



**fun**generation

LED Pot COB 40W  
RGB WW  
LED PAR

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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.

### Instructions

The individual steps of an instruction are numbered consecutively. The result of a step is indented and highlighted by an arrow.

**Example:**





1. ▶ Switch on the device.
2. ▶ Press *[Auto]*.
  - ⇒ Automatic operation is started.
3. ▶ Switch off the device.

## 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 – 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**

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.

### 3 Features

Compact LED spotlight with high beam angle

- 1 × COB LED 4in1 RGB WW, 40 W
- Control via DMX, buttons and display on the unit as well as via IR remote control (optional)
- Operating modes:
  - DMX
  - Master/Slave
  - Automatic programme run
  - Preset shows
  - Sound control
  - Static colours
- Noiseless operation due to convection cooling without fan
- Double bracket for up-lighting

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.

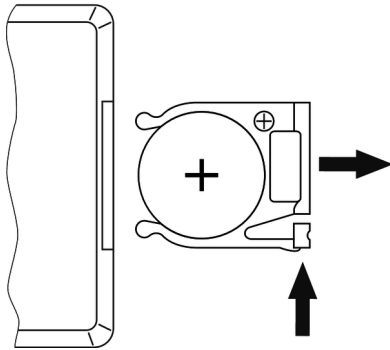
Always work from a stable platform whenever installing, moving or servicing the unit. In doing so, the area underneath the unit must be cordoned off.

The safety cable must be attached to the bracket.



*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.

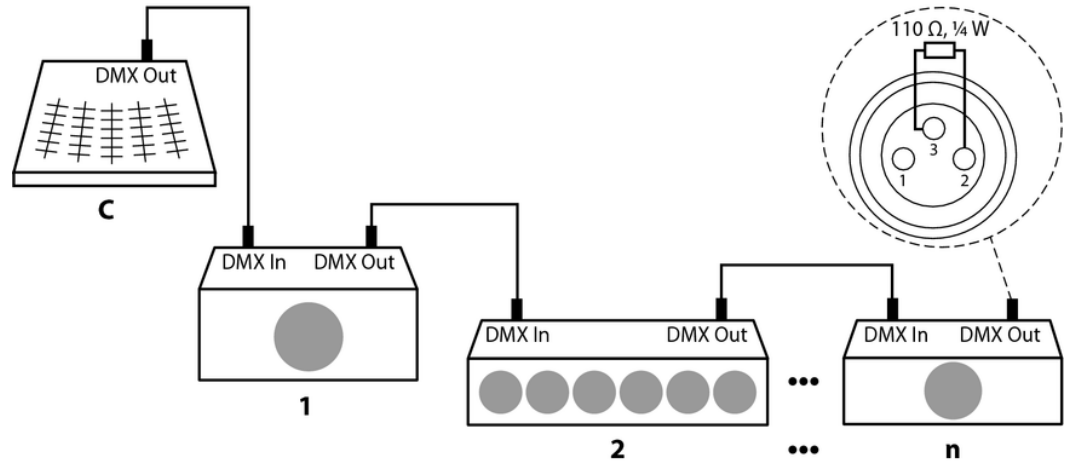
When shipping, the battery is already installed in the remote and protected against discharge by a transparent plastic foil. Remove the plastic foil prior to first use.

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

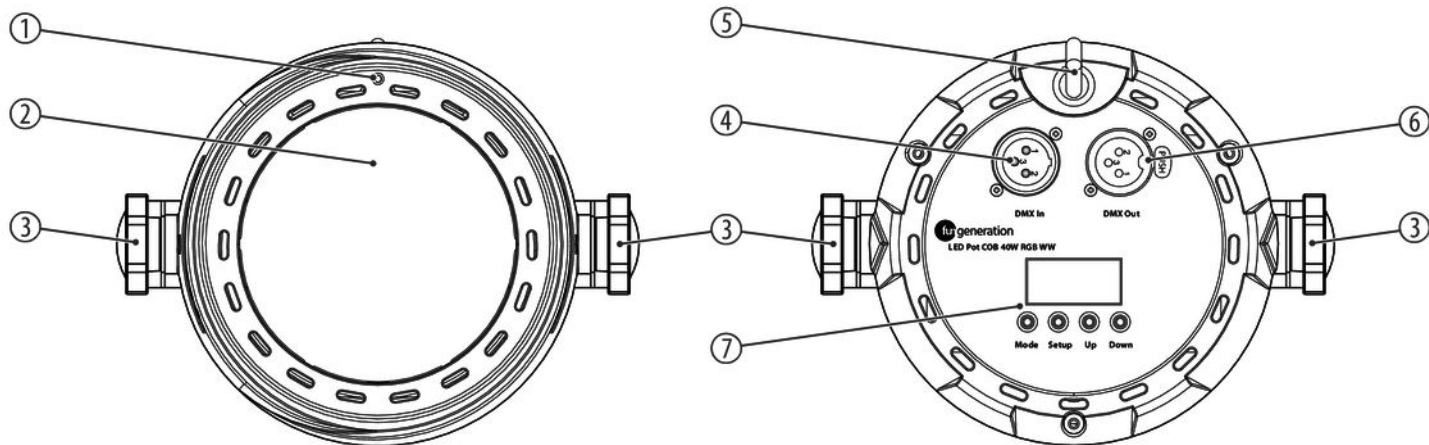


### **Connections in master/slave mode**

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 controls



LED Pot COB 40W RGB WW

1	Infrared sensor for receiving signals from an optionally available remote control.
2	LEDs
3	Locking screws for the two-piece bracket
4	<i>[DMX In]</i> DMX input
5	Power cord
6	<i>[DMX Out]</i> DMX output
7	Display and function buttons. <i>[Mode]</i> Opens the main menu. <i>[Setup]</i> Confirms a selected value or opens a submenu.

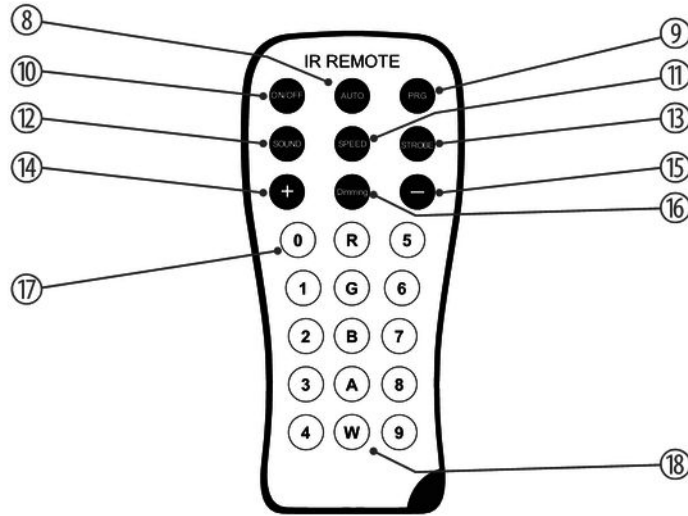
*[Down]*

Decreases the displayed value by one.

*[Up]*

Increases the displayed value by one.

**Remote control (optional)**



8	<i>[AUTO]</i> Enables the auto mode.
9	<i>[PRG]</i> Enables the Programme mode. Select the desired programme with the buttons <i>[+]</i> and <i>[-]</i> .
10	<i>[ON/OFF]</i> Activates / deactivates the device.
11	<i>[SPEED]</i> Activates the setting mode for the programme speed. Adjust the speed using the buttons <i>[+]</i> and <i>[-]</i> .
12	<i>[SOUND]</i> Activates the sound control.
13	<i>[STROBE]</i> Turns the strobe function on / off.
14	<i>[+]</i> Increases the set value.

15	<i>[-]</i> Decreases the set value.
16	<i>[Dimming]</i> Enables the dimmer function.
17	<i>[0 ... 9]</i> Numeric buttons for direct selection of a constant colour.
18	<i>[R], [G], [B], [A], [W]</i> 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 unit is ready for use.

Press *[Mode]* or *[Up]* | *[Down]* to open the main menu and select a menu option. Open the individual menus with *[Setup]* and change the respectively displayed value with *[Up]* | *[Down]*. Changed values and settings will immediately take effect. With *[Mode]*, you return to the previous menu level.

### 7.1 Operating mode Auto

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]* or *[Up]* | *[Down]* repeatedly until the display shows 'AUTO'. Confirm with *[Setup]*. The device now works in automatic stand-alone mode, the programmes 'Pr.02' ... 'Pr.14' run sequentially at the set programme and strobe speed.

## 7.2 Programme mode

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]* or *[Up]* | *[Down]* repeatedly until the display shows 'Pro'. Press *[Setup]* and use *[Up]* | *[Down]* to select one of the programmes 'Pr.01' ... 'Pr.14'.



## Settings for program 01

If you have selected programme 01, you can select one of 15 static colour settings.

1. ➤ After selecting the programme, press again *[Setup]* and adjust the colour with *[Up]* *[Down]* in a range between 'Co.01' ... 'Co.15' or 'OFF' (blackout).

Colour	Display
Blackout	'OFF'
Red	'Co.01'
Green	'Co.02'
Blue	'Co.03'
White	'Co.04'
Amber	'Co.05'
Orange	'Co.06'
Yellow	'Co.07'
Purple	'Co.08'
Pink	'Co.09'

Colour	Display
Cyan	'Co.10'
Light red	'Co.11'
Light green	'Co.12'
Light blue	'Co.13'
Warm white	'Co.14'
Cold white	'Co.15'

2. ➤ Press again *[Setup]* and adjust the frequency of the strobe effect with *[Up]* | *[Down]* in a range from 'FS.00' ... 'FS.99' (slow ... fast).

## Settings for programmes 02 ... 14

When you have selected one of programmes 02 ... 14 you can adjust the following settings:

1. ➤ After selecting the programme, press again *[Setup]* and adjust the programme speed with *[Up]* | *[Down]* in a range from 'Sp.00' ... 'Sp.99' (slow ... fast).
2. ➤ Press again *[Setup]* and adjust the frequency of the strobe effect with *[Up]* | *[Down]* in a range from 'FS.00' ... 'FS.99' (slow ... fast).

## 7.3 Operating mode DMX

This setting is only relevant if the device is controlled via a DMX controller.

1. Use *[Mode]* or *[Up]* | *[Down]* to select the menu option 'd---' and confirm with *[Setup]*.
2. Use *[Up]* | *[Down]* to assign a DMX address in the range from 'd.001' ... 'd.512' to the device and confirm with *[Setup]*.
3. Use *[Up]* | *[Down]* to select the desired DMX mode:

Mode	Highest possible DMX address
4-channel	509
6-channel	507
8-channel	505

4. Confirm with *[Setup]*.

### 7.3.1 Functions in 4-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 %)
4	0 ... 255	Intensity white (0 % to 100 %)

### 7.3.2 Functions in 6-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 %)

Channel	Value	Function
4	0 ... 255	Intensity blue (0 % to 100 %)
5	0 ... 255	Intensity white (0 % to 100 %)
6	0 ... 10	No function
	11 ... 255	Stroboscope effect (slow to fast)

### 7.3.3 Functions in 8-channel DMX mode

Channel	Value	Function
1	0 ... 255	Dimmer (0 % to 100 %)
2	0 ... 255	Intensity Red (0 % to 100 %), if channel 6 = 0
3	0 ... 255	Intensity Green (0 % to 100 %), if channel 6 = 0
4	0 ... 255	Intensity Blue (0 % to 100 %), if channel 6 = 0

Channel	Value	Function
5	0 ... 255	Intensity white (0 % to 100 %), if channel 6 = 0
6	Programme selection	
	0	Dimmer
	1 ... 16	Programme 01
	17 ... 33	Programme 02
	34 ... 50	Programme 03
	51 ... 67	Programme 04
	68 ... 84	Programme 05
	85 ... 101	Programme 06
	102 ... 118	Programme 07
	119 ... 135	Programme 08
	136 ... 152	Programme 09
	153 ... 169	Programme 10

Channel	Value	Function
	170 ... 186	Programme 11
	187 ... 203	Programme 12
	204 ... 220	Programme 13
	221 ... 237	Programme 14
	238 ... 255	Sound-controlled operation
7	Colour macros programme 01	
	0 ... 15	Red 0 % / green 0 % / blue 0 % / white 0 %, if channel 6 = 1 ... 16
	16 ... 31	Red 255 % / green 0 % / blue 0 % / white 0 %, if channel 6 = 1 ... 16
	32 ... 47	Red 0 % / green 255 % / blue 0 % / white 0 %, if channel 6 = 1 ... 16
	48 ... 63	Red 0 % / green 0 % / blue 255 % / white 0 %, if channel 6 = 1 ... 16
	64 ... 79	Red 0 % / green 0 % / blue 0 % / white 255 %, if channel 6 = 1 ... 16
	80 ... 95	Red 255 % / green 150 % / blue 0 % / white 0 %, if channel 6 = 1 ... 16
	96 ... 111	Red 255 % / green 180 % / blue 0 % / white 0 %, if channel 6 = 1 ... 16

Channel	Value	Function
	112 ... 127	Red 255 % / green 255 % / blue 0 % / white 0 %, if channel 6 = 1 ... 16
	128 ... 143	Red 255 % / green 0 % / blue 255 % / white 0 %, if channel 6 = 1 ... 16
	144 ... 159	Red 255 % / green 0 % / blue 140 % / white 0 %, if channel 6 = 1 ... 16
	160 ... 175	Red 0 % / green 255 % / blue 255 % / white 0 %, if channel 6 = 1 ... 16
	176 ... 191	Red 255 % / green 0 % / blue 0 % / white 210 %, if channel 6 = 1 ... 16
	192 ... 207	Red 0 % / green 255 % / blue 0 % / white 210 %, if channel 6 = 1 ... 16
	208 ... 223	Red 0 % / green 0 % / blue 255 % / white 210 %, if channel 6 = 1 ... 16
	224 ... 239	Red 255 % / green 200 % / blue 40 % / white 90 %, if channel 6 = 1 ... 16
	240 ... 255	Red 255 % / green 255 % / blue 255 % / white 255 %, if channel 6 = 1 ... 16
	0 ... 255	Speed, if channel 6 = 17 ... 237
	0 ... 255	Microphone sensitivity, if channel 6 = 238 ... 255
8	0 ... 10	No function
	11 ... 255	Stroboscope effect (slow to fast)



## 7.4 Operating mode Slave

This setting is only relevant if the device is not controlled via DMX.

Press *[Mode]* or *[Up]* | *[Down]* repeatedly until the display shows 'SLAv'. The device now operates in slave mode and follows all processes of the controlling master device.

### 7.5 Dimmer mode

Dimmer 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]* or *[Up]* | *[Down]* repeatedly until the display shows 'Colr'. All LEDs light with the set intensity. Press *[Setup]* and change the intensity of the four primary colours one by one as desired:

- Red: 'r.000' ... 'r.255'
- Green: 'g.000' ... 'g.255'
- Blue: 'b.000' ... 'b.255'
- White: 'u.000' ... 'u.255'

## 7.6 Sound control

Sound control 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. In this operating mode, the device responds to acoustic pulses which are recorded by the integrated microphone.

Press *[Mode]* or *[Up]* | *[Down]* repeatedly until the display shows 'Soud'. Press *[Setup]* and use *[Up]* | *[Down]* to adjust the microphone sensitivity in a range of 'SU.00' ... 'SU.31'.

## 7.7 Reset to factory defaults

Press *[Mode]* or *[Up]* | *[Down]* repeatedly until the display shows 'Set'. Press *[Setup]*, the display shows '-rSt'. Press again *[Setup]* to reset the device to the factory default settings. Use *[Up]* | *[Down]* to select either '-YES' to confirm the reset to factory settings, or '--NO', to cancel the reset to factory settings.

## 7.8 Device infos

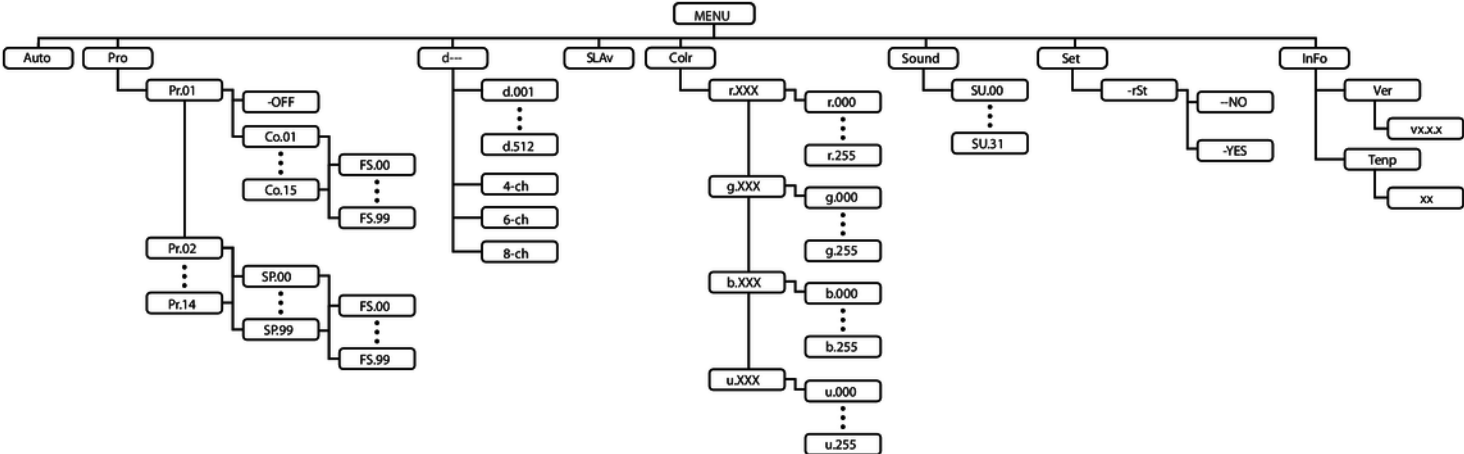
### Device temperature

Press *[Mode]* or *[Up]* | *[Down]* repeatedly until the display shows 'InFo'. Press *[Setup]*. Press *[Up]* | *[Down]* repeatedly until the display shows 'tEnP'. Press *[Setup]*. The device temperature. is displayed.

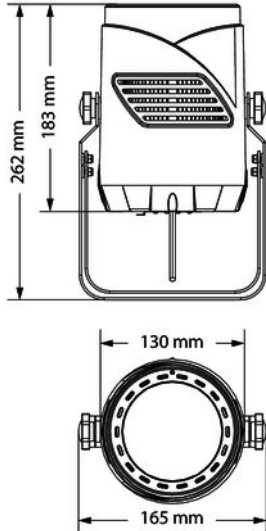
### Firmware version

Press *[Mode]* or *[Up]* | *[Down]* repeatedly until the display shows 'InFo'. Press *[Setup]*. Press *[Up]* | *[Down]* repeatedly until the display shows 'Ver'. Press *[Setup]*. The firmware version of the device is displayed.

### 7.9 Menu overview



## 8 Technical specifications



Light source		1 × 4-in1 COB LED RGB WW, 40 W
Optical properties	Beam angle	35° (beam)
		75° (spot)
Control		DMX
		Buttons and display on the unit
		Remote control (optional)
Number of DMX channels		4, 6, 8
Input connections	DMX control	XLR chassis plug, 3-pin
Output connections	DMX control	XLR chassis socket, 3-pin
Power consumption		37 W
Operating supply voltage		100 – 240 V ~ 50/60 Hz
Protection class		IP20

Mounting options		hanging, standing
Dimensions (W × H × D)		165 mm × 130 mm × 262 mm (incl. locking screws and bracket)
Weight		1.60 kg
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	50 %, non-condensing

### Further information

Construction	Cannon
Colour mixture	RGB WW
LED type	COB
Floor 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](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.

### 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 of 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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