



Starstrip 10 Active DMX

blinder

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

15.05.2020, ID: 461734 (V2)

Table of contents

1	General notes.....	6
2	Safety instructions.....	9
3	Features.....	15
4	Installation.....	16
5	Starting up.....	19
6	Connections and controls.....	22
7	Operating.....	25
	7.1 Starting the device.....	25
	7.2 Main menu.....	25
	7.3 Menu overview.....	37
	7.4 Functions in 1-channel DMX mode.....	38
	7.5 Functions in 2-channel DMX mode.....	38
	7.6 Functions in 4-channel DMX mode.....	39
	7.7 Functions in 5-channel DMX mode.....	39
	7.8 Functions in 10-channel DMX mode.....	40

8	Technical specifications.....	42
9	Plug and connection assignments.....	45
10	Troubleshooting.....	46
11	Cleaning.....	48
12	Protecting the environment.....	49



1 General notes

This user manual contains important information on 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, include the manual for the next owner.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

Symbols and signal words

This section provides an overview of the symbols and signal words used in this user manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.
	Warning – dangerous optical radiation.

Warning signs	Type of danger
 A yellow triangular warning sign with a black border. Inside the triangle is a black silhouette of a person standing next to a large rectangular object (a load) that is being lifted by a crane hook and cables.	Warning – suspended load.
 A yellow triangular warning sign with a black border. Inside the triangle is a large black exclamation mark.	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used as an illumination effect. 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.

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!

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.

3 Features

Special features of the device:

- Sunstrip with integrated dimmer and DMX control for blinder and effect applications
- 10 × warm white GU10 halogen light source (50 Watt each)
- Each lamp individually controllable
- Control via DMX and via buttons and display on the unit
- Built-in programmes with adjustable speed for stand alone applications
- Rugged metal housing
- Including two mounting brackets and two screwing loops for fixing
- Ideal for touring applications

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.

You can install the device on the wall, the ceiling or on the floor. The scope of delivery includes two screw-in eyelets as well as adjustable mounting brackets with locking screws; the brackets can also be used as feet to set it up.



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.



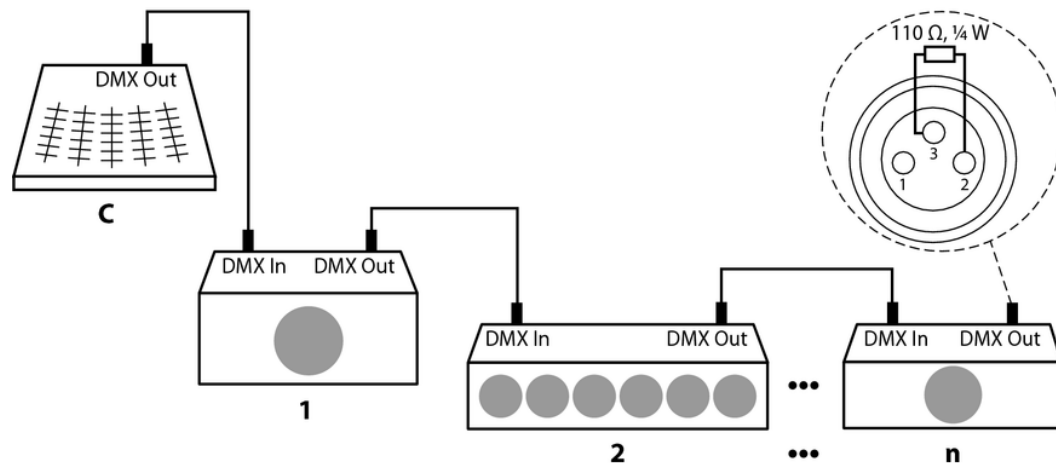
Please note that this device must not be connected to a dimmer.

5 Starting up

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

Connections in DMX mode

Connect the DMX input of the device to the DMX output of a DMX controller or 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 ($110\ \Omega$, $\frac{1}{4}\text{ W}$).



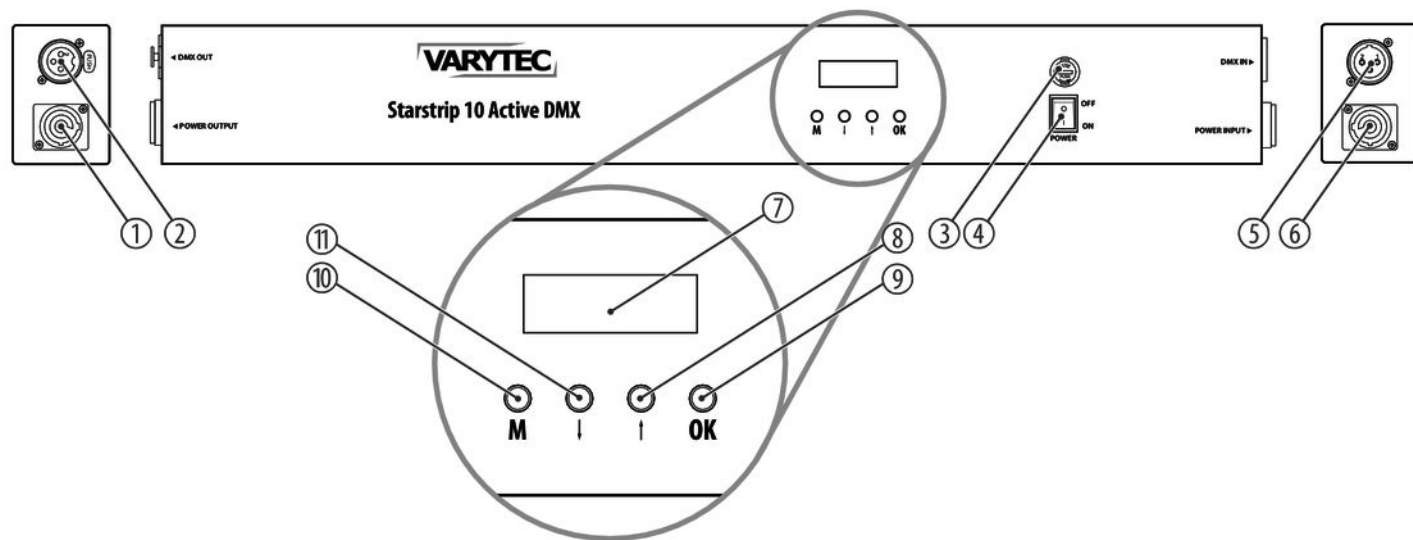
Connections in master/slave mode

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.

Starting the device

Connect the device to the power grid. Press the main switch *[POWER]* to *[ON]* to start operation.

6 Connections and controls



1	<i>[POWER OUTPUT]</i> Lockable output socket (Power Twist) for the power supply of further units
2	<i>[DMX OUT]</i> DMX output
3	Fuse holder
4	<i>[POWER]</i> Main switch. Turns the device on and off. ■ <i>[ON]</i> turns the device on. ■ <i>[OFF]</i> turns the device off.
5	<i>[DMX IN]</i> DMX input
6	<i>[POWER INPUT]</i> Lockable input socket (Power Twist) for power supply
7	Display

8	Button <i>[UP]</i> ↑ Navigates upwards in a menu list. Increases the displayed value by one.
9	<i>[OK]</i> button Confirms a selected value.
10	<i>[M]</i> button Activates the main menu and toggles between menu items. Selects the respective operating mode.
11	Button <i>[DOWN]</i> ↓ Navigates downwards in a menu list. Decreases the displayed value by one.

7 Operating

7.1 Starting the device

1. ➤ Connect the device to the power grid.
2. ➤ Press the main switch *[POWER]* to *[ON]* to start the device.
 - ⇒ The device operates in the last mode with the settings last selected.

7.2 Main menu

Menu control

1. ➤ Press *[M]* to open the main menu.
2. ➤ Use the arrow buttons to select the desired parameter or to change the respectively displayed value.
3. ➤ When the display shows the desired parameter or value press *[OK]* to enter the respective submenu or to confirm a new value.

4.  To return to the previous menu level without changes, press *[M]*.

DMX address

1. ➤ Press *[M]*.
2. ➤ Press one of the arrow buttons repeatedly until the display shows 'DMX' and confirm with the selection with *[OK]*.
3. ➤ Use the arrow buttons to select the submenu 'ADDR.' and confirm the selection with *[OK]*.
 - ⇒ Now you can set the number of the first DMX channel to be used by the device (DMX address).
4. ➤ Use the arrow buttons to select a value between '1' and '512' and confirm with the selection with *[OK]*.
 - Use *[M]* to return to the parent menu.
 - To return to the parent menu without changes press *[M]* without prior confirmation.

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
1-channel	512
2-channel	511
4-channel	509
5-channel	508
10-channel	503

DMX mode

1. ➤ Press *[M]*.
2. ➤ Press one of the arrow buttons repeatedly until the display shows 'DMX' and confirm with the selection with *[OK]*.
3. ➤ Use the arrow buttons to select the submenu 'MODE' and confirm the selection with *[OK]*.
4. ➤ Select the desired DMX mode:
 - '1CH' (one channel)
 - '2CH' (two channels)
 - '4CH' (four channels)
 - '5CH' (five channels)
 - '10CH' (ten channels)
5. ➤ Confirm the selection with *[OK]*. Use *[M]* to return to the parent menu.
6. ➤ To return to the parent menu without changes press *[M]* without prior confirmation.

Display setting

1. ➤ Press *[M]*.
2. ➤ Press one of the arrow buttons repeatedly until the display shows 'DISP' and confirm with the selection with *[OK]*.
3. ➤ Use the arrow buttons to select the desired display behaviour:
 - 'ON': The display stays always on.
 - 'OFF': The display will turn off after a few seconds if inactive.
4. ➤ Confirm the selection with *[OK]*. Use *[M]* to return to the parent menu.
5. ➤ To return to the parent menu without changes press *[M]* without prior confirmation.

Master mode

1. ➤ Press *[M]*.
2. ➤ Press one of the arrow buttons repeatedly until the display shows 'MASL' and confirm with the selection with *[OK]*.
3. ➤ Press one of the arrow buttons repeatedly until the display shows 'MA' and confirm with the selection with *[OK]*.
4. ➤ Use the arrow buttons to select the desired behaviour:
 - 'ON': Master / Slave mode is activated. The device works as a master device and controls connected devices of the same type that are configured as slaves.
 - 'OFF': Master / Slave mode is deactivated. The device is in Stand-Alone mode.
5. ➤ Confirm the selection with *[OK]*. Use *[M]* to return to the parent menu.
6. ➤ To return to the parent menu without changes press *[M]* without prior confirmation.

Slave mode

1. ➤ Press *[M]*.
2. ➤ Press one of the arrow buttons repeatedly until the display shows 'MASL' and confirm with the selection with *[OK]*.
3. ➤ Press one of the arrow buttons repeatedly until the display shows 'SL' and confirm with the selection with *[OK]*.
4. ➤ Use the arrow buttons to select a value between 1 and 512 (display shows 'A001' ... 'A512').
 - ⇒ The number of the device with which the device is addressed as slave by the master is set. This setting is only relevant if the device is operating as Slave controlled by a Master, but not via DMX.
5. ➤ Confirm the selection with *[OK]*. Use *[M]* to return to the parent menu.
6. ➤ To return to the parent menu without changes press *[M]* without prior confirmation.

Fade setting

1. ➤ Press *[M]*.
2. ➤ Press one of the arrow buttons repeatedly until the display shows 'FADE' and confirm with the selection with *[OK]*.
3. ➤ Use the arrow buttons to select the desired submenu and confirm the selection with *[OK]*:
 - 'MODE': Fade mode
 - 'SPEE': Fade speed
4. ➤ Use the arrow buttons to select the desired setting and confirm the selection with *[OK]*.

Submenu	Setting	Function
MODE	M-01 ... M-52	preset Fade programmes 1 ... 52
SPEE	S-01 ... S-10	Programme speed from slow (01) to fast (10)

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

5. ➤ Confirm the selection with *[OK]*. Use *[M]* to return to the parent menu.
6. ➤ To return to the parent menu without changes press *[M]* without prior confirmation.

Strobe effect

1. ➤ Press *[M]*.
2. ➤ Press one of the arrow buttons repeatedly until the display shows 'STRO' and confirm with the selection with *[OK]*.
3. ➤ Use the arrow buttons to select the desired submenu and confirm the selection with *[OK]*:
 - 'MODE': Programme selection
 - 'LIGT': Programme brightness
 - 'SPEE': Programme running speed
 - 'STRO': Stroboscope function, increasing speed for programmes
4. ➤ Use the arrow buttons to select the desired setting and confirm the selection with *[OK]*.

Submenu	Setting	Function
MODE	M-01 ... M-17	preset Strobe programmes 1 ... 17
LIGT	L000 ... L100	Programme brightness

Submenu	Setting	Function
SPEE	S-01 ... S-10	Programme speed from slow (01) to fast (10)
STRO	S-00 ... S-30	Stroboscope function, increasing speed for programmes

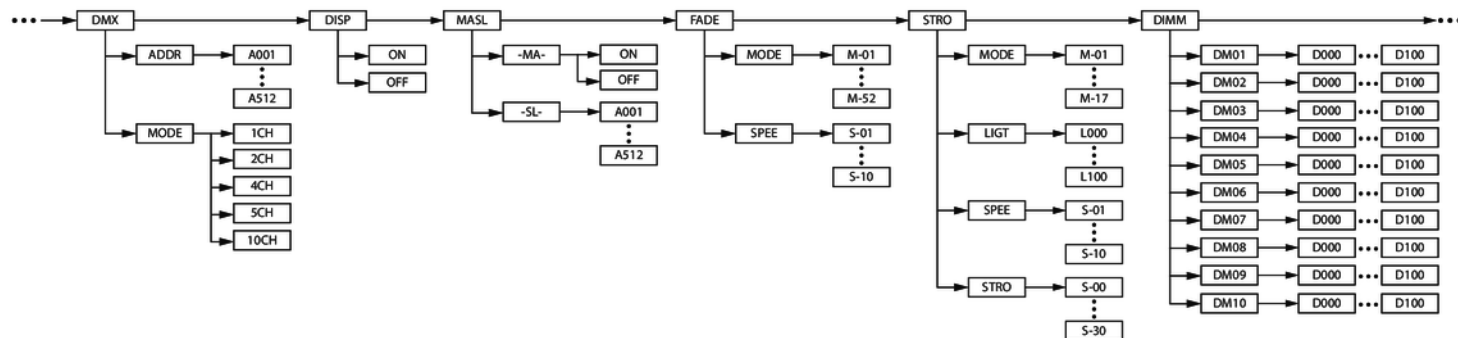
This setting is only relevant if the device is not controlled via DMX.

- 5.** ➤ Confirm the selection with *[OK]*. Use *[M]* to return to the parent menu.
- 6.** ➤ To return to the parent menu without changes press *[M]* without prior confirmation.

Dimmer setting

1. ➤ Press *[M]*. Press one of the arrow buttons repeatedly until the display shows 'DIMM' and confirm with the selection with *[OK]*.
2. ➤ Use the arrow buttons to select the desired submenu 'DM01' ... 'DM10' and confirm the selection with *[OK]*.
⇒ Manual adjustment of the brightness of each individual lamp is activated.
3. ➤ Use the arrow buttons to select the desired submenu 'DM01' ... 'DM10' and confirm the selection with *[OK]*.
This setting is only relevant if the device is not controlled via DMX.
4. ➤ Confirm the selection with *[OK]*. Use *[M]* to return to the parent menu.
5. ➤ To return to the parent menu without changes press *[M]* without prior confirmation.

7.3 Menu overview



7.4 Functions in 1-channel DMX mode

Channel	Value	Function
1	0 ... 255	Dimmer (0 % to 100 %)

7.5 Functions in 2-channel DMX mode

Channel	Value	Function
1	0 ... 255	Lamps 1 ... 5, dimmer (0 % to 100 %)
2	0 ... 255	Lamps 6 ... 10, dimmer (0 % to 100 %)

7.6 Functions in 4-channel DMX mode

Channel	Value	Function
1	0 ... 68	Chaser programmes
	69 ... 255	Fade programmes
2	0 ... 255	Stroboscope (0 % to 100 %)
3	0 ... 255	Speed (0 % to 100 %)
4	0 ... 255	Dimmer (0 % to 100 %)

7.7 Functions in 5-channel DMX mode

Channel	Value	Function
1	0 ... 255	Lamps 1 ... 2, dimmer (0 % to 100 %)
2	0 ... 255	Lamps 3 ... 4, dimmer (0 % to 100 %)

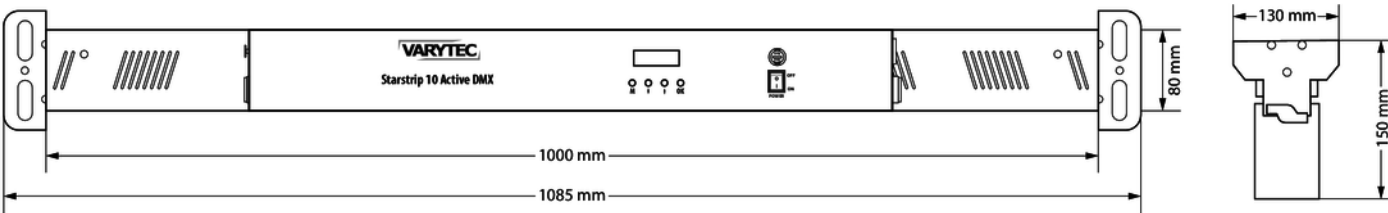
Channel	Value	Function
3	0 ... 255	Lamps 5 ... 6, dimmer (0 % to 100 %)
4	0 ... 255	Lamps 7 ... 8, dimmer (0 % to 100 %)
5	0 ... 255	Lamps 9 ... 10, dimmer (0 % to 100 %)

7.8 Functions in 10-channel DMX mode

Channel	Value	Function
1	0 ... 255	Lamp 1, dimmer (0 % to 100 %)
2	0 ... 255	Lamp 2, dimmer (0 % to 100 %)
3	0 ... 255	Lamp 3, dimmer (0 % to 100 %)
4	0 ... 255	Lamp 4, dimmer (0 % to 100 %)
5	0 ... 255	Lamp 5, dimmer (0 % to 100 %)

Channel	Value	Function
6	0 ... 255	Lamp 6, dimmer (0 % to 100 %)
7	0 ... 255	Lamp 7, dimmer (0 % to 100 %)
8	0 ... 255	Lamp 8, dimmer (0 % to 100 %)
9	0 ... 255	Lamp 9, dimmer (0 % to 100 %)
10	0 ... 255	Lamp 10, dimmer (0 % to 100 %)

8 Technical specifications



Light source	10 × GU10, 50 W each	
Light source properties	Colour temperature	2800 K
	Colour rendering index	CRI Ra 99
Control	DMX	
	Buttons and display on the unit	
Number of DMX channels	1, 2, 4, 5, 10	

Input connections	Power supply	Lockable input socket (Power Twist)
	DMX control	XLR chassis socket, 3-pin
Output connections	Power supply	Lockable output socket (Power Twist)
	DMX control	XLR chassis socket, 3-pin
Power consumption	max. 500 W	
Supply voltage	AC 230 V ~ 50 Hz	
Fuse	5 mm × 20 mm, 5 A, 250 V, fast-acting	
Degree of protection	IP20	
Mounting options	Hanging, standing	
Dimensions with bracket (W × H × D)	1085 mm × 130 mm × 150 mm	
Dimensions without bracket (W × H × D)	1000 mm × 80 mm × 140 mm	
Weight	5.6 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	50 %, non-condensing

Further information

Construction	Bar
Light source included	Yes
Light source	Reflector
Colour/colour temperature (K)	WW
DMX controllable	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!

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, the display is dark	Check the mains connection and the main fuse.
Apparently no function despite proper power supply	Check if the unit is in DMX mode or in 'slave' mode. If so, check the unit in another mode.
No response to the DMX controller	1. Check whether the DMX controller is switched on. Check the DMX connectors and cables for proper connection.
	2. 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.

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 collected for recycling. Please follow the notes and markings on the packaging.

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.

