



fun generation Stagemix 400 Passive 2 Way Speaker User Manual

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fun generation Stagemix 400 Passive 2-Way Speaker



Specifications

- **Product Name:** Stagemix 400 PA System
- **Date:** 01.10.2024
- **ID:** 490591 (V3)

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.

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.

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

Type of danger

- High-voltage.
- Danger zone.

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.

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 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 a repair. If in doubt, seek advice from a qualified electrician.

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.

Possible hearing damage due to operating the device at a high volume!

The device can produce volume levels that, when operated at a high volume, may cause temporary or permanent hearing impairment. Over an extended period, even levels that seem to be uncritical can cause hearing damage. Avoid operating the device at excessively high volumes over an extended period. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment. If this is not possible, keep a greater distance or use adequate ear-muffs.

Risk of injury due to heavy weight!

The device is heavy. Lifting and dropping it during transport and installation can cause injuries. Make sure at least two people work together when transporting and installing the device.

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

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

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.

Damage to the device due to high voltages!

The device 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 device matches the local power grid before plugging in the device. Only operate the device from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). Ensure that the power cord plug is easily accessible at all times if it is the only device to safely disconnect the device from the main supply. As a precaution, disconnect the device from the power grid when storms are approaching or the device will not be used for a longer period.

Risk of fire due to installation of a wrong fuse!

Using fuses of a different type than compatible with the device may cause a fire and seriously damage the device. Only use fuses of the same type. Observe the labeling on the device casing and the information in the “Technical data” chapter.

Possible staining due to plasticizer in rubber feet!

The plasticizer 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 product's rubber feet and the floor.

Features

- 2 × passive 10-inch 2-way speaker
- 1 × removable 8-channel power mixer with 300 W RMS
- 1 × built-in storage compartment for speaker and power cables and the wired microphone
- For transport, the power mixer can be stored in the speakers
- Built-in media player for MP3 files from an SD card or USB stick

- Bluetooth® audio streaming
- 4 × mic/line input (XLR panel socket, 3-pin/6.35-mm jack socket)
- 2 × line input, stereo (6.35-mm jack socket/cinch socket, 3.5-mm jack socket)
- 1 × monitor output, stereo (6.35-mm jack socket/cinch socket)
- 2 × speaker output, stereo (6.35-mm jack socket)
- 1 × headphone output (3.5-mm jack socket)
- 2-band equalizer
- Built-in digital effects device
- Screw-type 35-mm speaker flange
- 2 × speaker cable (6 m) and 1 x wired microphone (cable length: 4.5 m) included in the scope of delivery

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 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.

NOTICE: Possible property damage to adjacent devices due to magnetic fields.

Speakers generate a static magnetic field. This magnetic field can affect other neighboring units and in unfavorable cases damage them. Ensure that speakers are always a sufficient distance away from sensitive equipment that may be affected by an external magnetic field.

NOTICE: Potential property damage due to unsuitable stands!

If the device is mounted on an unsuitable stand, there is a risk that the stand will fall over and cause damage. Only use stands whose maximum bearing capacity is at least as high as the weight of the device. Always ensure that the stand is stable.

Removing the power mixer

The power mixer is located in the back wall of one of the speakers. Release the locking mechanism on the top of the speaker and remove the power mixer.

Removing accessories

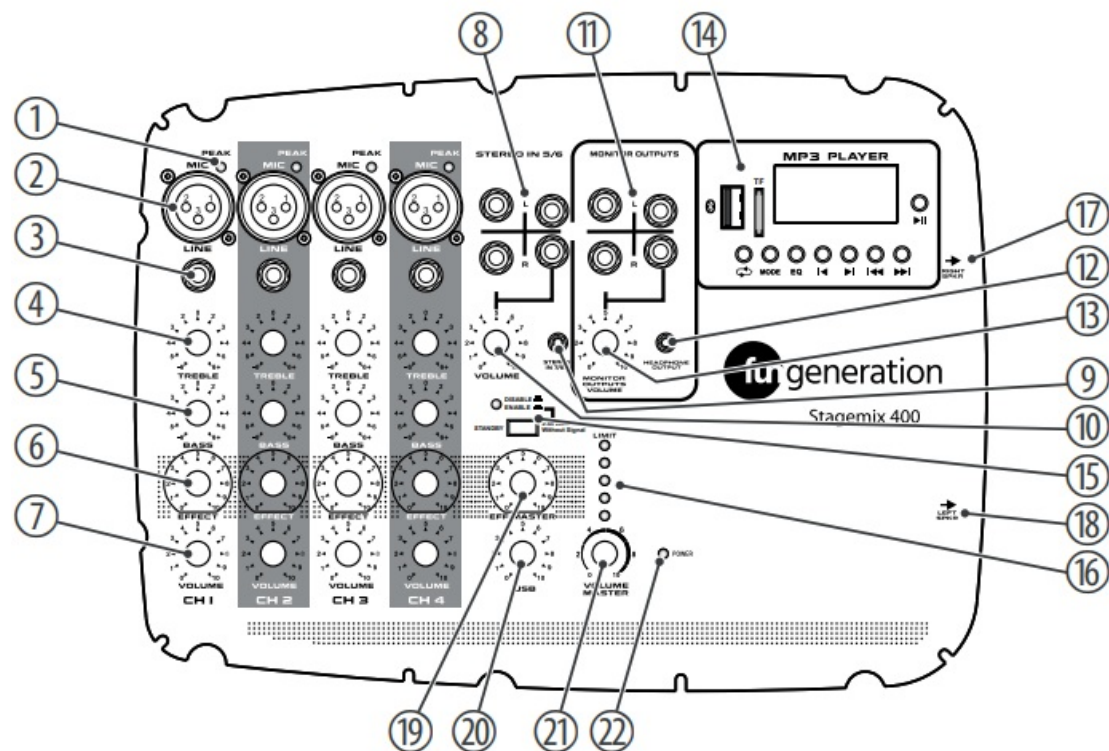
The accessories are located in a storage compartment in the other speaker. Release the locking mechanism on the top of the speaker and remove the back wall to remove the accessories.

Tips on handling speakers

We recommend you set up the speakers in a way, that the sound signals can reach the audience unobstructedly. It will often be helpful to mount the speakers on tripods. Thus, the sound will be evenly spread with maximum range throughout the audience area. Always use high-grade cables to connect your equipment. Otherwise, you won't reach maximum sound quality. For optimum results, both the impedance and power handling of the speakers must match the requirements of the amplifier. Always follow the technical specifications of the speakers! The overall impedance of the connected loudspeakers must not exceed the minimum output impedance of the amp. The amp's max. RMS output power should be 50 % above the power handling capacity of the connected speakers. If you notice distortion during operation, either the amp or the speaker is overloaded. This may permanently damage the amp or the speaker. Always reduce the volume when you hear distortion.

Connections and controls

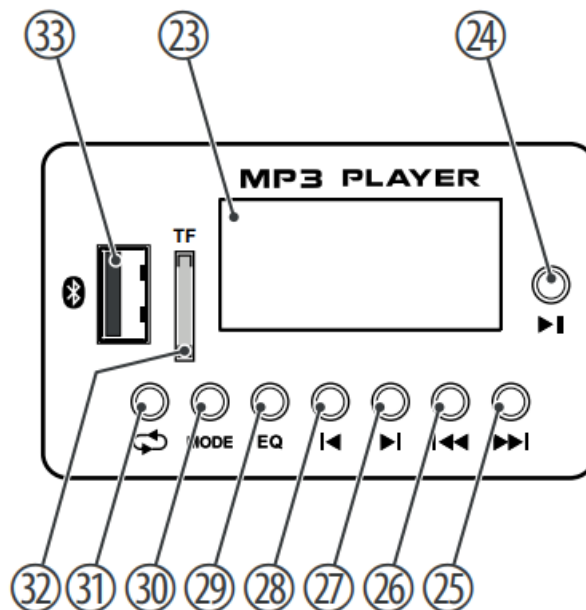
Front



1. [PEAK] | Status LED. The LED flashes if the signal of the input is overloaded.
2. [MIC] | Microphone input, designed as XLR input socket, 3-pin
3. [LINE] | Line input, designed as 6.35-mm jack socket
4. [TREBLE] | Rotary control for adjusting the high frequencies of the respective channel
5. [BASS] | Rotary control for adjusting the low frequencies of the respective channel
6. [EFFECT] | Rotary control for adjusting the signal portion sent to the internal effects section
7. [VOLUME] | Rotary control for adjusting the volume of the respective channel
8. [STEREO IN 5/6] | Signal input for channel 5/6, designed as 6.35-mm jack sockets or cinch sockets
9. [STEREO IN 7/8] | Signal input for channel 7/8, designed as 3.5-mm jack socket
10. [VOLUME] | Rotary control for adjusting the volume of the signal inputs for channels 5/6 and 7/8
11. [MONITOR OUTPUTS] | Signal output for connecting two active speakers, designed as 6.35-mm jack sockets or cinch sockets
12. [HEADPHONE OUTPUT] | Signal output for connecting a headset, designed as a 3.5-mm jack socket
13. [MONITOR OUTPUTS VOLUME] | Rotary control for adjusting the volume of the monitor outputs and the headphone output, regardless of the rotary control for adjusting the overall volume
14. [MP3 PLAYER] | For playing MP3 music files from an SD card or USB flash drive or via Bluetooth®
15. [STANDBY] | On/off switch for the standby function. If the standby function is enabled, the device automatically switches to standby mode after 25 minutes without any input signal on the instrument inputs. If only music files are played via the MP3 player, the device switches to standby mode after about 25 minutes. In standby mode, turn the on/off switch off and on again to turn the device back on again.
16. [LIMIT] | Status LED. The LEDs flash if the signals of the output level are overloaded.
17. Signal outputs for connecting the two included passive speakers, designed as 6.35-mm jack sockets.
18. The 6.35-mm jack sockets are located on the housing of the PA system.
19. [EFF MASTER] | Rotary control for adjusting the signal portion sent to the internal effects section
20. [USB] | Rotary control for adjusting the volume of the USB input
21. [VOLUME MASTER] | Rotary control for adjusting the master volume of the device (sum of all input signals)

22. [POWER] | Status LED. This LED lights up when the device is on.

23.



Display

24. Starts or pauses playback

25. Selects the next track of the last file for playback

26. Selects the previous track of the last file for playback

27. Selects the next track for playback

28. Selects the previous track for playback

29. [EQ] | Button for navigating through the digital equalizer presets that you can apply to the track. The equalizer can only be used when playing MP3 files from the connected USB flash drive or the connected SD card, not with other audio sources or inputs.

30. [MODE] | Selection of audio source (SD card, USB flash drive, or Bluetooth®)

31. Button for navigating through the repeat mode options: 'Random', 'Single', 'All'

32. [TF] | SD card slot

33. USB connection socket

Playback via Bluetooth®

You can use the built-in Bluetooth® receiver of the device to play music wirelessly from Bluetooth® devices such as smartphones, tablets, or laptops. Following the instructions for use for your Bluetooth® device. Place the Bluetooth® device near the speaker and turn it on.

1. Press ◀ or ▶ on the MP3 player repeatedly until the display shows 'BT'.

2. Confirm the selection with [MODE] or ▶||.

- The device is ready to connect to a Bluetooth® device.

3. Establish the connection with your Bluetooth® device.

- The device is displayed under the name 'Stagemix 400'.

4. After a successful connection, you can play the music files stored in the Bluetooth® device. Use the buttons of the built-in player for control.

Technical specifications

Configuration	1 × 10-inch speaker	
	1 × 1-inch compression driver	
Input connections	Power supply	Rubber panel plug C14 with fuse holder
	Mic input	4 × XLR panel socket, 3-pin
	Line input	1 × 3.5-mm jack socket
		2 × cinch socket
Output connections	Monitor output	6 × 6.35-mm jack socket
		2 × cinch socket
	Speaker output	2 × 6.35-mm jack socket
	Headphone output	1 × 3.5-mm jack socket
Output power		300 W (RMS)
Frequency range		40 Hz...20 kHz
Load capacity		240 W (RMS)
Sensitivity (1 W/1 m)		110 dB
Rated impedance		8 Ω
Sound pressure level (SPL)		max. 96 dB
Antenna gain		3.3 dB
Storage media		SD card, USB flash drive
Playback formats		MP3
Number of files, max.		64
Power consumption		200 W
Bluetooth®	Frequency range	2.402 GHz ... 2.480 GHz
	Max. transmission power	+4 dBm
	Standard	Version 5.0
	Name	Stagemix 400
Supply voltage		100 - 240 V ~ 50/60 Hz
Fuse		5 mm × 20 mm, 3.15 A, 250 V, slow blow
Dimensions (W × H × D) per speaker		315 mm × 500 mm × 300 mm
Weight (in total)		22.0 kg
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

Further information

Plastic housing	Yes
Including Powermixer	Yes
Including Power amplifier	No
Including Stand	No

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 this advice 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' poor transmission quality.

Balanced and unbalanced transmission

- Unbalanced transmission is mainly used in semi-professional environments and hi-fi use. Instrument cables with two conductors (one core plus shielding) are typical representatives of the unbalanced transmission. One conductor is ground and shielded 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

Three-pole 1/8" mini phone jack (stereo, unbalanced)

1.



Signal (left)

2. Signal (right)

3. Ground, shielding

XLR plug (balanced)

1. Ground, shielding

2. Signal (in phase, +)

3. Signal (out of phase, -)

4. Shielding on plug housing (option)

RCA connection drawing and table indicate the pin assignment of an RCA plug.

1. Signal

2. Ground, shielding

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 properly. 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, e-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. If your old device contains personal data, delete that data before disposing of it.

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FAQs


Q: Can the Stagemix 400 PA System be used outdoors?

A: The Stagemix 400 PA System is designed for indoor use. Using it outdoors may expose it to environmental damage.

Q: What should I do in case of a short circuit?

A: In case of a short circuit, disconnect the power supply immediately and seek advice from a qualified electrician for repair.

Documents / Resources

 User Manual PA System	fun generation Stagemix 400 Passive 2 Way Speaker [pdf] User Manual Stagemix 400 Passive 2 Way Speaker, Stagemix 400, Passive 2 Way Speaker, 2 Way Speaker, Speaker
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References

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