swissonic

Audio 2

User Manual

Audio Interface

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Table of contents

1 General information **5**

1.1 Symbols and signal words 5

2 Safety instructions **7**

3 Features **9**

4 Installation and starting up **10**

4.1 System requirements 11

4.2 Hardware installation 11

4.3 Driver and software installation 11

5 Connections and controls **15**

6 Technical specifications **19**

7 Plug and pin assignments **22**

8 Protecting the environment **25**


PEAK
MAX
GAIN
swissonic Audio 2
PEAK
HI-Z
CH1 Line/MIC/INSTR CH2
MAX
DAW
TOPMIX
+48V
MONO
HI-Z
PHAN
STEREO
POWER
MAX
OUTPUT
PHONES

1 General information

This document contains important instructions for the safe operation of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. Make sure that it is available to all those using the product. If you sell the product to another user, be sure that they also receive this document.

Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is ready for download under *www.thomann.de*.

1.1 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this document.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – danger zone.

2 Safety instructions

Intended use

This device serves to convert analogue audio signals to digital audio signals and vice versa. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety



DANGER!

Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children could play with.



WARNING!

Possible hearing damage due to high volumes on headphones!

The use of headphones at high volumes may result in permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage. Avoid operating headphones at high volumes, in particular over an extended period of time.

NOTICE!

Damage to the device if operated in unsuitable ambient conditions!

The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors within the ambient conditions specified in the "Technical specifications" chapter of this user manual. Avoid operating it in environments with direct sunlight, heavy dirt and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluctuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.

NOTICE!

Danger of short circuit due to use of unbalanced XLR cables!

The device has a phantom voltage input. Using unbalanced cables with the phantom power may damage the device. Use only balanced cables. Before switching on phantom power, always make sure that no unbalanced wired cables are connected.

NOTICE!

Possible staining due to plasticiser in rubber feet!

The plasticiser in the rubber feet of this product may react with the coating of the floor, resulting in permanent dark stains after a while. If necessary, use a suitable mat or felt pads to prevent direct contact between the product's rubber feet and the floor.

3 Features

- Receiver for the digital transmission of audio signals
- High conversion rate
- Resolution: 24 bit
- Sampling rate: 192 kHz
- 2 × analogue microphone/line/instrument input as a XLR/6.35 mm jack combo socket (balanced) with HI-Z switch
- 2 × analogue line output as a 6.35 mm jack socket (3-pin, balanced)
- Headphone output as a 6.35 mm jack socket with volume control
- Smartphone connection as a 3.5 mm jack socket (4-pin, stereo)
- Direct monitoring: can be switched between mono and stereo mode
- Phantom power when condenser microphones are in use
- Master volume control
- Supports Windows® 10 and later with ASIO 2.0, MME, WDM and DirectSound support
- Supports macOS® via native CoreAudio USB audio drivers from Apple® (no driver installation required)
- Power supply via USB connection (2.0, type B), USB bus-powered (cable included)

4 Installation and starting up

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.



Turn off the phantom power before connecting the device or changing cable connections on the device.

Only turn on the phantom power when using a condenser microphone. Otherwise leave the phantom power switched off at all times.

4.1 System requirements

Use one of the following operating systems to enable the optimal use of the device:

- PC: Windows® 10 and later
- Mac: macOS® 10.15.7 and later

The computer must have at least one free USB 2.0 port.

4.2 Hardware installation

The device is connected to a USB port on the computer with the supplied cable and run directly on the power delivered via the port.

4.3 Driver and software installation

After it is connected to the computer, the operating system will automatically detect the device and usually install the correct USB audio driver.

All applications that don't require any special, professional ASIO driver can already be used, e.g. DVD players or DJ applications in Windows® or simple applications e.g. Garageband in MacOS®.

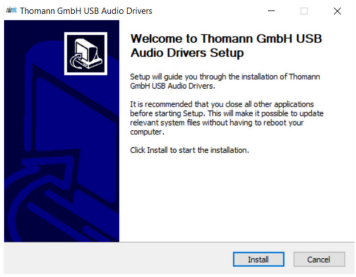
4.3.1 Installation in Windows®

To use all the features of the applications, install the USB audio driver as follows:

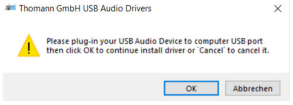
1. Disconnect the USB cable from the computer.
2. Download the driver from the product page of our homepage *www.thomann.de*.
3. Launch the installation program *'Thomann GmbH USB Audio Drivers_setup_WHQL.exe'* by double-clicking.
4. When the installation programme starts, Window shows a safety notification. Click *[More Information]*, and then click *[Run Anyway]* to allow the installation.



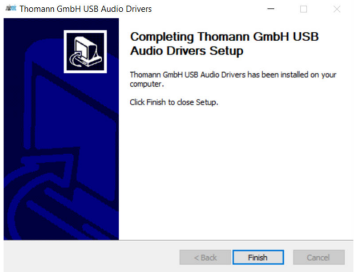




5. Click *[Install]* to start the installation. The USB audio driver data are copied onto the computer.



6. When prompted to do so at the end of the installation, connect the USB device and click *[OK]* to proceed with the installation or *[Cancel]* to cancel the installation.



7. Click *[Finish]* to complete the installation.

⇨ The device is operational.

4.3.2 Installation in macOS®

macOS® supports native CoreAudio USB audio drivers, so no installation is necessary.

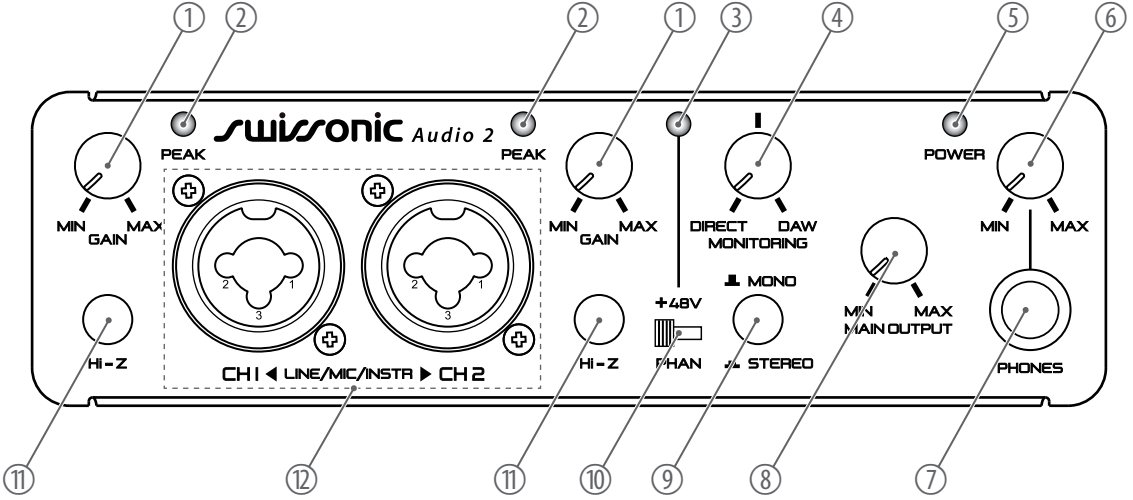
1. Connect the audio interface to the computer's USB port. After it is connected to the computer, the USB audio driver will automatically detect the device and make the necessary changes.

⇨ The device is operational.

2. It is also possible to control some device options under macOS® via the macOS® audio MIDI configuration.

5 Connections and controls

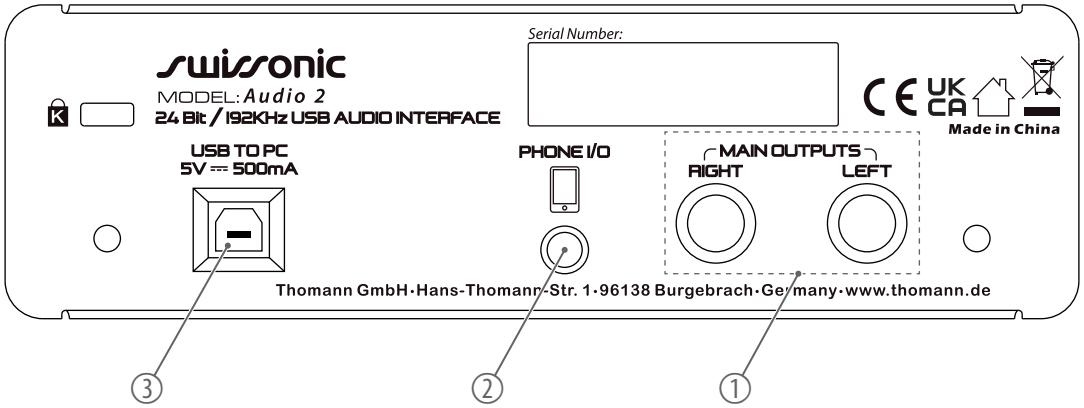
Front



1	*[GAIN] - [MIN] / [MAX]* | Setting the input level on the respective input
2	*[PEAK]* | The LED lights up green when the input level on the respective input is sufficient, and lights up red when the input level is too high. This setting can be corrected with the corresponding *[GAIN]* control.
3	*[+48 V]* | The LED lights up red when the phantom power is switched on.
4	*[MONITORING]* | Rotary control for controlling the input monitoring ■ *[DIRECT]*: Incoming signals can be heard directly ■ *[DAW]*: Incoming signals are audible via DAW ■ Middle position of the controller: Incoming signals are audible directly and via DAW
5	*[POWER]* | The LED lights up green when the device is powered via the USB port.
6	*[MIN] / [MAX]* | Control for adjusting the listening volume of the headphones
7	*[PHONES]* | Headphone output (stereo, 6.35 mm jack socket)
8	*[MAIN OUTPUT] - [MIN] / [MAX]* | Control for adjusting the master volume
9	*[MONO] / [STEREO]* | Button for switching between mono and stereo mode
10	*[PHAN]* | Switches the phantom power supply for the 48 V power supply for condenser microphones on (slider left) or off (slider right) The phantom power will damage the device if unbalanced lines are connected. Only switch on phantom power if all connected cables are balanced. Turn off the phantom power when connecting a device to *[CH1]* or *[CH2]* that does not support phantom power. Switch off the phantom power when making changes to the cable connections. Turn the *[GAIN]* controls of inputs *[CH1]* and *[CH2]* to minimum before turning on the phantom power.

11	*[HI-Z]* | Pushbutton for setting the input sensitivity (line or microphone level) when an electric guitar or an electric bass with a passive pickup is connected to *[CH1]* or *[CH2]*
12	*[CH1 / CH2]* | Microphone/line/instrument input, e.g. for microphone, electric guitar, electric bass or other audio source with line signal, designed as XLR/6.35 mm jack combo sockets

Back



1	*[MAIN OUTPUTS] - [RIGHT] / [LEFT]* | Line outputs for connecting an amplifier or an active speaker, designed as a 6.35 mm jack socket (mono, balanced) for the left and right channels
2	*[PHONE I/O]* | Connection for the smartphone headphone output, designed as a 3.5 mm jack socket (4-pin, stereo) The audio signals of the smartphone are output internally, the audio signals of the external microphone on the audio interface are transmitted to the smartphone via this socket.
3	*[USB TO PC] [5V 500 mA]* | USB-B connection for power supply and for importing digital audio signals with the supplied cable

6 Technical specifications

Input connections	Line/Mic/Inst	2 × XLR/6.35 mm jack combo socket (balanced) with Hi-Z switch
		Input impedance: 33 kΩ…1 MΩ
	Power supply/AUX	1 × USB port, 2.0, type B (compatible with 1.1)
	Phone I/O	1 × 3.5 mm jack socket, 4-pin, stereo
Output connections	Headphones	1 × 6.35 mm jack socket, 3-pin, stereo
		Impedance: ≥32 Ω
	Line	2 × 6.35 mm jack socket, mono, balanced
		Output impedance: <100 Ω
Frequency range		20 Hz…20 kHz (±3 dB)
Signal-to-noise ratio		>98 dB
Total harmonic distortion (THD)		< 0.002% (A-weighted)
Dynamic range		106 dBu (A-weighted)
Gain		50 dB
Supported sampling rates		44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
Resolution		16 bit, 24 bit

Phantom power		48 V
Operating voltage/current		5 V ⎓ / min. 500 mA, via USB port
Operating system		Windows® 10 and later, macOS® 10.15.7 and later
Dimensions (W × H × D)		145 mm × 44 mm × 110 mm
Weight		0.6 kg
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	20%…80% (non-condensing)

Further information

S-PDIF interfaces	No
ADAT interfaces	No
AES / EBU interfaces	No
MADI connections	No
Ethernet	No
MIDI interface	No
USB bus-powered	Yes
Power supply included	No
USB version	2.0
Monitoring without latency	Yes

7 Plug and pin assignments

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment in such a way that a perfect sound experience is ensured.

Please note these advices, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into the socket, an incorrect connection may result in a destroyed power amp, a short circuit or 'just' in poor transmission quality!

Balanced and unbalanced transmission

Unbalanced transmission is mainly used in semi-professional environment and in hifi use. Instrument cables with two conductors (one core plus shielding) are typical representatives of the unbalanced transmission. One conductor is ground and shielding while the signal is transmitted through the core.

Unbalanced transmission is susceptible to electromagnetic interference, especially at low levels, such as microphone signals and when using long cables.

In a professional environment, therefore, the balanced transmission is preferred, because this enables an undisturbed transmission of signals over long distances. In addition to the conductors 'Ground' and 'Signal', in a balanced transmission a second core is added. This also transfers the signal, but phase-shifted by 180°.

Since the interference affects both cores equally, by subtracting the phase-shifted signals, the interfering signal is completely neutralized. The result is a pure signal without any noise interference.

1/4" TS phone plug (mono, unbalanced)



1	Signal
2	Ground, shielding

1/4" TRS phone plug (mono, balanced)



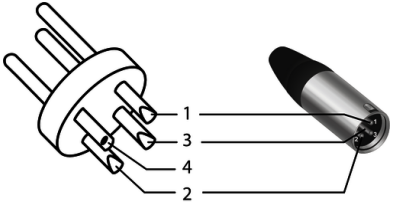
1	Signal (in phase, +)
2	Signal (out of phase, –)
3	Ground

Four-pin 3.5 mm jack plugs (stereo, unbalanced)



1	Signal (left)
2	Signal (right)
3	Ground
4	Microphone

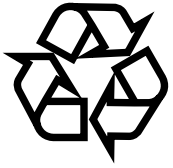
XLR plug (balanced)



1	Ground, shielding
2	Signal (in phase, +)
3	Signal (out of phase, –)
4	Shielding on plug housing (option)

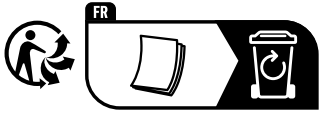
8 Protecting the environment

Disposal of the packing material



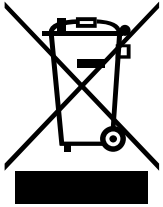
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

Do not dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the instructions and markings on the packaging.



Observe the disposal note regarding documentation in France.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. If in doubt, consult your local waste management facility. You can also return the device to a retailer if they offer to take the device back for free or if they are legally obliged to do so. When disposing of the device, comply with the rules and regulations that apply in your country. You can also return your old device to Thomann GmbH at no charge. Check the current conditions on *www.thomann.de*.

Proper disposal protects the environment as well as the health of your fellow human beings. This is because the proper handling of old devices negates the potential negative effects of hazardous substances, and because it conserves resources by recycling them.

Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal. For example, use the classified ads of Thomann GmbH.

If your old device contains personal data, delete those data before disposing of it.