

User Manual



USB Mix 2

Mixer

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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 – high-voltage.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used for amplification, mixing and playback of signals from musical instruments and microphones. 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.



DANGER!

Danger to life due to electric current!

Within the device there are areas where high voltages may be present. Never remove any covers. There are no user-serviceable parts inside. Do not use the device when covers, safety equipment or optical components are missing or damaged.



DANGER!

Danger to life due to electric current!

A short circuit could lead to a fire hazard and risk of death. Always use proper ready-made insulated triple-core mains cable with a safety plug. Do not modify the mains cable or the plug. In case of isolation damage, disconnect immediately the power supply and arrange repair. If in doubt, seek advice from a qualified electrician.



WARNING!

Possible hearing damage due to high volumes on speakers or headphones!

With speakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage. Do not operate the device permanently at a high volume level. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment.



NOTICE!

Risk of fire due to covered vents and neighbouring heat sources!

If the vents of the device are covered or the device is operated in the immediate vicinity of other heat sources, the device can overheat and burst into flames. Never cover the device or the vents. Do not install the device in the immediate vicinity of other heat sources. Never operate the device in the immediate vicinity of naked flames.



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!

Damage to the external power supply due to high voltages!

The device is powered by an external power supply. The external power supply can be damaged if it is operated with the incorrect voltage or if high voltage peaks occur. In the worst case, excess voltages can also cause a risk of injury and fires. Make sure that the voltage specification on the external power supply matches the local power grid before plugging in the power supply. Only operate the external power supply from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). As a precaution, disconnect the power supply from the power grid when storms are approaching or if the device will not be used for a longer period.



NOTICE!

Possible staining due to plasticiser in rubber feet!

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

3 Features

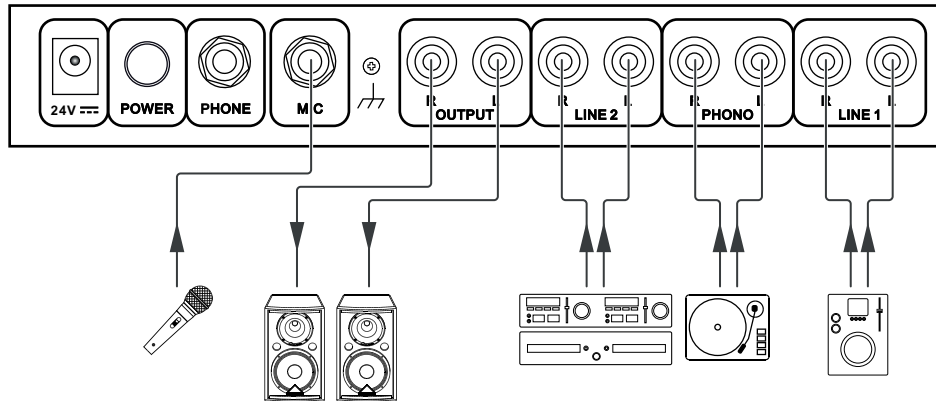
- 2-channel DJ mixer with USB player and FX
- 2 × stereo inputs: 1 phono / line input (RCA sockets), 1 line / input (RCA sockets)
- 1 × USB port
- 1 × microphone input (1/4" phone sockets)
- 1 × headphones output (stereo, as 1/4" phone jack)
- 1 × master output (RCA sockets)
- 1 × USB port for playback

4 Installation

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.

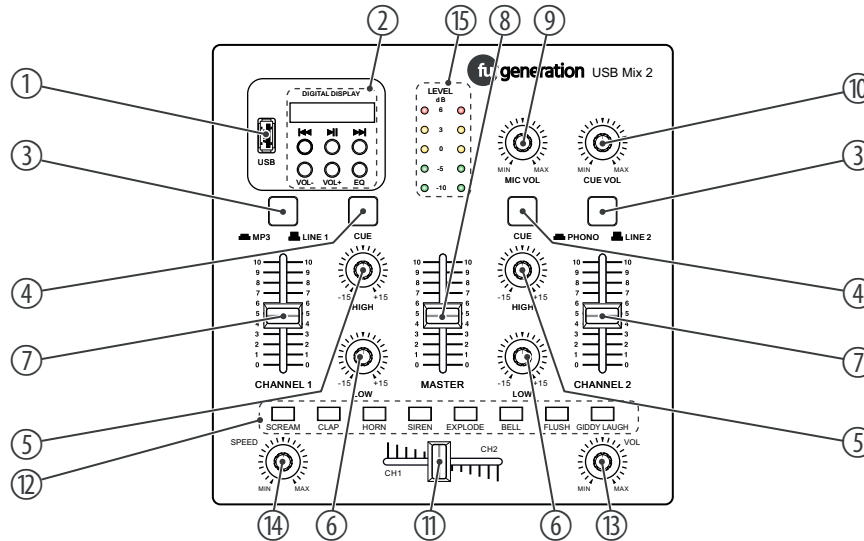
Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

Connection options



5 Connections and controls

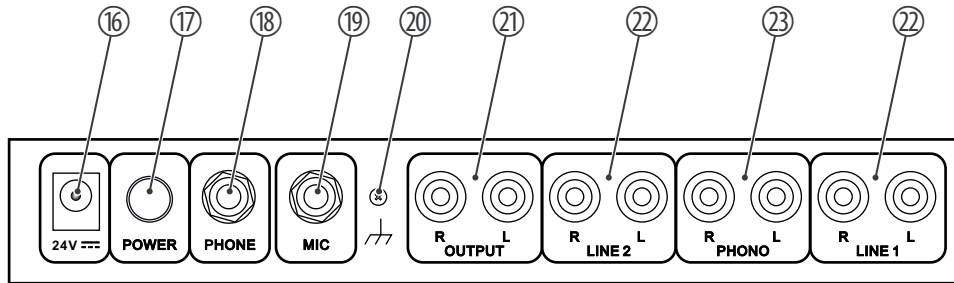
Front



1	<i>[USB]</i> Connection for recording or playback via a USB device.
2	Display and operation of the MP3 player
	▶ Starts or pauses playback.
	▶▶ Selects the next track for playback.
	◀◀ Selects the previous track for playback.
	<i>[VOL+]</i> Increases the volume of the music being played.
	<i>[VOL-]</i> Decreases the volume of the music being played.
	<i>[EQ]</i> EQ selection.
3	<i>[MP3/LINE 1]/[PHONO/LINE 2]</i> Selection switch for selecting the input source of the respective channel.
4	<i>[CUE]</i> Selects the channel that can be heard through the headphones.
5	<i>[HIGH]</i> Rotary control for adjusting the high frequencies in the input channel.
6	<i>[LOW]</i> Rotary control for adjusting the low frequencies in the input channel.
7	<i>[CHANNEL 1/CHANNEL 2]</i> Controls for adjusting the volume of the respective channel.
8	<i>[MASTER]</i> Control for adjusting the master output volume.
9	<i>[MIC VOL]</i> Rotary control for adjusting the volume of the microphone input signal.
10	<i>[CUE VOL]</i> Rotary control for adjusting the headphone volume.

11	Crossfader. Control for mixing the signals of the left and right channels. If the controller is in middle position, both channels can be heard.
12	Sound effects. 8 pre-programmed special sound effects
13	[VOL] Rotary control for adjusting the sound effects volume.
14	[SPEED] Rotary control for adjusting the sound effects pitch.
15	Level indicator. Shows the volume of the output channel or the currently selected solo channel

Back



- | | |
|----|--|
| 16 | [24 V] ~ Socket for connecting a power adapter. |
| 17 | [POWER] Main switch. Turns the device on and off. |
| 18 | [PHONE] Output for connecting headphones. |
| 19 | [MIC] Microphone input, designed as 6.3-mm jack socket. |
| 20 | Grounding screw to reduce hum noise when connecting turntables. |
| 21 | [OUTPUT] Master output for connecting an amplifier, designed as cinch sockets. |
| 22 | [LINE 2 / LINE 1] Inputs for line level signals (e.g., CD, DVD, MP3), designed as cinch sockets. |
| 23 | [PHONO] Inputs for signals with phono level (e.g. turntables), designed as cinch sockets. |

6 Technical specifications

Input connections	Power supply		Power adapter
	Microphone input	Type	6.3-mm jack socket
		Impedance	2.2 k Ω
	Line input	Type	4 \times Cinch sockets
		Impedance	47 k Ω
	Phono/line input	Type	2 \times Cinch sockets
		Impedance	47 k Ω
USB port	Type	USB-A	
Output connections	Master output	Type	2 \times Cinch sockets
		Impedance	600 Ω
	Stereo headphone output	Type	6.3-mm jack socket
		Level	10 dBu
		Impedance	16–32 Ω
Frequency range			20 Hz ... 20 kHz \pm 2 dB
Signal-to-noise ratio			> 70 dB

Technical specifications

Total harmonic distortion (THD)		< 0.02%
Power consumption		3.6 W
Power supply		External power adapter, 100 - 240 V ~ 50/60 Hz
Operating voltage		24 V $\overline{\text{---}}$ / 500 mA, centre positive
Dimensions (W × H × D)		207 mm × 206 mm × 50 mm
Weight		1.35 kg
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80%, non-condensing

7 Plug and connection assignment

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

RCA connection



Drawing and table indicate the pin assignment of an RCA plug.

1	Signal
2	Ground, shielding

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. When disposing of the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste management facility. Proper disposal protects the environment as well as the health of your fellow human beings.

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.

You can return your old device to Thomann GmbH at no charge. Check the current conditions on www.thomann.de.

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

