



BEL1 IP

LED Spotlight

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

05.09.2023, ID: 550522

Table of contents

1	General information.....	6
1.1	Symbols and signal words.....	6
2	Safety instructions.....	9
3	Features.....	12
4	Installation.....	14
5	Starting up.....	18
6	Connections and controls.....	19
7	Operating.....	23
7.1	Starting the device.....	23
7.2	Main menu.....	24
7.2.1	DMX address.....	25
7.2.2	DMX mode.....	26
7.2.3	Preprogrammed automatic show.....	27
7.2.4	Sound control.....	28
7.2.5	Colour macros.....	29
7.2.6	Manual colour settings.....	31
7.2.7	Using Wireless DMX (W-DMX).....	33
7.3	System settings.....	34
7.4	System information.....	37

7.5	Menu overview.....	38
7.6	Functions in 3-channel DMX mode.....	40
7.7	Functions in 4-channel DMX mode.....	40
7.8	Functions in 5-channel DMX mode.....	41
7.9	Functions in 6-channel DMX mode.....	41
7.10	Functions in 8-channel DMX mode.....	42
8	Technical specifications.....	44
9	Troubleshooting.....	47
10	Cleaning.....	48
11	Protecting the environment.....	49






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 – dangers due to batteries.
	Warning – high-voltage.
	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!****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.

**WARNING!****Incorrect handling of lithium batteries can result in injury!**

In the event of a short circuit, overheating or mechanical damage, lithium batteries can cause severe injuries. Handle lithium batteries in a correct and professional manner. Store lithium batteries in a cool and dry place in their original packaging. Keep lithium batteries away from sources of heat. Never open lithium batteries. Only charge rechargeable lithium batteries with a suitable charger. Remove the lithium batteries before disposing of the device. Cover the poles of used lithium batteries with adhesive tape to prevent short circuits. Electrolyte can escape from damaged lithium batteries. Put the damaged lithium battery in air-tight packaging. Collect the electrolyte with absorbent paper. Wear rubber gloves while doing so.

**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 over-heat 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 if the device will not be used for a longer period.

**NOTICE!****Possible damage to lithium-ion batteries through incorrect storage!**

Deep discharge can permanently damage lithium-ion batteries or cause them to lose some of their capacity. Charge the lithium-ion batteries before longer breaks in use and before storage. Ensure that the device is switched off for storage. Store the device at room temperature or cooler in an environment as dry as possible. Recharge the lithium-ion batteries about every three months if they are stored for a longer period of time to avoid permanent damage due to too deep self-discharge. Fully charge the lithium-ion batteries only shortly before use at room temperature.

3 Features

- Six-colour LED (RGBLAC, each 20 W)
- Battery operated LED spotlight for outdoor use
- Operable in stand-alone mode or in wireless DMX mode
- Control via wireless DMX (compatible with Wireless Solution G5), via supplied infrared remote control and via buttons and display on the unit
- Numerous pre-programmed mixed colours and effects programmes
- Sound control
- Selectable dimmer curves
- Various mounting options
- Degree of protection IP65
- Sturdy black metal housing with detachable mounting bracket

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.

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 sunlight 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.

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.

Notes on radio transmission

- This equipment uses a frequency range that is free of charge and registration within the European Union.
For more information, please visit: <http://www.thomann.de>.
- Make sure that no metal objects are located between transmitter and receiver.
- Avoid interference by other radio and in-ear systems.

Mounting options

You can install the device hanging, standing, or on a tripod. When in use, the device must always be attached to a solid surface or an approved truss.

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

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

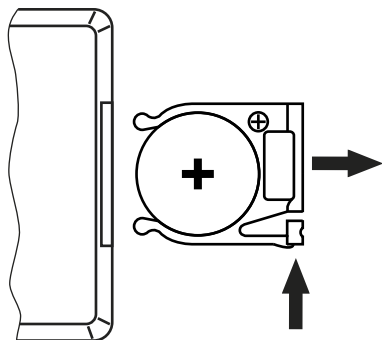


Please note that this device must not be connected to a dimmer.

Infrared sensor for the remote control

The infrared sensor for the remote control signals is located on the front panel of the device. Make sure it is not obstructed.

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!

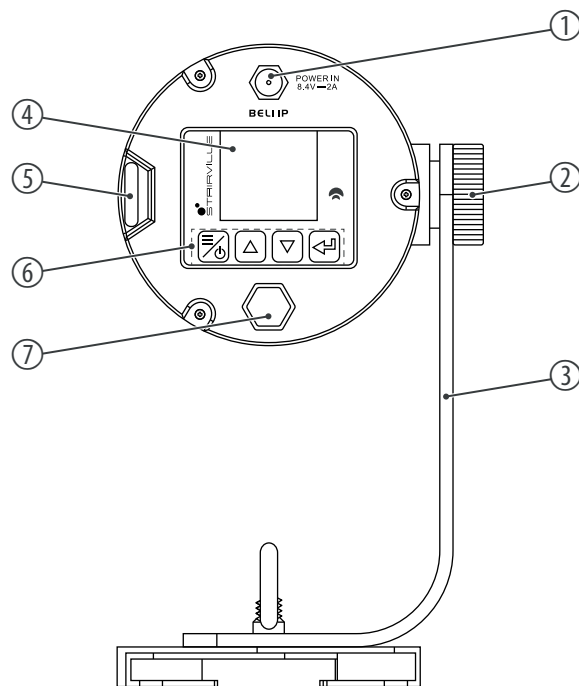
Batteries can leak and cause permanent damage to the device.




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

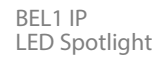
5 Starting up

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.

6 Connections and controls




1	Input socket for the supplied power adapter
2	Locking screw for the mounting bracket
3	Mounting bracket
4	Display
5	Safety cable eyelet
6	Touch-sensitive buttons
	 activates the main menu. Closes an opened sub menu.
	Press and hold the button to switch the device on or off.
	 toggles between the menu items, increases or decreases the displayed value by one.
	 selects an option of the respective operating mode, confirms the set value.
7	Pressure compensation valve (prevents condensation inside the device)











1	[BLACK OUT] enables or disables blackout.
2	[AUTO] activates the 'Automatic' mode.
3	[SOUND] activates the 'Sound-control' mode.
4	[STROBE] enables or disables the strobe effect with the last selected colour.
5	[SPEED] activates the setting mode for the programme speed. Adjust the speed using [+] and [-].
6	[SENSITIVITY] enables the setting mode for the sensitivity of the sound control. Adjust the sensitivity using [+] and [-].
7	[%] resets the displayed value to zero when adjusting values (programme speed, sensitivity of the sound control).
8	[MANUAL] activates the display of a constant colour, that can either be mixed individually with [R], [G] and [B] from the basic colours, or selected directly with one of the coloured buttons.
9	[FADE] selects between the two automatic options by pressing repeatedly.
10	[R] / [G] / [B] sets the intensity of the three primary colours red, green and blue when a constant colour is displayed.
11	[L] / [A] / [C] sets the intensity of the colours lime, amber and cyan when a constant colour is displayed.
12	[+] / [-] increases or decreases the set value.
13	Buttons for directly selecting a mixed colour.

7 Operating

7.1 Starting the device

1. ➤ Connect the device to the power grid.
2. ➤ Press and hold  to turn the device on.
3. ➤ 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  to activate the main menu.
2. ➤ Press  or  to select a menu item.
3. ➤ Press  to confirm the selection.
4. ➤ Use  or  to change the respectively displayed value.
5. ➤ When the display shows the desired value, confirm with .
6. ➤ To exit a menu item without making changes, press .

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  to activate the main menu.
2. ➤ Press  or  until the display shows 'DMX Address' and confirm with .
3. ➤ 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
3-channel mode	510
4-channel mode	509
5-channel mode	508
6-channel mode	507
8-channel mode	505


4. ➤ When the display shows the desired value, confirm with .

7.2.2 DMX mode

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








1. ➤ Press  to activate the main menu.
2. ➤ Press  or  until the display shows 'Mode' and confirm with .
3. ➤ Press  or  to select the desired DMX mode.

Menu level 3	Function
'3CH'	3-channel mode
'4CH'	4-channel mode
'5CH'	5-channel mode
'6CH'	6-channel mode
'8CH'	8-channel mode

4. ➤ When the display shows the desired value, confirm with .


7.2.3 Preprogrammed automatic show

Automatic mode is only relevant if the device is not controlled via a DMX controller.

1. ➤ Press  to activate the main menu.
2. ➤ Press  or  until the display shows 'Mode' and confirm with .
3. ➤ Press  or  until the display shows 'Auto' and confirm with .

The following table shows the setting options.

Menu level 2	Menu level 3	Menu level 4	Function
'Auto'	'Prog'	'00' ... '99'	Programme running speed
	'Step'	'00' ... '99'	Colour change speed
	'Fade'	'00' ... '99'	Fade effect speed

4. ➤ When the display shows the desired value, confirm with .

7.2.4 Sound control

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

- 1. Press to activate the main menu.
- 2. Press or until the display shows 'Mode' and confirm with .
- 3. Press or until the display shows 'Sound' and confirm with .








The following table shows the setting options.

Menu level 2	Menu level 3	Menu level 4	Function
'Sound'	'Step'	'00' ... '99'	Sensitivity of the built-in microphone for colour change
	'Fade'	'00' ... '99'	Sensitivity of the built-in microphone for fade effect

- 4. When the display shows the desired value, confirm with .
- ⇒ The device follows the rhythm of the background music or sounds detected by the built-in microphone.

7.2.5 Colour macros










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

1. ➤ Press  to activate the main menu.
2. ➤ Press  or  until the display shows 'Mode' and confirm with .
3. ➤ Press  or  until the display shows 'Macro' and confirm with .

The following table shows the setting options.








Menu level 2	Menu level 3	Function
'Macro'	'Red'	Red
	'Green'	Green
	'Blue'	Blue
	'Cyan'	Cyan
	'Lime'	Lime
	'Amber'	Amber
	'Lime G'	Lime Green
	'Yellow'	Yellow
	'Orange'	Orange

Menu level 2	Menu level 3	Function
	'Pale G'	Pale Green
	'Pale B'	Pale Blue
	'Rose'	Pink
	'Pink'	Pink
	'Golden A'	Golden Amber
	'Light B'	Light Blue
	'2800 K'	Colour temperature 2800 K
	'3000 K'	Colour temperature 3000 K
	'4000 K'	Colour temperature 4000 K
	'5600 K'	Colour temperature 5600 K

4. ➤ When the display shows the desired value, confirm with .
5. ➤ Press  or  until the display shows 'Dimmer' and confirm with .
6. ➤ Select a value between '00' and '99' for the brightness of the selected colour macro and confirm with .
7. ➤ Press  or  until the display shows 'Strobe' and confirm with .
8. ➤ Select a value between '00' and '99' for the strobe speed of the selected colour macro and confirm with .

7.2.6 Manual colour settings


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

1. ➤ Press  to activate the main menu.
2. ➤ Press  or  until the display shows 'Mode' and confirm with .
3. ➤ Press  or  until the display shows 'CustomColor' and confirm with .





The following table shows the setting options.

Menu level 2	Menu level 3	Menu level 4	Menu level 5	Function
'CustomColor'	'A' ... 'D'	'Dimmer'	'000' ... '255'	Setting the overall brightness
		'Strobe'	'000' ... '255'	Stroboscope effect with adjustable speed
		'Red'	'000' ... '255'	Intensity red (0 % to 100 %)
		'Green'	'000' ... '255'	Intensity green (0 % to 100 %)
		'Blue'	'000' ... '255'	Intensity blue (0 % to 100 %)

Menu level 2	Menu level 3	Menu level 4	Menu level 5	Function
		'Cyan'	'000' ... '255'	Intensity cyan (0 % to 100 %)
		'Lime'	'000' ... '255'	Intensity lime (0 % to 100 %)
		'Amber'	'000' ... '255'	Intensity amber (0 % to 100 %)


- 4.** ➤ When the display shows the desired value, confirm with .

7.2.7 Using Wireless DMX (W-DMX)





1. ➤ Press  to activate the main menu.
2. ➤ Press  or  until the display shows 'Wireless Settings' and confirm with .

The following table shows the setting options.

Menu level 2	Menu level 3	Function
'W-DMX on/off'		Enables/disables the wireless control via W-DMX
'Operating Mode'	'Receive'	The device operates as Receiver.
	'Transmit'	The device operates as Transmitter.
'Link'		The device searches for available devices, the connection is established.
'Receive Reset'		The device deletes all previously paired devices, the connection is closed.

3. ➤ When the display shows the desired value, confirm with .

7.3 System settings


- 1. ➤ Press  to activate the main menu.
- 2. ➤ Press  or  until the display shows 'System Settings' and confirm with .

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
'Display Reverse'	Display inversion	
	'On'	On, display is rotated by 180°
	'Off'	Off, normal display
'Key Lock'	Key lock	
	'On'	Key lock activated
	'Off'	Key lock deactivated
'Ir Remote'	Enables or disables the remote control	
	'On'	Remote control enabled

Menu level 2	Menu level 3	Function
	'Off'	Remote control disabled
'Limiter'	Lowering the maximum brightness to extend battery life	
	'On'	Lowering activated
	'Off'	Lowering deactivated
'Emergency'	Emergency light. Light stays dimmed on, even when the battery is almost exhausted.	
	'No'	Emergency light activated
	'Yes'	Emergency light deactivated
'DMX Fail'	Device behaviour on DMX signal failure	
	'Blackout'	Blackout
	'Hold'	Retaining last settings
'Frequency'	Flash frequency of the strobe effect	
	'600Hz'	Flash frequency 600 Hz
	'1200Hz'	Flash frequency 1200 Hz
	'2000Hz'	Flash frequency 2000 Hz
	'2400Hz'	Flash frequency 2400 Hz

Menu level 2	Menu level 3	Function
	'6000Hz'	Flash frequency 6000 Hz
	'18000Hz'	Flash frequency 18000 Hz
	'25000Hz'	Flash frequency 25000 Hz
'Dim Response'	Dimmer response	
	'Fast'	Fast change of light intensity
	'Standard'	Normal change of light intensity
	'Halogen'	The imitation of the dimming behaviour for halogen light is activated.
'Dimmer Curve'	Dimmer curve	
	'Linear'	Linear course
	'Exp'	Exponential course
	'Log'	Logarithmic course
	'S Curve'	S-curve shaped course
'WIFI Reload'		The device deletes all previously paired devices, the connection is closed.
'Reset Reload'		The device is reset to factory defaults.


3. ➤ When the display shows the desired value, confirm with .

7.4 System information

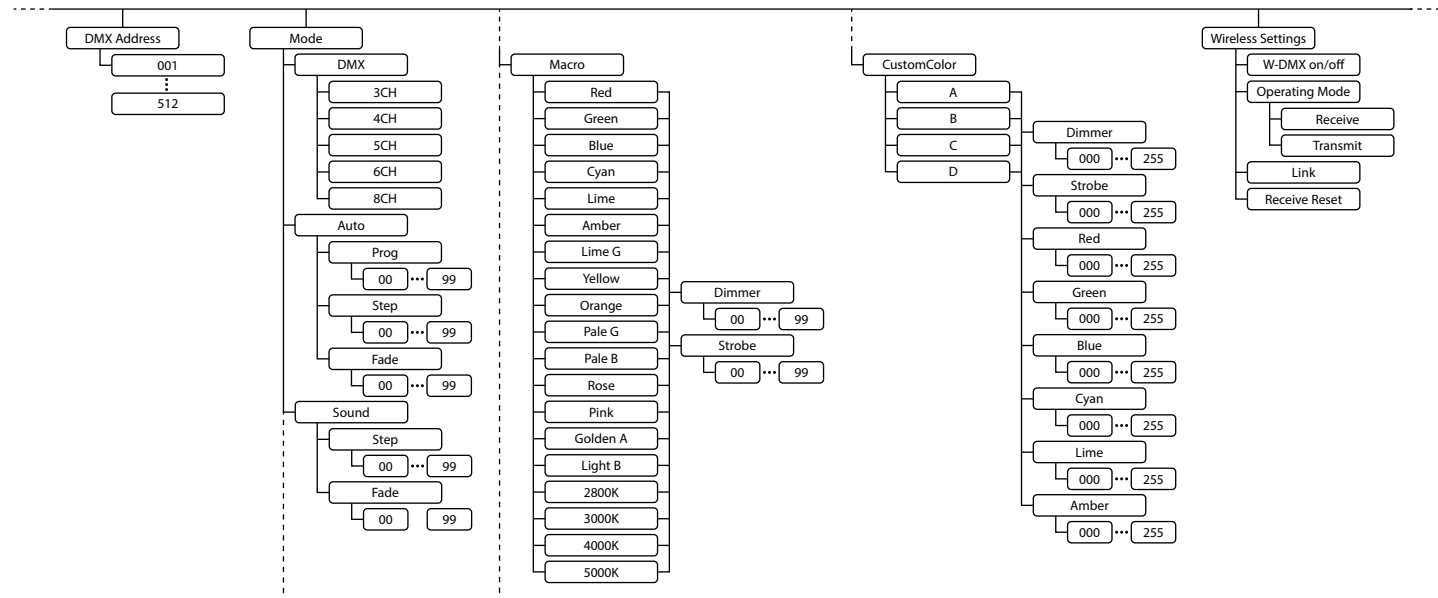
1. ➤ Press  to activate the main menu.
2. ➤ Press  or  until the display shows 'System Info' and confirm with .

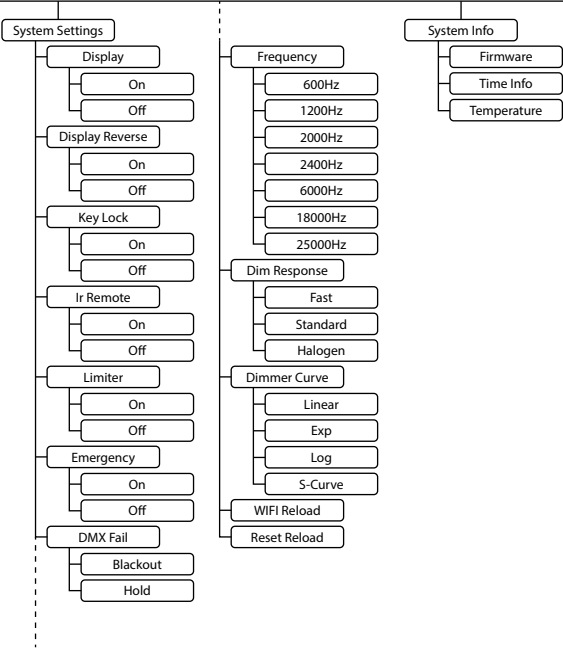
The following table shows the setting options.

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

3. ➤ When the display shows the desired value, confirm with .

7.5 Menu overview





7.6 Functions in 3-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 %)

7.7 Functions in 4-channel DMX mode

Channel	Value	Function
1	0...255	Intensity red (0 % to 100 %)
2	0...255	Intensity green (0 % to 100 %)
3	0...255	Intensity blue (0 % to 100 %)
4	0...255	Intensity lime (0 % to 100 %)

7.8 Functions in 5-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 %)

7.9 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 %)

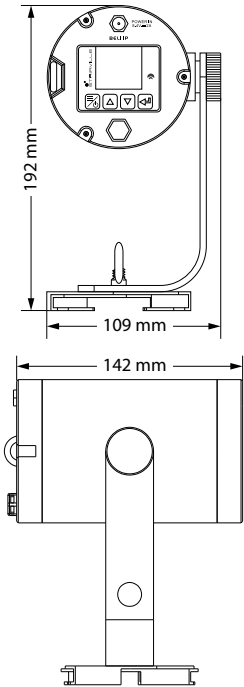
Channel	Value	Function
5	0...255	Intensity amber (0 % to 100 %)
6	0...255	Intensity cyan (0 % to 100 %)


7.10 Functions in 8-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	Automatic show (when channel 5...4 = 0... 255)	
	0...10	Without function
	11...255	Preprogrammed automatic show with colour change
6	Running speed of automatic show (when channel 5 = 11... 255)	
	0...255	Running speed increasing

Channel	Value	Function
7	RGBL strobe	
	0...15	Without function
	16...255	Strobe effect (red, green, blue, lime), increasing speed
8	Automatic sound controlled show	
	0...15	Without function
	16...255	Automatic sound controlled show with colour change

8 Technical specifications



Light source		1 × 6in1 LED (RGBLAC, 20 W)
Optical properties	Beam angle	65°
Control		Infrared remote control
		Buttons and display on the unit
		Wireless DMX
Number of DMX channels		3, 4, 5, 6 or 8
Input connections	Power supply	Input socket for connecting the power adapter
Power consumption		20 W
Supply voltage		External power adapter, 100 - 240 V ~ 50/60 Hz
Operating voltage		8.4 V  / min. 1 A
Battery	Battery type	Lithium-ion, chargeable
	Voltage	7.4 V
	Capacity	3.5 Ah

	Charging time in the device	approx. 7 h
	Battery life	approx. 20 h with one colour approx. 7 h with colour change
Degree of protection		IP65
Mounting options		hanging, standing, tripod-mounted
Dimensions (W × H × D), when light beam pointing horizontally		109 mm × 192 mm × 142 mm
Weight		1.2 kg
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20 %...80 % (non-condensing)

Further information

Number of LEDs	1
Colour mixture	RGBLAC
LED type	x-in-1
Type	Floor Spot
Design	round
Floor housing	yes
fanless	yes
Remote control	included
Wireless DMX	yes
Housing colour	black

9 Troubleshooting

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.
Wireless control via W-DMX does not work / no connection can be established	1. Check the DMX address settings. 2. Disable the W-DMX function on the device and reconnect it.
The built-in battery can no longer be charged	Do not attempt to replace the built-in battery yourself. Please contact our service centre.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at www.thomann.de.

10 **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.

11 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.

