



fungeneration

Stagemix 400
PA system

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1 General information

This user manual contains important information on the safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to another user, be sure that they also receive this manual.

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under www.thomann.de.

1.1 Further information

On our website (www.thomann.de) you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.


Displays


Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'*, *'OFF'*.

1.3 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 manual.

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.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor 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 signs	Type of danger
	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!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard! Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke! Never let children unattended use electrical devices.



DANGER!

Electric shock caused by high voltages inside

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 if covers, protectors or optical components are missing or damaged.



CAUTION!

Possible hearing damage

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. 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 sufficient ear protectors.



NOTICE!

Risk of fire

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.



NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations. Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures). Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.



NOTICE!

Possible property damage by magnetic fields



Loudspeakers produce a static magnetic field. Therefore, maintain an appropriate distance to devices that can be adversely affected or damaged by an external magnetic field.



NOTICE!

Possible staining



The plasticiser contained in the rubber feet of this product may possibly react with the coating of your parquet, linoleum, laminate or PVC floor and after some time cause permanent dark stains. In case of doubt, do not put the rubber feet directly on the floor, but use felt-pad floor protectors or a carpet.

3 Features

- 2 × 10" passive 2-way box
- 1 × connected, detachable mixer
- 1 × built-in storage compartment for speaker and power cables and the wired microphone
- For transport, the power mixer can be stored in the boxes
- 8-channel power mixer with 300 W RMS
- Built-in media player for MP3 files from SD card or USB stick
- Bluetooth® audio streaming
- 4 × microphone input (XLR chassis socket, 3-pin)
- 4 × line input (1/4" phone jack)
- 2 × stereo input (1/4" phone jacks/RCA sockets, 3.5 mm mini phone socket)
- 1 × monitor output (1/4" phone jacks, RCA sockets)
- 2 × speaker output (1/4" phone jacks)
- 1 × headphones output (3.5 mm mini phone socket)
- 2-band equalizer
- Built-in digital effects device
- Screwable 35 mm speaker flange
- 2 × speaker cable (6 m) and 1 × wired microphone (4.5 m) included in the scope of delivery

4 Installation



NOTICE!

Possible property damage by magnetic fields

Loudspeakers produce a static magnetic field. Therefore, maintain an appropriate distance to devices that can be adversely affected or damaged by an external magnetic field.



NOTICE!

Use of stands

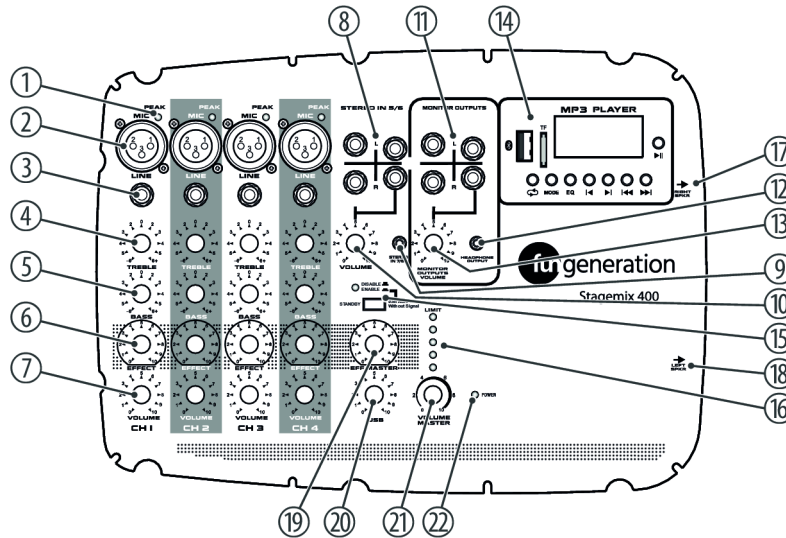
When mounting the device onto a stand, ensure that the stand is in a safe and stable position and that the weight of the device does not exceed the maximum permissible load capacity of the stand.

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.

5 Connections and controls

Front panel



Stagemix 400

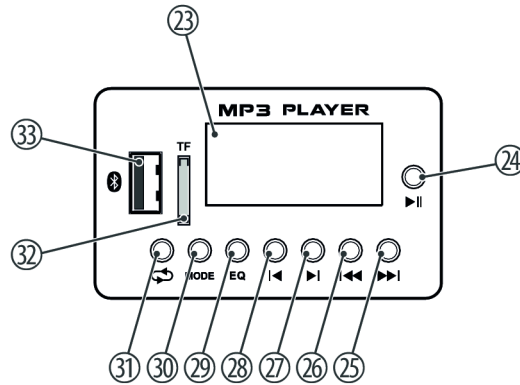
1	<i>[PEAK]</i> Status LED. The LED flashes if the signal of the microphone input is overloaded.
2	<i>[MIC]</i> Microphone input, designed as XLR input socket, 3-pin
3	<i>[LINE]</i> Line input, designed as 1/4" phone socket
4	<i>[TREBLE]</i> Rotary control for adjusting the high frequencies of the respective channel
5	<i>[BASS]</i> Rotary control for adjusting the low frequencies of the respective channel
6	<i>[EFFECT]</i> Rotary control for adjusting the signal portion, which is sent to the internal effects section
7	<i>[VOLUME]</i> Rotary control for adjusting the volume of the respective channel

8	<i>[STEREO IN 5/6]</i> Signal input for channel 5 and 6, designed as 1/4" phone jacks and RCA sockets
9	<i>[STEREO IN 7/8]</i> Signal input for channel 7 and 8, designed as 3.5 mm mini phone socket
10	<i>[VOLUME]</i> Rotary control for adjusting the volume of the channels 5...8
11	<i>[MONITOR OUTPUTS]</i> Signal output for connecting two passive speakers, designed as 1/4" phone jacks and RCA sockets
12	<i>[HEADPHONE OUTPUT]</i> Signal output for connecting a headset, designed as 3.5 mm mini phone socket
13	<i>[MONITOR OUTPUTS VOLUME]</i> Rotary control for adjusting the volume of the passive speakers
14	<i>[MP3 PLAYER]</i> To play MP3 music files from an SD card or USB stick or via Bluetooth®

15	<p><i>[STANDBY]</i></p> <p>On / off switch for standby function. If the standby function is enabled, the device automatically switches to standby mode after 25 minutes without any input signal at the instrument inputs.</p> <p>If only music files are played via the MP3 player, the device also automatically switches to standby mode after 25 minutes.</p> <p>In the standby mode, switch the on / off switch off and on again to enable the device.</p>
16	<p><i>[LIMIT]</i></p> <p>Status LED. The LEDs flash if the signals of the output level are overloaded.</p>
17, 18	<p>Signal output for connecting a headset, designed as 1/4" phone jack.</p> <p>The 1/4" phone jacks are located on the housing of the PA system.</p>
19	<p><i>[EFF MASTER]</i></p> <p>Rotary control for adjusting the signal portion, which is sent to the internal effects section</p>
20	<p><i>[USB]</i></p> <p>Rotary control for adjusting the volume of the USB input</p>





21	<i>[VOLUME MASTER]</i> Rotary control for adjusting the overall volume of the device (sum of all input signals)
22	<i>[POWER]</i> Status LED. This LED lights when the device is turned on.


Display



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	<i>[EQ]</i>	Button to navigate through the digital equalizer presets you can apply to the tune. The equalizer can only be used when playing MP3 files from the connected USB stick or from the connected SD card, not with other audio sources or inputs.
30	<i>[MODE]</i>	Selection of audio source (SD card, USB stick or Bluetooth®)

31	 Button to navigate through repeat mode options: <i>'Random'</i> , <i>'Single'</i> , <i>'All'</i> .
32	<i>[TF]</i> SD card slot
33	USB connection socket

6 Technical specifications

Speaker	1 × 10" speaker	
	1 × 1" compression driver	
Input connections	Power supply	IEC chassis plug C14 with fuse holder
	Microphone input	4 × XLR chassis socket, 3-pin
	Line input	2 × 1/4" jack socket
		2 × RCA socket
		1 × 3.5 mm mini phone socket
4 × 1/4" jack socket		
Output connections	Monitor output	2 × 1/4" jack socket
		2 × RCA socket
	Loudspeaker output	2 × 1/4" jack socket
	Headphones output	1 × 3.5 mm mini phone socket

Technical specifications

Output power	300 W (RMS)	
Frequency range	40 Hz ... 20 kHz	
Sound pressure level (SPL)	max. 96 dB	
Antenna gain	3.3 dB	
Storage media	SD card, USB stick	
Playback formats	MP3, WAV	
Power consumption	200 W	
Bluetooth®	Frequency of operation	2.400 GHz ... 2.4835 GHz
	Max. transmission power	+4 dBm
Supply voltage	100 - 240 V ~ 50/60 Hz	
Fuse	5 mm × 20 mm, 3.15 A, 250 V, slow-blow	
Dimensions (W × H × D)	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)

Plastic housing	Yes
Incl. power mixer	Yes
Incl. amplifier	No
incl. stand	No

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)



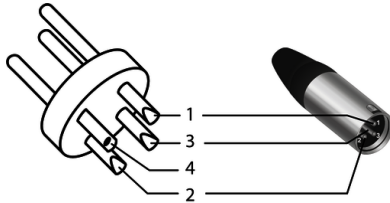
1	Signal (in phase, +)
2	Signal (out of phase, -)
3	Ground

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

8 Protecting the environment

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

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

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.



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