



furgeneration

BP 112 A, BP 115 A
active 2-way speaker

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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 – 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.



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.



DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



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!

Risk of fire due to incorrect polarity

Incorrectly inserted batteries may destroy the device or the batteries.

Ensure that proper polarity is observed when inserting batteries.



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 damage by leaking batteries

Leaking batteries can cause permanent damage to the device.

Take batteries out of the device if it is not going to be used for a longer period.



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.



NOTICE!

Possible damage due to installation of a wrong fuse

The use of different types of fuses can cause serious damage to the unit. Fire hazard!

Only fuses of the same type may be used.

3 Features

The device is characterized by the following features:

- battery-powered active 2-way speaker box
- BP 112 A, item no. 475059:
 - 12" speaker
 - Output power 45 W RMS
- BP 115 A, item no. 475060:
 - 15" speaker
 - Output power 50 W RMS
- 1" compression driver
- 5-band equalizer
- built-in media player with SD card slot, USB port and Bluetooth receiver
- 2 × XLR / 1/4" phone jack combo socket for adjustable MIC / Line input
- 1 × RCA socket pair / 1 × 3.5 mm phone socket for stereo input
- 1 × XLR output socket

4 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.



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.

The unit can be mounted on a stand or set up on the floor or a sufficiently sized and stable surface, e.g. a wall bracket.



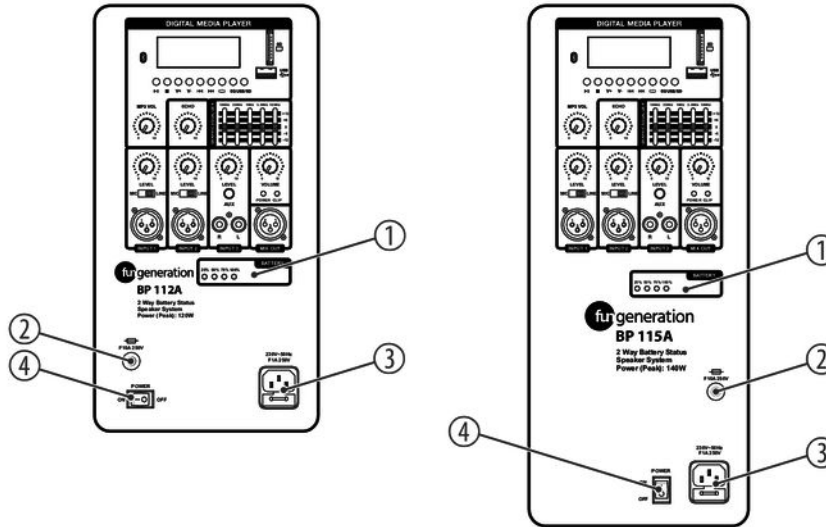
NOTICE!

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.

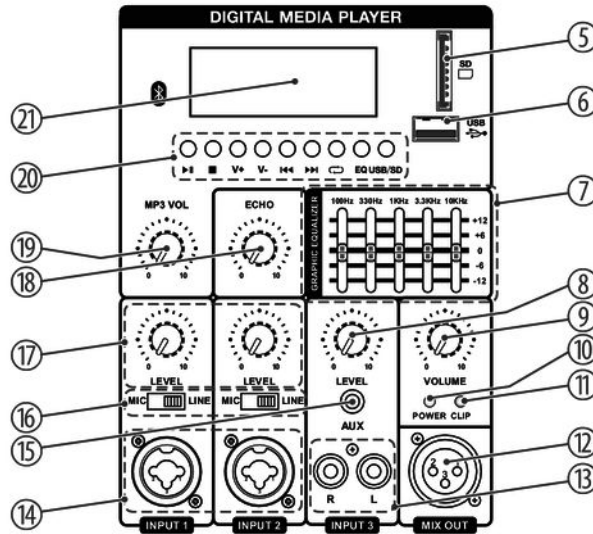
5 Connections and controls

Rear panel



1	<i>[25%] [50%] [75%] [100%]</i>	Indicator LED. Displays the battery charge level in percent. The red LED <i>[25%]</i> flashes when the charge level drops below 25 %. Then recharge the battery.
2	Fuse for the 12V circuit of the battery	
3	IEC panel plug for the mains cable with fuse holder and for charging the battery.	
4	<i>[POWER] [ON] [OFF]</i>	Main switch. Turns the device on and off.

Digital Media Player



5	[SD]	SD card slot
6	[USB]	USB connection socket
7	[GRAPHIC EQUALIZER]	5-band equalizer for adjusting the frequencies of the sum signal by +/- 12dB.
8	[LEVEL]	Level controller for [INPUT 3]
9	[VOLUME]	Overall volume control
10	[POWER]	Indicator LED. Lights up green when the device is connected to the power supply and turned on.
11	[CLIP]	Indicator LED. Lights up red when the signal level is too high, distortion occurs due to clipping and the limiter is activated.
12	[MIX OUT]	XLR chassis socket, 3-pin, for line-level signal output
13, 15	[INPUT 3]	RCA socket pair (L / R) / 3.5 mm phone socket, unbalanced, for connecting stereo input signal sources
14	[INPUT 1] [INPUT 2]	XLR / 1/4" jack combo sockets for connecting a mixer or an instrument
16	[MIC / LINE]	Input signal switch. With this switch you toggle between a microphone and a signal source with line level.

17	[LEVEL]	Level controller for [INPUT 1] and [INPUT 2]
18	[ECHO]	Control to adjust the instruments echo effect
19	[MP3 VOL]	Control to adjust the overall signal level of the MP3 player and the Bluetooth input signals
20	Selection and control buttons of the built-in media player:	
	▶	Play / Pause button to start / stop track playback.
	■	Stop button to stop playback.
	[V+][V-]	Buttons to increase and decrease the volume of the internal MP3 player
	◀◀	Backward button. Press this button briefly to skip to the previous track. Keep this button pressed to search backward for a specific part of the current track.
	▶▶	Forward button. Press this button briefly to skip to the next track. Keep this button pressed to search forward for a specific part of the current track.
	↻	Selection button. Press the button repeatedly to activate a playback mode. The active mode and the title of the current track will appear on the display:
	'NOR'	Normal playback, all tracks of the selected audio source are played one time in succession.

		'RALL'	Standard setting, all tracks of the selected audio source are played in an endless loop.
		'RONE'	The selected track is played in an endless loop.
		'FOLD'	All tracks in a specific folder of the selected audio source are played in an endless loop.
		'RAN'	All available tracks are played in random order.
	[EQ]	Buttons for turning the EQ on and off	
	[USB/SD]	Switch button. Press this button to select an audio source directly: SD card, USB input or Bluetooth port. The active source is shown on the display.	
21	Display of the built-in media player		

6 Playback via Bluetooth

You can play music wirelessly from mobile Bluetooth devices such as smart phones, tablets or laptops via the built-in Bluetooth receiver of the device. Observe the user's guide of your Bluetooth device. Place the Bluetooth device near the box and turn it on.

Press [USB/SD] repeatedly until the display shows first *'BLUETOOTH INITIALZING'* and then *'BLUETOOTH UNCONNECTED'*. After a few seconds your Bluetooth device is detected and will be displayed as *'BP112A'* or *'BP115A'*. The display shows the message *'BT CONNECTED'*.

You can then play the music files stored in the Bluetooth device. Use the buttons of the built-in player or the control panel for control.

7 Technical specifications

		Fun Generation BP 112 A Item no. 475059	Fun Generation BP 115 A Item no. 475060
Speaker		12" speaker 1" compression driver	15" speaker 1" compression driver
Amp class		120 W Class AB	140 W Class AB
Input connections	MIC/Line	2 × XLR / 1/4" phone combi socket	
	Stereo	1 × pair of RCA sockets (L/R)	
	AUX	1 × 3.5 mm jack socket	
	USB port	1 × USB-A	
	SD card	1 × SD card slot	
Output connections	MIX output	XLR chassis socket, 3-pin	

		Fun Generation BP 112 A Item no. 475059	Fun Generation BP 115 A Item no. 475060
Output power		RMS: 45 W Peak: 120 W	RMS: 45 W Peak: 120 W
Frequency range		68 Hz ... 19 kHz	60 Hz ... 19 kHz
Sound pressure level (SPL), max.		109 dB	112 dB
Beam angle		90° × 40°	90° × 40°
Power consumption		72 W	72 W
Supply voltage		230 V ~ 50 Hz	
Fuse		5 mm × 20 mm, 1 A, 250 V, fast-acting	
Battery	Battery type	Lead acid battery, rechargeable	
	Voltage	12 V	
	Capacity	7.200 mAh	
	Fuse	5 mm × 20 mm, 10 A, 250 V, fast-acting	

		Fun Generation BP 112 A Item no. 475059	Fun Generation BP 115 A Item no. 475060
	Charging time in the device	approx. 9 h	
	Runtime at RMS	approx. 3 h	
Mounting option		35 mm pole mount flange	
Dimensions (W × H × D)		380 mm × 600 mm × 295 mm	450 mm × 690 mm × 370 mm
Weight		12.3 kg	14.6 kg
Ambient conditions	Temperature range	−5 °C...45 °C	
	Relative humidity	50 %, non-condensing	

Further information

	Fun Generation BP 112 A Item no. 475059	Fun Generation BP 115 A Item no. 475060
Simultaneous inputs	3	3
Mic Preamp	2	2
Tone control / Ch.	No	No
Master tone control	Yes	Yes
Effect	Yes	Yes
Tuner	No	No
CD player	No	No
Bluetooth player	Yes	Yes
Bluetooth standard	Bluetooth version 5.0	Bluetooth version 5.0
Bluetooth name	BP112A	BP115A
USB play	Yes	Yes

	Fun Generation BP 112 A Item no. 475059	Fun Generation BP 115 A Item no. 475060
SD card play	Yes	Yes
Wireless microphone	No	No
opt. wireless	No	No
Remote control	No	No
Colour	Black	Black
Trolley	Yes	Yes
Cover	No	No

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)



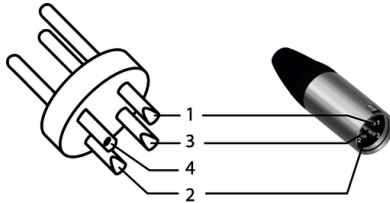
1	Signal (in phase, +)
2	Signal (out of phase, -)
3	Ground

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



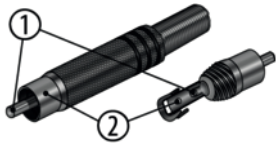
1	Signal (left)
2	Signal (right)
3	Ground, shielding

XLR plug (balanced)



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

RCA connection



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

1	Signal
2	Ground, shielding

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 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 these materials with your normal household waste, but make sure that they are fed to a recovery. Please follow the notes and markings on the packaging.

Disposal of batteries



Batteries must not be disposed of as domestic waste or thrown into fire. Dispose of the batteries according to national or local regulations regarding hazardous waste. To protect the environment, dispose of empty batteries at your retail store or at appropriate collection sites.

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 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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