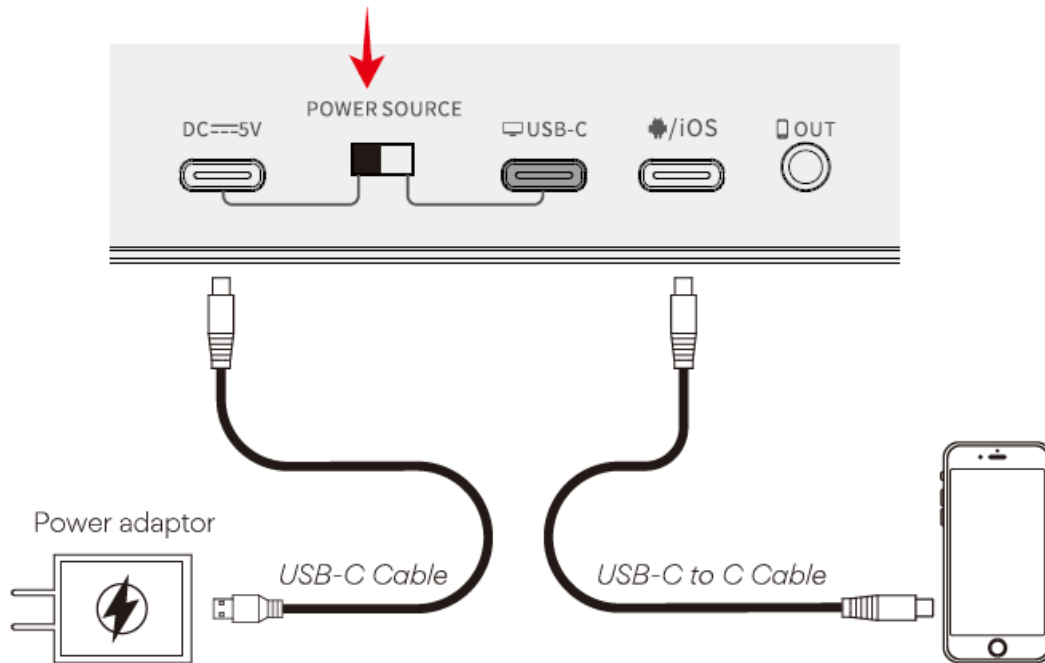
When using the device with a tablet or cellphone, external power supply is needed. Make sure the power is switched to DC power and connect a 5V=2A power supply as diagram show above.

Setting up the device on your Operating System macOS:
Your OS should automatically switch the computer's default audio inputs & outputs to the ProStudio 2×2. To verify this, go to System Preferences > Sound, and ensure that the input is set to 'Maono In 1/2' and the output is set to 'Maono Out 1/2'.
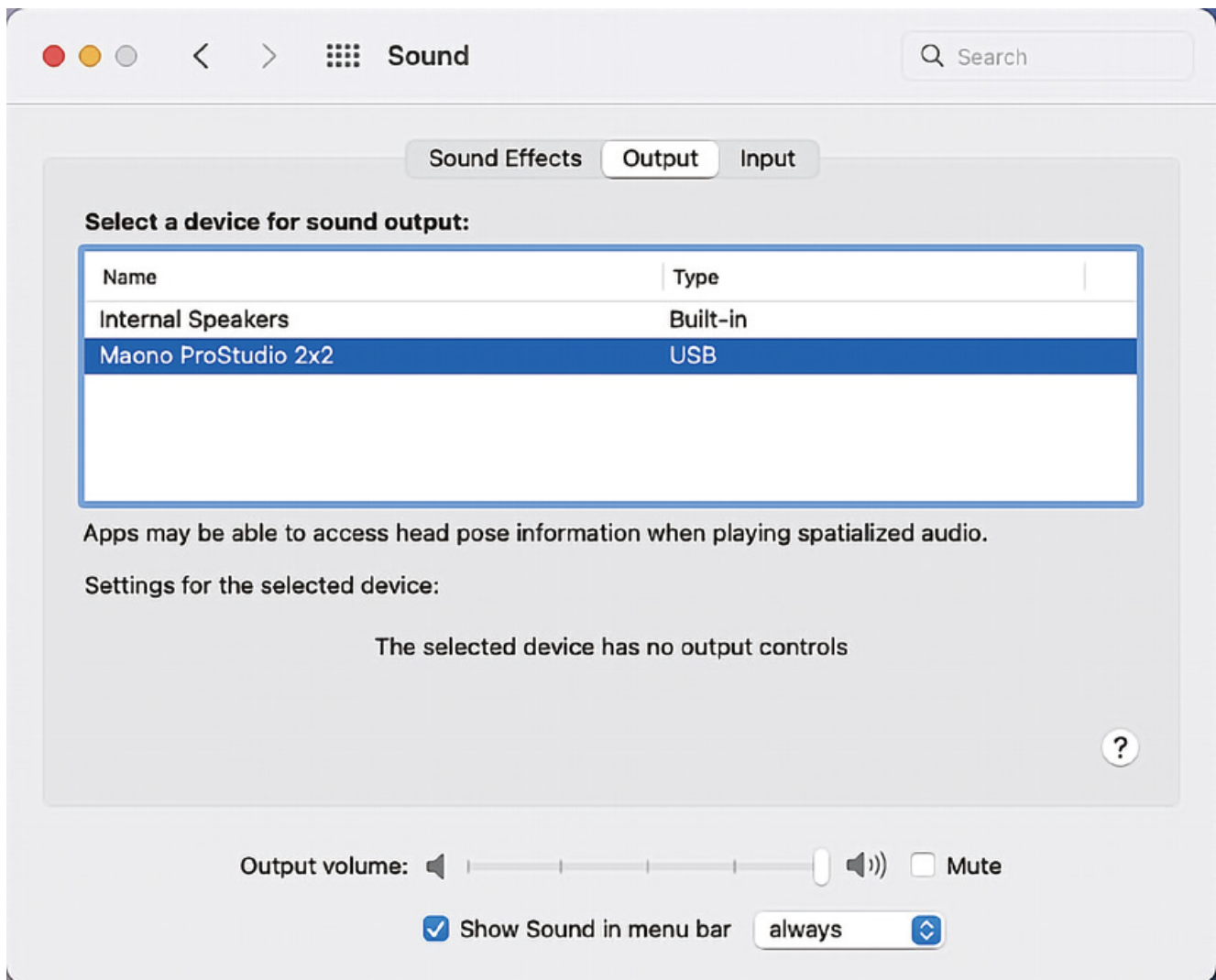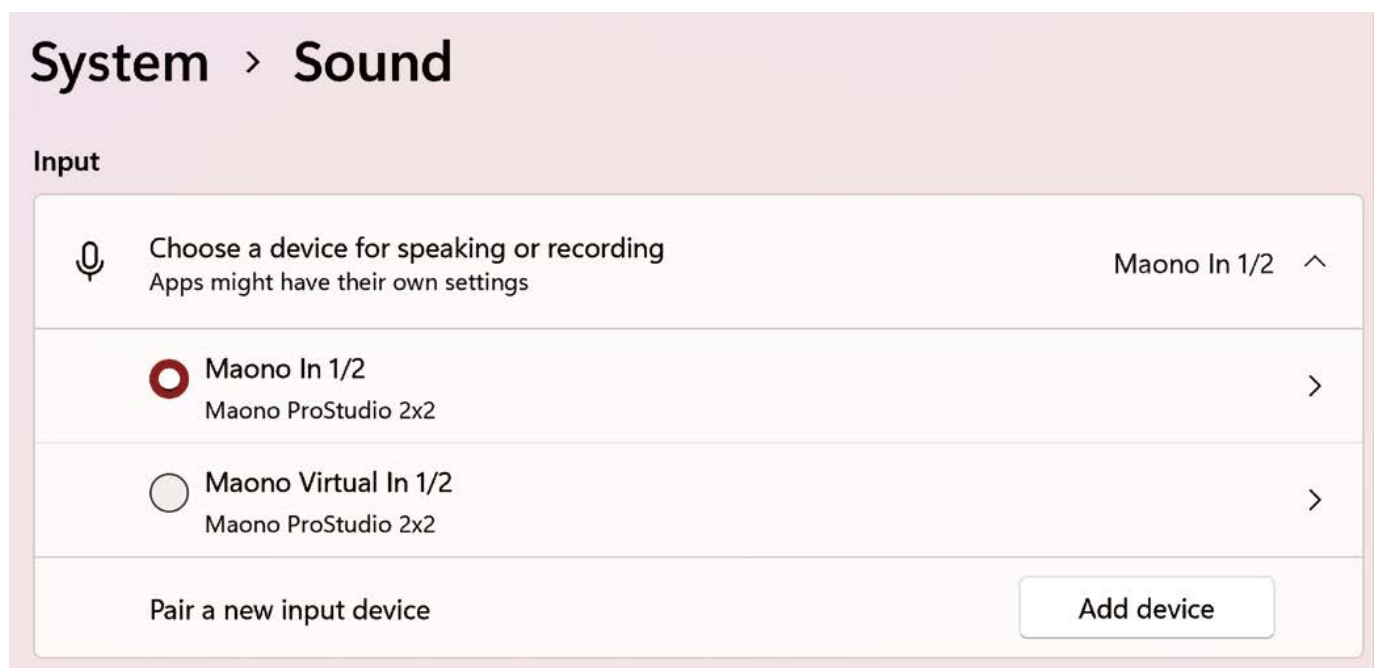
Windows:
Download the Maono ProStudio software and driver from the Support – Manual and Drivers sections on **https://maono.com** and install per instructions.

After installation, your OS should automatically switch the computer's default audio inputs & outputs to the ProStudio 2×2. To verify this go to: Start > Settings > System > Sound and ensure the input is set to 'Maono In 1/2' and the output is set to 'Maono Out 1/2' This menu location may vary based on the version of Windows you are using.

Setting up the device in your DAW software
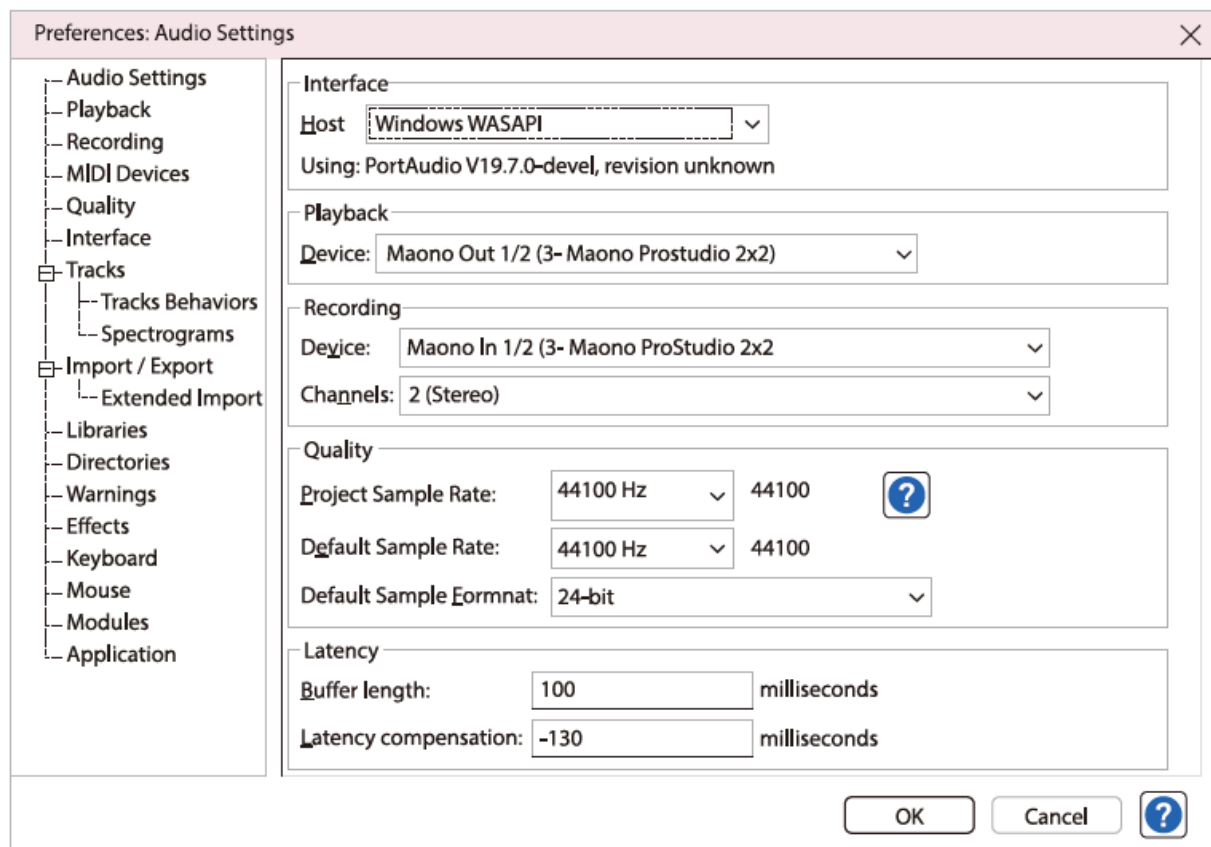
Set the Playback and Recording device to the Maono Out 1/2 and Maono In 1/2 respectively. The above example is Audacity. For instructions with other DAW, please go to Support – Manual and Drivers sections on the **https://maono.com**

Monitor mix

The Monitor Mix is the output mix that you will listen to via headphones or main output. ProStudio 2×2 has this feature to provide flexibilities in your recording and streaming setup. By default, the knob is set to the 12 o'clock position, allowing for 50% of direct monitoring alongside 50% DAW(computer playback). You can choose to hear a different ratio of two sources by adjusting the knob.

INPUT   DAW

MIX
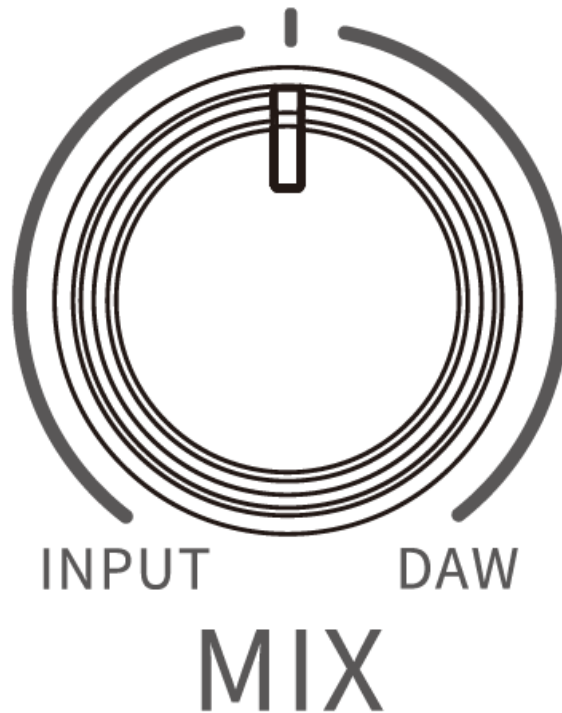
Only Using Direct Monitoring (aka. Real-time Monitoring, Zero-Latency Monitoring)

By turning the knob all the way to the left, only input signals via combo jacks are routed to the ProStudio 2×2's headphone and main monitor outputs. You can only hear the input signal. Tips: Please ensure that the DAW software is not set to route its input to its output when using Direct Monitoring, as this may cause a delayed echo effect if the knob is not all the way left.

No Monitoring and Playback only

By turning the knob all the way to the right, Direct Monitoring is turned off completely. You can only hear the computer playback from USB-C input.

Using DAW Monitoring

In your DAW software, ensure the signals you want to hear are routed to the ProStudio's headphone or main monitor outputs. Then turn the monitor mix knob all the way to the right. Depending on the computer performance and your setup, you may experience latency of the input signals to pass through your computer and audio software. If latency is crucial in your application, please consider using the Direct Monitoring option.

Maono Routing Center and ProControl Panel
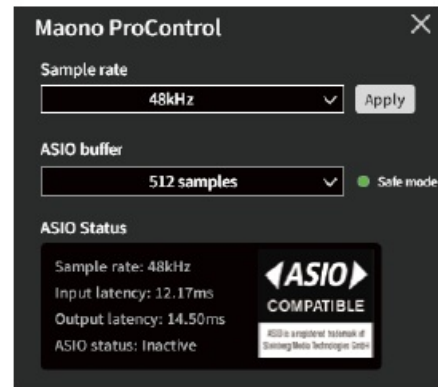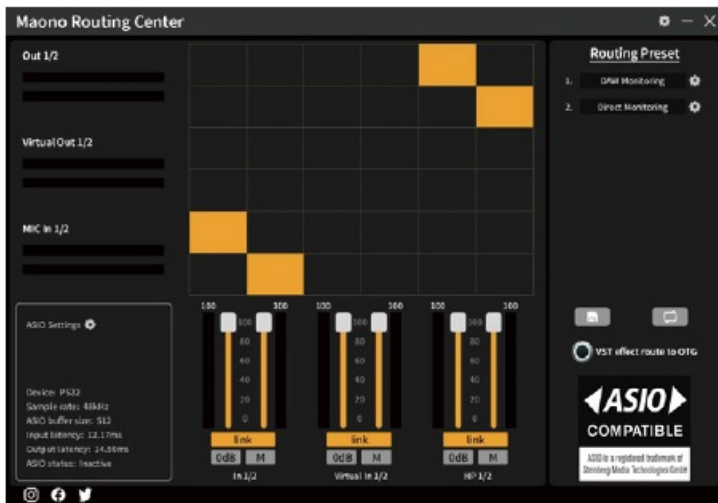
You can utilize the Maono Routing Center and ProControl Panel for more advanced setup. By default, they will be installed alongside the Windows driver. For software downloading and detailed software guide, please go to Support – Manual and Drivers sections on **https://maono.com**

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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.

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.

IC Caution:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and

2. This device must accept any interference, including interference that may cause undesired operation of the device.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Documents / Resources

	maono PS22 USB-C Audio Interface [pdf] User Manual PS22 USB-C Audio Interface, PS22, USB-C Audio Interface, Audio Interface, Interface

References

- **User Manual**