



the
box **pro**

Achat 112 Sub A
active 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.

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 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.

**CAUTION!****Risk of injury due to heavy weight**

Due to the heavy weight of the device, at least two persons are required for transport and installation.

**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!

Power supply



Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user. Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.



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.



NOTICE!

Possible staining

The plasticiser contained in the rubber feet of this product may possibly react with the coating of your surface and after some time cause permanent dark stains. In case of doubt, do not put the rubber feet directly on the surface and use a suitable underlay if necessary, i.e. felt-pad floor protectors or similar.

3 Features

Special features of this powerful active subwoofer:

- XLR/1/4" combo socket for signal input
- XLR mounting plug for signal output
- Selectable operating voltage
- Pole mount flange, (M20), on topside
- Black textured coating

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.



CAUTION!

Risk of injury due to heavy weight

Due to the heavy weight of the device, at least two persons are required for transport and installation.

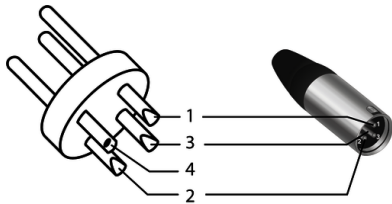
**NOTICE!****Possible property damage by magnetic fields**

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.

4.1 Pin assignment

You may use XLR and jack connectors with either balanced or unbalanced pinout. Below you will find an overview of the different options.

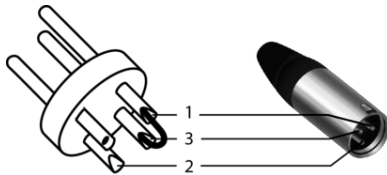
XLR connections for signal inputs/outputs



XLR panel sockets are provided for signal inputs. XLR panel plugs are provided for signal outputs. The figure and the table show the XLR pin assignment.

Balanced pinout:

1	Ground
2	Positive signal (+)
3	Negative signal (-)



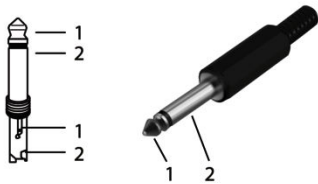
Unbalanced pinout:

1	Ground
2	Signal
3	Jumpered with pin 1

Jack plugs for signal input

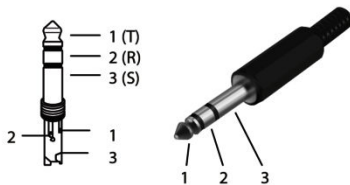
The figure and the table show the pin assignment for ¼-inch jack plugs.

Unbalanced wiring (jack plug, mono):

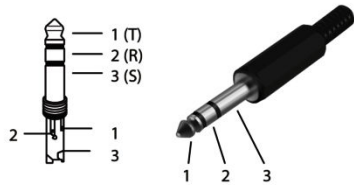


1	Signal
2	Ground

Unbalanced wiring (jack plug, stereo):



1	Signal
2, 3	Ground



Balanced wiring (jack plug, stereo):

1 (tip)	Positive signal (+)
2 (ring)	Negative signal (-)
3 (sleeve)	Ground

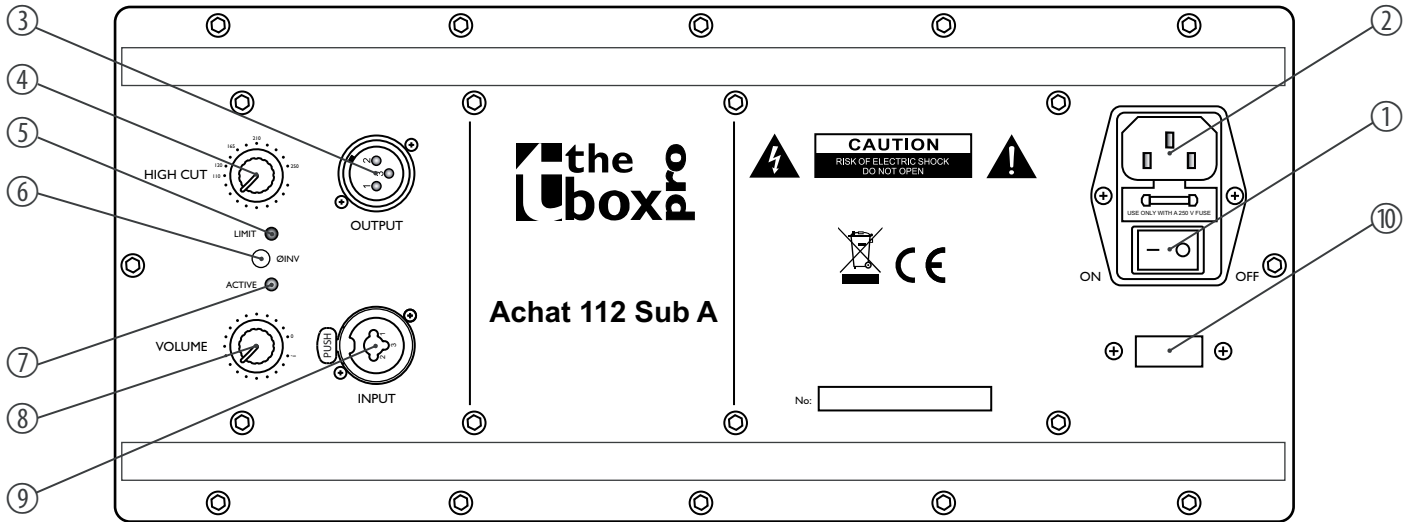
4.2 Tips on handling speakers

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 Operating elements



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1	<i>[ON/OFF]</i> Use this switch (power switch) to turn the unit on and off.
2	IEC chassis plug for power supply with fuse holder
3	<i>[OUTPUT]</i> Signal output to connect another mixer, designed as XLR chassis plug
4	<i>[HIGH CUT]</i> Control for adjusting the low-pass filter. This sets the upper cut-off frequency for the signal going to the built-in amplifier.
5	<i>[LIMIT]</i> The LED lights up when the amplifier's input level is too high. In this case, reduce the level of the input level.
6	<i>[INV]</i> If necessary, this switch shifts the phase of the subwoofer signal by 180 °. This avoids unwanted cancellation effects in combination with other speakers.
7	<i>[ACTIVE]</i> The LED indicates that the device is switched on.

8	<i>[VOLUME]</i> Volume control
9	<i>[INPUT]</i> Line signal input, designed as XLR / 1/4" jack combo socket
10	Power supply switch Make sure this selector is set correctly for the actual supply voltage at the operating location. Use this switch only when the device is switched off.

6 Technical specifications

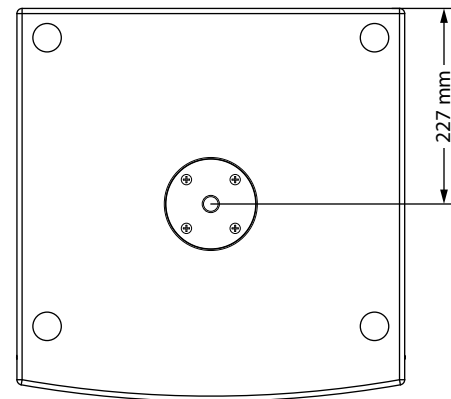
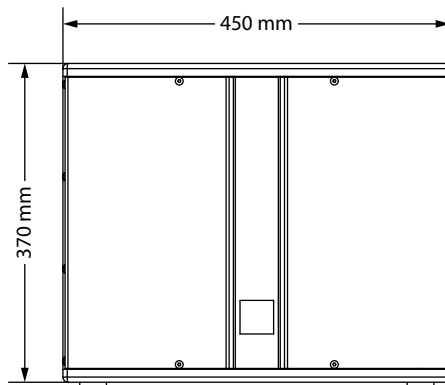
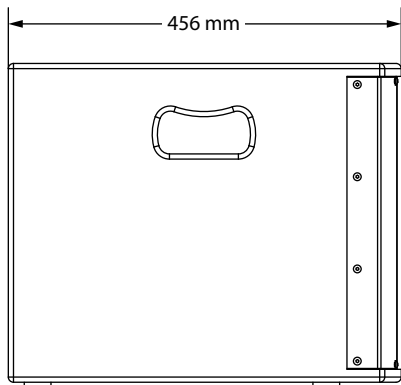
Speaker	1 × 12" woofer	
Input connections	Power supply	IEC chassis plug C14
	LINE input	XLR / 1/4" jack combo socket (mono)
Input impedance	20 kΩ	
Load impedance	4 Ω	
Output connections	Signal output	XLR chassis plug, 3-pin
Output power	RMS: 350 W	
Distortion	Line: 0.02 %	
Frequency range	40 Hz ... 250 Hz	
Crossover frequency	Low Cut: 35 Hz	
	High Cut: 55 Hz...200 Hz, adjustable	
Signal-to-noise ratio	≥ 88 dB (typical, A-weighted)	

Sound pressure level (SPL), max.	124 dB	
Power consumption	180 W	
Supply voltage	115/230 V ~ 50/60 Hz	
Fuse	115 V: 5 mm x 20 mm, 5 A, 250 V, slow-blow 230 V: 5 mm x 20 mm, 2,5 A, 250 V, slow-blow	
Dimensions (W x H x D)	450 mm x 370 mm x 456 mm	
Weight	23 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20 %...80 % (non-condensing)

Further information

Type	Bass reflex
Multi-channel power amp	No
Stand mounting	yes
Connection X-Over	No
High Cut	adjustable
DSP display	No
Truss-capable	No
Stand flange	M20
Housing	Wood
Colour	Black
Casters	No
Casters optionally available	No

Cover	Optional (item no. 240357)
Suitable for 110 V	No



7 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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