



the
box **pro**

Pyrit 10, 12, 15
passive 2-way full-
range speaker

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18.09.2020, ID: 299642, 299643, 299646 (V2)

Table of contents

1	General notes	4
2	Safety instructions	7
3	Features	10
4	Installation	11
	4.1 Tips on handling speakers.....	13
	4.2 Hanging the speaker box.....	14
	4.3 NL4 connections.....	15
5	Technical specifications	17
6	Protecting the environment	19

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 yellow triangular warning sign with a black border. Inside the triangle, there is a black silhouette of a person standing next to a rectangular object (representing a load) that is suspended from above by a hook and cables.	Warning – suspended load.
 A yellow triangular warning sign with a black border. Inside the triangle, there is a large black exclamation mark.	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.

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.



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!

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.

3 Features

The device is particularly suitable for use in churches, conference rooms and multi-purpose halls.

Special features of the device:

- Item no. 299642: 10-inch woofer, 1.4-inch tweeter
Item no. 299643: 12-inch woofer, 1.7-inch tweeter
Item no. 299646: 15-inch woofer, 1.7-inch tweeter
- 2 × NL4 connections
- Item no. 299642: M6 rigging points
Item no. 299643 and 299646: M8 rigging points
- Built-in feet for monitor applications
- Double pole mounting flange (vertical and 5° inclination)
- Ceiling mountable (with optional mounting bracket)
- 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 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.

You can install the device standing or hanging. When in use, the device must be mounted at a solid surface or clamped to an approved truss.

Work from a stable platform whenever you install or move the device or when you perform any kind of maintenance. Block access under the work area.



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.



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.



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 Tips on handling speakers

We recommend you to set up the speakers in a way, that their sound signals can reach the audience unobstructedly.

Always use high grade cables to connect your equipment. Otherwise you won't reach maximum sound quality.

For optimum results both impedance and power handling of the speakers must match the requirements of the amplifier. Always follow the technical specifications of all equipment involved!

The overall impedance of the connected loudspeakers must not exceed the minimum output impedance of the amp. The amps max. RMS output power should be 50 % above the power handling capacity of the connected speakers.

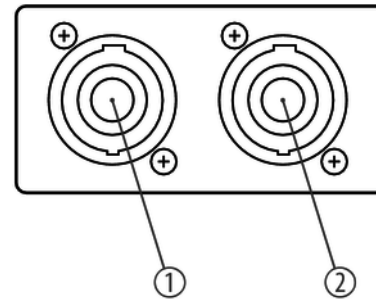
If you notice distortion during operation, either the amp or the speaker is overloaded. This may permanently damage the amp or the speaker. Always reduce the volume as soon as you notice distortion.

4.2 Hanging the speaker box

To hang the speaker box on special mounting devices (aka 'flying'), top, bottom and sides of the box have M6 threads (item no. 299642) or M8 threads (item no. 299643 and 299646). Safety eyes can be screwed into these threads. Check the secure connection of the safety eyelets with the box carefully, before you use it in 'flying mode'.

4.3 NL4 connections

Both NL4 connections are located on the unit's rear panel.

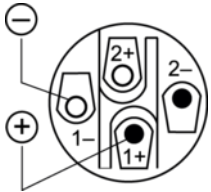


1, 2 NL4 connections wired in parallel

One connection is used to connect the device to the signal source, the other is to connect another speaker of the same type.

NL4 mounting connectors for speaker connections

The adjoining figure shows the pin assignment of the lockable NL4 panel connectors.



5 Technical specifications

	Pyrit T10, item no. 299642	Pyrit T12, item no. 299643	Pyrit T15, item no. 299646
System	2-way full-range passive box	2-way full-range passive box	2-way full-range passive box
Speaker	1 × 10" woofer	1 × 12" woofer	1 × 15" woofer
	Titan compression driver for 1 × 1.4-inch tweeter	Titan compression driver for 1 × 1.7-inch tweeter	Titan compression driver for 1 × 1.7-inch tweeter
Input connections	NL4 panel connectors		
Frequency range	55 Hz ... 20 kHz, -3 dB	50 Hz ... 20 kHz, -3 dB	45 Hz ... 20 kHz, -3 dB
Power handling	RMS: 250 W	RMS: 300 W	RMS: 350 W
	Peak: 1000 W	Peak: 1200 W	Peak: 1400 W
Sound pressure level	122 dB / 1 m (max.)	127 dB / 1 m (max.)	128 dB / 1 m (max.)
Sensitivity (1 W / 1 m)	93 dB	97 dB	97 dB
Rated impedance	8 Ω	8 Ω	8 Ω

Technical specifications

	Pyrit T10, item no. 299642	Pyrit T12, item no. 299643	Pyrit T15, item no. 299646
Dispersion angle (V × H)	60° × 90°	60° × 90°	60° × 90°
Dimensions (W × H × D)	300 mm × 525 mm × 295 mm	368 mm × 630 mm × 349 mm	460 mm × 780 mm × 396 mm
Weight	13.2 kg	20 kg	26.8 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) 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.

Pyrit 10, 12, 15



