

the
box **pro**

Achat 404PAM
battery-powered
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.
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 – 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.

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.



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!

External power supply

The device is powered by an external power supply. Before connecting the external power supply, 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 the user.

Unplug the external power supply before electrical storms occur and when the device is unused for long periods of time to reduce the risk of electric shock or fire.

3 Features

Special features of the device:

- Inputs: XLR/1/4" combi socket, RCA sockets, 1/8" socket
- Output: 12 V power supply for wireless systems
- DC cable included (item number 323989)
- 4 × 4" neodym woofer, 1" compression driver
- Built-in rechargeable battery with lithium/manganese technology providing long operation time and very low self-discharge
- Volume, treble and bass control
- Built-in small mixer with EQ and presets for speech and music
- Black textured coating
- Cabinet is ready to host a 9.5" wireless system
- Tripod mounting thread

4 Installation and starting up

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.



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.

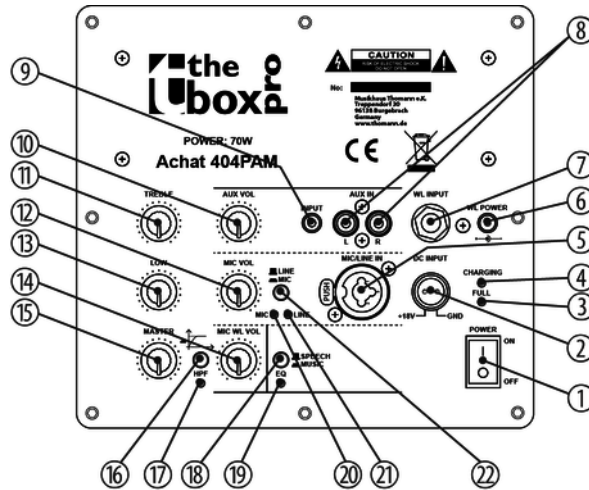
Connecting a wireless system

The device is designed for the connection of a wireless receiver. A 9.5" receiver can be placed in the front part of the cabinet flap and securely fastened with the provided velcro straps. Connect the 12 V power supply output (4) of the box to the corresponding input of the wireless receiver and the signal input (5) of the box to the signal output of the wireless receiver (see also ↪ *Chapter 5 'Connections and operating elements' on page 12*).

Power supply

You can use either the supplied external power supply unit or the built-in lithium/manganese rechargeable battery to power the unit. When the external power supply is connected, the rechargeable battery is charged also during operation.

5 Connections and operating elements



1	POWER Main switch to turn the unit on and off.
2	DC INPUT Connection socket for the external 18 V power supply during mains operation or for charging the built-in battery.
3	FULL (Green) LED. This LED lights in normal operation when the charging capacity of the built-in battery is sufficient for correct operation. Charge the built-in battery when the LED goes out.
4	CHARGING (Red) LED. This LED lights during charging and goes out when the built-in LED is fully charged.
5	MIC/LINE IN XLR/1/4" combi socket as signal input. To toggle the sensitivity use the LINE/MIC switch (20).

6	WL POWER Connection socket for the power supply (12 V) of a wireless system.
7	WL INPUT Use this 1/4" socket as signal input from the wireless system.
8	AUX IN RCA jacks as additional left and right channel signal inputs. The signals of both channels are internally mixed into a mono signal.
9	INPUT 1/8" input to connect other signal sources, e.g. an MP3 player.
10	AUX VOL Volume control for the AUX input (6) signal.
11	TREBLE Control to increase or attenuate the high frequencies.
12	MIC VOL Volume control for the MIC/LINE input (3) signal.

13	LOW Control to increase or attenuate the low frequencies.
14	MIC WL VOL Volume control for the WL input (5) signal.
15	MASTER Overall volume control.
16	HPF Switchable high-pass filter (140 Hz) to eliminate unwanted hum and rumble.
17	The LED lights up when the high-pass filter is switched on.
18	SPEECH/MUSIC Toggles the built-in equalizer between the settings 'SPEECH' and 'MUSIC'.
19	EQ The LED lights up when the switch for the built-in equalizer (16) is in 'MUSIC' position.

20	MIC The LED lights up when the switch for the input sensitivity (20) is in 'MIC' position.
21	LINE The LED lights up when the switch for the input sensitivity (20) is in 'LINE' position.
22	LINE/MIC Toggle switch for the input sensitivity of the 'MIC/LINE' input (3).

6 Technical specifications

Output power	70 W (RMS)
Maximum SPL	118 dB
Frequency response	70 Hz ... 20 kHz
Dispersion (H × V)	90° × 60°
Operating voltage	DC 18 V $\overline{\text{---}}$
Operation time on battery power	11 h
Output voltage for wireless systems	12 V $\overline{\text{---}}$ (DC)
Dimensions (W × D × H)	260 mm × 445 mm × 270 mm
Weight	8.5 kg

7 Plug and connection assignments

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

1/4" TRS phone plug (stereo, unbalanced)



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

1/4" TS phone plug (mono, unbalanced)



1	Signal
2	Ground

3.5 mm TRS phone plug (mono, balanced)



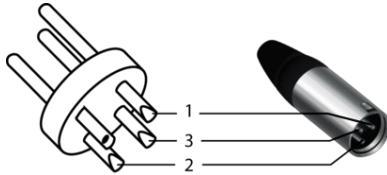
1	Signal (in phase, +)
2	Signal (out of phase, -)
3	Ground

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



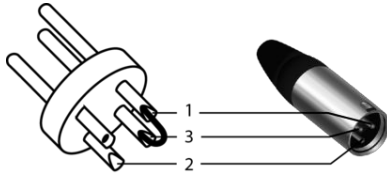
1	Signal (left)
2	Signal (right)
3	Ground, shielding

XLR plug (balanced)



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

XLR plug (unbalanced)



1	Ground, shielding
2	Signal
3	Bridged to pin 1

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 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). 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.



