

the
box **pro**

Pyrit 212 Sub A
active subwoofer

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22.01.2013

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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 – high-voltage.

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.



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.



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 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:

- Class-D amplifier
- Integrated sound processor (DSP) with 3 modes, designed for use together with matching tops with midrange speaker and tweeter (T10a, T12a or T15a).
- Connections: XLR / 1/4" combo socket for signal input, XLR chassis plug for signal output
- Each one pole mount flange M20 on top, left and right side of the housing
- Two carrying handles
- Black textured coating
- Powder-coated front grille

4 Installation

Unpack and check carefully 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.

**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 Tips on handling speakers

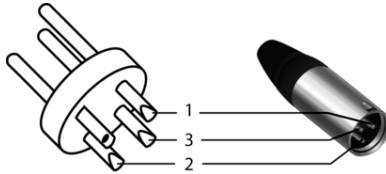
We recommend you to set up the speakers in a way, that the sound signals can reach the audience unobstructedly. It will often be helpful to mount the speakers on tripods. Thus, the sound will be evenly spread with maximum range throughout the audience area.

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.

4.2 Pin assignment

XLR connections for signal in and outputs

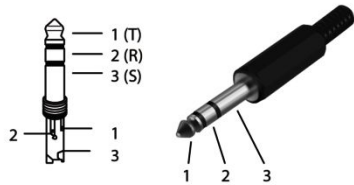


XLR chassis sockets serve as signal inputs, XLR chassis plugs serve as signal outputs. Drawing and table indicate the XLR pin assignment.

Balanced wiring:

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

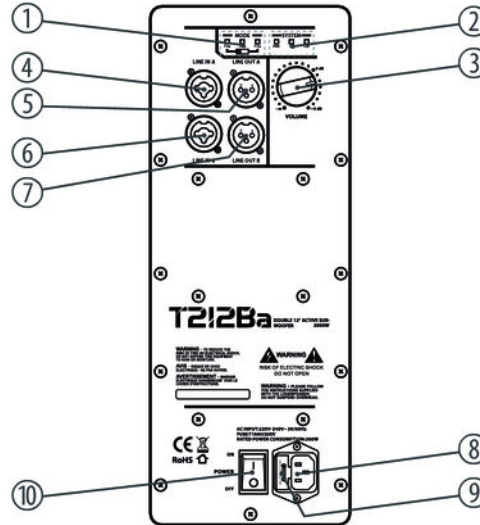
1/4" phone sockets for signal inputs



Balanced wiring (TRS plug):

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

5 Connections and operating elements



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1	MODE Slide switch for selecting the operating mode of the integrated sound processor: T10a, T12a, T15a . Use this switch to adjust the sound characteristics according to the used top (midrange and tweeter). LEDs indicate the selected operating mode. Switch the device off before changing the operating mode to avoid any damages.
2	PWR LED: indicates that the power supply is present. SIG LED: Indicates that the input signal is present. CLIP LED: Indicates overload (clipping) due to excessive input signal level.
3	VOLUME Volume control.
4	LINE IN A XLR / 1/4" combo socket as balanced Line signal input.
5	LINE OUT A XLR chassis plug as Line signal output.

6	LINE IN B XLR / 1/4" combo socket as balanced Line signal input.
7	LINE OUT B XLR chassis plug as Line signal output.
8	Power supply connection IEC chassis connector for power supply.
9	Fuse holder If the fuse blows you have to replace it by a new one with same specifications. Before, you must disconnect the unit from the mains power.
10	POWER ON/OFF Use this mains switch to turn the device on or off.

6 Technical specifications

Speakers	2 × 12" woofer (4" voice coil)
Inputs	XLR / 1/4" combo sockets (balanced)
Input impedance	≥ 20 kΩ
Outputs	XLR chassis plug
Frequency response	31.5 Hz ... 120 Hz (-3 dB)
Output power	2000 W (RMS)
Sound pressure level	135 dB (max.)
Operating supply voltage	AC 220 – 240 V ~ , 50/60 Hz
Dimensions (W × H × D)	460 mm × 520 mm × 520 mm
Weight	41.0 kg

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 device is subject to the European directive 2002/96/EC.

Do not dispose of the device 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.



