



ColumnMix

Active Speaker

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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 designed for sound reinforcement. 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 as knobs) that children could play with.



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.



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.



WARNING!

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 of time, even levels that seem to be uncritical can cause hearing damage. Avoid operating the device at excessively high volumes over an extended period of time. 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.



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 over-heat 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 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 mains supply. As a precaution, disconnect the device from the power grid when storms are approaching or if the device will not be used for a longer period.

**NOTICE!****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 labelling on the device casing and the information in the "Technical data" chapter.

**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 product's rubber feet and the floor.

3 Features

Special features of the device:

- Column system
- 1 × subwoofer (8-inch woofer), 1 × column speaker (4 × 2.5-inch tweeter), 2 × spacer modules
- Built-in media player with display, SD card slot, USB port and Bluetooth receiver
- 2 × mic/line input (XLR panel socket, 3-pin/6.35-mm jack socket) with adjustable echo effect
- 1 × line input, stereo (3.5-mm jack socket)
- 1 × line output (XLR panel plug, 3-pin)
- Built-in limiter
- Standby function
- Connection of subwoofer, column speaker and spacer module by means of a plug-in system
- Matching bag (item no. 499573) not included in the scope of delivery

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.



NOTICE!

Possible property damage to adjacent devices due to magnetic fields.

Speakers generate a static magnetic field. This magnetic field can affect other neighbouring units and in unfavourable cases damage them.

Ensure that speakers are always a sufficient distance away from sensitive equipment that may be affected by an external magnetic field.



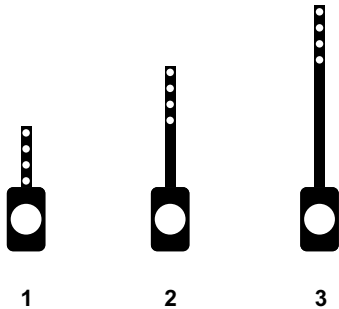
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The plasticiser contained in the rubber feet of this product may react with the coating of the floor and cause permanent dark stains after some time.

If necessary, use a suitable mat or felt slide to prevent direct contact between the product's rubber feet and the floor.

4.1 Setup



The Fun Generation ColumnMix column system consists of a subwoofer, a column speaker and two spacer modules. The individual elements can be connected to one another with the plug-in system. The following setup variations are possible:

1	1 × subwoofer, 1 × column speaker
2	1 × subwoofer, 1 × spacer module, 1 × column speaker
3	1 × subwoofer, 2 × spacer module, 1 × column speaker

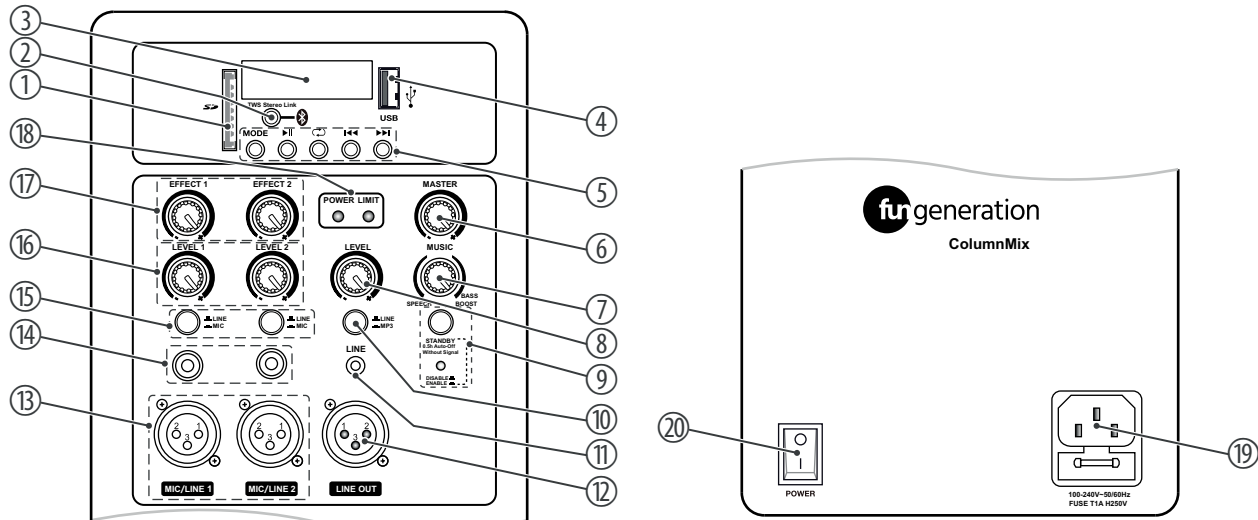
4.2 Tips on handling speakers

We recommend you to 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 cable to connect your equipment. Otherwise you won't reach maximum sound quality.

If you notice distortion during operation, the active speaker is overloaded. This may permanently damage the device. Always reduce the volume as soon as you hear distortion.

5 Connections and controls



1	SD card slot
2	<i>[TWS Stereo Link]</i> Switch for Bluetooth® mode 'bt': Stand-alone mode 'bt:bt': True Wireless Stereo (TWS)
3	Display of the built-in media player
4	USB connection
5	Selection and control buttons of the built-in media player <i>[MODE]</i> Button for selecting the audio source (USB, SD card or Bluetooth®) ▶ Play/pause button for starting/stopping the playback of tracks ↻ Button for repeating tracks ◀◀ Back button. Press the button briefly to return to the previous track. Hold the button down to search backwards for a specific part of the current track. ▶▶ Next button. Press the button briefly to skip to the next track. Hold down the button to search forward for a specific part of the current track.
6	<i>[MASTER]</i> Rotary control for adjusting the overall volume
7	<i>[MUSIC]</i> / <i>[SPEECH]</i> — <i>[BASS BOOST]</i> Rotary control for adjusting the bass. Turn the control to the left to reduce the bass. Turn the control to the right to increase the bass.
8	<i>[LEVEL]</i> Rotary control for adjusting the volume of the input signal on the line input

- 9 *[STANDBY DISABLE | ENABLE]* | If this switch is in the *[ENABLE]* position, the device will turn off after approx. 30 minutes without an input signal. To turn it back on, turn the *[POWER]* switch off and on.
The status LED lights up green during normal operation. If the device does not receive a signal on the instrument and microphone inputs for 30 minutes, it switches to standby mode if the standby function is switched on, and the status LED lights up red.
- 10 *[LINE | MP3]* | Input signal switch. Use this switch to toggle between the external (*[LINE]* input) and internal (built-in media player) signal sources.
When the switch is pressed and thus set to *[MP3]*, the signal of the internal media player is played. When the switch is not pressed and thus set to *[LINE]*, the audio signal of an external player is played.
- 11 *[LINE]* | 3.5-mm jack socket for connecting an external audio device (CD or MP3 player)
- 12 *[LINE OUT]* | Line output, designed as XLR panel plug, 3-pin
- 13 *[MIC/LINE 1] / [MIC/LINE 2]* | Mic/line inputs, designed as XLR panel socket, 3-pin
- 14 Mic/line inputs, designed as 6.35-mm jack socket
- 15 *[MIC] / [LINE]* | Input sensitivity switch for the corresponding channel
When a microphone is connected (MIC), the switch must be pressed, when a device with a line signal (LINE) is connected, the switch must be released.
- 16 *[LEVEL 1] / [LEVEL 2]* | Rotary control for adjusting the volume of the input signal on the line input of channel 1 or 2
- 17 *[EFFECT 1] / [EFFECT 2]* | Rotary control for adjusting the echo effect of the input signal on the line input of channel 1 or 2

- | | |
|----|--|
| 18 | <p><i>[POWER]</i> / <i>[LIMIT]</i> Indicator LEDs for power supply and limiter</p> <p><i>[POWER]</i>: The LED lights up green as soon as the device is powered.</p> <p><i>[LIMIT]</i>: The LED lights up green as soon as the signal starts clipping. Turn the <i>[MASTER]</i> volume control down until the LED goes out.</p> |
| 19 | Rubber panel plug with fuse holder for the power supply |
| 20 | <i>[POWER]</i> Main switch. Turns the device on and off. |

6 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.

Bluetooth® connection to a device

1. ▶ Press *[MODE]* on the media player repeatedly until the display shows 'bt'.
⇒ The device is ready to connect to a Bluetooth® device.

2. ▶ Establish the connection with your Bluetooth® device.
⇒ The device is displayed under the name 'ColumnMix'.

Bluetooth® connection to two devices (TWS)

3. ▶ Press *[TWS Stereo Link]* on the first device to set it as the first device.
⇒ The display shows 'bt:bt'.

4. ▶ On the second device, activate the Bluetooth® function as described under ↗ 'Bluetooth® connection to a device' on page 18.

5. ▶ Press *[TWS Stereo Link]* on the second device to set it as the second device.
⇒ The display shows 'bt:bt'.

6. ▶ You can play the music files stored on the Bluetooth® device once a successful connection has been established automatically. Use the buttons of the built-in player for control.

7 Technical specifications

Configuration	1 × 8-inch woofer, 4 × 2.5-inch tweeter	
Input connections	Microphone/LINE	2 × XLR panel socket, 3-pin
		2 × 6.35-mm jack socket
	LINE	1 × 3.5-mm jack socket
	USB port	1 × USB type A
	Power supply	1 × rubber panel plug C14
Input impedance	45 kΩ	
Output connections	LINE	1 × XLR panel plug, 3-pin
Output power	RMS: 200 W Peak: 400 W	
Amplifier class	Class D	
Frequency range	20 Hz...18 kHz	
Crossover frequency	35 Hz...500 Hz; 500 Hz...18 kHz	
Signal-to-noise ratio	78 dB	

Technical specifications

Sound pressure level (SPL), max.	105 dB	
Bluetooth®	Frequency range	2402 MHz...2480 MHz
	Max. transmission power	10 mW or +10 dBm
	Standard	Version 5.0
	Name	ColumnMix
Playback formats	MP3	
Number of files, max.	64	
Power consumption	200 W	
Supply voltage	100 - 240 V ~ 50/60 Hz	
Fuse	5 mm × 20 mm, 1 A, 250 V, slow blow	
Dimensions (W × H × D)	Woofer: 320 mm × 350 mm × 480 mm	
	Tweeter, spacer module: 90 mm × 100 mm × 520 mm	
Weight	15 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

Further information

Mic Preamp	2
App control	No
USB player	Yes
SD card player	1
Simultaneous inputs	3
Rechargeable battery	No
Bluetooth®	Yes
Colour	Black

8 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)



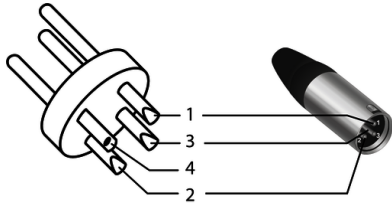
1	Signal (in phase, +)
2	Signal (out of phase, -)
3	Ground

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)

9 Cleaning

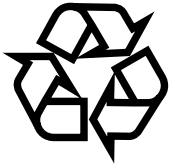
Device components

Clean the device components that are accessible from the outside regularly. The cleaning frequency depends on the operating environment: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the device components.

- Clean with a dry soft cloth.
- Stubborn dirt can be removed with a slightly dampened cloth.
- Never use solvents or alcohol for cleaning.

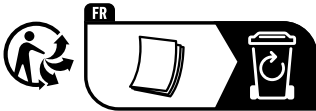
10 Protecting the environment

Disposal of the packing material



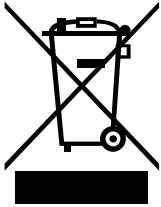
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

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.

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

