



LED BARbara 16  
LED BARbara 24

LED Bar

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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 – 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 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!**

#### **Fire hazard due to exceedance of the maximum current**

The device can power other devices of identical construction. The current consumption of all other devices connected in series must not exceed the values indicated in the technical specifications. Otherwise you risk injuries and irreparable damages to the device. Only connect so many identical devices that the maximum current consumption is not exceeded. Ensure the sufficient dimensioning (wire cross section) of the power cables used for all devices connected in series.



### **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!**

**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.

### 3 Features

The LED bar is particularly suitable for professional lighting tasks, for example at events, on rock stages, in theatres and musicals. It's characterized by low power consumption and long service life.

Special features of the device:

- **LED BARbara 16:** 16 × LEDs in eight controllable segments
- **LED BARbara 24:** 24 × LEDs in eight controllable segments
- Control via DMX (4 different modes), via buttons and display on the unit as well as an optionally available IR remote control (item no. 354223)
- 21 preprogrammed automatic shows
- Sound control
- Master / Slave mode
- Robust metal housing
- optionally available bag for four LED bars (item no. 538263)

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 of the brackets for fixing.

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.

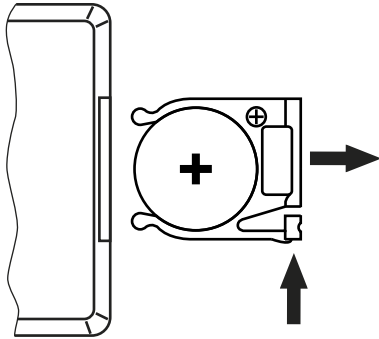
The safety rope must be attached to both brackets.





*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.



#### **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.

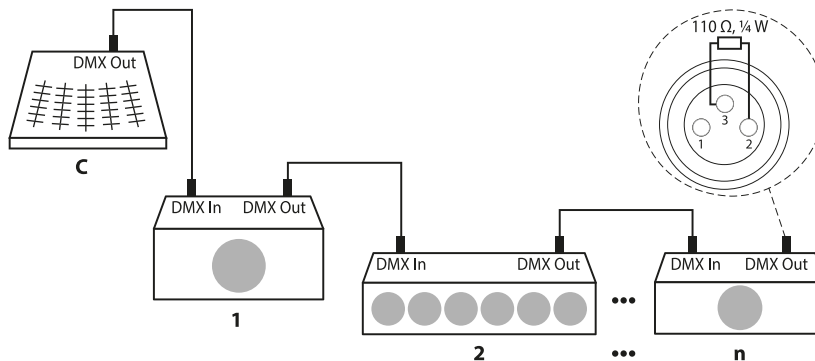
Take batteries out of the device if it is not going to be used for a longer period.

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



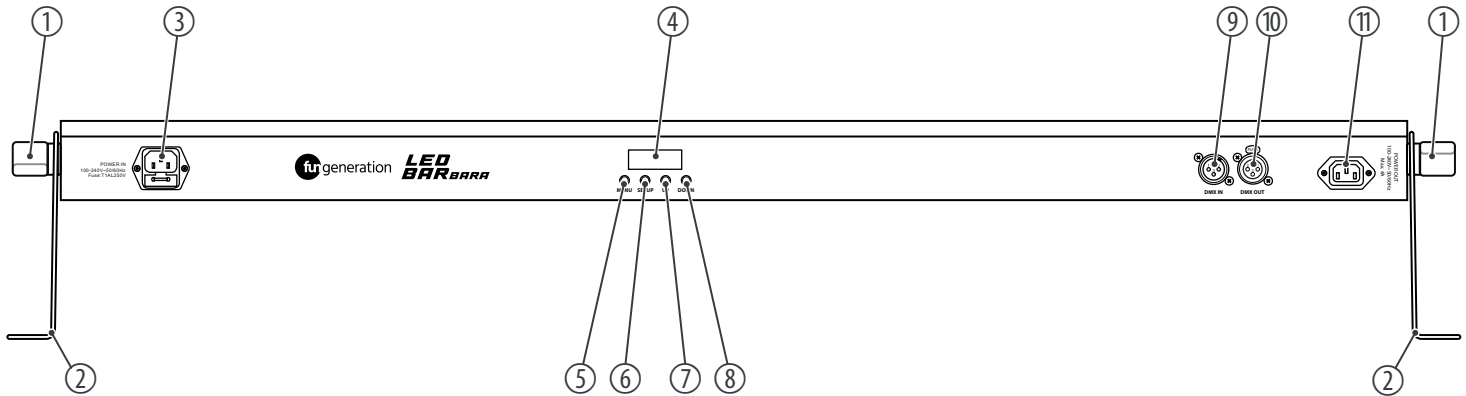
### **DMX indicator**

If the indicator 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.

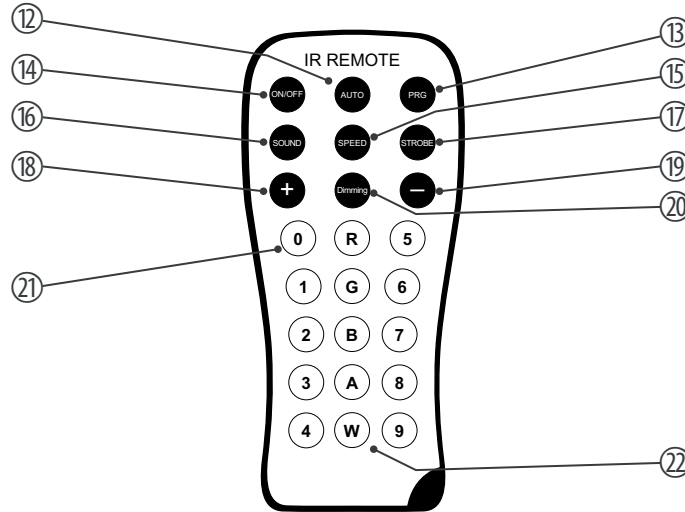
## 6 Connections and operating elements



1	Locking screws for the mounting bracket
2	Mounting bracket
3	[POWER IN]   IEC chassis plug for operating voltage supply with fuse holder
4	Display
5	[MODE]   activates the main menu and toggles between menu items
6	[SETUP]   selects an option of the respective operating mode
7	[UP]   navigates upwards in a menu list, increases the displayed value by one
8	[DOWN]   navigates downwards in a menu list, decreases the displayed value by one
9	[DMX IN]   DMX input
10	[DMX OUT]   DMX output
11	[POWER OUT]   IEC chassis socket for the power supply cable to the next unit

**IR remote control**

IR remote control is optional accessory and not included.



12	<i>[AUTO]</i>   enables the Auto mode
13	<i>[PRG]</i>   enables the Programme mode. Select the desired programme with the buttons <i>[+]</i> and <i>[-]</i> .
14	<i>[ON/OFF]</i>   activates / deactivates the device
15	<i>[SPEED]</i>   activates the setting mode for the programme speed. Adjust the speed using the buttons <i>[+]</i> and <i>[-]</i> .
16	<i>[SOUND]</i>   activates the sound control
17	<i>[STROBE]</i>   turns the strobe function on / off
18	<i>[+]</i>   increases the set value by one
19	<i>[-]</i>   decreases the set value by one
20	<i>[Dimming]</i>   enables the dimmer function
21	<i>[0 ... 9]</i>   numeric buttons for direct selection of a constant colour
22	<i>[R], [G], [B], [A], [W]</i>   buttons to select a colour tone for the dimmer mode



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## 7 Operating

### 7.1 Starting the device

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

### 7.2 Main menu

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

If you don't press any button for about 30 seconds, the current setting will be automatically applied and the display turns off. The set values are retained as long as the device is connected to the mains power supply.

### Operating mode 'Built-in automatic show'

A built-in 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 'Prxx'. Now you can select one of the preprogrammed automatic shows. Use *[UP]* and *[DOWN]* to select a value between 'Pr01' and 'Pr21'.

For programmes Pr20 and Pr21 you can set a static colour across all segments (background colour) or a colour that lights up segment-wise (hopping colour). Press *[SETUP]* repeatedly until the display shows '1xxx' (background colour) or '2xxx' (hopping colour), respectively. With *[UP]* and *[DOWN]* you can choose from the following options:

Display	Meaning
'--r'	Red
'-rg'	Red and green
'--g'	Green
'-gb'	Green and blue
'--b'	Blue
'-rb'	Red and blue
'rgb'	Red and green and blue
' OFF'	LEDs off

To adjust the speed of the selected automatic show, press *[SETUP]* repeatedly until the display shows 'SPxx'. With *[UP]* and *[DOWN]* you can now select a value between 'SP01' (slow) and 'SP99' (fast) as well as 'SPFL' (flash effect).

To adjust the strobe frequency, press *[SETUP]* repeatedly until the display shows 'FSxx'. With *[UP]* and *[DOWN]* you can now select a value between 'SPFS00' (slow) and 'FS99' (fast).

To adjust the fade speed of the selected automatic show, press *[SETUP]* repeatedly until the display shows 'Fdx'. With *[UP]* and *[DOWN]* you can now select a value between 'Fd00' (slow) and 'Fd99' (fast).

Wait about 30 seconds until the display turns dark. Then the settings have been applied. To return to the parent menu without making changes, press *[MODE]*.

### 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'.

To adjust the speed of the automatic mode, press *[SETUP]* repeatedly until the display shows 'SPxx'. With *[UP]* and *[DOWN]* you can now select a value between 'SP01' (slow) and 'SP99' (fast) as well as 'SPFL' (flash effect).

To adjust the strobe frequency of the automatic mode, press *[SETUP]* repeatedly until the display shows 'FSxx'. With *[UP]* and *[DOWN]* you can now select a value between 'SPFS00' (slow) and 'FS99' (fast).

To adjust the fade speed of the automatic mode, press *[SETUP]* repeatedly until the display shows 'Fdxx'. With *[UP]* and *[DOWN]* you can now select a value between 'Fd00' (slow) and 'Fd99' (fast).

Wait about 30 seconds until the display turns dark. Then the settings have been applied. To return to the parent menu without making changes, press *[MODE]*.

## DMX address

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

Press *[MODE]* repeatedly until the display shows 'dxxx'.

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

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

Mode	Highest possible DMX address
2-channel	511
3-channel	510
5-channel	508
24-channel	489

Wait about 30 seconds until the display turns dark. Then the settings have been applied. To return to the parent menu without making changes, press *[MODE]*.

### **DMX mode**

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

Press *[MODE]* repeatedly until the display shows 'dxxx'. Press *[SETUP]*. With *[UP]* and *[DOWN]* you can now select one of the following DMX operating modes:

- '2-ch' (two channels)
- '3-ch' (three channels)
- '5-ch' (five channels)
- '24Ch' (twenty-four channels)

Wait about 30 seconds until the display turns dark. Then the settings have been applied. To return to the parent menu without making changes, press *[MODE]*.

### **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'.

Wait about 30 seconds until the display turns dark. Then the settings have been applied. To return to the parent menu without making changes, press *[MODE]*.

## Sound control and microphone sensitivity

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 'SUxx'. This activates a sound controlled automatic show.

Now you can adjust the sensitivity of the built-in microphone for sound control. Use *[UP]* and *[DOWN]* to select a value between 0 (low sensitivity) and 31 (high sensitivity), the display shows 'SU00' ... 'SU31'.

Wait about 30 seconds until the display turns dark. Then the settings have been applied. To return to the parent menu without making changes, press *[MODE]*.

### 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]*. With *[UP]* and *[DOWN]* you can choose from the following options:

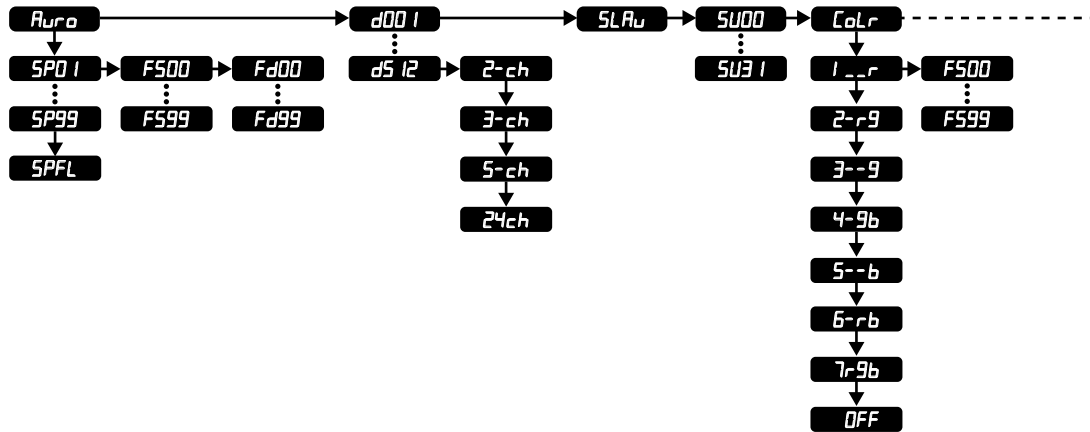
Display	Meaning
'1--r'	Red
'2-rg'	Red and green
'3--g'	Green
'4-gb'	Green and blue
'5--b'	Blue
'6-rb'	Red and blue
'7rgb'	Red and green and blue
' OFF'	LEDs off

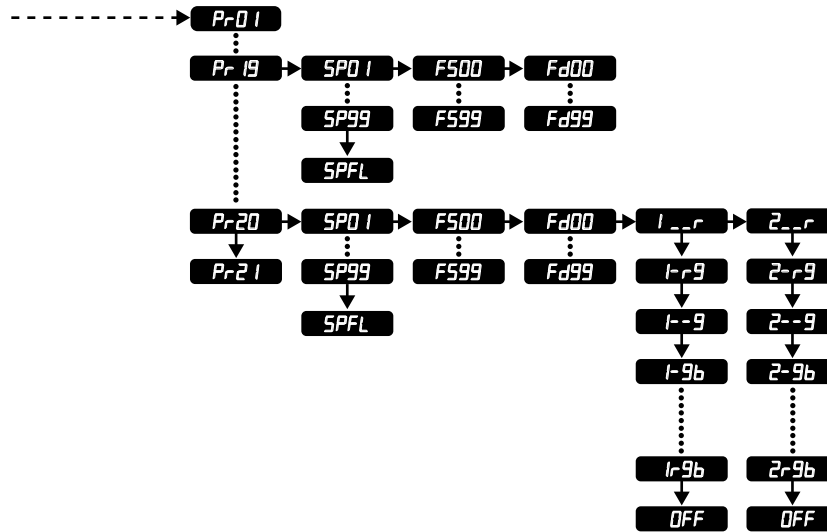
To adjust the strobe frequency, press *[SETUP]* repeatedly until the display shows 'FSxx'. With *[UP]* and *[DOWN]* you can now select a value between 'SPFS00' (slow) and 'FS99' (fast).

Wait about 30 seconds until the display turns dark. Then the settings have been applied. To return to the parent menu without making changes, press *[MODE]*.



### 7.3 Menu overview





## 7.4 Functions in 2-channel DMX mode

Channel	Value	Function
1	0...7	LEDs off
	8...15	Constant unicoloured pattern in red
	16...23	Constant unicoloured pattern in red and green
	24...31	Constant unicoloured pattern in green
	32...39	Constant unicoloured pattern in blue and green
	40...47	Constant unicoloured pattern in blue
	48...55	Constant unicoloured pattern in blue and red
	56...63	Constant unicoloured pattern in red, green and blue
	64...231	Built-in automatic show programmes
	232...255	Sound-controlled show
2	Function depending on setting of channel 1	
	Channel 1 = 0...63	
	No function	
	Channel 1 = 64...231	

Channel	Value	Function
	0...255	Increasing speed
	Channel 1 = 232...255	
	0...255	Sensitivity of the built-in microphone for sound control

## 7.5 Functions in 3-channel DMX mode

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

## 7.6 Functions in 5-channel DMX mode

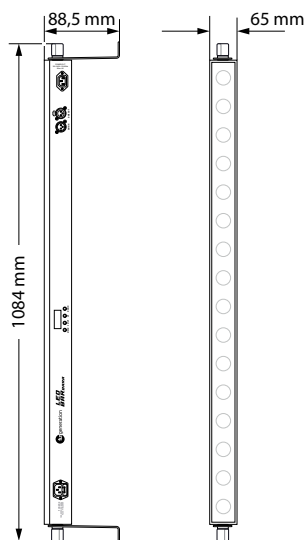
Channel	Value	Function
1	0...255	Intensity (0 % to 100 %) of the red LEDs
2	0...255	Intensity (0 % to 100 %) of the green LEDs
3	0...255	Intensity (0 % to 100 %) of the blue LEDs
4	0...255	Dimmer (0 % to 100 %), for all LEDs
5	0...255	Strobe effect, increasing speed

## 7.7 Functions in 24-channel DMX mode

Channel	Value	Function
1	0...255	Intensity (0 % bis 100 %) of the red LEDs in the 1. Segment
2	0...255	Intensity (0 % bis 100 %) of the green LEDs in the 1. Segment
3	0...255	Intensity (0 % bis 100 %) of the blue LEDs in the 1. Segment
4	0...255	Intensity (0 % bis 100 %) of the red LEDs in the 2. Segment
5	0...255	Intensity (0 % bis 100 %) of the green LEDs in the 2. Segment
6	0...255	Intensity (0 % bis 100 %) of the blue LEDs in the 2. Segment
7	0...255	Intensity (0 % bis 100 %) of the red LEDs in the 3. Segment
8	0...255	Intensity (0 % bis 100 %) of the green LEDs in the 3. Segment
9	0...255	Intensity (0 % bis 100 %) of the blue LEDs in the 3. Segment
10	0...255	Intensity (0 % bis 100 %) of the red LEDs in the 4. Segment
11	0...255	Intensity (0 % bis 100 %) of the green LEDs in the 4. Segment
12	0...255	Intensity (0 % bis 100 %) of the blue LEDs in the 4. Segment
13	0...255	Intensity (0 % bis 100 %) of the red LEDs in the 5. Segment
14	0...255	Intensity (0 % bis 100 %) of the green LEDs in the 5. Segment

Channel	Value	Function
15	0...255	Intensity (0 % bis 100 %) of the blue LEDs in the 5. Segment
16	0...255	Intensity (0 % bis 100 %) of the red LEDs in the 6. Segment
17	0...255	Intensity (0 % bis 100 %) of the green LEDs in the 6. Segment
18	0...255	Intensity (0 % bis 100 %) of the blue LEDs in the 6. Segment
19	0...255	Intensity (0 % bis 100 %) of the red LEDs in the 7. Segment
20	0...255	Intensity (0 % bis 100 %) of the green LEDs in the 7. Segment
21	0...255	Intensity (0 % bis 100 %) of the blue LEDs in the 7. Segment
22	0...255	Intensity (0 % bis 100 %) of the red LEDs in the 8. Segment
23	0...255	Intensity (0 % bis 100 %) of the green LEDs in the 8. Segment
24	0...255	Intensity (0 % bis 100 %) of the blue LEDs in the 8. Segment

## 8 Technical specifications



		<b>LED BARbara 16</b> <b>(Item no. 539264)</b>	<b>LED BARbara 24</b> <b>(Item no. 539265)</b>
Light source		16 × RGB LED, each 3 W  (each 2 LEDs in eight segments)	24 × RGB LED, each 3 W  (each 3 LEDs in eight segments)
Optical properties	Beam angle	30°	
	Lens	clear	
Control		DMX, buttons and display on the unit, Infrared remote control (optional)	
Number of DMX channels		2, 3, 5, 24	
Input connections	Voltage supply	IEC chassis plug C14	
	DMX control	XLR chassis plug, 3-pin	
Output connections	Voltage supply	IEC chassis plug C14	
	DMX control	XLR chassis socket, 3-pin	
Power consumption		25 W	



		<b>LED BARbara 16 (Item no. 539264)</b>	<b>LED BARbara 24 (Item no. 539265)</b>
Operating supply voltage		100 - 240 V ~ 50/60 Hz	
Fuse		5 mm × 20 mm, 1 A, 250 V, slow-blow	
Battery remote control		Lithium-ion button cell CR2025, 3 V	
Protection class		IP20	
Mounting options		hanging, standing	
Dimensions (W × H × D)		1084 mm × 88.5 mm × 65 mm	
Weight		2.6 kg	
Ambient conditions	Temperature range	0 °C...40 °C	
	relative humidity	20 %...80 % (non-condensing)	

### Further information

Outdoor-ready	no
LED type	x-in-1
fanless	yes
Remote control	optional
wireless DMX	no
LEDs individually controllable	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 main fuse.
No response to the DMX controller	<ol style="list-style-type: none"> <li>1. When the display flashes, e.g. 'd001', no valid DMX signal is received. Check whether the DMX controller is switched on. Check the DMX connectors and cables for proper connection.</li> <li>2. If the display is not flashing but there is still no response, check the address settings and the DMX polarity.</li> <li>3. Try using another DMX controller.</li> <li>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.</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 must not be thrown away or incinerated; they must be disposed of in accordance with local regulations for the disposal of hazardous waste. Use the existing collection points for this.

Only dispose of lithium batteries when they are discharged. Remove replaceable lithium batteries from the device before disposal. Protect used lithium batteries against short circuits, for example by covering the poles with adhesive tape. Permanently built-in lithium batteries must be disposed of together with the device. Please inquire about an appropriate collection point.

### 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.









