STAIRVILLE

LED Flood TRI Panel 7x3W RGB

LED floodlight

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MUSIC IS OUR PASSION

user manual

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1 General information

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

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under *www.thomann.de*.

1.1 Further information

On our website (*www.thomann.de)* you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'*, *'OFF'*.

Cross-references

References to other locations in this manual are identified by an arrow and the specified page number. In the electronic version of the manual, you can click the cross-reference to jump to the specified location.

Example: See *'Cross-references' on page 7*.

1.3 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 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.
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 – dangerous optical radiation.
	Warning – suspended load.
	Warning – danger zone.

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 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 life of the device by regular breaks in operation and avoid switching it on and off frequently. This device is not suitable for continuous use.

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.

Do not use the device if covers, protectors or optical components are missing or damaged.

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.

WARNING!

Eye damage caused by high light intensity

Never look directly into the light source.

WARNING!

Risk of epileptic shock

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.

NOTICE!

Risk of fire

Do not block areas of ventilation. Do not install 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.

Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures).

Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.

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.

NOTICE!

Risk of fire due to incorrect polarity

Incorrectly inserted batteries may destroy the device or the batteries.

Ensure that proper polarity is observed when inserting batteries.

NOTICE!

Possible damage by leaking batteries

Leaking batteries can cause permanent damage to the device.

Take batteries out of the device if it is not going to be used for a longer period.

NOTICE!

Possible damage due to installation of a wrong fuse

The use of different types of fuses can cause serious damage to the unit. Fire hazard!

Only fuses of the same type may be used.

3 Features

This LED floodlight is suitable for use in clubs, bars, theatres, exhibitions, etc.

Special features of the device:

- 7 × tri-colour LEDs, 3 W each
- Control via DMX (3, 4 or 8 channels) and via buttons and display on the unit or optionally available infrared remote control
- Automatic mode and sound control
- Master / Slave operation
- Robust metal housing

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.

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.

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!

Risk of overheating

The distance between light output and the illuminated surface must be more than 1.5 m (19.7in).

Provide sufficient ventilation.

The ambient temperature must always be below 40 °C (104 °F).

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.

NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

Mounting options

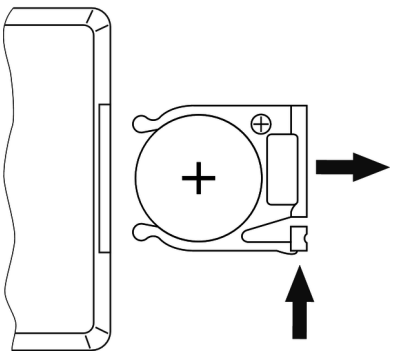
You can install the unit in hanging or standing position. When in use, the device must always be attached to a solid surface or an approved truss. Use the openings provided on the two-piece bracket for attaching.

Always work from a stable platform whenever installing, moving or servicing the unit. In doing so, the area underneath the unit must be cordoned off.

The safety cable must be routed through the safety eyelet on the rear side (*Chapter 6 'Connections and operating elements' on page 26*).

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

Inserting the battery into the remote control



Press the lock of the battery holder to the centre of the housing and pull out the battery holder like a drawer. Insert the battery. The battery is correct if the positive pole points to the housing base of the remote control. Slide the battery holder back into the remote until it clicks into place.

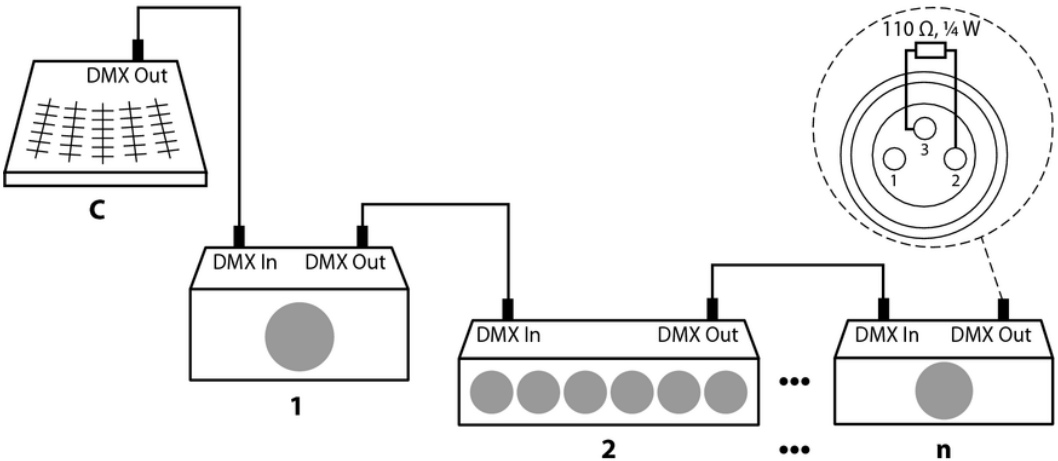
When shipping, the battery is already installed in the remote and protected against discharge by a transparent plastic foil. Remove the plastic foil prior to first use.

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

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 daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor (110 Ω, ¼ W).

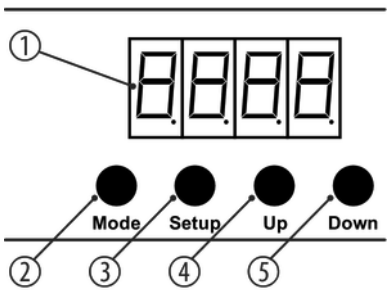


Connections in master/slave mode

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.

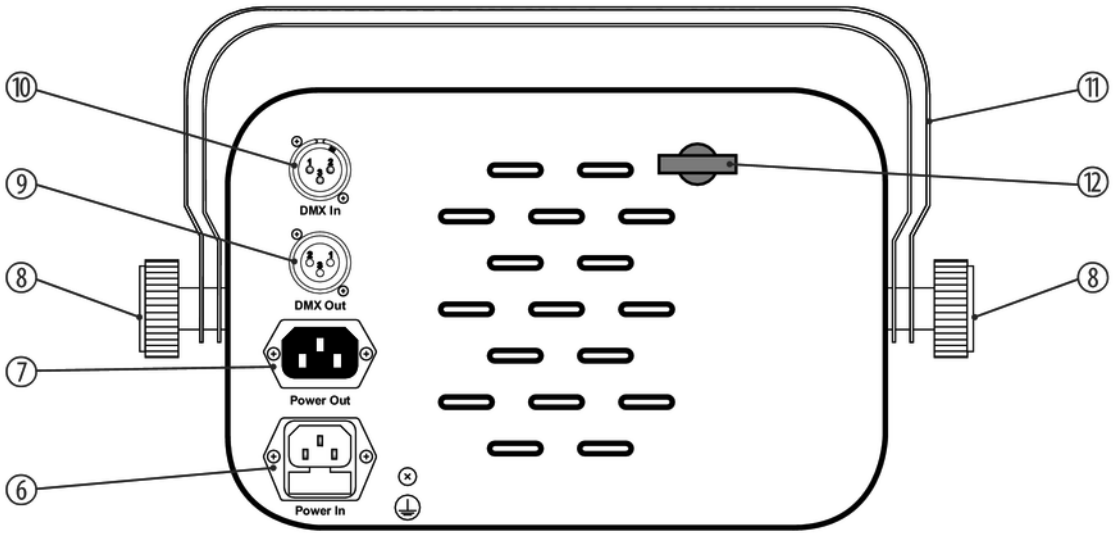
6 Connections and operating elements

Top side



1	Display.
2	*[Mode]* Calls the main menu or a submenu.
3	*[Setup]* Confirms a selected value.
4, 5	*[Up]*, *[Down]* To increase / decrease the displayed value by one.

Rear panel

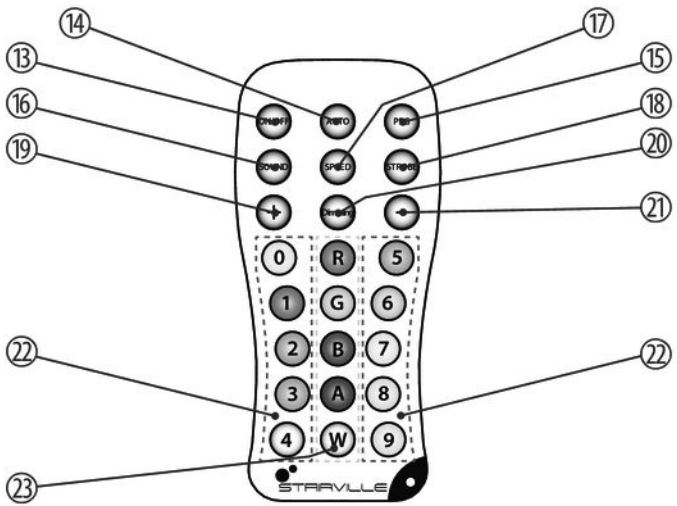


6	*[Power In]* IEC chassis connector for the power cable with fuse holder. Below, the range of the allowable input voltage is specified.
7	*[Power Out]* IEC chassis socket for the power supply cable to the next unit.
8	Locking screws for the mounting brackets.
9	*[DMX Out]* DMX output.
10	*[DMX In]* DMX input.
11	Bracket for floor placement or hanging.
12	Safety eyelet.

Infrared sensor for remote control (optional)

The infrared sensor for the signals from an optionally available remote control is located on the front panel of the device. Make sure it's not covered.

Remote control (optional)



13	*[ON/OFF]* Button to turn the device on and off.
14	*[AUTO]* Activates the ‘Automatic‘ mode.
15	*[PRG]* Activates the operating mode ‘Preprogrammed automatic show’.
16	*[SOUND]* Activates the ‘Sound Control’ mode.
17	*[SPEED]* Adjusts the process speed in ‘Preprogrammed automatic show’ mode.
18	*[STROBE]* Activates the strobe effect in ‘Preprogrammed automatic show’ mode.
19	*[+]* Increases the displayed value by one.

20	*[Dimming]* Brightness control.
21	*[–]* Decreases the displayed value by one.
22	*[0]* … *[9]* Numeric keys.
23	Buttons for colour selection. Use ■ *[W]* for white light, ■ *[A]* for amber light, ■ *[R]*, *[G]* or *[B]* for primary colours red, green and blue, ■ the coloured buttons for directly selecting a mixed colour.

7 Operating

7.1 Starting the device

Connect the device to the power supply to start operation. After a few seconds, the display indicates that a reset is in progress. The device is then ready for use.

7.2 Main menu

Press *[MODE]* to activate the main menu and select an operating mode. Use the buttons *[Up]* and *[Down]* to change the respectively indicated value. When the display shows the desired value, press *[MODE]*.

If you don't press any button for about 20 seconds, the unit returns to the previously selected mode. The set values are retained even when the device is disconnected from the mains power supply.

DMX mode

Press *[Mode]* repeatedly until the display shows *'d.xxx'*. Now you can set the number of the first DMX channel to be used by the device (DMX address). Use the buttons *[Up]* and *[Down]* to select a value between 1 and 510 (the display shows *'d.001'* … *'d.510'*).

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	Highest possible DMX address
3-channel	510
4-channel	509
8-channel	505

Confirm with *[Setup]*. With the buttons *[Up]* and *[Down]* you can now select one of the following DMX operating modes:

- *'3-ch'* (three channels)
- *'4-ch'* (four channels)
- *'8-ch'* (eight channels)

This setting is only relevant if the device is controlled via DMX. When the display shows the desired value, press *[Setup]* to confirm the selection and then *[Mode]* to return to the parent menu. To return to the parent menu without making changes, press *[Mode]*.

Operating mode 'Show/Master'

Press *[Mode]* repeatedly until the display shows *'Pr.xx'*. Now you can select one of the 10 pre-programmed automatic shows. Use the buttons *[Up]* and *[Down]* to select a value between *'Pr.01'* and *'Pr.10'*.

Programme	Description
Pr.01	Constant colour hue
Pr.02	Slow transition, all colours
Pr.03	Slow transition, three colours
Pr.04	Fast transition, all colours
Pr.05	Fast transition, three colours
Pr.06	Random programme 1
Pr.07	Random programme 2
Pr.08	Slow transition bright / dark, red
Pr.09	Slow transition bright / dark, green
Pr.10	Slow transition bright / dark, blue

The auto show can only be activated on the device that works as master.

This setting is only relevant if the device is not controlled via DMX. The device can operate in stand-alone mode or control connected devices of the same type, that must be configured as slaves. When the display shows the desired value, press *[Setup]* to confirm the selection and then *[Mode]* to return to the parent menu. To return to the parent menu without making changes, press *[Mode]*.

Settings programme Pr.01

For programme *'Pr.01'*, you can choose from three full colours and four mixed colours. Select programme *'Pr.01'* first, then confirm with *'Setup'*. Now you can use the *[Up]* and *[Down]* buttons to select one of the following options:

Value	Description
1.--r	Red
2.-rg	Red and green
3.--g	Green
4.-gb	Green and blue
5.--b	Blue
6.-rb	Red and blue
7.rgb	Red, green and blue

Confirm the selection with *[Setup]*. In the menu, you can use the *[Up]* and *[Down]* buttons to set the intensity of the various hues.

Confirm again with *[Setup]*. In the following menu, you can use the *[Up]* and *[Down]* buttons to set the strobe speed for the various hues in a range from *'FS00'* to *'FS99'*.

Settings programme Pr.02 … Pr.10

For programmes *'Pr.02'* to *'Pr.01'*, you can additionally set the speed for the transition from one hue to the next. Use the buttons *[Up]* and *[Down]* to select a value between 'slow' and 'fast' (the display shows *'SP.01'* … *'SP.99'*).

Confirm again with *[Setup]*. In the following menu, you can use the *[Up]* and *[Down]* buttons to set the strobe speed for the various hues in a range from *'FS00'* to *'FS99'*.

Operating mode 'Slave'

Press *[Mode]* repeatedly until the display shows *'SLAv'*. Confirm with *[Setup]*.

This setting is only relevant if the device is operating as Slave controlled by a Master, but not via DMX. When the display shows the desired value, press *[Setup]* to confirm the selection and then *[Mode]* to return to the parent menu. To return to the parent menu without making changes, press *[Mode]*.

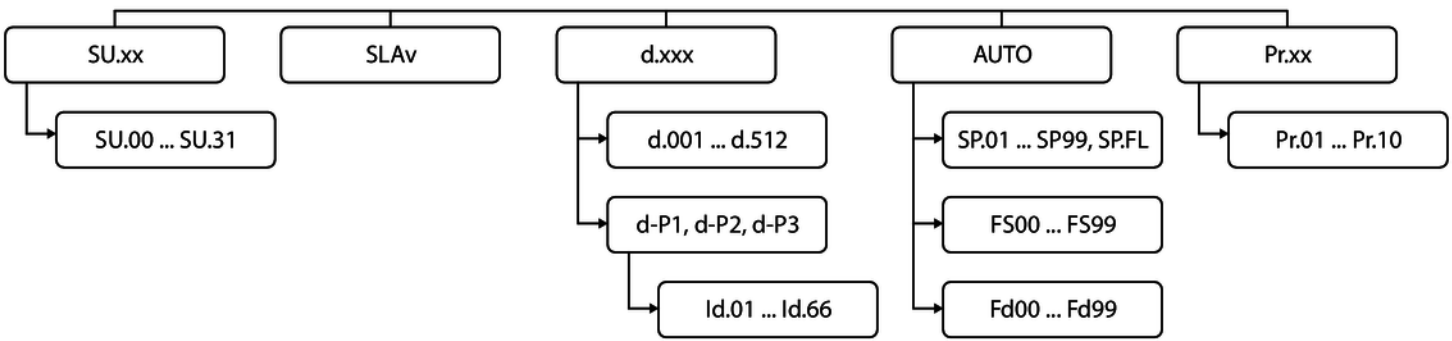
Sound control

The sound controlled automatic show can only be activated when the unit 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.

Press *[Mode]* repeatedly until the display shows *'SU.xx'*. This activates the sound controlled automatic show.

Press *[Setup]* and use *[Up]* and *[Down]* to adjust the sensitivity for the sound control in a range from *'SU.00'* to *'SU.31'*.

7.3 Menu overview



7.3.1 Functions in 3-channel DMX mode

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

7.3.2 Functions in 4-channel DMX mode

Channel	Value	Function
1	0…255	Dimmer (0 % to 100 %)
2	0…255	Intensity Red (0 % to 100 %)
3	0…255	Intensity Green (0 % to 100 %)
4	0…255	Intensity Blue (0 % to 100 %)

7.3.3 Functions in 8-channel DMX mode

In 8-channel DMX mode, you can assign a device ID in the range from *'Id.01'* to *'Id.66'* via DMX menu. By assigning such an ID, several devices that work with the same DMX address can be grouped. One or more connected devices can then be controlled through channel 7.

Channel	Value	Function
1	0…255	Dimmer (0 % to 100 %)
2	0…255	Intensity Red (0 % to 100 %), if channel 6 = 0
	Constant hue, if channel 6 = 1…24	
	0…8	Red: 255
	9…17	Red: 255, Green: 50
	18…26	Red: 255, Green: 150
	27…35	Red: 255, Green: 255
	36…44	Red: 200, Green: 255

Channel	Value	Function
	45…53	Red: 100, Green: 255
	54…62	Red: 40, Green: 255
	63…71	Green: 255
	72…80	Green: 255, Blue: 50
	81…89	Green: 255, Blue: 150
	90…98	Green: 255, Blue: 255
	99…107	Green: 150, Blue: 255
	108…116	Green: 50, Blue: 255
	117…125	Blue: 255
	126…134	Red: 50, Blue: 255
	135…143	Red: 150, Blue: 250
	144…152	Red: 255, Blue: 255
	153…161	Red: 220, Blue: 50

Channel	Value	Function
	162…170	Red: 150, Green: 50, Blue: 100
	171…179	Red: 50, Green: 180, Blue: 220
	180…188	Red: 50, Green: 220, Blue: 100
	189…197	Red: 150, Green: 220
	198…206	Red: 150, Blue: 220
	207…215	Green: 180, Blue: 220
	216…224	Green: 220, Blue: 50
	225…233	Red: 220, Green: 100, Blue: 50
	234…242	Red: 220, Green: 200, Blue: 100
	243…251	Red: 255, Green: 200, Blue: 150
	252…255	Red: 255, Green: 255, Blue: 255
	Process speed, if channel 6 = 25…249	
	0…255	Slow…fast

Channel	Value	Function
	Response characteristic in music operation, if channel 6 = 250…255	
	0…255	Low (0) to high (255)
3	Channel 6 = 0	Intensity Green 0…255 (0 % to 100 %)
	Channel 6 = 1…255	Without function
4	Channel 6 = 0	Intensity Blue 0…255 (0 % to 100 %)
	Channel 6 = 1…255	Without function
5	0…9	Without function
	10…255	Strobe effect, Speed slow…fast
6	0	Constant RGB mix, depending on channels 2, 3 and 4
	1…24	Constant colour, depending on channel 2
	25…49	Pr.02 (slow transition, all colours)
	50…74	Pr.03 (slow transition, three colours)

Channel	Value	Function
	75…99	Pr.04 (fast transition, all colours)
	100…124	Pr.05 (fast transition, three colours)
	125…149	Pr.06 (random programme 1)
	150…174	Pr.07 (random programme 2)
	175…199	Pr.08 (slow transition bright / dark, red)
	200…224	Pr.09 (slow transition bright / dark, green)
	225…249	Pr.10 (slow transition bright / dark, blue)
	250…255	Sound control
7	Control of all devices that use the same DMX address	
	0…9	All IDs
	10…19	ID1
	20…29	ID2
	…	

Channel	Value	Function
	200…209	ID20
	210	ID21
	211	ID22
	…	
	255	ID66
8	0…250	Fast response faders 1, 2, 3 and 4
	251…255	Delayed response faders 1, 2, 3 and 4

8 Technical specifications

Light source	7 × tri-colour LEDs, 3 W each	
Optical properties	Beam angle	40°
Control	DMX	
	IR remote control (optional)	
Number of DMX channels	3, 4, 8	
Input connections	Voltage supply	IEC chassis plug C14
	DMX control	XLR chassis socket, 3-pin
Output connections	Voltage supply	IEC chassis plug C13
	DMX control	XLR chassis socket, 3-pin
Power consumption	30 W	
Supply voltage	100 – 240 V ~ 50/60 Hz	
Fuse	5 mm × 20 mm, 1 A, 250 V, slow-blow	

Degree of protection	IP20	
Mounting options	Hanging, standing	
Dimensions (W × H × D)	300 mm × 200 mm × 60 mm	
Weight	2.6 kg	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	50 %, non condensing

Further information

Design	Flat PAR
Colour mixture	RGB
LED type	x-in-1
Base housing	Yes
Fanless	Yes
Remote control	Optional
Wireless DMX	No
Housing colour	Black

9 Plug and connection 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

The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX–, 'cold signal')
3	Signal (DMX+, 'hot signal')

10 Troubleshooting

NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

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 unit does not work, no light.	Check the mains connection and the fuse.
No response to the DMX controller.	1. Check the DMX ports and cables for proper connection.
	2. Check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check to see if the DMX cables run near or alongside to high voltage cables that may cause damage or interference to DMX interface circuits.

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

Clean the optical lenses, that are accessible from the outside, regularly in order to optimize the light output. The frequency of cleaning depends on the operating environment: wet, smoky or particularly dirty surroundings can cause more accumulation of dirt on the optics of the device.

- Clean with a soft cloth using 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 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) in its currently valid version. 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.

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