STAIRVILLE

ShineBar 240

User Manual

LED Bar

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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 – hot surface.
	Warning – dangerous optical radiation.

Warning signs	Type of danger
	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!

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!

Risk of death from electrical current!

A short circuit can cause fires and loss of life. Always use properly insulated, tripe-core mains cable. Do not modify the mains cable. If the insulation is damaged, immediately switch off the power supply and have it repaired. If in doubt, contact a qualified electrician.

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.

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.

WARNING!

Danger of burns on the device surface!

The surface of the device becomes very hot during operation. Skin contact can result in burns. Never touch the device with your bare hands during operation. After switching off the device, wait for at least 15 minutes before touching it.

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 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 power consumption can exceed the maximum permitted power consumption, 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 permitted power consumption as stated on the device is not exceeded. Also refer to the specifications in the technical specifications for the device. Only use power cords with a cable cross-section designed for the required current intensity when connecting the devices in series.

NOTICE!

Possible staining due to plasticiser in rubber feet!

The plasticiser contained in the rubber feet of this product may react with the coating of the floor and cause permanent dark stains after some time. If necessary, use a suitable mat or felt slide to prevent direct contact between the device's rubber feet and the floor.

3 Features

The LED bar is particularly suitable for show stages, ambient illumination and architectural illumination.

- 12 × 6-in-1 RGBLAC LEDs (20 W each)
- also suited for fixed installation due to extensive control options
- Control via DMX (five modes) and buttons and display on the device
- 20 preprogrammed automatic shows
- Selectable dimmer curves
- Master / Slave mode
- Colour macros
- Separately controllable LEDs in 72-channel-DMX mode and 74-channel-DMX mode
- Selectable colour temperature for white light
- robust and weatherproof metal housing
- Sturdy bracket for secure attachment to trusses or firm footing on the ground
- splash-proof connectors
- Degree of protection IP65, suitable for temporary outdoor use
- Noiseless operation due to passive cooling
- Suitable connection cable for the output socket (Power Twist TR1 IP65) optionally available (e.g. item no. 292462)

Information about protection class IP65

Equipment with protection class IP65 are dust-tight and completely protected against contact (first code number). They are also protected against splash water from any angle (second code digit). That is why this equipment can also be used outdoors. Event technology equipment is generally only designed for temporary use however (event lighting) and not for permanent use outdoors.

The specified protection class does not make a statement about the weather resistance of the equipment (resistance to changing ambient conditions as well as against the effects of sun-light and UV rays).

The seals and screw connections of the equipment must be checked regularly to ensure a fault-free operation. In cases of doubt, consult a specialist workshop in due time.

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!

Risk of overheating due to bad ventilation!

If the device is badly ventilated, the device can overheat.

Do not operate the unit at ambient temperatures outside the specified temperature range (see chapter "Technical data" of the user manual).

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.

NOTICE!

Possible damage due to moisture penetrating into open connectors!

Moisture entering open connectors (plugs and couplings) of DMX and power supply cables can cause short circuits and damage to connected fixtures.

Always seal unused connectors with end caps intended for this purpose (*www.thomann.de*).

Mounting options

You can install the device on the wall, the ceiling or on the floor. When in use, the device must always be attached to a solid surface or an approved mount. Two mounting brackets and Omega brackets are included.

Always work from a stable platform whenever installing, moving or servicing the device. While you do this, the area underneath the device must be cordoned off.

The safety cable must be threaded through the openings in the bracket.

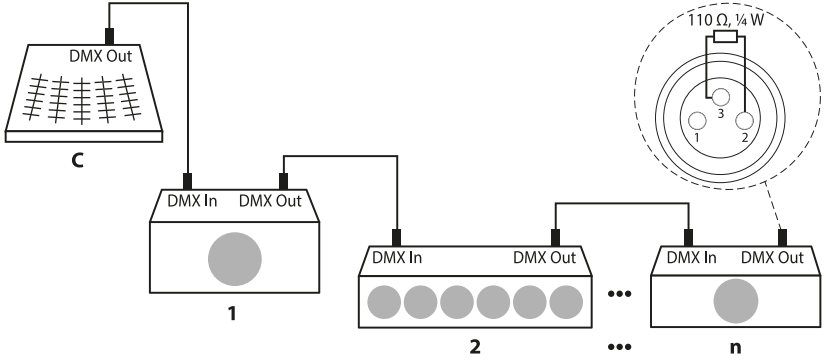
5 Starting up

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 series connection.

Such a chain may consist of up to 30 DMX devices. Make sure that the output of the last device in the chain is terminated by a resistor (110 Ω, ¼W).



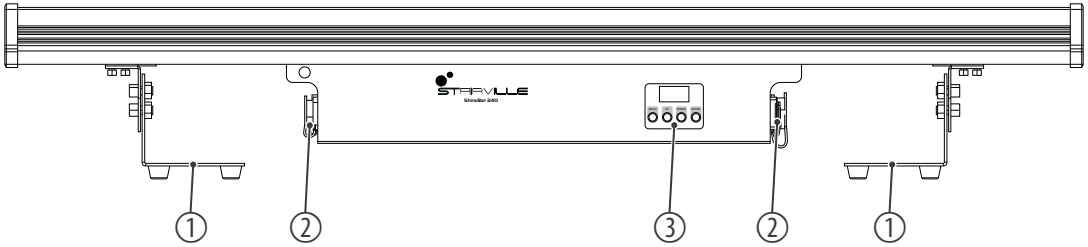
Connections in 'Master / Slave' mode

When you configure a group of devices in 'Master / Slave' mode, the first unit will control the others. This feature is especially useful to start a show without much programming. Connect the DMX output of the master unit to the DMX input of the first slave unit. Then connect the DMX output of the first slave unit to the DMX input of the second slave unit and so on.

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

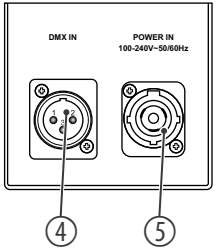
6 Connections and controls

Overview



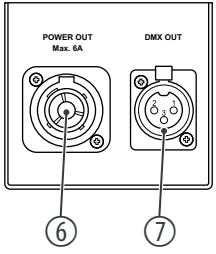
1	Mounting brackets with locking screws for locking in desired orientation
2	Input and output connections
3	Control panel with function keys and display
	[MENU] | activates the main menu and toggles between menu items. Closes an opened sub menu.
	[UP] | navigates upwards in a menu list. Increases the displayed value by one.
	[DOWN] | navigates downwards in a menu list. Decreases the displayed value by one.
	[ENTER] | selects an option of the respective operating mode. Confirms the set value.

Input connections



4	*[DMX IN]* | DMX input, designed as XLR panel plug, 3-pin
5	*[POWER IN]* | lockable input socket (Power Twist TR1 IP65) for power supply

Output connections



6	*[POWER OUT]* | lockable output socket (Power Twist TR1 IP65) for powering further devices
7	*[DMX OUT]* | DMX output, designed as XLR panel socket, 3-pin

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. The display shows the operating mode that was selected when the unit was last powered off.

7.2 Main menu

1. Press *[MENU]* to activate the main menu.
2. Press *[UP]* and *[DOWN]* to select a menu item.
3. Press *[ENTER]* to confirm the selection.
4. Use *[UP]* or *[DOWN]* to change the respectively displayed value.
5. When the display shows the desired value, confirm with *[ENTER]*.
6. To return to the previous menu level without changes, press *[MENU]*.

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.

All previously made settings are retained even when you disconnect the device from the power grid.

7.2.1 DMX address

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

1. Press *[MENU]* to activate the main menu.
2. Press *[UP]* or *[DOWN]* until the display shows *'DMX Addr'* and confirm with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to select a value between *'001'* and *'512'* to set the desired DMX address.

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

Mode	Highest possible DMX address
2-channel mode	511
6-channel mode	507
8-channel mode	505
10-channel mode	503
72-channel mode	441
74-channel mode	439

4. When the display shows the desired value, confirm with *[ENTER]*.

7.2.2 DMX mode

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

1. Press *[MENU]* to activate the main menu.
2. Press *[UP]* or *[DOWN]* until the display shows *'DMX CH'* and confirm with *[ENTER]*.
3. Press *[UP]* or *[DOWN]* to select the desired DMX mode.

Menu level 2	Function
'2CH'	2-channel mode
'6CH'	6-channel mode
'8CH'	8-channel mode
'10CH'	10-channel mode
'72CH'	72-channel mode
'74CH'	74-channel mode

4. When the display shows the desired value, confirm with *[ENTER]*.

7.2.3 Preprogrammed automatic show

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

1. Press *[MENU]* to activate the main menu.
2. Press *[UP]* or *[DOWN]* until the display shows *'Mode'* and confirm with *[ENTER]*.
3. Press *[UP]* or *[DOWN]* until the display shows *'Auto'* and confirm with *[ENTER]*.

   The following table shows the setting options.

Menu level 2	Menu level 3	Menu level 4	Function
'Auto'	*'Dimmer'*	*'000'* … *'255'*	Total brightness of the LEDs
	'Speed'	*'000'* … *'255'*	Running speed show
	'Prog'	*'00'* … *'20'*	Selecting a show

4. When the display shows the desired value, confirm with *[ENTER]*.

7.2.4 Colour macros

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

1. Press *[MENU]* to activate the main menu.

2. Press *[UP]* or *[DOWN]* until the display shows *'Mode'* and confirm with *[ENTER]*.

3. Press *[UP]* or *[DOWN]* until the display shows *'Macro'* and confirm with *[ENTER]*.

The following table shows the setting options.

Menu level 2	Menu level 3	Menu level 4	Function
'Macro'	*'Dimmer'*	*'000'* … *'255'*	Total brightness of the colour macros
	'Strobe'	*'000'* … *'255'*	Flash frequency of the strobe effect
	'Macro'	*'00'* … *'22'*	Selecting the colour macros

4. When the display shows the desired value, confirm with *[ENTER]*.

7.2.5 Static colours

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

1. Press *[MENU]* to activate the main menu.
2. Press *[UP]* or *[DOWN]* until the display shows *'Mode'* and confirm with *[ENTER]*.
3. Press *[UP]* or *[DOWN]* until the display shows *'Static'* and confirm with *[ENTER]*.

The following table shows the setting options.

Menu level 2	Menu level 3	Menu level 4	Function
'Static'	*'Dimmer'*	*'000'* … *'255'*	Total brightness of the LEDs
	'Strobe'	*'000'* … *'255'*	Flash frequency of the strobe effect
	'Static.r'	*'000'* … *'255'*	Red
	'Static.g'	*'000'* … *'255'*	Green
	'Static.b'	*'000'* … *'255'*	Blue
	'Static.l'	*'000'* … *'255'*	Lime
	'Static.a'	*'000'* … *'255'*	Amber
	'Static.c'	*'000'* … *'255'*	Cyan

4. When the display shows the desired value, confirm with *[ENTER]*.

7.2.6 Manual colour settings

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

1. Press *[MENU]* to activate the main menu.

2. Press *[UP]* or *[DOWN]* until the display shows *'Mode'* and confirm with *[ENTER]*.

3. Press *[UP]* or *[DOWN]* until the display shows *'User'* and confirm with *[ENTER]*.

The following table shows the setting options.

Menu level 2	Menu level 3	Menu level 4	Function
'User'	*'User'*	*'0'* … *'2'*	Memory location
	'User.r'	*'000'* … *'255'*	Red
	'User.g'	*'000'* … *'255'*	Green
	'User.b'	*'000'* … *'255'*	Blue
	'User.l'	*'000'* … *'255'*	Lime
	'User.a'	*'000'* … *'255'*	Amber
	'User.c'	*'000'* … *'255'*	Cyan

4. When the display shows the desired value, confirm with *[ENTER]*.

7.2.7 White light settings

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

1. Press *[MENU]* to activate the main menu.
2. Press *[UP]* or *[DOWN]* until the display shows *'Mode'* and confirm with *[ENTER]*.
3. Press *[UP]* or *[DOWN]* until the display shows *'Tunable White'* and confirm with *[ENTER]*.

   The following table shows the setting options.

Menu level 2	Menu level 3	Menu level 4	Function
'Tunable White'	*'Dimmer'*	*'000'* … *'255'*	Total brightness of the LEDs
	'Strobe'	*'000'* … *'255'*	Flash frequency of the strobe effect
	'CTC'	*'2700K'* … *'7500K'*	Colour temperature

4. When the display shows the desired value, confirm with *[ENTER]*.

7.3 System settings

1. Press *[MENU]* to activate the main menu.
2. Press *[UP]* or *[DOWN]* until the display shows *'Setting'* and confirm with *[ENTER]*.

The following table shows the setting options.

Menu level 2	Menu level 3	Function
'Display'	Automatic display shutdown when not in use	
	'ON'	The display illumination is permanently on.
	'OFF'	The display illumination is switched off after 60 seconds.
'Invert'	Display inversion	
	'ON'	Display reversal is activated. The display of the device is rotated by 180 °.
	'OFF'	The display reversal is deactivated. The display of the device is in the standard orientation.
'Lock'	Key lock	
	'On'	The key lock is activated.
	'Off'	Key lock deactivated
'Dmx.Err'	Device behaviour on DMX signal failure	

Menu level 2	Menu level 3	Function
	'Blackout'	Blackout
	'Hold'	Retaining last settings
	'Emergency'	Emergency light
'Temp'	Temperature unit	
	'C'	The device shows the temperature in Celsius.
	'F'	The device shows the temperature in Fahrenheit.
'Dimmer Curve'	Dimmer curve	
	'Linear'	Linear course
	'Exponential'	Exponential course
	'Logarithmic'	Logarithmic course
	'S Curve'	S-curve shaped course

3. When the display shows the desired value, confirm with *[ENTER]*.

7.4 System information

1. Press *[MENU]* to activate the main menu.
2. Press *[UP]* or *[DOWN]* until the display shows *'Info'* and confirm with *[ENTER]*.

   The following table shows the setting options.

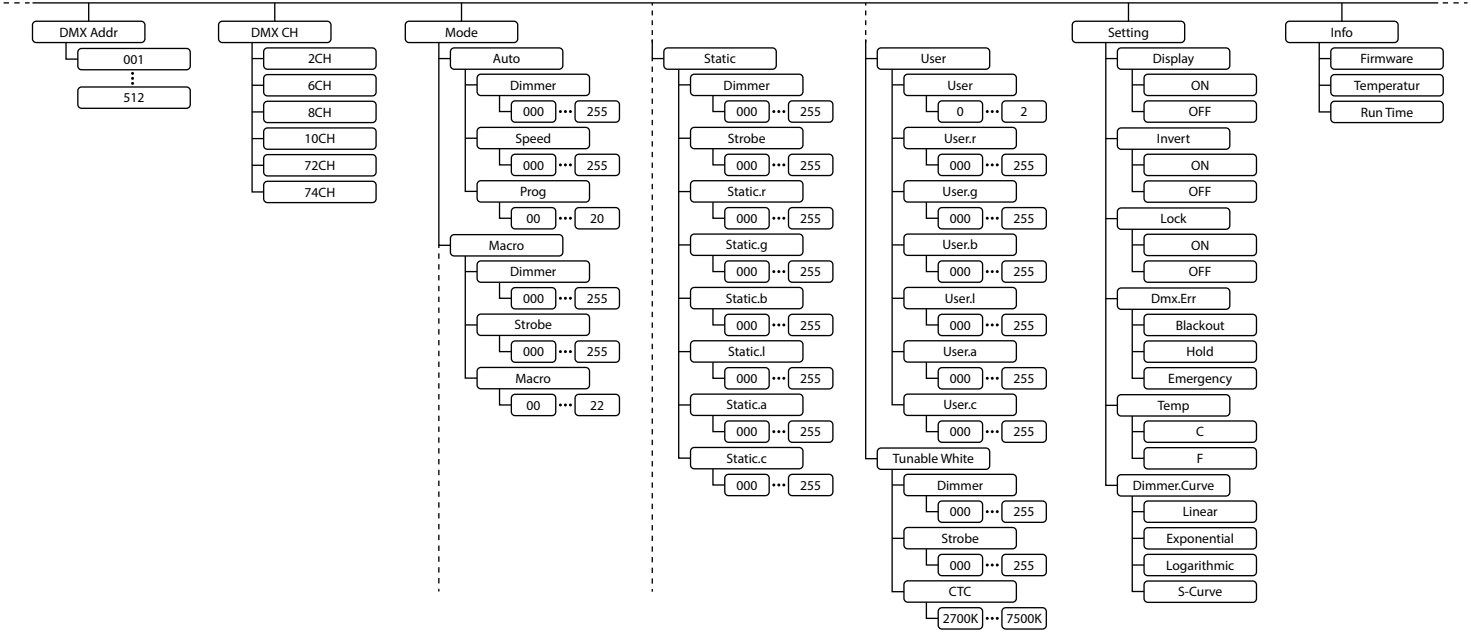
Menu level 2	Function
'Firmware'	Displays the current firmware version.
'Temperature'	Displays the current temperature of the device.
'Run Time'	Displays the total running time of the device.

3. When the display shows the desired value, confirm with *[ENTER]*.

7.5 Reset to factory defaults

1. Press *[MENU]* to activate the main menu.
2. Press *[UP]* or *[DOWN]* until the display shows *'Info'* and confirm with *[ENTER]*.
3. Press *[UP]* or *[DOWN]* until the display shows *'Firmware'* and confirm with *[ENTER]*.
   ⇨ The display shows the current firmware version.
4. Press *[ENTER]*.
   ⇨ The display shows *'Factory Reset'*.
5. Use *[UP]* or *[DOWN]* to select between *'YES'* (reset device to factory defaults) and *'NO'* (cancel reset) and confirm with *[ENTER]*.
6. To return to the previous menu level without changes, press *[MENU]*.

7.6 Menu overview



7.7 Functions in 2-channel DMX mode

Channel	Value	Function
1	0…255	Master dimmer (0 % to 100 %)
2	Colour temperature white light	
	0…4	LEDs off
	5…19	2700 K
	20…39	2900 K
	40…59	3100 K
	60…79	3400 K
	80…99	3700 K
	100…119	4000 K
	120…139	4400 K
	140…159	4800 K
	160…179	5400 K
	180…199	5800 K
	200…219	6400 K

Channel	Value	Function
	220…239	7000 K
	240…255	7500 K

7.8 Functions in 6-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 Lime (0 % to 100 %)
5	0…255	Intensity Amber (0 % to 100 %)
6	0…255	Intensity Cyan (0 % to 100 %)

7.9 Functions in 8-channel DMX mode

Channel	Value	Function
1	0…255	Master dimmer (0 % to 100 %)
2	0…255	Strobe effect (0 % to 100 %)
3	0…255	Intensity Red (0 % to 100 %)
4	0…255	Intensity Green (0 % to 100 %)
5	0…255	Intensity Blue (0 % to 100 %)
6	0…255	Intensity Lime (0 % to 100 %)
7	0…255	Intensity Amber (0 % to 100 %)
8	0…255	Intensity Cyan (0 % to 100 %)

7.10 Functions in 10-channel DMX mode

Channel	Value	Function
1	0…255	Master dimmer (0 % to 100 %)
2	0…255	Strobe effect (0 % to 100 %)
3	0…25	RGBLAC dimmer (0 % to 100 %)
	26…35	Preprogrammed automatic show 1
	36…45	Preprogrammed automatic show 2
	46…55	Preprogrammed automatic show 3
		⋮
	236…245	Preprogrammed automatic show 21
	246…255	Colour macro
4	Running speed of automatic show (when channel 3 = 0… 245)	
	0…255	Running speed increasing
	Running speed (when channel 3 = 246…255)	
	0…21	LEDs off
	22…32	Colour macro 1

Channel	Value	Function
	33…43	Colour macro 2
	44…54	Colour macro 3
	55…65	Colour macro 4
	66…76	Colour macro 5
	77…87	Colour macro 6
	88…98	Colour macro 7
	99…109	Colour macro 8
	11…120	Colour macro 9
	121…131	Colour macro 10
	132…142	Colour macro 11
	143…153	Colour macro 12
	154…164	Colour macro 13
	165…175	Colour macro 14
	176…186	Colour macro 15
	187…197	Colour macro 16
	198…208	Colour macro 17

Channel	Value	Function
	209…219	Colour macro 18
	220…230	Colour macro 19
	231…241	Colour macro 20
	242…252	Colour macro 21
	253…255	Colour macro 22
5	0…255	Intensity Red (0 % to 100 %)
6	0…255	Intensity Green (0 % to 100 %)
7	0…255	Intensity Blue (0 % to 100 %)
8	0…255	Intensity Lime (0 % to 100 %)
9	0…255	Intensity Amber (0 % to 100 %)
10	0…255	Intensity Cyan (0 % to 100 %)

7.11 Functions in 72-channel DMX mode

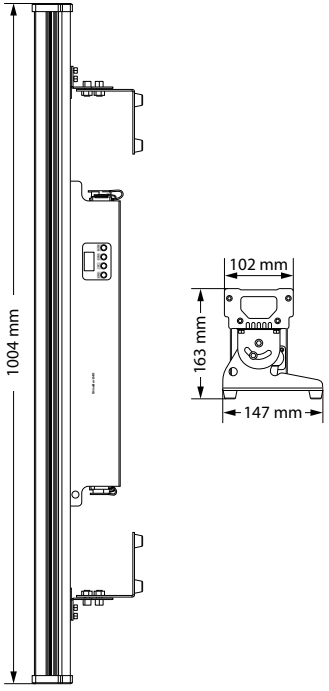
Channel	Value	Function
1	0…255	Intensity Red (0 % to 100 %), LED 1
2	0…255	Intensity Green (0 % to 100 %), LED 1
3	0…255	Intensity Blue (0 % to 100 %), LED 1
4	0…255	Intensity White (0 % to 100 %), LED 1
5	0…255	Intensity Amber (0 % to 100 %), LED 1
6	0…255	Intensity Cyan (0 % to 100 %), LED 1
		⋮
67	0…255	Intensity Red (0 % to 100 %), LED 12
68	0…255	Intensity Green (0 % to 100 %), LED 12
69	0…255	Intensity Blue (0 % to 100 %), LED 12
70	0…255	Intensity White (0 % to 100 %), LED 12
71	0…255	Intensity Amber (0 % to 100 %), LED 12
72	0…255	Intensity Cyan (0 % to 100 %), LED 12

7.12 Functions in 74-channel DMX mode

Channel	Value	Function
1	0…255	Master dimmer (0 % to 100 %)
2	0…255	Strobe effect (0 % to 100 %)
3	0…255	Intensity Red (0 % to 100 %), LED 1
4	0…255	Intensity Green (0 % to 100 %), LED 1
5	0…255	Intensity Blue (0 % to 100 %), LED 1
6	0…255	Intensity Lemon (0 % to 100 %), LED 1
7	0…255	Intensity Amber (0 % to 100 %), LED 1
8	0…255	Intensity Cyan (0 % to 100 %), LED 1
		⋮
69	0…255	Intensity Red (0 % to 100 %), LED 12
70	0…255	Intensity Green (0 % to 100 %), LED 12
71	0…255	Intensity Blue (0 % to 100 %), LED 12
72	0…255	Intensity Lemon (0 % to 100 %), LED 12

Channel	Value	Function
73	0…255	Intensity Amber (0 % to 100 %), LED 12
74	0…255	Intensity Cyan (0 % to 100 %), LED 12

8 Technical specifications



Light source	12 × 6-in-1 RGBLAC LEDs (20 W each)	
Light source properties	Colour temperature	2700 - 7500 K
Optical properties	Beam angle	25 °
Control	DMX, buttons and display on the unit	
Number of DMX channels	2, 6, 8, 10, 72 or 74	
Input connections	Power supply	Lockable input socket (Power Twist TR1 IP65)
	DMX control	XLR chassis plug, 3-pin
Output connections	Power supply of further devices	Lockable output socket (Power Twist TR1 IP65)
	DMX control	XLR chassis socket, 3-pin
Power consumption	180 W	
Supply voltage	100 - 240 V ~ 50/60 Hz	
Degree of protection	IP65	
Mounting options	In hanging position, in standing position, wall mounting	
Dimensions (W × H × D)	1004 mm × 163 mm × 147 mm	

Weight	9.5 kg	
Ambient conditions	Temperature range	–0 °C…40 °C
	Relative humidity	20 %…80 % (non-condensing)

Further information

Suitable for outdoor use	yes
fanless	yes
Remote control	Not possible
Wireless DMX	no
Housing colour	black
Separately controllable LEDs	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 does not work, no light	Check the mains connection and the fuse.
No response to the DMX controller	1. If the display flashes, e.g. *'d001'*, no valid 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. Replace the DMX cable.
	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.