STAIRVILLE

CLB4 RGB Compact LED Bar 4

User Manual

LED Lighting Set

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1 General information

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

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

1.1 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this document.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – high-voltage.
	Warning – dangerous optical radiation.
	Warning – suspended load.

Warning signs	Type of danger
	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 only and is not suitable for use in households. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

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

Safety

DANGER!

Risk of injury and choking hazard for children!

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

DANGER!

Danger to life due to electric current!

Within the device there are areas where high voltages may be present. Never remove any covers. There are no user-serviceable parts inside. Do not use the device when covers, safety equipment or optical components are missing or damaged.

DANGER!

Danger to life due to electric current!

A short circuit could lead to a fire hazard and risk of death. Always use proper ready-made insulated triple-core mains cable with a safety plug. Do not modify the mains cable or the plug. In case of isolation damage, disconnect immediately the power supply and arrange repair. If in doubt, seek advice from a qualified electrician.

WARNING!

Risk of eye damage caused by high light intensity!

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

WARNING!

Risk of epileptic fit due to flashing lights!

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

NOTICE!

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

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

NOTICE!

Damage to the device if operated in unsuitable ambient conditions!

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

NOTICE!

Damage to the device due to high voltages!

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

NOTICE!

Risk of fire by exceeding the maximum current!

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

NOTICE!

Risk of fire due to incorrect polarity!

Incorrectly inserted batteries may cause fires and destroy the device and the batteries. Observe the markings on the batteries and on the device. Ensure that proper polarity is observed when inserting batteries.

NOTICE!

Possible damage due to leaking batteries!

Batteries can leak and cause permanent damage to the device. Take the batteries out of the device if it is not going to be used for an extended period of time.

NOTICE!

Risk of fire due to installation of a wrong fuse!

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

NOTICE!

Risk of short circuit due to changing the connection wiring during operation!

If connection cables of individual spots are removed or replaced during operation, short circuits may occur that can irreparably damage the device. Always disconnect the device from the mains before making any changes to the wiring.

NOTICE!

Damage to the device by disconnecting LED spots during operation!

If individual LED spots are disconnected from the device during operation, the device can get damaged. Operate the device only when all LED spots are connected. Always disconnect the device from the mains before removing the LED spots.

3 Features

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

Special features of the device:

- 4 LED spots with 7 TRI-Colour LEDs each
- Control via DMX (6 different modes), buttons and display on the device, foot switch (item no. 279058, available as an option) and infrared remote control (item no. 354223, available as an option)
- 16 pre-programmed 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 from falling devices that were inadequately secured!

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

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

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

NOTICE!

Damage to the device by disconnecting LED spots during operation!

If individual LED spots are disconnected from the device during operation, the device can get damaged.

Operate the device only when all LED spots are connected.

Always disconnect the device from the mains before removing the LED spots.

NOTICE!

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

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

Make sure that illuminated surfaces are more than 2 m away.

Do not operate the device in ambient temperatures above 40 °C.

Always ensure sufficient ventilation at the operating location.

NOTICE!

Potential property damage due to unsuitable stands!

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

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

NOTICE!

Data transfer errors due to improper wiring!

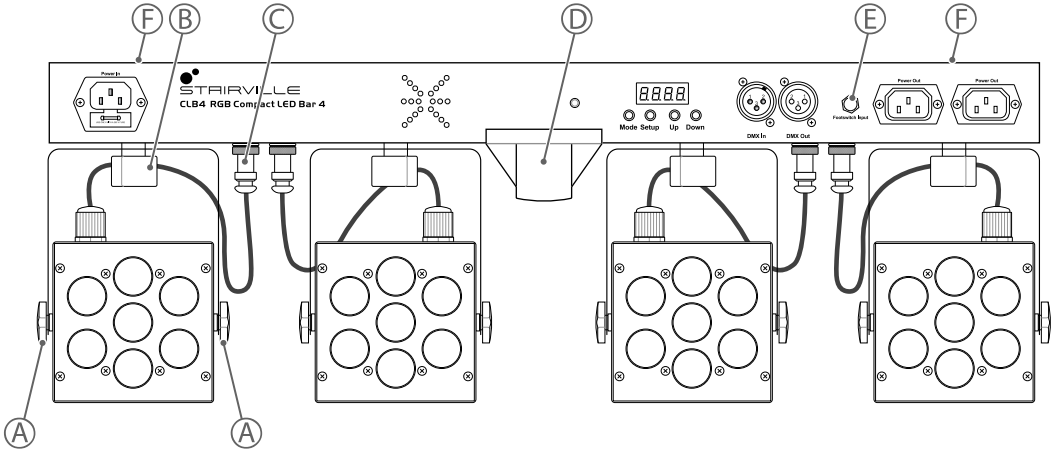
If the DMX connections are wired incorrectly, this can cause errors during the data transfer.

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

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

Pre-mounted spots

The four sports (1 … 4, right to left) are pre-mounted on the T-bar.

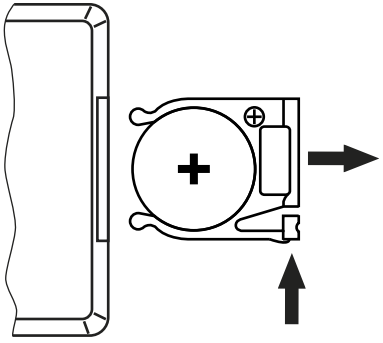


A	Locking screws for securing the inclination angle.
B	Locking screw for securing the spots on the T-bar and for horizontal orientation (beam direction).
C	Electrical connection of the spot at the T-bar (pre-mounted).
D	36-mm flange for mounting the T-bar on a stand.

E	6.35-mm jack socket for connecting a foot switch unit.
F	Threads for attaching additional effects units or for hanging by means of C-hooks.

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

Inserting the battery into the remote control



Push the lock of the battery holder towards the centre of the housing and pull out the battery holder like a drawer. Insert the batteries. 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 film. Remove the plastic film before initial use.

NOTICE!

Risk of fire due to incorrect polarity!

Incorrectly inserted batteries may cause fires and destroy the device and the batteries.

Observe the markings on the batteries and on the device.

Ensure that proper polarity is observed when inserting batteries.

NOTICE!

Possible damage due to leaking batteries!

Batteries can leak and cause permanent damage to the device.

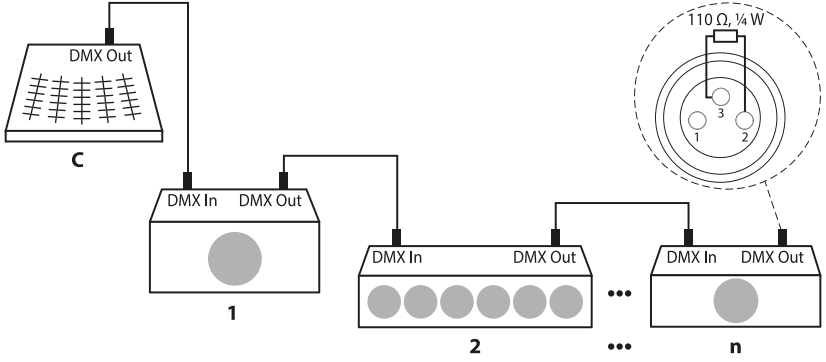
Take the batteries out of the device if it is not going to be used for an extended period of time.

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 Ω, ¼ W).



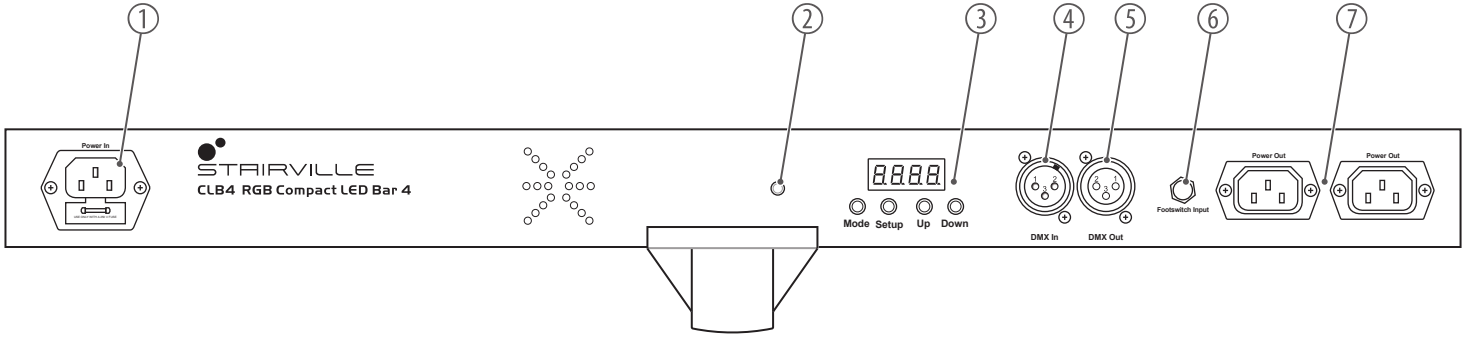
DMX indicator

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.

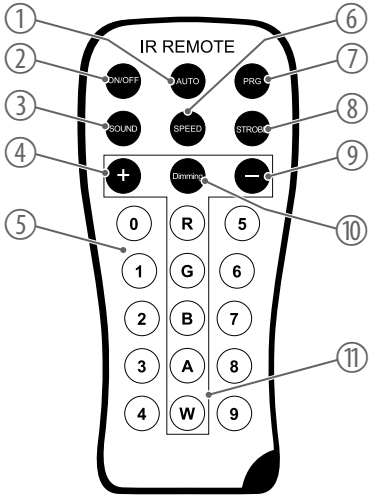
6 Connections and controls



1	*[Power In]* | Rubber panel plug for the power supply with fuse holder.
2	Infrared receiver for the optional remote control. Make sure that the infrared receiver is not obstructed.
3	Display and function buttons
	[Mode] | Activates the main menu and toggles between menu items. Closes an open submenu.
	[Setup] | Selects an option of the respective operating mode, confirms the set value.
	[Up] | Increases the displayed value by one.
	[Down] | Decreases the displayed value by one.

4	*[DMX In]* | DMX input, designed as XLR panel plug, 3-pin
5	*[DMX Out]* | DMX output, designed as XLR panel socket, 3-pin
6	*[Footswitch Input]* | 6.35-mm jack socket for connecting a foot switch unit
7	*[Power Out]* | Rubber panel sockets for the power supply cable to the next device of the same type

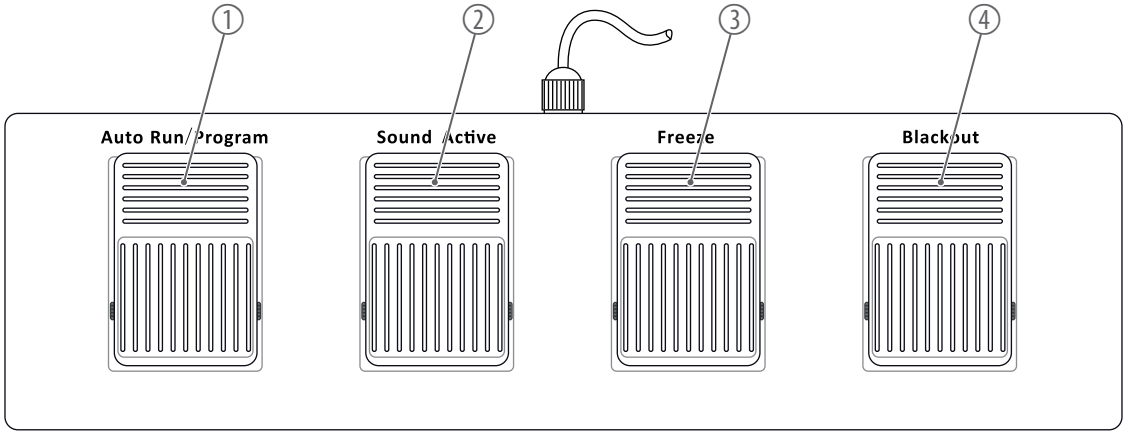
Infrared remote control (item no. 354223, optionally available)



Since the universal remote control can be used for several device types, some buttons may not be assigned and therefore have no function.

1	*[AUTO]* | Activates "Automatic" mode.
2	*[ON/OFF]* | Turns the device on and off.
3	*[SOUND]* | Activates "Sound control" mode. Set the sensitivity of the built-in microphone with *[+]* and *[–]*.
4	*[+]* | Increases the set value.
5	*[0 … 9]* | Number buttons for the direct selection of a fixed colour.
6	*[SPEED]* | Activates the setting mode for the programme speed. Adjust the speed using *[+]* and *[–]*.
7	*[PRG]* | Activates the "Pre-programmed automatic show" mode. Select the required programme with *[+]* and *[–]*.
8	*[STROBE]* | Activates the setting mode for the strobe speed. Adjust the speed using *[+]* and *[–]*.
9	*[–]* | Decreases the set value.
10	*[Dimming]* | Activates the dimming function for fixed colours. Set the value for each fixed colour using *[+]* and *[–]*.
11	*[R]*, *[G]*, *[B]*, *[A]*, *[W]* | Buttons for selecting the colour shade in dimmer mode.

Foot switch unit (item no. 279058, optionally available)



1	*[Auto Run/Program]* | Activates "Automatic" mode (playback of pre-programmed automatic shows).
2	*[Sound Active]* | Activates "Sound control" mode (playback of sound-controlled automatic shows).
3	*[Freeze]* | Pauses the running show ("freeze") and resumes it after a break.
4	*[Blackout]* | Blacks out all LEDs or turns them back on again.

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 buttons and display on the unit.

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.

Auto Run/Program	Press the button repeatedly until the display shows *'AUTO'* to activate the 'Automatic' mode (13 programmes run automatically in sequence). Press the switch in a running programme to jump into the next one. If you press the switch in programme 13, the sequence restarts with programme 1.
Sound Active	Press the button once to activate the 'Sound-control' mode. Press the button again to toggle between the 31 available sound modes.
Freeze	Press the button once to pause a running programme. Press the button again to let the programme continue.
Blackout	Press the button once to turn off a running programme. Press the button again to return to the previous mode.

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 *'SU.01'* to *'SU.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	Bright blue	B	Blue
3	Orange	8	Yellow	A	Amber
4	Cold white	9	Warm white	W	White

Reset to default settings

To reset the device, press *[OFF]* and subsequently *[9]*, *[8]*, and *[7]*.

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 turns off. It will be reactivated to display the previously shown menu by pressing any button.

The set values are retained even when the device is disconnected from the mains power supply.

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.

To adjust the programme speed, press *[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).

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
3-channel	510
4-channel	509
8-channel	505
14-channel	499
2-channel	511
7-channel	506

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

- *'3-ch'* (three channels)
- *'4-ch'* (four channels)
- *'8-ch'* (eight channels)
- *'14ch'* (14 channels)

- *'2-ch'* (two channels)
- *'7-ch'* (seven 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'*.

Press *[Setup]* and use *[Up]* and *[Down]* to adjust the sensitivity for the built-in microphone in a range from *'SO.00'* (low sensitivity) to *'SO.31'* (high sensitivity).

Press *[Setup]* again and activate with *[Up]* and *[Down]* one of the programmed shows *'SU.01'* to *'SU.31'*.

Constant unicoloured pattern

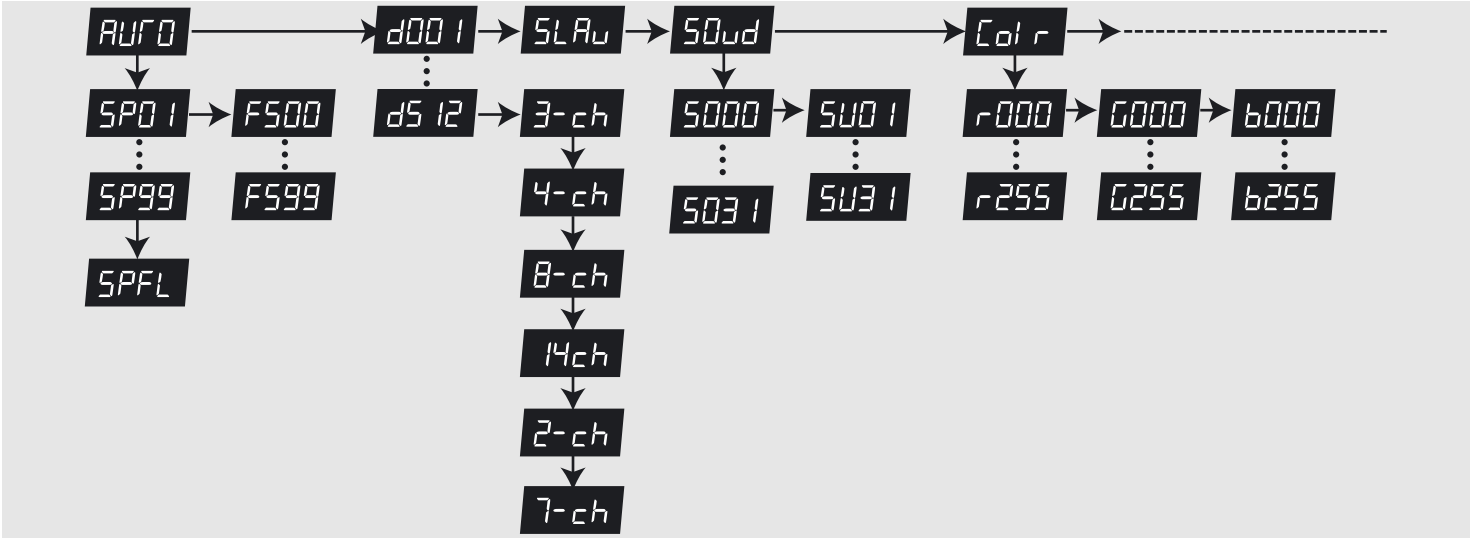
A constant unicoloured pattern can only be activated when the unit is operating in stand alone mode or as master in a master / slave combination. This setting is only relevant if the device is not controlled via DMX.

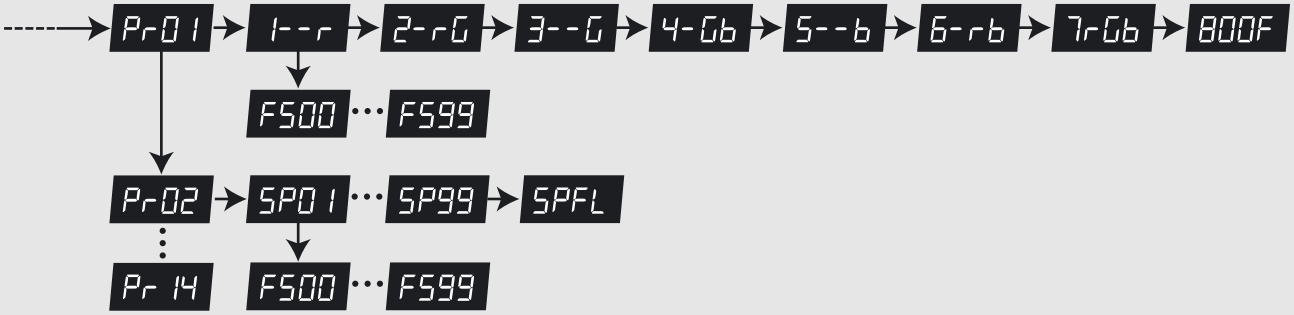
Press *[Mode]* until the display shows *'Colr'*. Press *[Setup]*. The display shows *'r.xxx'*, *'G.xxx'*, or *'b.xxx'*. Press *[Setup]* to change the colour.

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

7.6 Menu overview




Pr01
1--r
2-rG
3--G
4-Gb
5--b
6-rb
7rGb
8OOF
F500
F599
Pr02
SP01
SP99
SPFL
Pr 14
F500
F599

7.7 Functions in 2-channel DMX mode

Channel	Value	Function
1	0…9	LEDs off
	10…19	Constant unicoloured pattern in red for all LEDs
	20…29	Constant unicoloured pattern in yellow for all LEDs
	30…39	Constant unicoloured pattern in green for all LEDs
	40…49	Constant unicoloured pattern in cyan for all LEDs
	50…59	Constant unicoloured pattern in blue for all LEDs
	60…69	Constant unicoloured pattern in pink for all LEDs
	70…79	Constant unicoloured pattern in white for all LEDs
	80…89	Preprogrammed automatic show no. 1, speed adjustment via channel 2
		⋮
	230…239	Preprogrammed automatic show no. 16, speed adjustment via channel 2
	240…255	Sound-controlled show
2	0…255	Increasing speed

Channel	Value	Function
	Channel 1 = 240…225	
	0…255	Sound mode 1…16

7.8 Functions in 3-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

7.9 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

Channel	Value	Function
3	0…255	Intensity blue (0 % to 100 %), for all LEDs together
4	0…255	Dimmer (0 % to 100 %)

7.10 Functions in 7-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…9	Manual mode, all colours can be adjusted via channels 1 to 3
	10…19	Constant unicoloured pattern in red for all LEDs
	20…29	Constant unicoloured pattern in yellow for all LEDs
	30…39	Constant unicoloured pattern in green for all LEDs
	40…49	Constant unicoloured pattern in cyan for all LEDs
	50…59	Constant unicoloured pattern in blue for all LEDs

Channel	Value	Function
	60…69	Constant unicoloured pattern in pink for all LEDs
	70…79	Constant unicoloured pattern in white for all LEDs
	80…89	Preprogrammed automatic show no. 1
		⋮
	230…239	Preprogrammed automatic show no. 16
	240…255	Sound-controlled show
5	0…255	Increasing speed
	Channel 4 = 240…255	
	0…255	Sound mode 1…16
6	Channel 4 = 0…239	
	0…255	Strobe effect, increasing speed
7	Channel 4 = 0…239	
	0…255	Dimmer (0 % to 100 %)

7.11 Functions in 8-channel DMX mode

Channel	Value	Function
1	0…255	Intensity red (0 % to 100 %) all LEDs spot 1 and 2
2	0…255	Intensity green (0 % to 100 %) all LEDs spot 1 and 2
3	0…255	Intensity blue (0 % to 100 %) all LEDs spot 1 and 2
4	0…255	Intensity red (0 % to 100 %) all LEDs spot 3 and 4
5	0…255	Intensity green (0 % to 100 %) all LEDs spot 3 and 4
6	0…255	Intensity blue (0 % to 100 %) all LEDs spot 3 and 4
7	0…255	Strobe effect, increasing speed, all LEDs spot 3 and 4
8	0…255	Dimmer (0 % to 100 %)

7.12 Functions in 14-channel DMX mode

Channel	Value	Function
1	0…255	Intensity red (0 % to 100 %) all LEDs spot 1
2	0…255	Intensity green (0 % to 100 %) all LEDs spot 1

Channel	Value	Function
3	0…255	Intensity blue (0 % to 100 %) all LEDs spot 1
4	0…255	Intensity red (0 % to 100 %) all LEDs spot 2
5	0…255	Intensity green (0 % to 100 %) all LEDs spot 2
6	0…255	Intensity blue (0 % to 100 %) all LEDs spot 2
7	0…255	Intensity red (0 % to 100 %) all LEDs spot 3
8	0…255	Intensity green (0 % to 100 %) all LEDs spot 3
9	0…255	Intensity blue (0 % to 100 %) all LEDs spot 3
10	0…255	Intensity red (0 % to 100 %) all LEDs spot 4
11	0…255	Intensity green (0 % to 100 %) all LEDs spot 4
12	0…255	Intensity blue (0 % to 100 %) all LEDs spot 4
13	0…255	Strobe effect, increasing speed
14	0…255	Dimmer (0 % to 100 %)

8 Technical specifications

Light source	28 × tri-colour LEDs, 3 W	
Optical properties	Beam angle	45°
Control	DMX	
	Remote control (available as an option)	
	Foot switch (available as an option)	
Number of DMX channels	2, 3, 4, 7, 8, 14	
Input connections	Power supply	1 × rubber panel plug C14
	DMX control	1 × XLR chassis socket, 3-pin
	Foot switch unit	1 × 6.35-mm jack socket
Output connections	Power supply for further devices	2 × rubber panel socket C13 Combined output current, max.: 6 A
	DMX control	1 × XLR chassis socket, 3-pin
Power consumption	80 W	
Supply voltage	100 - 240 V ~ 50/60 Hz	
Fuse	5 mm × 20 mm, 2 A, 250 V, slow blow	

Battery remote control	Lithium-ion button cell CR2025, 3 V	
International Protection Rating	IP20	
Mounting options	Stand adapter: 36-mm flange	
Dimensions (W × H × D)	682 mm × 270 mm × 60 mm	
Weight	5.4 kg	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	20%…80% (non-condensing)

Further information

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

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!

Data transfer errors due to improper wiring!

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

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

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

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

Symptom	Remedy
The device is not working, no light	Check the mains connection and the fuse.
No response to the DMX controller	1. If the dot behind the first character of the display is flashing in “DMX” mode, no DMX signal is being received. Check that the DMX controller is switched on. Check the DMX connections and cables for proper connection.
	2. If the display is not flashing but there is still no response, check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check whether the DMX cables run near or parallel to high-voltage cables that may cause damage or interference to a DMX interface circuit.

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

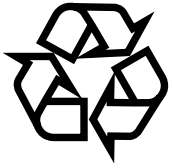
Optical lenses

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.

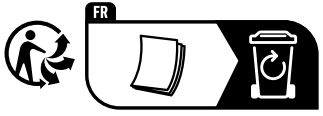
12 Protecting the environment

Disposal of the packing material



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

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



Observe the disposal note regarding documentation in France.

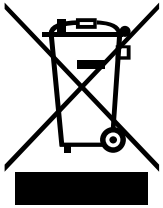
Disposal of batteries

Batteries must not be thrown away or burnt, but must instead be disposed of in line with the local regulations on the disposal of hazardous waste. Use the available collection sites.

Only dispose of lithium batteries when they are empty. Remove lithium batteries from the device before disposal if this is possible without destroying it. Protect used lithium batteries against short circuit, for example by taping the poles. Dispose the built-in lithium batteries together with the device. Check for an appropriate collection facility.

Dispose of the batteries and rechargeable batteries at relevant collection points or through your local waste facility.

Disposal of your old device



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

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

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

Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal.

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