

**fun**generation

LED Pot System Bar  
RGBW

LED lighting set

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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](http://www.thomann.de).

## 1.1 Further information

On our website ([www.thomann.de](http://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  |
|---|--|
| <b>DANGER!</b>  | 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.        |
| <b>WARNING!</b>   | 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.           |
| <b>NOTICE!</b>  | 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 signs   | Type of danger                   |
|---|----------------------------------|
|  | <p>Warning – suspended load.</p> |
|  | <p>Warning – danger zone.</p>    |

## 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!****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.



**NOTICE!**

**Damages due to disconnection during operation**

- Only operate the unit when all spotlights are connected. The disconnection of LED spotlights during operation may damage the unit. Disconnect the unit from the power supply before disconnecting LED spotlights.

### 3 Features

The LED lighting set is particularly suitable for lighting applications in clubs and discotheques, on rock stages, in theatres and musicals.

Special features of the device:

- 4 LED pots with  $48 \times 1$  W RGBW LEDs (12  $\times$  per spot, each 3 red, 3 green, 3 blue, 3 white)
- Control via DMX (6 different modes), buttons and display on the unit or via remote control (not included)
- 14 preprogrammed automatic shows
- Sound control
- Master / Slave mode
- Easy transport, easy mounting
- An additional carrying bag is included

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!**

#### **Damages due to disconnection during operation**

Only operate the unit when all spotlights are connected.

The disconnection of LED spotlights during operation may damage the unit. Disconnect the unit from the power supply before disconnecting LED spotlights.



### **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.

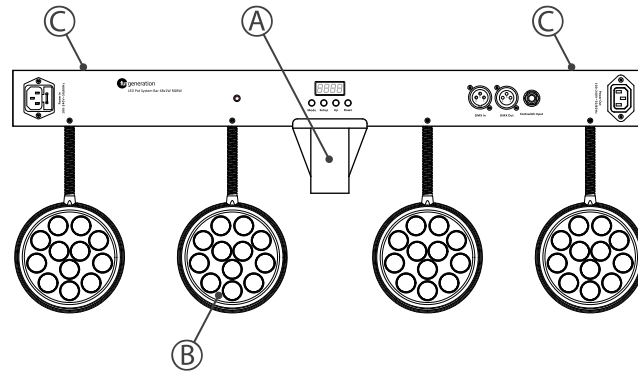
Never connect the DMX input or output to audio devices such as mixers or amplifiers.



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

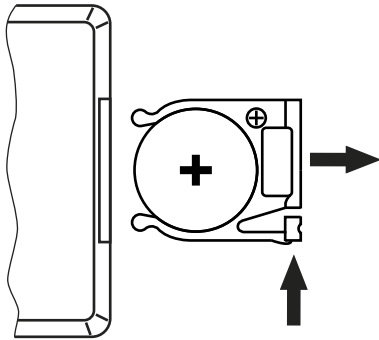
**Pre-mounted spots**

The four spots are pre-mounted on the T-bar.



|   |  |
|---|--|
| A | 36 mm flange to mount the T-bar on a stand.                                      |
| B | Spot   |
| C | Threads for attaching additional effects units or for hanging using the C-hooks. |

### 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.

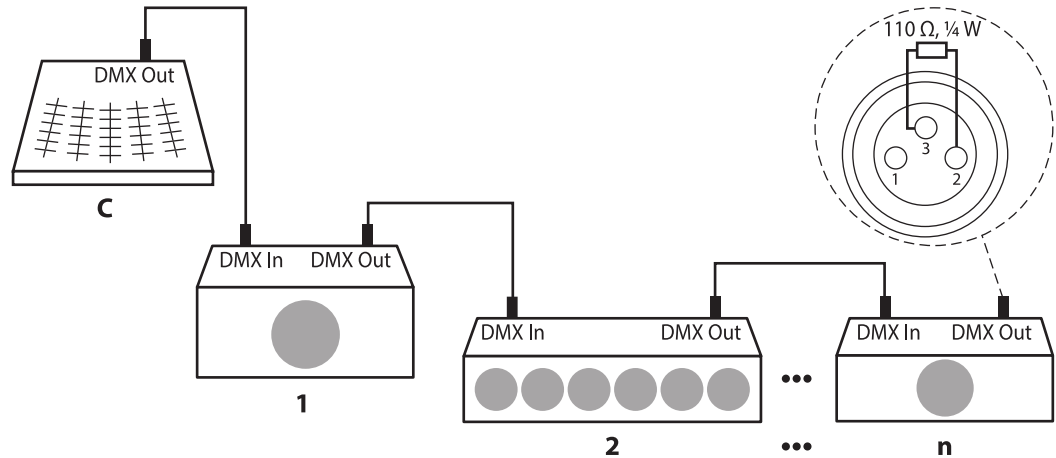
When shipping, the battery is already installed in the remote and protected against discharge by a transparent plastic foil. Remove the plastic foil prior to first use.

## 5 Setup

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 ( $110\ \Omega$ ,  $\frac{1}{4}\text{ W}$ ).



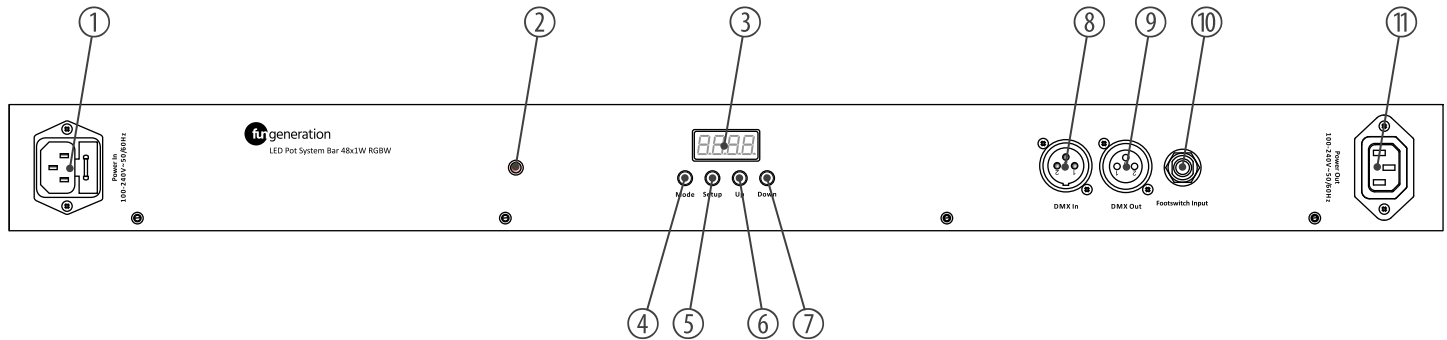
**DMX indicator**

If the dot behind the first character of the display is flashing in the DMX mode, no DMX signal is received. Maybe the DMX controller is not switched on or there is a cabling error. If the indicator lights permanently, the device receives a valid DMX signal.

**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 controls

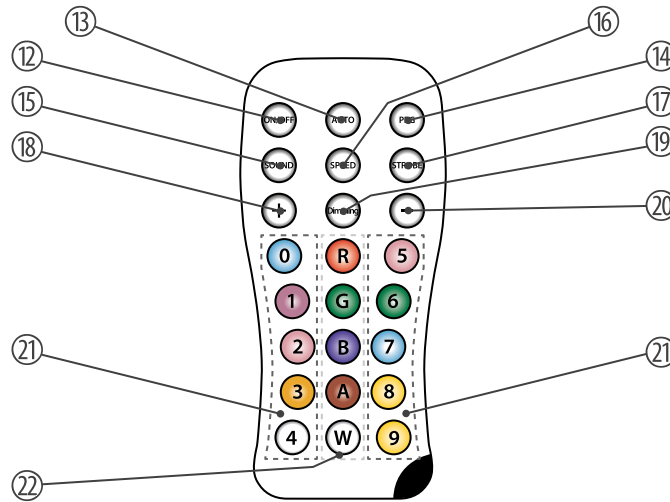




|   |  |
|---|--|
| 1 | <i>[Power In]</i><br>IEC chassis plug for power supply with fuse holder.                           |
| 2 | Infrared sensor for the remote control signals. Make sure that the IR sensor is not obstructed.    |
| 3 | Display.   |
| 4 | <i>[Mode]</i><br>Activates the main menu and toggles between menu items. Closes an opened submenu. |
| 5 | <i>[Setup]</i><br>Selects an option of the respective operating mode, confirms the set value.      |
| 6 | <i>[Up]</i><br>Increases the displayed value by one.   |
| 7 | <i>[Down]</i><br>Decreases the displayed value by one.   |
| 8 | <i>[DMX In]</i><br>DMX input.  |

|    |   |
|----|---|
| 9  | <i>[DMX Out]</i><br>DMX output.   |
| 10 | <i>[Foot switch Input]</i><br>1/4" phone socket to connect the foot controller unit   |
| 11 | <i>[Power Out]</i><br>IEC chassis socket for the power supply cable to the next unit. |

Remote control



LED Pot System Bar RGBW

|    |  |
|----|--|
| 12 | <i>[ON/OFF]</i><br>Button to turn the device on and off.                               |
| 13 | <i>[AUTO]</i><br>Activates the 'Automatic' mode.                                       |
| 14 | <i>[PRG]</i><br>Activates the operating mode 'Preprogrammed automatic show'.           |
| 15 | <i>[SOUND]</i><br>Activates the sound-control.   |
| 16 | <i>[SPEED]</i><br>Adjusts the process speed in 'Preprogrammed automatic show' mode.    |
| 17 | <i>[STROBE]</i><br>Activates the strobe effect in 'Preprogrammed automatic show' mode. |
| 18 | <i>[+]</i><br>Increases the displayed value by one.                                    |

|    |   |
|----|---|
| 19 | <i>[Dimming]</i><br>Brightness control.   |
| 20 | <i>[-]</i><br>Decreases the displayed value by one.   |
| 21 | <i>[0] ... [9]</i><br>Numeric keys.   |
| 22 | Buttons for colour selection.<br>Use <ul style="list-style-type: none"><li>■ <i>[W]</i> for white light,</li><li>■ <i>[A]</i> for amber light,</li><li>■ <i>[R]</i>, <i>[G]</i>, or <i>[B]</i> for primary colours red, green and blue,</li><li>■ the coloured buttons for directly selecting a mixed colour.</li></ul> |

## **7 Operating**

### **7.1 Starting the device**

Connect the device to the power supply to start operation.

### **7.2 Device functions**

All functions are controlled via the keys and the display on the unit, via infrared remote control or via foot switch (both not included).

## 7.3 Foot switch

You can also control several device functions using an optional foot switch. Please note the following table for the function assignment.

|                     |  |
|---------------------|--|
| <b>Auto Run</b>     | <p>Press the button repeatedly until the display shows 'AUTO' to activate the 'Automatic' mode (14 programmes run automatically in sequence).</p> <p>Press the switch in a running programme to jump into the next one. If you press the switch in programme 14, the sequence restarts with programme 1.</p> |
| <b>Sound Active</b> | <p>Press the button once to activate the 'Sound-control' mode.</p> <p>Press the button again to toggle between the various sound modes.</p>  |
| <b>Freeze</b>       | <p>Press the button once to pause a running programme.</p> <p>Press the button again to let the programme continue.</p>  |
| <b>Blackout</b>     | <p>Press the button once to turn off a running programme.</p> <p>Press the button again to return to the previous mode.</p>  |

### 7.4 Remote control

The device can only be remote controlled if it's neither working in a Master / Slave configuration nor DMX-controlled.

#### Switching on / off

Use *[ON/OFF]* to switch the device on and off.

#### Operating mode 'Automatic'

Press *[AUTO]*. The playback of 'Pr02' to 'Pr14' starts automatically.

#### Operating mode 'Preprogrammed automatic show'

Press *[PRG]*. Use *[+]* and *[-]* to select a value between 'Pr.01' and 'Pr.14'.

In the 'Preprogrammed automatic show' mode, you can activate the strobe effect. Press *[STROBE]* and use *[+]* and *[-]* to select a value between 'FS00' (slow) and 'FS99' (fast). Press again *[STROBE]* to turn the strobe effect off.

For the programmes 'Pr.01' and 'Pr.09', it is possible to adjust the process speed. Press *[SPEED]* and use *[+]* and *[-]* to select a value between 'SP01' (slow) and 'SPFL' (fast).



**Sound control**

Press *[SOUND]*. This activates a sound controlled automatic show.

Use *[+]* and *[-]* to adjust the sensitivity of the sound control in a range from 'SV.00' to 'SV.31'.

**Dimming**

Press *[Dimming]* to adjust the brightness level of the primary colours. Press *[R]* (red), *[G]* (green), or *[B]* (blue) and use *[+]* and *[-]* to select a value between 0 and 255.

**Colour selection**

Use the coloured buttons to select a colour tone in any mode. The following assignment applies:

| Button | Colour     | Button | Colour      | Button | Colour |
|--------|------------|--------|-------------|--------|--------|
| 0      | Cyan       | 5      | Light red   | R      | Red    |
| 1      | Purple     | 6      | Light green | G      | Green  |
| 2      | Magenta    | 7      | Light blue  | B      | Blue   |
| 3      | Orange     | 8      | Yellow      | A      | Amber  |
| 4      | Cold white | 9      | Warm white  | W      | White  |

### **Resetting to factory defaults**

To reset the device to factory default settings, press *[Mode]* repeatedly until the display shows 'Set'. Press *[Setup]*.

## **7.5 Operating on the unit**

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

If you do not press any key for about 30 seconds, the display will be blanked. 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.

## 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 *[Mode]* repeatedly until the display shows 'Pr.xx'. Now you can select one of the preprogrammed automatic shows. Use *[Up]* and *[Down]* to select a value between 'Pr.01' and 'Pr.14'.

### Settings for programme 01:

For 'Pr.01', you can choose from 14 colours, white or blackout. Press *[Setup]*. With *[Up]* and *[Down]* you can now select one of the colours.

To adjust the strobe frequency, press *[Setup]* again. The display shows 'FS00'. Use *[Up]* and *[Down]* to select a value between 'FS00' (slow) and 'FS99' (fast).

### Settings for programmes 02 to 14:

To adjust the programme speed, press again *[Setup]*. The display shows 'SPxx'. Use *[Up]* and *[Down]* to select a value between 'SP01' (slow) and 'SPFL' (fast).

To adjust the strobe frequency, press *[Setup]* again. The display shows 'FS00'. Use *[Up]* and *[Down]* to select a value between 'FS00' (slow) and 'FS99' (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 *[Mode]* repeatedly until the display shows 'AUTO'. The playback of 'Pr02' to 'Pr14' starts automatically.

**DMX mode**

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

Press *[Mode]* until the display shows 'd.001'.

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 'd.001' ... 'd.512').

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 |
|------------|------------------------------|
| 2-channel  | 511                          |
| 4-channel  | 509                          |
| 5-channel  | 508                          |
| 8-channel  | 505                          |
| 10-channel | 503                          |
| 18-channel | 495                          |

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

- '4-ch' (four channels)
- '5-ch' (five channels)
- '10ch' (ten channels)
- '18ch' (18 channels)
- '2-ch' (two channels)
- '8-ch' (eight 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.

Press *[Mode]* repeatedly until the display shows 'SLAV'.

### **Sound control**

A 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 'Soud'. This activates a sound controlled automatic show.

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

**Constant unicoloured pattern**

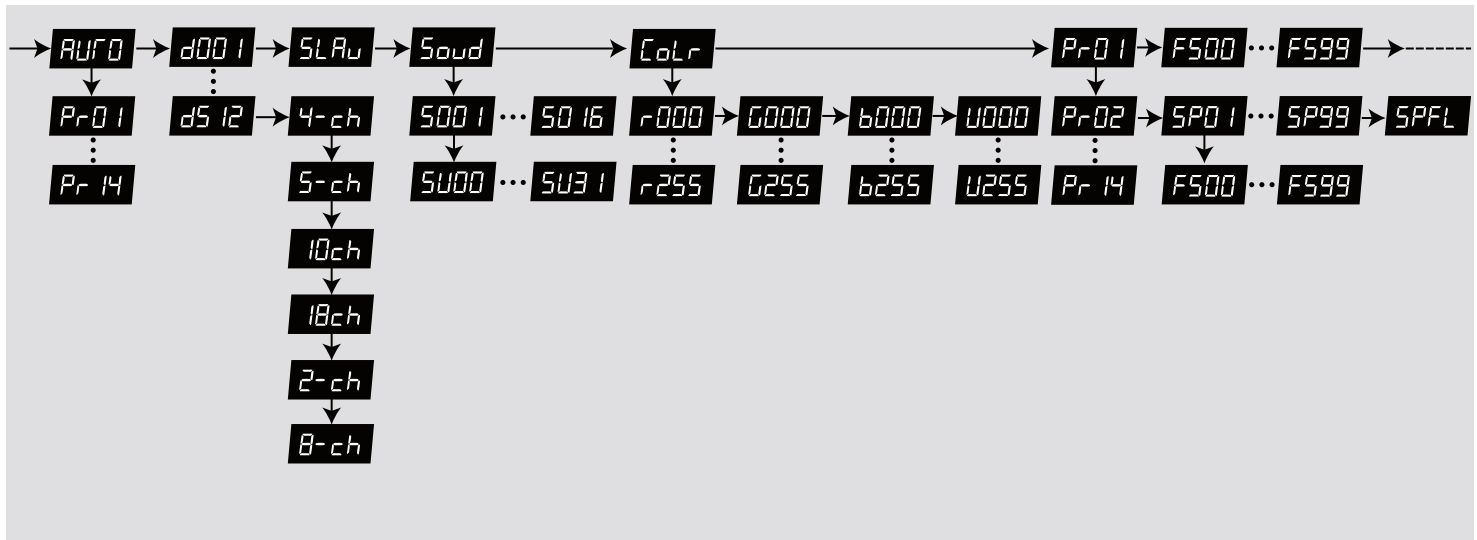
A constant unicoloured pattern can only be activated when the unit is operating in stand alone mode or as master in a master / slave combination. This setting is only relevant if the device is not controlled via DMX.

Press *[Mode]* repeatedly until the display shows 'CoLr'. Press *[Setup]*. The display shows 'r.xxx', 'G.xxx', or 'b.xxx'. Press *[Setup]* to change the colour.

Use *[Up]* and *[Down]* to adjust the intensity of the colour:

| Display             | Meaning |
|---------------------|---------|
| 'r.000' ... 'r.255' | Red     |
| 'G.000' ... 'G.255' | Green   |
| 'b.000' ... 'b.255' | Blue    |
| 'W.000' ... 'W.255' | White   |

## 7.6 Menu overview





## 7.7 Functions in 2-channel DMX mode

| Channel | Value          | Function  |
|---------|----------------|---|
| 1       | Operating mode |   |
|         | 1 ... 17       | Constant pattern, colour is defined via channel 2 |
|         | 18 ... 35      | Preprogrammed automatic show no. 2                |
|         | 36 ... 53      | Preprogrammed automatic show no. 3                |
|         | 54 ... 71      | Preprogrammed automatic show no. 4                |
|         | 72 ... 89      | Preprogrammed automatic show no. 5                |
|         | 90 ... 107     | Preprogrammed automatic show no. 6                |
|         | 108 ... 125    | Preprogrammed automatic show no. 7                |
|         | 126 ... 143    | Preprogrammed automatic show no. 8                |
|         | 144 ... 161    | Preprogrammed automatic show no. 9                |
|         | 162 ... 179    | Preprogrammed automatic show no. 10               |

| Channel | Value                                      | Function                            |
|---------|--|-------------------------------------|
|         | 180 ... 197                                | Preprogrammed automatic show no. 11 |
|         | 198 ... 215                                | Preprogrammed automatic show no. 12 |
|         | 216 ... 233                                | Preprogrammed automatic show no. 13 |
|         | 234 ... 251                                | Preprogrammed automatic show no. 14 |
|         | 252 ... 255                                | Sound-controlled show               |
| 2       | Function depending on setting of channel 1 |                                     |
|         | Channel 1 = 0 ... 17                       |                                     |
|         | 0 ... 16                                   | LEDs off                            |
|         | 17 ... 33                                  | Red                                 |
|         | 34 ... 50                                  | Green                               |
|         | 51 ... 67                                  | Blue                                |
|         | 68 ... 84                                  | White                               |
|         | 85 ... 101                                 | Yellow                              |

| Channel | Value                   | Function                        |
|---------|-------------------------|---------------------------------|
|         | 102 ... 118             | Magenta                         |
|         | 119 ... 135             | Pastel red                      |
|         | 136 ... 152             | Cyan                            |
|         | 153 ... 169             | Pastel green                    |
|         | 170 ... 186             | Pastel blue                     |
|         | 187 ... 203             | RGB white                       |
|         | 204 ... 220             | Warm white                      |
|         | 221 ... 237             | Pink                            |
|         | 238 ... 254             | Light blue                      |
|         | 255                     | Full intensity of all LEDs RGBW |
|         | Channel 1 = 18 ... 251: |                                 |
|         | 0 ... 255               | Auto shows speed (slow to fast) |

| Channel | Value                    | Function    |
|---------|--------------------------|-------------|
|         | Channel 1 = 252 ... 255: |             |
|         | 0 ... 255                | No function |

## 7.8 Functions in 4-channel DMX mode

| Channel | Value   | Function  |
|---------|---------|---|
| 1       | 0...255 | Intensity red (0 % to 100 %), for all LEDs together   |
| 2       | 0...255 | Intensity green (0 % to 100 %), for all LEDs together |
| 3       | 0...255 | Intensity blue (0 % to 100 %), for all LEDs together  |
| 4       | 0...255 | Intensity white (0 % to 100 %), for all LEDs          |

## 7.9 Functions in 5-channel DMX mode

| Channel | Value   | Function  |
|---------|---------|---|
| 1       | 0...255 | Dimmer (0 % to 100 %)                                 |
| 2       | 0...255 | Intensity red (0 % to 100 %), for all LEDs together   |
| 3       | 0...255 | Intensity green (0 % to 100 %), for all LEDs together |
| 4       | 0...255 | Intensity blue (0 % to 100 %), for all LEDs together  |
| 5       | 0...255 | Intensity white (0 % to 100 %), for all LEDs          |

## 7.10 Functions in 8-channel DMX mode

| Channel | Value          | Function   |
|---------|----------------|--|
| 1       | 0...255        | Dimmer (0 % to 100 %)  |
| 2       | 0...255        | Intensity red (0 % to 100 %) for all LEDs if channel 6 = 0   |
| 3       | 0...255        | Intensity green (0 % to 100 %) for all LEDs if channel 6 = 0 |
| 4       | 0...255        | Intensity blue (0 % to 100 %) for all LEDs if channel 6 = 0  |
| 5       | 0...255        | Intensity white (0 % to 100 %) for all LEDs if channel 6 = 0 |
| 6       | Operating mode |  |
|         | 0              | Colour mixing of primary colours with channels 2, 3, 4 and 5 |
|         | 1 ... 17       | Constant pattern, colour is defined via channel 7            |
|         | 18 ... 35      | Preprogrammed automatic show no. 2                           |
|         | 36 ... 53      | Preprogrammed automatic show no. 3                           |
|         | 54 ... 71      | Preprogrammed automatic show no. 4                           |

| Channel | Value                                      | Function                            |
|---------|--|-------------------------------------|
|         | 72 ... 89                                  | Preprogrammed automatic show no. 5  |
|         | 90 ... 107                                 | Preprogrammed automatic show no. 6  |
|         | 108 ... 125                                | Preprogrammed automatic show no. 7  |
|         | 126 ... 143                                | Preprogrammed automatic show no. 8  |
|         | 144 ... 161                                | Preprogrammed automatic show no. 9  |
|         | 162 ... 179                                | Preprogrammed automatic show no. 10 |
|         | 180 ... 197                                | Preprogrammed automatic show no. 11 |
|         | 198 ... 215                                | Preprogrammed automatic show no. 12 |
|         | 216 ... 233                                | Preprogrammed automatic show no. 13 |
|         | 234 ... 251                                | Preprogrammed automatic show no. 14 |
|         | 252 ... 255                                | Sound-controlled show               |
| 7       | Function depending on setting of channel 6 |                                     |
|         | Channel 6 = 0 ... 17                       |                                     |

| Channel | Value       | Function    |
|---------|-------------|-------------|
|         | 0 ... 16    | LEDs off    |
|         | 17 ... 33   | Cyan        |
|         | 34 ... 50   | Purple      |
|         | 51 ... 67   | Magenta     |
|         | 68 ... 84   | Orange      |
|         | 85 ... 101  | Cold white  |
|         | 102 ... 118 | Light red   |
|         | 119 ... 135 | Light green |
|         | 136 ... 152 | Light blue  |
|         | 153 ... 169 | Yellow      |
|         | 170 ... 186 | Warm white  |
|         | 187 ... 203 | Red         |
|         | 204 ... 220 | Green       |



| Channel | Value                    | Function                        |
|---------|--------------------------|---------------------------------|
|         | 221 ... 237              | Blue                            |
|         | 238 ... 254              | Amber                           |
|         | 255                      | Full intensity of all LEDs      |
|         | Channel 6 = 18 ... 251:  |                                 |
|         | 0 ... 255                | Auto shows speed (slow to fast) |
|         | Channel 6 = 252 ... 255: |                                 |
|         | 0 ... 255                | No function                     |

## 7.11 Functions in 10-channel DMX mode

| Channel | Value   | Function   |
|---------|---------|--|
| 1       | 0...255 | Dimmer (0 % to 100 %)  |
| 2       | 0...255 | Intensity red (0 % to 100 %) all LEDs spot 1 and 2           |
| 3       | 0...255 | Intensity green (0 % to 100 %) all LEDs spot 1 and 2         |
| 4       | 0...255 | Intensity blue (0 % to 100 %) all LEDs spot 1 and 2          |
| 5       | 0...255 | Intensity white (0 % to 100 %) for all LEDs of spots 1 and 2 |
| 6       | 0...255 | Intensity red (0 % to 100 %) all LEDs spot 3 and 4           |
| 7       | 0...255 | Intensity green (0 % to 100 %) all LEDs spot 3 and 4         |
| 8       | 0...255 | Intensity blue (0 % to 100 %) all LEDs spot 3 and 4          |
| 9       | 0...255 | Intensity white (0 % to 100 %) for all LEDs of spots 3 and 4 |
| 10      | 0...255 | Flash effect, increasing speed for all LEDs                  |

## 7.12 Functions in 18-channel DMX mode

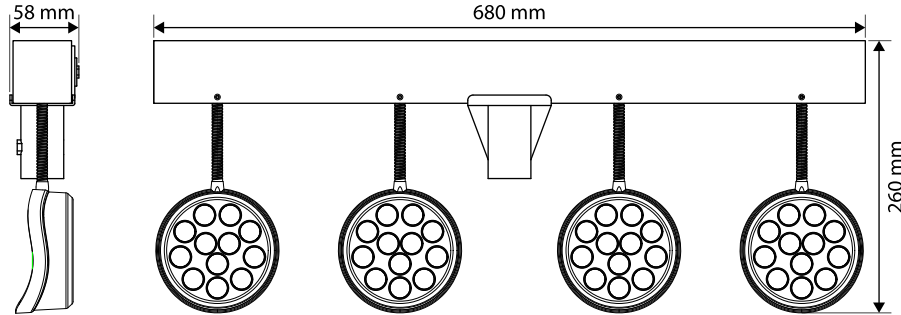
| Channel | Value   | Function  |
|---------|---------|---|
| 1       | 0...255 | Dimmer (0 % to 100 %)                                 |
| 2       | 0...255 | Intensity red (0 % to 100 %) for all LEDs of spot 1   |
| 3       | 0...255 | Intensity green (0 % to 100 %) for all LEDs of spot 1 |
| 4       | 0...255 | Intensity blue (0 % to 100 %) for all LEDs of spot 1  |
| 5       | 0...255 | Intensity white (0 % to 100 %) for all LEDs of spot 1 |
| 6       | 0...255 | Intensity red (0 % to 100 %) for all LEDs of spot 2   |
| 7       | 0...255 | Intensity green (0 % to 100 %) for all LEDs of spot 2 |
| 8       | 0...255 | Intensity blue (0 % to 100 %) for all LEDs of spot 2  |
| 9       | 0...255 | Intensity white (0 % to 100 %) for all LEDs of spot 2 |
| 10      | 0...255 | Intensity red (0 % to 100 %) for all LEDs of spot 3   |
| 11      | 0...255 | Intensity green (0 % to 100 %) for all LEDs of spot 3 |

| Channel | Value   | Function  |
|---------|---------|---|
| 12      | 0...255 | Intensity blue (0 % to 100 %) for all LEDs of spot 3  |
| 13      | 0...255 | Intensity white (0 % to 100 %) for all LEDs of spot 3 |
| 14      | 0...255 | Intensity red (0 % to 100 %) for all LEDs of spot 4   |
| 15      | 0...255 | Intensity green (0 % to 100 %) for all LEDs of spot 4 |
| 16      | 0...255 | Intensity blue (0 % to 100 %) for all LEDs of spot 4  |
| 17      | 0...255 | Intensity white (0 % to 100 %) for all LEDs of spot 4 |
| 18      | 0...255 | Flash effect, increasing speed for all LEDs           |

## 8 Technical specifications

|                         |   |                           |
|-------------------------|---|---------------------------|
| Light source            | 48 × RGBW LED, 1 W<br>(12 × per spot, each 3 red, 3 green, 3 blue, 3 white) |                           |
| Light source properties | Light output  | 5520 Lux @ 1 m/LED Pot    |
| Optical properties      | Beam angle  | 25°                       |
|                         | Strobe effect   | 0 Hz ... 20 Hz            |
| Control                 | DMX   |                           |
|                         | Remote control  |                           |
| Number of DMX channels  | 2, 4, 5, 8, 10, 18  |                           |
| Input connections       | Power supply  | IEC chassis plug C14      |
|                         | DMX control   | XLR chassis socket, 3-pin |
|                         | Foot controller unit  | 1/4" jack socket          |

|                        |   |                                   |
|------------------------|---|-----------------------------------|
| Output connections     | Power supply of further devices                   | IEC chassis plug C13              |
|                        | DMX control                                       | XLR chassis socket, 3-pin         |
| Power consumption      | 58 W  |                                   |
| Supply voltage         | 100 – 240 V ~ 50/60 Hz                            |                                   |
| Fuse                   | 5 mm × 20 mm, 1 A, 250 V, slow-blow               |                                   |
| Battery remote control | Battery type                                      | Lithium button cell, 3 V, CR 2025 |
| Degree of protection   | IP20  |                                   |
| Mounting options       | Hanging, stand<br>36 mm flange for stand mounting |                                   |
| Dimensions (W × H × D) | 680 mm × 58 mm × 260 mm                           |                                   |
| Weight                 | 2.98 kg   |                                   |
| Ambient conditions     | Temperature range                                 | -10 °C...40 °C                    |
|                        | Relative humidity                                 | 20 %...80 % (non-condensing)      |



**Further information**

|                         |     |
|-------------------------|-----|
| Spotlight included      | Yes |
| Effect devices included | No  |
| LED bars included       | No  |
| Stand included          | No  |
| Case / bag included     | Yes |

LED Pot System Bar RGBW

## 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 | <ol style="list-style-type: none"><li>1. If the dot behind the first character of the display is flashing in the DMX mode, no DMX signal is received. Make sure that the DMX controller is turned on. Check the DMX ports and cables for proper connection.</li><li>2. If the display does not flash and still no response, check the address settings and the DMX polarity.</li><li>3. Try using another DMX controller.</li><li>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.</li></ol> |

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at [www.thomann.de](http://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.

## 12 Protecting the environment

### Disposal of the packaging material



For the packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

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

### Disposal of batteries



Batteries do contain some hazardous chemicals so they should not be thrown away with the normal household waste. They should be returned to the manufacturer for disposal or recycled elsewhere in accordance with your local regulations.

Dispose lithium batteries only in discharged condition. Remove lithium batteries from the device before disposal. Protect used lithium batteries against potential short circuits, e.g. by covering the poles with adhesive tape. Dispose the built-in lithium batteries together with the device. Please check for an appropriate reception facility.

### Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.





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