

LED IP Bar
320/8 RGB DMX
LED floodlight

Musikhaus Thomann
Thomann GmbH
Hans-Thomann-Straße 1
96138 Burgebrach
Germany
Telephone: +49 (0) 9546 9223-0
E-mail: info@thomann.de
Internet: www.thomann.de

05.12.2019, ID: 347910 (V6)

Table of contents

1	General information	5
	1.1 Further information.....	6
	1.2 Notational conventions.....	7
	1.3 Symbols and signal words.....	7
2	Safety	10
3	Features	15
4	Installation	17
5	Starting up	22
6	Connections and operating elements	25
7	Operating	31
	7.1 Operating on the unit.....	31
	7.2 Menu overview.....	36
	7.3 Remote control functions (optional).....	37
	7.4 Functions in 2-channel DMX mode.....	38
	7.5 Functions in 3-channel DMX mode.....	41

7.6	Functions in 4-channel DMX mode.....	42
7.7	Functions in 7-channel DMX mode.....	42
7.8	Functions in 14-channel DMX mode.....	46
7.9	Functions in 26-channel DMX mode.....	47
8	Technical specifications.....	50
9	Plug and connection assignment.....	53
10	Troubleshooting.....	54
11	Cleaning.....	56
12	Protecting the environment.....	57

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'*.

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 – hot surface.

Warning signs	Type of danger
	Warning – dangerous optical radiation.
	Warning – suspended load.
	Warning – danger zone.

2 Safety

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 short-circuit**

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.



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.



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.

**WARNING!****Risk of burns**

The surface of the device can become very hot during operation.

Do not touch the device with bare hands during operation, and after switching off wait for at least 15 minutes.

**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!

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

The LED floodlight is particularly suited for professional lighting tasks in tour and festival use.

- 240 LEDs (96 × red, 72 × green, 72 × blue)
- special positioning of the LEDs for superior colour mixing already over short distances
- also suited for fixed installation due to extensive control options
- Operating modes
 - DMX (six modes) with the optionally available IP65 DMX adapter cable
 - automatic with 22 preprogrammed shows
 - master / slave
 - manually via optionally available infrared remote control and buttons and display on the unit
- robust and weatherproof metal housing
- splash-proof connectors
- Degree of protection IP65, suitable for outdoor use
- Splashproof safety plug (IP44)
- Two pressure equalisation elements (prevent the development of condensation inside the device)

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.

Information about protection class IP65

Equipment with protection class IP65 are dust-tight and completely protected against contact (first code number). They are also protected against splash water from any angle (second code digit). That is why this equipment can also be used outdoors. Event technology equipment is generally only designed for temporary use however (event lighting) and not for permanent use outdoors.

The specified protection class does not make a statement about the weather resistance of the equipment (resistance to changing ambient conditions as well as against the effects of sunlight and UV rays).

The seals and screw connections of the equipment must be checked regularly to ensure a fault-free operation. In cases of doubt, consult a specialist workshop in due time.

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

Always ensure sufficient ventilation.

The ambient temperature must not exceed the limits stated in the chapter Technical Specifications of the User Manual.



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.



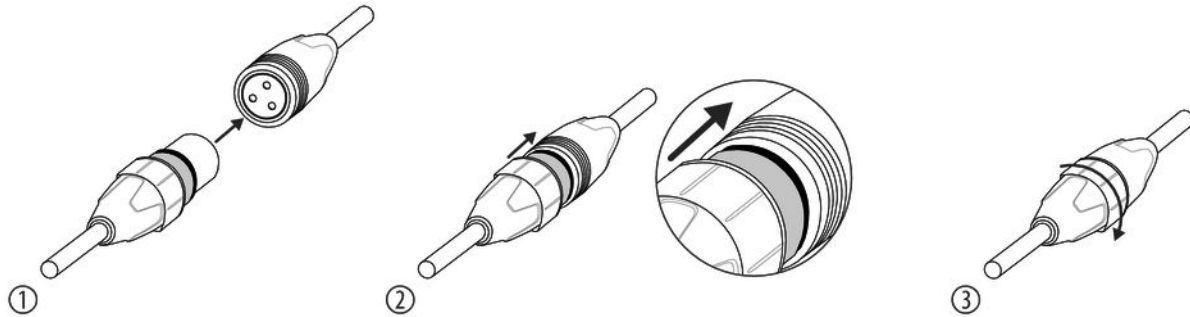
NOTICE!

Possible damage due to moisture

Moisture entering into open connectors (plugs and couplers) of DMX or power cords can cause short circuits.

Close unused connectors with end caps intended for this purpose (www.thomann.de).

Connecting the DMX IP65 connectors



Proceed as follows to connect the DMX-IP65 connectors:

1. ➤ Insert the plug completely and straight into the coupling.
2. ➤ Make sure that the flexible sealing ring has complete contact.
3. ➤ Turn the union nut straight onto the thread of the coupling. Hand-tighten the union nut.

Mounting options

You can install the device on the wall, the ceiling or on the floor. Two mounting brackets and the necessary screws are included.

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.



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

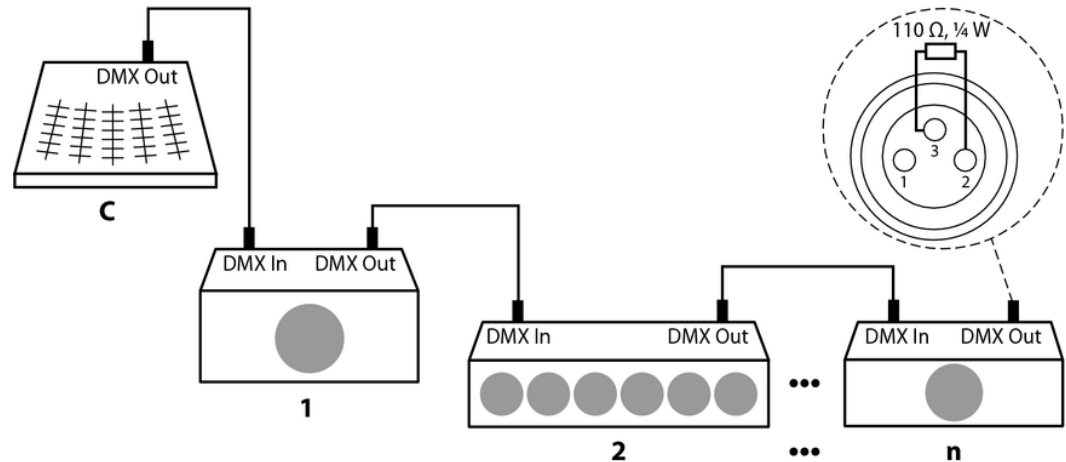
5 Starting up

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 other 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.

Such a chain may consist of up to 30 DMX devices. Make sure that the output of the last device in the chain is terminated by a resistor ($110\ \Omega$, $\frac{1}{4}\ \text{W}$).



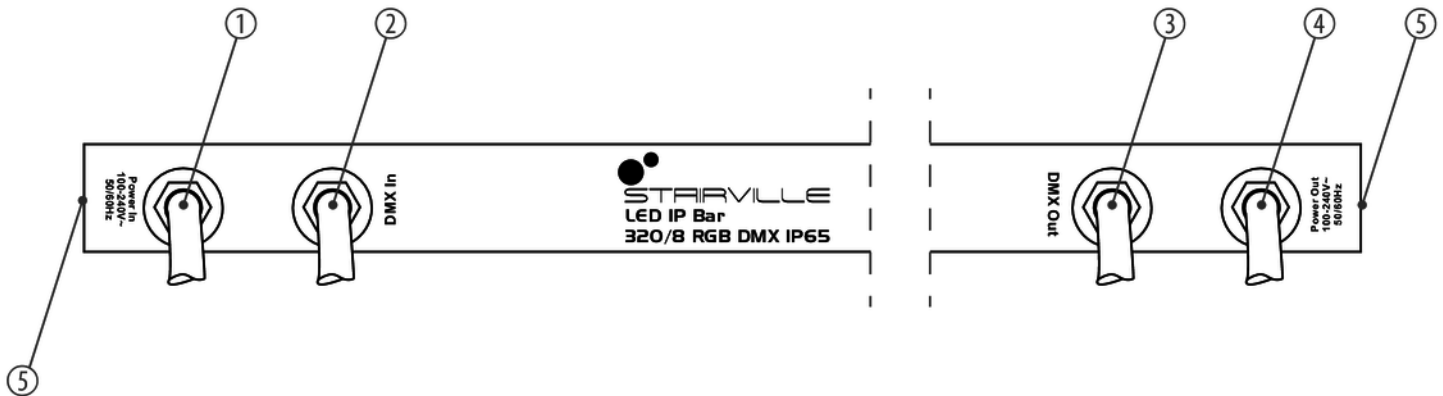
DMX indicator

If the unit is in DMX mode and a DMX controller is connected and turned on, the 'd' is flashing in the first digit of the display.

Connections in 'Master / Slave' mode

When you configure a group of devices in 'Master / Slave' mode, the first device controls the others and allows an automatic, music-controlled and 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 unit to the DMX input of the second slave unit and so on (maximum 30 slaves).

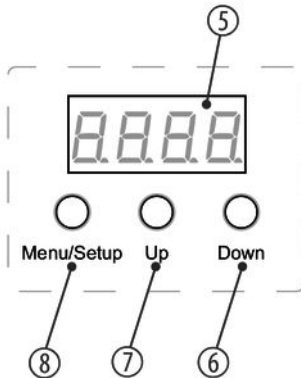
6 Connections and operating elements



LED IP Bar 320/8 RGB DMX

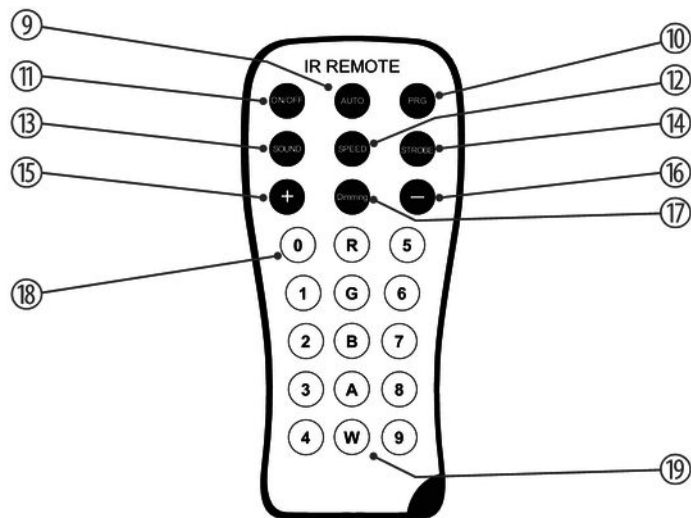
1	<i>[Power In]</i> Power cable.
2	<i>[DMX In]</i> DMX input.
3	<i>[DMX Out]</i> DMX output
4	<i>[Power Out]</i> Voltage supply cable to the next unit (maximal 35 further units)
5	Pressure equalisation elements

Display



5	Display.
6	<i>[Down]</i> Navigates downwards in a menu list. Decreases the displayed value by one.
7	<i>[Up]</i> Navigates upwards in a menu list. Increases the displayed value by one.
8	<i>[Menu / Setup]</i> Enables the main menu, selects an option of the respective operating mode or switches between menu items.

Remote control (optional)



9	<i>[AUTO]</i> Activates the 'Automatic' mode.
10	<i>[PRG]</i> Activates the operating mode 'Preprogrammed automatic show'. Select the desired programme with <i>[+]</i> and <i>[-]</i> .
11	<i>[ON/OFF]</i> Activates / deactivates the device.
12	<i>[SPEED]</i> Activates the setting mode for the programme speed. Adjust the speed using <i>[+]</i> and <i>[-]</i> .
13	<i>[SOUND]</i> No function.
14	<i>[STROBE]</i> Turns the strobe effect on / off.

15	[+] Increases the set value.
16	[-] Decreases the set value.
17	[Dimming] Enables the dimmer function.
18	[0 ... 9] Numeric buttons for direct selection of a fixed colour.
19	[R], [G], [B], [A], [W] Buttons to select a colour tone for the dimmer mode.

7 Operating

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.

7.1 Operating on the unit

Press *[Menu/Setup]* for two seconds to activate the main menu and select an operating mode. Use *[Up]* and *[Down]* to change the respectively displayed value. When the display shows the desired value, press *[Menu/Setup]*.

If you don't press any button for about 20 seconds, the current setting will be automatically applied and the display turns off. The set values are retained as long as the device is connected to the mains power supply.

Operating mode 'Preprogrammed automatic show'

A preprogrammed 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 *[Menu/Setup]* repeatedly until the display shows 'Prxx'. Now you can select one of the preprogrammed automatic shows. Use *[Up]* and *[Down]* to select a value between 'Pr01' and 'Pr22'.

For programme Pr01, you can set one of seven static colours across all segments. Press *[Menu/Setup]* and use *[Up]* and *[Down]* to select a desired colour: red, yellow, green, cyan, blue, pink, white. After selection, press again *[Menu/Setup]* to set the flash frequency. Use *[Up]* and *[Down]* to select a value between 'FS00' (slow) and 'FS99' (fast).

For programmes Pr20 and Pr21 you can set a static colour across all segments (background colour) or a colour that lights up segment-wise (hopping colour). Press *[Menu/Setup]* repeatedly until the display shows '1.xxx' (background colour) or '2.xxx' (hopping colour), respectively.

To adjust the speed of the selected auto show, press *[Menu/Setup]* repeatedly until the display indicates 'S.xx'. Now use *[Up]* and *[Down]* to select a value between 'S.01' (slow) and 'S.99' (fast) or 'SPFL' (Flash effect).

To adjust the flash frequency, press *[Menu/Setup]* repeatedly until the display shows 'F.xx'. Now use *[Up]* and *[Down]* to select a value between 'F.00' (slow) and 'F.99' (fast).

Operating mode 'Automatic'

Automatic operation 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 [*Menu/Setup*] repeatedly until the display shows 'Auto'. The playback of the selected pre-programmed show starts automatically.

DMX address

This setting is only relevant when the device is controlled via DMX.

Press *[Menu/Setup]* repeatedly until the display shows 'dxxx'.

Now you can set the number of the first DMX channel to be used by the device (DMX address). Use *[Up]* and *[Down]* to select a value between 1 and 512 (display shows 'd001' ... 'd512').

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

Mode	Highest possible DMX address
2-channel	511
3-channel	510
4-channel	509
7-channel	506
14-channel	499
26-channel	487

DMX mode

This setting is only relevant when the device is controlled via DMX.

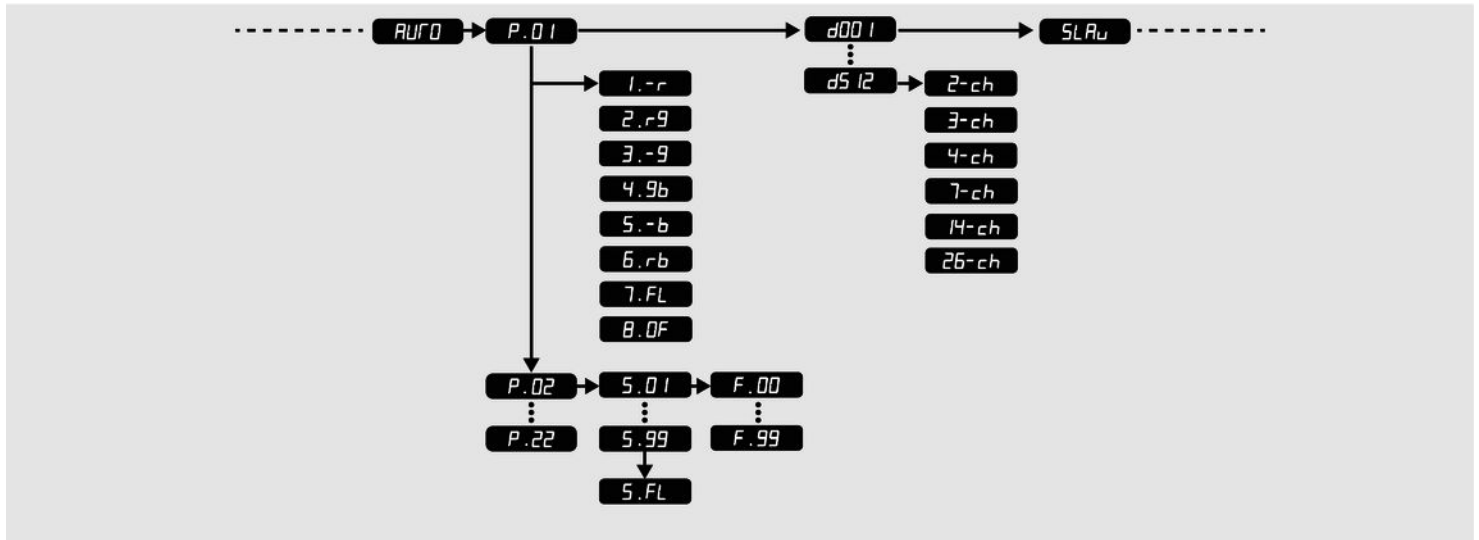
Press *[Menu/Setup]* repeatedly until the display shows 'dxxx'. Now use *[Up]* and *[Down]* to select one of the following DMX operating modes:

- '2-ch' (two channels)
- '3-ch' (three channels)
- '4-ch' (four channels)
- '7-ch' (seven channels)
- '14-ch' (fourteen channels)
- '26-ch' (twenty-six channels)

Operating mode 'Slave'

This setting is only relevant if the device is serving as Slave in a Master / Slave configuration and is not controlled via DMX.

7.2 Menu overview



7.3 Remote control functions (optional)

Direct selection of a fixed colour Use the numeric buttons on the remote control to select a desired fixed colour directly. This setting is only relevant if the device is not controlled via DMX.

Value	Fixed colour
0	Cyan
1	Violet
2	Red
3	Orange
4	White
5	Pink
6	Green
7	Blue

Value	Fixed colour
8	Yellow
9	Warm white

Dimmer function

Use the letter buttons on the remote control to select a particular colour tone directly and with the buttons *[+]* and *[-]* you can adjust the dimming factor. This setting is only relevant if the device is not controlled via DMX.

7.4 Functions in 2-channel DMX mode

Channel	Value	Function
1	0 ... 8	LEDs off
	9 ... 17	Constant unicoloured pattern red
	18 ... 26	Constant unicoloured pattern yellow

Channel	Value	Function
	27 ... 35	Constant unicoloured pattern green
	36 ... 44	Constant unicoloured pattern cyan
	45 ... 53	Constant unicoloured pattern blue
	54 ... 62	Constant unicoloured pattern pink
	63 ... 71	Constant unicoloured pattern white
	72 ... 80	Preprogrammed automatic show PR01
	81 ... 89	Preprogrammed automatic show PR02
	90 ... 98	Preprogrammed automatic show PR03
	99 ... 107	Preprogrammed automatic show PR04
	108 ... 116	Preprogrammed automatic show PR05
	117 ... 125	Preprogrammed automatic show PR06
	126 ... 134	Preprogrammed automatic show PR07
	135 ... 143	Preprogrammed automatic show PR08

Channel	Value	Function
	144 ... 152	Preprogrammed automatic show PR09
	153 ... 161	Preprogrammed automatic show PR10
	162 ... 170	Preprogrammed automatic show PR11
	171 ... 179	Preprogrammed automatic show PR12
	180 ... 188	Preprogrammed automatic show PR13
	189 ... 197	Preprogrammed automatic show PR14
	198 ... 206	Preprogrammed automatic show PR15
	207 ... 215	Preprogrammed automatic show PR16
	216 ... 224	Preprogrammed automatic show PR17
	225 ... 233	Preprogrammed automatic show PR18
	234 ... 242	Preprogrammed automatic show PR19
	243 ... 251	Preprogrammed automatic show PR20
	252 ... 255	Preprogrammed automatic show PR21

Channel	Value	Function
2		No function, if channel 1 = 0...71
	0 ... 255	Programme process speed, if channel 1 = 72...255

7.5 Functions in 3-channel DMX mode

Channel	Value	Function
1	0 ... 255	Intensity (0 % ... 100 %) of the 128 red LEDs
2	0 ... 255	Intensity (0 % ... 100 %) of 96 green LEDs
3	0 ... 255	Intensity (0 % ... 100 %) of 96 blue LEDs

7.6 Functions in 4-channel DMX mode

Channel	Value	Function
1	0 ... 255	Dimmer (0 % ... 100 %) for all LEDs
2	0 ... 255	Intensity (0 % ... 100 %) of the 128 red LEDs
3	0 ... 255	Intensity (0 % ... 100 %) of 96 green LEDs
4	0 ... 255	Intensity (0 % ... 100 %) of 96 blue LEDs

7.7 Functions in 7-channel DMX mode

Channel	Value	Function
1	0 ... 255	Dimmer (0 % ... 100 %) for all LEDs
2	0 ... 255	Intensity (0 % ... 100 %) of the 128 red LEDs
3	0 ... 255	Intensity (0 % ... 100 %) of 96 green LEDs

Channel	Value	Function
4	0 ... 255	Intensity (0 % ... 100 %) of 96 blue LEDs
5	0 ... 8	No function
	9 ... 17	Constant unicoloured pattern red
	18 ... 26	Constant unicoloured pattern yellow
	27 ... 35	Constant unicoloured pattern green
	36 ... 44	Constant unicoloured pattern cyan
	45 ... 53	Constant unicoloured pattern blue
	54 ... 62	Constant unicoloured pattern pink
	63 ... 71	Constant unicoloured pattern white
	72 ... 80	Preprogrammed automatic show PR01
	81 ... 89	Preprogrammed automatic show PR02
	90 ... 98	Preprogrammed automatic show PR03
	99 ... 107	Preprogrammed automatic show PR04

Channel	Value	Function
	108 ... 116	Preprogrammed automatic show PR05
	117 ... 125	Preprogrammed automatic show PR06
	126 ... 134	Preprogrammed automatic show PR07
	135 ... 143	Preprogrammed automatic show PR08
	144 ... 152	Preprogrammed automatic show PR09
	153 ... 161	Preprogrammed automatic show PR10
	162 ... 170	Preprogrammed automatic show PR11
	171 ... 179	Preprogrammed automatic show PR12
	180 ... 188	Preprogrammed automatic show PR13
	189 ... 197	Preprogrammed automatic show PR14
	198 ... 206	Preprogrammed automatic show PR15
	207 ... 215	Preprogrammed automatic show PR16
	216 ... 224	Preprogrammed automatic show PR17

Channel	Value	Function
	225 ... 233	Preprogrammed automatic show PR18
	234 ... 242	Preprogrammed automatic show PR19
	243 ... 251	Preprogrammed automatic show PR20
	252 ... 255	Preprogrammed automatic show PR21
6		No function, if channel 1 = 0...71
	0 ... 255	Programme process speed, if channel 1 = 72...255
7	0 ... 255	Strobe effect, increasing speed

7.8 Functions in 14-channel DMX mode

Channel	Value	Function
1	0 ... 255	Dimmer (0 % ... 100 %) for all LEDs
2	0 ... 255	Intensity (0 % ... 100 %) of the red LEDs – segment 1
3	0 ... 255	Intensity (0 % ... 100 %) of the green LEDs – segment 1
4	0 ... 255	Intensity (0 % ... 100 %) of the blue LEDs – segment 1
5	0 ... 255	Intensity (0 % ... 100 %) of the red LEDs – segment 2
6	0 ... 255	Intensity (0 % ... 100 %) of the green LEDs – segment 2
7	0 ... 255	Intensity (0 % ... 100 %) of the blue LEDs – segment 2
8	0 ... 255	Intensity (0 % ... 100 %) of the red LEDs – segment 3
9	0 ... 255	Intensity (0 % ... 100 %) of the green LEDs – segment 3
10	0 ... 255	Intensity (0 % ... 100 %) of the blue LEDs – segment 3
11	0 ... 255	Intensity (0 % ... 100 %) of the red LEDs – segment 4

Channel	Value	Function
12	0 ... 255	Intensity (0 % ... 100 %) of the green LEDs – segment 4
13	0 ... 255	Intensity (0 % ... 100 %) of the blue LEDs – segment 4
14	0 ... 255	Strobe effect, increasing speed

7.9 Functions in 26-channel DMX mode

Channel	Value	Function
1	0 ... 255	Dimmer (0 % ... 100 %) for all LEDs
2	0 ... 255	Intensity (0 % ... 100 %) of the red LEDs – segment 1
3	0 ... 255	Intensity (0 % ... 100 %) of the green LEDs – segment 1
4	0 ... 255	Intensity (0 % ... 100 %) of the blue LEDs – segment 1
5	0 ... 255	Intensity (0 % ... 100 %) of the red LEDs – segment 2

Channel	Value	Function
6	0 ... 255	Intensity (0 % ... 100 %) of the green LEDs – segment 2
7	0 ... 255	Intensity (0 % ... 100 %) of the blue LEDs – segment 2
8	0 ... 255	Intensity (0 % ... 100 %) of the red LEDs – segment 3
9	0 ... 255	Intensity (0 % ... 100 %) of the green LEDs – segment 3
10	0 ... 255	Intensity (0 % ... 100 %) of the blue LEDs – segment 3
11	0 ... 255	Intensity (0 % ... 100 %) of the red LEDs – segment 4
12	0 ... 255	Intensity (0 % ... 100 %) of the green LEDs – segment 4
13	0 ... 255	Intensity (0 % ... 100 %) of the blue LEDs – segment 4
14	0 ... 255	Intensity (0 % ... 100 %) of the red LEDs – segment 5
15	0 ... 255	Intensity (0 % ... 100 %) of the green LEDs – segment 5
16	0 ... 255	Intensity (0 % ... 100 %) of the blue LEDs – segment 5
17	0 ... 255	Intensity (0 % ... 100 %) of the red LEDs – segment 6
18	0 ... 255	Intensity (0 % ... 100 %) of the green LEDs – segment 6

Channel	Value	Function
19	0 ... 255	Intensity (0 % ... 100 %) of the blue LEDs – segment 6
20	0 ... 255	Intensity (0 % ... 100 %) of the red LEDs – segment 7
21	0 ... 255	Intensity (0 % ... 100 %) of the green LEDs – segment 7
22	0 ... 255	Intensity (0 % ... 100 %) of the blue LEDs – segment 7
23	0 ... 255	Intensity (0 % ... 100 %) of the red LEDs – segment 8
24	0 ... 255	Intensity (0 % ... 100 %) of the green LEDs – segment 8
25	0 ... 255	Intensity (0 % ... 100 %) of the blue LEDs – segment 8
26	0 ... 255	Strobe effect, increasing speed

8 Technical specifications

Light source	240 × 10 mm LEDs (96 × red, 72 × green, 72 × blue)	
Optical properties	Beam angle	30°
	Light power	803 Lux / 2 m
Control	DMX	
	Remote control (optional)	
Number of DMX channels	2, 3, 4, 7, 14, 26	
Input connections	Voltage supply	Mains cable with IP65 screw connector, 3-pin, and IP44 splash-proof safety plug
	DMX control	DMX cable with IP65 XLR plug, 3-pin
Output connections	Voltage supply	Mains cable with IP65 screw connector, 3-pin
	DMX control	DMX cable with IP65 XLR socket, 3-pin
Power consumption	26 W	

Supply voltage	AC 230 V ~, 50/60 Hz	
Degree of protection	IP65	
Mounting options	Wall mounting, ceiling mounting, floor mounting	
Dimensions (W × H × D)	1112 mm × 110 mm × 145 mm	
Weight	4.6 kg	
Ambient conditions	Temperature range	-20 °C ... +45 °C
	Relative humidity	50 %, non condensing

Further information

Outdoor-ready	Yes
Colour mixture	RGB
LED type	Unicoloured
Fanless	Yes
Remote control	optional
Wireless DMX	No
Housing colour	Black

9 Plug and connection assignment

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

A three-pole coupling in IP65 design is used as DMX output, a three-pole plug in IP65 design is used as 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



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.	<ol style="list-style-type: none"> <li data-bbox="887 295 1516 423">1. When the display is flashing, e.g. 'd001', no valid DMX signal can be received. Make sure that the DMX controller is turned on. Check the DMX ports and cables for proper connection. <li data-bbox="887 428 1516 501">2. If the display does not flash and still no response, check the address settings and the DMX polarity. <li data-bbox="887 507 1516 555">3. Try using another DMX controller. <li data-bbox="887 561 1516 645">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.



