



Achat 112 MA WH

full-range speaker

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1 General notes

This user manual contains important information on 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 other users, be sure that they also receive this manual.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

Symbols and signal words

This section provides an overview of the symbols and signal words used in this user 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.
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.
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
A	Warning – high-voltage.

th•mann

Warning signs	Type of danger
	Warning – suspended load.
\triangle	Warning – danger zone.



2 Safety instructions

Intended use

This device is intended to be used in a sound reinforcement system. 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.



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 cover the device nor any ventilation slots. Do not place 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.



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.



3 Features

Special features of the device:

- Connections: XLR/1/4" combo socket for signal input, XLR mounting plug for signal output
- Mains voltage selector
- Flying tracks on top side and an eyelet on the back to tilt the box. Required attachment for vertical mounting 'the box Achat Flying Track Attachment' (2 pcs. per box).
- Pole mount flange, 36 mm at the bottom
- Rotatable horn
- Black textured coating



4 Installation

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

Establish all connections as long as the unit is switched off. Use the shortest possible high-quality cables for all connections.



WARNING!

Risk of injury caused by falling objects

Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.





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.



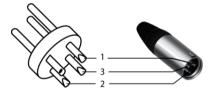
4.1 Pin assignment

You can use XLR and 1/4" plugs with balanced or unbalanced wiring. In the following we will give you an overview of the various possibilities.

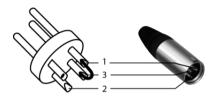
XLR connections for signal inputs and outputs

XLR mounting sockets are used for signal inputs. XLR mounting plugs provide the output signals. Drawing and table indicate the XLR pin assignment.

Balanced wiring:



1	Ground, shielding
2	Positive signal (+)
3	Negative signal (–)



Unbalanced wiring:

1	Ground, shielding
2	Signal
3	Bridged to pin 1

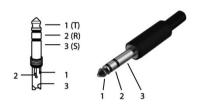
1/4" socket for signal inputs and outputs



Drawing and table indicate the pin assignment for a 1/4" TS phone jack to be used. Unbalanced wiring (1/4" TS plug):

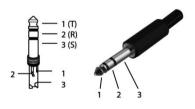
1	Signal
2	Ground, shielding





Unbalanced wiring (1/4" TRS plug):

1	Signal
2, 3	Ground, shielding



Balanced wiring (1/4" TRS plug):

1 (Tip)	Positive signal (+)
2 (Ring)	Negative signal (–)
3 (Sleeve)	Ground, shielding

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.

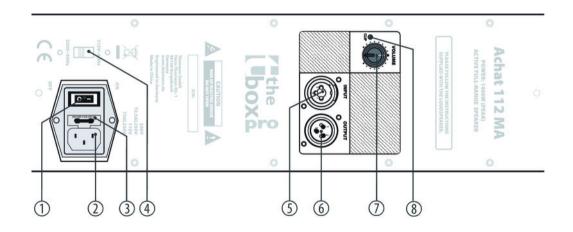
4.3 Hanging the speaker box

To hang the speaker box on special mounting devices (aka 'flying') both sides of the box offer built-in Aeroquip or fly tracks. In these tracks safety eyelets (double studs) can be screwed or latched. Check the secure connection of the safety eyelets with the box carefully, before you use it in 'flying mode'.



Using an additional loop on the back of the box, it is possible to tilt the box. This additional loop must not solely be in charge to secure the entire suspended weight.

4.4 Operating elements





1 I/O (ON/OFF)

Use the mains switch to power the unit on or off.

2 Connection for mains supply voltage

IEC chassis connector with fuse holder for operating voltage supply.

3 Mains fuse

If this fuse blows, you have to replace it by a new one with same specifications. Before you must disconnect the unit from the mains power.

4 **115 V / 230 V ~** (AC)

Mains voltage selector. 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!

5 **INPUT**

XLR/1/4" combo socket for line signal input.

6 **OUTPUT**

XLR mounting plug for line signal output.



Installation

7	VOLUME	
	Overall volume control.	
8	8 CLIP	
	Indicates overloading (Clipping). In this case the level of the input signal is too high.	



5 Technical specifications

Operating voltage	115/230 V ~ 50/60 Hz
System	2-way full-range active speaker box with built-in crossover
Speakers	1 × 12" woofer, 1.4" mid-high driver (with 3" voice coil)
Dispersion (V × H)	60° × 40° (horn)
Frequency response	60 Hz 18 kHz (–3 dB)
THD	Line: 0.02%
Maximum SPL	131 dB
Controls	Level control (VOLUME)
Output power	350 W (RMS)
Load impedance	8 Ω
Input impedance	10 kΩ
Dimensions (W × H × D)	360 mm × 610 mm × 360 mm



Technical specifications

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
Weight	24.7 kg



6 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). 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.











