STAIRVILLE

Tri Flat PAR Profile 18x3W RGB 25°, 45°

User Manual

LED PAR

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Table of contents

1 General information **6**

1.1 Symbols and signal words 6

2 Safety instructions **8**

3 Features **13**

4 Installation **15**

5 Starting up **20**

6 Connections and controls **22**

7 Operation **27**

7.1 Starting the device 27

7.2 Navigating the menu 27

7.3 Setting the DMX address 28

7.4 Setting the DMX mode 29

7.5 Setting the operating mode 29

7.6 Setting the pre-programmed automatic show 30

7.7 Setting the sound control 31

7.8 Setting the constant colour 32

7.9 Resetting to factory defaults 33

7.10 Menu overview ... 34
7.11 Temperature monitoring ... 35
7.12 Functions in 3-channel DMX mode ... 35
7.13 Functions in 5-channel DMX mode ... 35
7.14 Functions in 7-channel DMX mode ... 36
8 Technical specifications ... 39
9 Plug and pin assignments ... 42
10 Troubleshooting ... 43
11 Cleaning ... 45
12 Protecting the environment ... 46



1 General information

This document contains important instructions for the safe operation of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. Make sure that it is available to all those using the product. If you sell the product to another user, be sure that they also receive this document.

Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is ready for download under ➦ *www.thomann.de*.

1.1 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 document.

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.

Signal word	Meaning
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.
	Warning – dangers due to batteries.
	Warning – high-voltage.
	Warning – dangerous optical radiation.
	Warning – suspended load.

2 Safety instructions

Intended use

This device is intended for use as an electronic lighting effect by means of LED technology. The device is designed for professional use only and is not suitable for use in households. 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.



Extend the operating life of the device by regular breaks and by avoiding frequent switching on and off. The device is not suitable for continuous operation.

Safety



DANGER

Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children could play with.



DANGER

Danger to life due to electric current!

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 when covers, safety equipment or optical components are missing or damaged.



DANGER

Risk of death from electrical current!

A short circuit can cause fires and loss of life. Always use proper ready-made insulated mains cabling (power cord) with a safety plug. Do not modify the mains cable or the power plug. If the power cable or plug is damaged, switch off the power supply immediately and replace the power cable with an identical power cable available from the manufacturer. Make sure that the device is always earthed. If in doubt, contact a qualified electrician.



WARNING

Risk of injury due to damaged shielding, protective screens or lenses!

If shielding, protective screens or lenses are damaged, there is a risk of injury from falling shards or equipment parts. Shielding, protective screens and lenses are not designed to be replaced by the user! If shielding, protective screens or lenses are visibly damaged (for example due to cracks or deep scratches), have them repaired by the manufacturer or a qualified electrician.



WARNING

Risk of eye damage caused by high light intensity!

The device generates highly intense light radiation. Looking directly into the light source can damage the eyes. Never look directly into the light source.



WARNING

Risk of epileptic fit due to flashing lights!

The device emits flashing lights (strobe effects). Flashing lights can trigger epileptic fits in specific people. If you are at risk of epilepsy, avoid spending longer periods of time subjected to flashing lights and looking into strobing light.



WARNING

Risk of injury due to incorrect handling of lithium batteries!

In the event of a short circuit, overheating or mechanical damage, lithium batteries can cause severe injuries. If lithium batteries are damaged, electrolyte may leak and fumes may be released. Electrolyte can cause skin irritation or burns. The airways can become irritated when vapours escape. Avoid any skin and eye contact with the electrolyte. If contact does occur, rinse the affected area thoroughly with water immediately. When vapours escape, ensure adequate ventilation. If you have any complaints, see a doctor. If electrolyte gets into the eyes, consult a doctor immediately. Keep lithium batteries away from heat sources. Do not open or destroy lithium batteries. Only charge rechargeable lithium batteries with a suitable charger. Pack damaged lithium batteries in airtight packaging. Absorb leaked electrolyte with absorbent material and always wear protective gloves.



NOTICE

Risk of fire due to covered vents and neighbouring heat sources!

If the vents of the device are covered or the device is operated in the immediate vicinity of other heat sources, the device can overheat and burst into flames. Never cover the device or the vents. Do not install the device in the immediate vicinity of other heat sources. Never operate the device in the immediate vicinity of naked flames.

NOTICE

Damage to the device if operated in unsuitable ambient conditions!

The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors under the ambient conditions specified in this document. Avoid operating it in environments subject to direct sunlight, heavy pollution and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluctuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.

NOTICE

Damage to the device due to high voltages!

The device can be damaged if it is operated with the incorrect voltage or if high voltage peaks occur. In the worst case, excess voltages can also cause a risk of injury and fires. Make sure that the voltage specification on the device matches the local power grid before plugging in the device. Only operate the device from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). Ensure that the power cord plug is easily accessible at all times if it is the only device to safely disconnect the device from the mains supply. As a precaution, disconnect the device from the power grid when storms are approaching or it the device will not be used for a longer period.

NOTICE

Risk of fire due to installation of a wrong fuse!

Using fuses of a different type than compatible with the device may cause a fire and seriously damage the device. Only use fuses of the same type. Observe the labelling on the device casing and the information in the "Technical data" chapter.

NOTICE

Risk of fire by exceeding the maximum current!

The device can supply power to other devices of identical design and connected in series. If too many devices are connected, the maximum permitted power consumption can be exceeded, which can cause the device to overheat and burst into flames. Only connect devices of identical design to the device. When deciding how many devices you can connect in series, make sure that the maximum output current specified on the device and in the "Technical specifications" chapter of the user manual is not exceeded. Only use power cords with a cable cross-section designed for the required current intensity when connecting the devices in series.

NOTICE

Possible staining due to plasticiser in rubber and foam feet!

The plasticiser in the feet of this product may react with the coating of the floor, resulting in permanent dark stains after a while. If necessary, use a suitable mat or felt pads to prevent direct contact between the product's feet and the floor.

3 Features

Special features of the device:

- 18 tricolour LEDs (3 W each)
- Control via DMX (three different modes), buttons and display on the device and the optional infrared remote control
- Nine preprogrammed automatic shows
- Sound control
- Master/slave mode
- Robust metal housing with compact design

For technological reasons, the light output of LEDs decreases over their lifetime. This effect increases with higher operating temperature. You can extend the service life of the illuminants by providing adequate ventilation and operating the LEDs with the lowest possible brightness.



The light source is not designed to be replaced by the user.

If the light source needs to be replaced, arrange for it to be replaced by the manufacturer or a qualified electrician.

Please note that this device must not be connected to a dimmer.

In the case of controllable lights, the control lines inside the device have reinforced insulation against the low-voltage lines.

4 Installation

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



WARNING

Risk of injury from falling devices that were inadequately secured!

If devices are not properly secured during assembly, they can cause severe injury and considerable damage by falling.

When installing and operating, make sure to follow the standards and regulations that apply in your country.

Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

NOTICE

Risk of overheating and fire due to inadequate distance and bad ventilation!

If the distance between the light source and the illuminated surface is too small or the device is badly ventilated, the device can overheat and cause fires.

Make sure that the distance to illuminated surfaces and the ambient conditions comply with the specifications in the "Technical specifications" chapter.

Always ensure sufficient ventilation at the operating location.

NOTICE

Fire hazard due to incorrect polarity and incorrect battery type!

Incorrectly inserted batteries can cause fires and destroy the device as well as the batteries.

To extend the life of batteries, use rechargeable batteries if possible. Only use batteries of the battery type specified in the "Technical specifications" chapter.

Observe the markings on batteries and on the device. Ensure that proper polarity (+/–) is observed when inserting battery.

NOTICE

Possible damage to the device due to leaking batteries when not in use!

Batteries may leak and permanently damage the device.

If you are not using the device for a long time, remove the batteries from the device. Store batteries in their original packaging in a cool dry place.

NOTICE

Potential property damage due to unsuitable stands!

If the product is mounted on an unsuitable stand, there is a risk that the stand will fall over and cause damage.

Only use stands whose maximum load-bearing capacity is at least as high as the weight of the product. Always ensure that the stand is stable.

Comply with regulations

When installing and operating, make sure to follow the standards and regulations that apply in your country.

Mounting options

You can install the device in hanging or standing positions. When in use, the device must always be attached to a solid surface or an approved mount. Use the openings provided on the two-piece bracket for attaching.

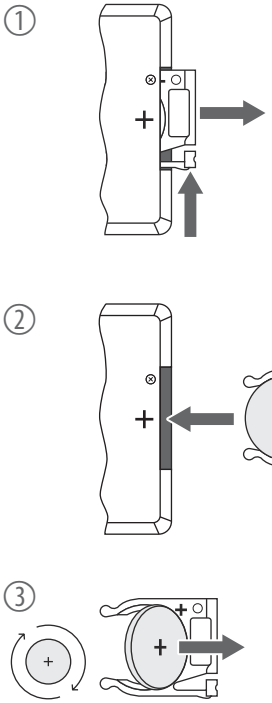
Always work from a stable platform whenever installing, moving or servicing the device. While you do this, the area underneath the device must be cordoned off.

The safety cable must be attached to the bracket.

Infrared receiver for the remote control

The infrared receiver for the signals of the remote control is located on the front, near the central LED. Make sure that the infrared receiver is not obstructed.

Inserting and replacing the battery in the remote control



The following illustrations serve as an example and may differ from the real use case.

1. Loosen the screw of the battery holder on the back of the remote control.
2. Push the lock of the battery holder towards the centre of the housing and pull out the battery holder like a drawer (1).
3. Insert the battery with the correct polarity (+/–) (2).
4. Slide the battery holder into the remote until it clicks into place.
5. Tighten the screw of the battery holder.

   ➡ The battery has been inserted.
6. To replace the battery, loosen the screw of the battery holder on the back of the remote control.
7. Push the lock of the battery holder towards the centre of the housing and pull out the battery holder like a drawer (1).
8. Remove the old battery (3).
9. Insert the new battery with the correct polarity (+/–) (2).
10. Slide the battery holder into the remote until it clicks into place.
11. Tighten the screw of the battery holder.

    ➡ The battery has been replaced.

5 Starting up

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.

Connections in “DMX” mode, 3-pin connections

NOTICE

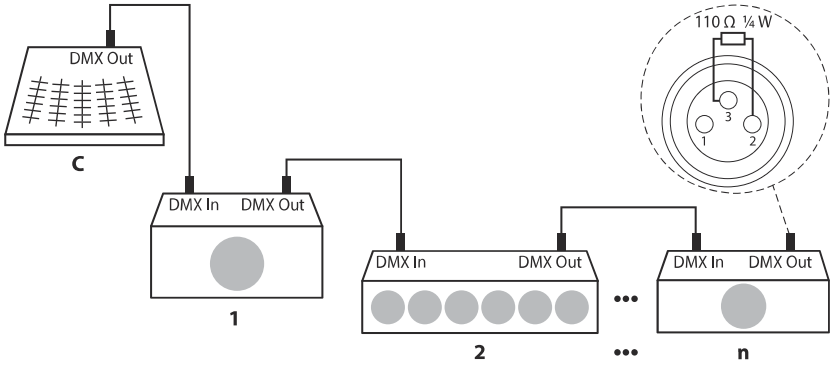
Data transfer errors due to improper wiring!

If the DMX connections are wired incorrectly, this can cause errors during the data transfer.

Do not connect the DMX input and output to audio devices, e.g. mixers or amplifiers.

Use special DMX cables for the wiring instead of normal microphone cables.

Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one and so on, to form a series connection. Make sure that the output of the last DMX device in the chain is terminated by a resistor (110 Ω, ¼ W).



Connections in master/slave mode

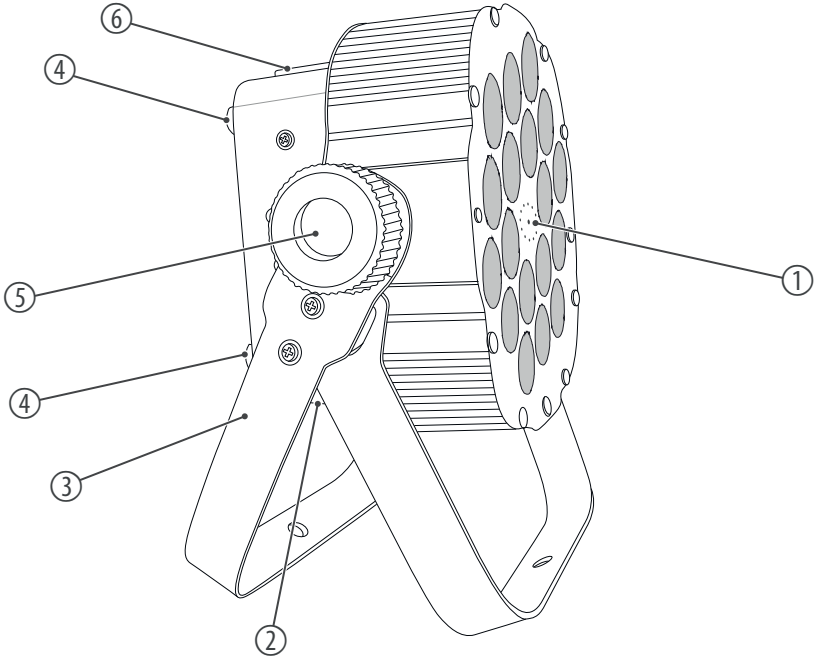
When you configure a group of devices in master/slave mode, the first unit will control the other units for an automatic, sound-activated, synchronized show. This function is ideal when you want to start a show immediately. Connect the DMX output of the master device to the DMX input of the first slave device. Then connect the DMX output of the first slave device to the DMX input of the second slave device and so on.

DMX indicator

When the device and the DMX controller are operational, the DMX indicator in the display shows that a DMX signal is being received on the input.

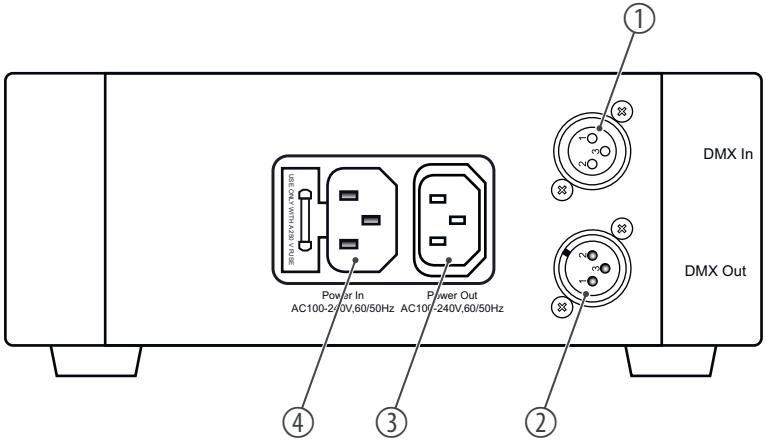
6 Connections and controls

Overview



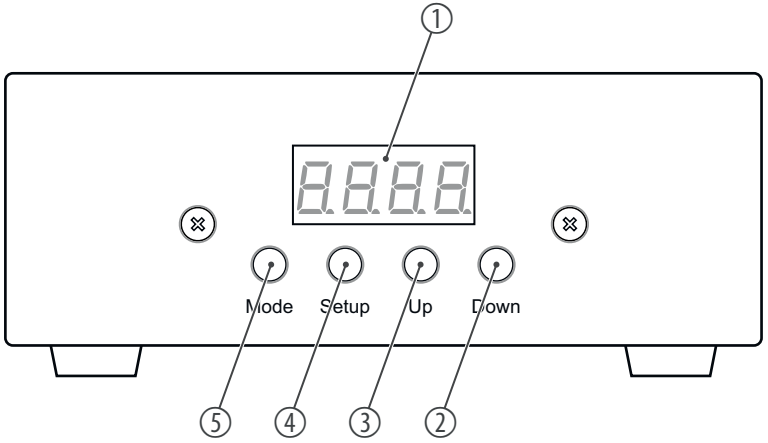
1	Infrared sensor for the remote control signals
2	Bottom side with inputs (DMX and power supply)
3	Mounting brackets for floor placement or hanging
4	Rubber feet for floor placement
5	Locking screws for the mounting brackets
6	Tops side with operating elements

Connection panel



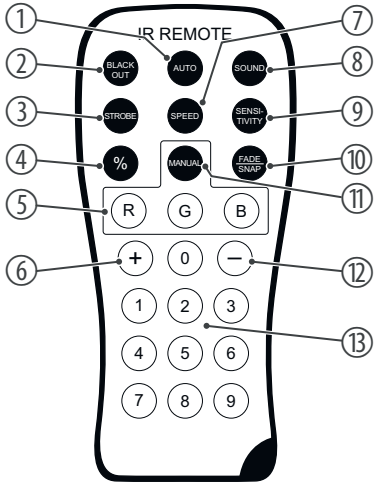
1	*[DMX In]* | DMX input, designed as an XLR panel connector (3-pin)
2	*[DMX Out]* | DMX output, designed as an XLR panel connector (3-pin)
3	*[Power Out]* | Rubber panel socket for the power supply cable to the next device
4	*[Power In]* | Rubber panel plug for the power supply with fuse holder

Operating elements



1	Display
2	*[Down]* | navigates downwards in a menu list. Decreases the displayed value by one.
3	*[Up]* | navigates upwards in a menu list. Increases the displayed value by one.
4	*[Setup]* | Selects an option of the respective operating mode.
5	*[Mode]* | Activates the main menu and toggles between menu items.

Infrared remote control (item no. 322277)



1	*[AUTO]* | Activates automatic mode.
2	*[BLACK OUT]* | Enables and disables blackout.
3	*[STROBE]* | enables or disables the strobe effect with the last selected colour.
4	*[%]* | Resets the displayed value to zero when adjusting values (strobe speed, sensitivity of the sound control).
5	*[R]*, *[G]*, *[B]* | Sets the intensity of the three primary colours red, green and blue when a constant colour is displayed.
6	*[+]* | Increases the set value.
7	*[SPEED]* | enables the setting mode for the strobe speed. Adjust the speed using *[+]* and *[–]*.
8	*[SOUND]* | Activates sound-control.
9	*[SENSITIVITY]* | enables the setting mode for the sound control. Adjust the sensitivity of the built-in microphone with *[+]* and *[–]*.
10	*[FADE/SNAP]* | No function
11	*[MANUAL]* | Activates the display of a constant colour, which you can either mix individually from the primary colours using *[R]*, *[G]* and *[B]*, or selected directly with one of the coloured buttons.
12	*[–]* | Decreases the set value.
13	*[0 … 9]* | Selects a mixed colour.

7 Operation

7.1 Starting the device

- Connect the device to the power grid.
  - ➡ After a few seconds, the display indicates that a reset is in progress.
  - ➡ The device is operational.
  - ➡ The display shows the operating mode that was selected when the device was last powered off.

7.2 Navigating the menu

1. Press *[Mode]* to activate the main menu and select an operating mode.
2. Press *[Setup]* to select further options.
3. Press *[Up]* and *[Down]* to change the currently displayed value. The device instantly applies the displayed value, you don't need to push a button for confirmation.

If you don't press any button for about ten seconds the display turns off. It will be reactivated to display the previously shown menu by pressing any button.

The set values are retained even when the device is disconnected from the mains power supply. To delete all settings you have made, proceed as described under ➦ *Chapter 7.9 'Resetting to factory defaults' on page 33*.

7.3 Setting the DMX address

Each device must be assigned a DMX address if it is operated via a DMX controller. The device will only react to control signals that are received on the set DMX address. To combine multiple devices into a group, it is possible to assign the same DMX address to the relevant devices.



In addition to the set DMX address, a device always occupies the number of DMX channels that are set as DMX mode on the device. Other devices that will be controlled individually must always be assigned the next free DMX address according to the channel assignment of other devices. Partial overlaps of channels can cause unintended effects.

Example:

If the first device is set to the '3-ch' DMX mode with the DMX address 1, the next device must be set to DMX address 4 or higher.

The rule is: DMX address of additional device = DMX address of first device + DMX mode

1. Press *[Mode]* until the display shows *'dxxx'*.

2. Use *[UP]* or *[DOWN]* to assign a DMX address in the a range *'d.001'*…*'d.510'* (highest possible DMX address in three-channel operation) to the device.

Make sure that this number matches the configuration of your DMX controller. The following table shows the highest possible DMX address for the various DMX modes.

Mode	Display	Highest possible DMX address
3-channel	*'3-ch'*	510
5-channel	*'5-ch'*	508
7-channel	*'7-ch'*	506

7.4 Setting the DMX mode

This setting can only be activated if the device is controlled via a DMX controller.

1. Press *[Mode]* until the display shows *'dxxx'*.
2. Press *[Setup]*.
3. Use *[UP]* or *[DOWN]* to select the desired DMX mode (display *'3-ch'*, *'5-ch'* or *'7-ch'*).

7.5 Setting the operating mode

Automatic mode

Automatic mode can only be activated if the device is operating in stand-alone mode or as the master in a master/slave configuration and if the device is not controlled via a DMX controller.

- Press *[Mode]* until the display shows *'AUTO'*.
  - ➡ The playback of the built-in automatic program starts automatically.

“Slave” mode

This setting can only be activated if the device is operating in stand-alone mode or as the master in a master/slave configuration and if the device is not controlled via a DMX controller.

- Press *[Mode]* repeatedly until the display shows *‘SLAv’*.
  - ➡ The device exactly follows the operation of the master device to which it is connected.

7.6 Setting the pre-programmed automatic show

A pre-programmed automatic show can only be activated if the device is operating in stand-alone mode or as master in a master/slave combination. This setting is only relevant if the device is not controlled via DMX.

1. Press *[Mode]* until the display shows *‘Pr.XX’*.
2. Use *[Up]* or *[Down]* to select a value between *‘Pr.01’* and *‘Pr.09’*.
   - ➡ The selected pre-programmed automatic show is active.

Settings for programme 01

For *'Pr.01'*, you can choose from 10 predefined colours or blackout.

1. Press *[Setup]*.
2. Use *[Up]* or *[Down]* to select one of the colours (*'1.__r'* to *'9.-on'*) or blackout (display *'0.OFF'*).
3. Press *[Setup]* again to adjust the strobe frequency.
   ➡ The display shows *'FS.xx'*.
4. Use *[Up]* or *[Down]* to select a value between *'FS.00'* (slow) and *'FS.99'* (fast).

Settings for programmes 02 to 09

1. To adjust the programme speed, press *[Setup]*.
   ➡ The display shows *'SP.xx'*.
2. Use *[Up]* or *[Down]* to select a value between *'SP.01'* (slow) and *'SP.FL'* (fast).
3. Press *[Setup]* again to adjust the strobe frequency.
   ➡ The display shows *'FS.xx'*.
4. Use *[Up]* or *[Down]* to select a value between *'FS.00'* (slow) and *'FS.99'* (fast).

7.7 Setting the sound control

The sound controlled automatic show can only be activated when the device is operating in stand alone mode or as master in a master/slave combination. This setting is only relevant if the device is not controlled via DMX.

1. Press *[Mode]* until the display shows *'SOud'*.
   ➡ The sound-controlled automatic show is activated.
2. Press *[Setup]*.
3. Use *[Up]* or *[Down]* to set the sensitivity for sound control in a range from *'SV.00'* (low sensitivity)…*'SV.31'* (high sensitivity).

7.8 Setting the constant colour

A constant colour can only be activated when the device is operating in stand-alone mode or as master in a master/slave combination. This setting is only relevant if the device is not controlled via DMX.

1. Press *[Mode]* until the display shows *'Colr'*.
2. Press *[Setup]*.
   ➡ The display shows the setting for one of the primary colours (*'r.xxx'*, *'g.xxx'* or *'b.xxx'*).
3. Press *[Setup]* to change the colour.
4. Use *[Up]* or *[Down]* to set the colour intensity:

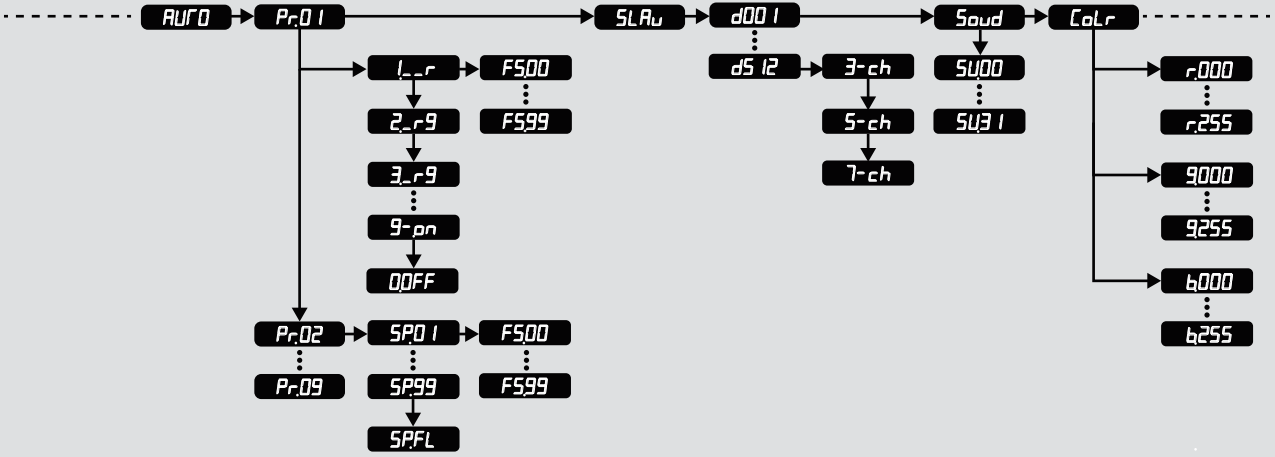
Display	Meaning
'r.000'…'r.255'	Red
'g.000'…'g.255'	Green
'b.000'…'b.255'	Blue

7.9 Resetting to factory defaults

→ To reset the settings to factory defaults, simultaneously hold down *[Mode]* and *[Setup]* for five seconds during power-on.

➧ The device is immediately reset to the factory defaults.

7.10 Menu overview



7.11 Temperature monitoring

If the temperature inside the device becomes too high, the device switches itself off automatically. In this case, let the device cool down before powering it up again.

The temperature-controlled shut-off function is constantly monitored by the device. If a defect is detected, the value *'rt'* is flashing in the display. In this case, please contact our service centre. Contact details can be found at➦ *www.thomann.de*.

7.12 Functions in 3-channel DMX mode

Channel	Value	Function
1	0…255	Red intensity (0%…100%)
2	0…255	Green intensity (0%…100%)
3	0…255	Blue intensity (0%…100%)

7.13 Functions in 5-channel DMX mode

Channel	Value	Function
1	0…255	Red intensity (0%…100%)

Channel	Value	Function
2	0…255	Green intensity (0%…100%)
3	0…255	Blue intensity (0%…100%)
4	0…255	Dimmer (0%…100%)
5	0…255	Strobe effect, increasing speed

7.14 Functions in 7-channel DMX mode

Channel	Value	Function
1	0…255	Dimmer (0%…100%)
2	0…255	Red intensity (0%…100%) if channel 5 = 0
3	0…255	Green intensity (0%…100%) if channel 5 = 0
4	0…255	Blue intensity (0%…100%) if channel 5 = 0
5	Operating mode	
	0	Manual mode, all colours can be adjusted via channels 2…4
	1…27	Pre-programmed automatic show no. 1
	28…55	Pre-programmed automatic show no. 2

Channel	Value	Function
	56…83	Pre-programmed automatic show no. 3
	84…111	Pre-programmed automatic show no. 4
	112…139	Pre-programmed automatic show no. 5
	140…167	Pre-programmed automatic show no. 6
	168…195	Pre-programmed automatic show no. 7
	196…223	Pre-programmed automatic show no. 8
	224…251	Pre-programmed automatic show no. 9
	252…255	Sound-controlled show
6	Constant colour if channel 5 = 1…24:	
	0…27	Dark
	28…55	Red
	56…83	Orange
	84…111	Yellow
	112…139	Light green
	140…167	Light blue
	168…195	Blue

Channel	Value	Function
	196…223	Purple
	224…251	Pink
	252…255	Red + green + blue
	Running speed if channel 5 = 25…255:	
	0…255	Increasing speed
7	0…255	Strobe effect, increasing speed

8 Technical specifications

		Item no. 317335	Item no. 414494
Light source		18 × RGB, 3 W	
Optical properties	Beam angle	25°	45°
Control	Buttons and display on the device, DMX512-A, infrared remote control		
Number of DMX channels	3, 5 or 7		
Input connections	Power supply	1 × rubber panel plug C14	
	DMX control	1 × XLR panel connector (3-pin)	
Output connections	Power supply	1 × rubber panel socket C13	
	DMX control	1 × XLR panel connector (3-pin)	
Power consumption	60 W		
Power factor	0.8		
Rated current	0.3 A @230 V		
Supply voltage	100 – 240 V ~ 50/60 Hz		
Fuse	5 mm × 20 mm, 2 A, 250 V, slow blow		

		Item no. 317335	Item no. 414494
Remote control battery (available as an option)	Battery type	1 × non-rechargeable lithium battery (CR2025)	
	Voltage	3 V	
International Protection Rating	IP20		
Mounting options	Hanging, standing		
Dimensions (W × H × D)	210 mm × 270 mm × 135 mm (without bracket)		
Weight	2.9 kg		
Ambient conditions	Temperature range	0 °C…40 °C	
	Relative humidity	20%…80% (non-condensing)	

Further information

	Item no. 317335	Item no. 414494
Design	Flat PAR	Flat PAR
Colour mix	RGB	RGB
LED type	x-in-1	x-in-1
Floor housing	Yes	Yes
Fanless	No	No
Wireless DMX	No	No
Housing colour	Black	Black

9 Plug and pin assignments

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment so that a perfect light experience is guaranteed.

Please take our tips, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into a socket, the result of an incorrect connection may be a destroyed DMX controller, a short circuit or 'just' a not working light show!

DMX connections, 3-pin

A 3-pin XLR socket serves as the DMX output, and a 3-pin XLR plug serves as the DMX input. The drawing below and the table show the pin assignment of a matching coupling.



Pin	Assignment
1	Ground (shielding)
2	Signal inverted (DMX–, "Cold")
3	Signal (DMX+, "Hot")

10 Troubleshooting

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
The device is not working, no light, the fan is not running	Check the mains connection and the fuse.
No response to the DMX controller	1. If the device is in DMX mode and a DMX controller is connected and turned on, the first digit *'d'* of the display is flashing. If this is not the case, no valid DMX signal is being received. Check that the DMX controller is switched on. Check that the DMX connections and cables are connected properly.
	2. If the DMX indicator lights up and there is no response, check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check whether the DMX cables run near or parallel to high-voltage cables that may cause damage or interference to a DMX interface circuit.

Symptom	Remedy
No response to the remote control	1. Try using the remote control at a different angle to the receiver on the front of the device.
	2. Move the remote control closer to the device.
	3. Check the remote control battery.
Unintended light effects	Make sure that the DMX channel assignments of the devices do not overlap, and that the DMX start address of a device with independent control is always the corresponding number of channels higher than the address set for DMX mode on another device.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at ➦ *www.thomann.de*.

11 Cleaning

Optical lenses

Regularly clean the optical lenses that are accessible from the outside in order to optimise the light output. The cleaning frequency depends on the operating environment: Damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the optics of the device.

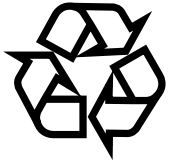
- Clean the parts with a soft cloth and our lamp and lens cleaner (item no. 280122).
- Always dry the parts carefully.

Fan grids

The fan grids of the device must be cleaned of any contamination, such as dust, etc. on a regular basis. Before cleaning, switch off the device and disconnect mains-operated devices from the mains. Only use pH-neutral, solvent-free and non-abrasive cleaning agents. Clean the unit with a slightly damp lint-free cloth.

12 Protecting the environment

Disposal of the packing material



Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

Do not dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the instructions and markings on the packaging.



Observe the disposal note regarding documentation in France.

Disposing of lithium batteries



As an end user, you are obliged to dispose of lithium batteries responsibly as they contain hazardous substances that, if improperly handled, can endanger the environment, health and safety. Always pay attention to the symbol of the crossed-out waste container – it indicates that batteries must be collected separately.

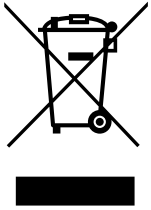
Before disposal, check whether lithium batteries can still be used in other devices. You can pass on used but still functional lithium batteries for reuse. Take advantage of the return options offered so that lithium batteries can be reprocessed or recycled. Check local lithium battery reuse or reprocessing programs.

Never dispose of lithium batteries via household waste or by illegally dumping them in the environment, but always separate them from other waste. Improper disposal can release harmful substances and cause significant hazards to humans and nature.

Only dispose of lithium batteries in line with the local regulations on the disposal of hazardous waste. Use the available collection sites or contact your local waste disposal facility. Only dispose of lithium batteries when they are empty. Take out any removable lithium batteries from the device before disposal if this is possible without destroying it. Protect used lithium batteries against short circuit, for example by taping the poles. Dispose of permanently installed lithium batteries together with the device. Check for an appropriate collection facility.

By following these instructions, you are making an important contribution to the protection of people and the environment.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. If in doubt, consult your local waste management facility. You can also return the device to a retailer if they offer to take the device back for free or if they are legally obliged to do so. When disposing of the device, comply with the rules and regulations that apply in your country. You can also return your old device to Thomann GmbH at no charge. Check the current conditions on ➦ *www.thomann.de*.

Proper disposal protects the environment as well as the health of your fellow human beings. This is because the proper handling of old devices negates the potential negative effects of hazardous substances, and because it conserves resources by recycling them.

Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal. For example, use the classified ads of Thomann GmbH.

If your old device contains personal data, delete those data before disposing of it.