ignition

2bright Par 18 IP

User manual

LED spotlight

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06.08.2020, ID: 481058

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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*.

1.1 Further information

On our website (*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'*.

Instructions

The individual steps of an instruction are numbered consecutively. The result of a step is indented and highlighted by an arrow.

Example:

1. Switch on the device.

2. Press *[Auto]*.

⇨ Automatic operation is started.

3. Switch off the device.

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
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 signs	Type of danger
	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 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 life of the device by regular breaks in operation and avoid switching it on and off frequently. This device is not suitable for continuous use.

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 short-circuit

Always use proper ready-made insulated mains cabling (power cord). Do not modify the mains cable. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.

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.

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.

WARNING!

Risk of burns

The surface of the device can become very hot during operation.

Do not touch the device with bare hands during operation, and after switching off wait for at least 15 minutes.

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!

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.

3 Features

The fanless spotlight is suitable for demanding outdoor use as well as for TV and theatre.

Special features of the device:

- 18 × 6in1 RGBWA UV LED (each 12 watt)
- Control via DMX and via buttons and display on the unit
- Built-in programmes and colour macros
- Four selectable dimmer curves
- Flicker-free PWM dimming (3000 Hz)
- 8 storable user colours
- Master / Slave operation
- Protection class IP65

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.

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

Always ensure sufficient ventilation.

The ambient temperature must not exceed the limits stated in the chapter Technical Specifications of the User Manual.

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.

NOTICE!

Possible damage due to moisture

Moisture entering into open connectors (plugs and couplers) of DMX or power cords can cause short circuits.

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

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 bracket provided for mounting.

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.

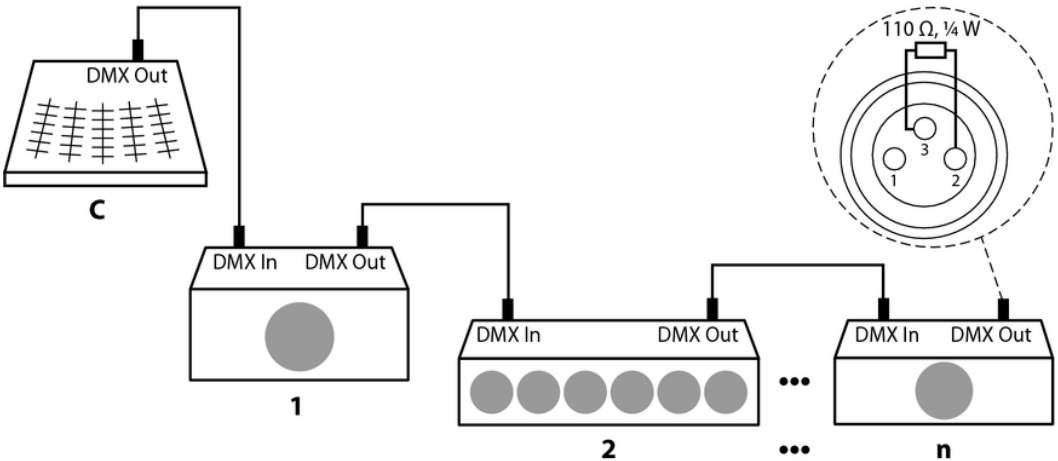
Please note that this device must not be connected to a dimmer.

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

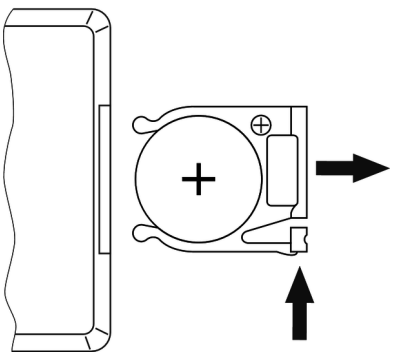
Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor (110 Ω, ¼ 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.

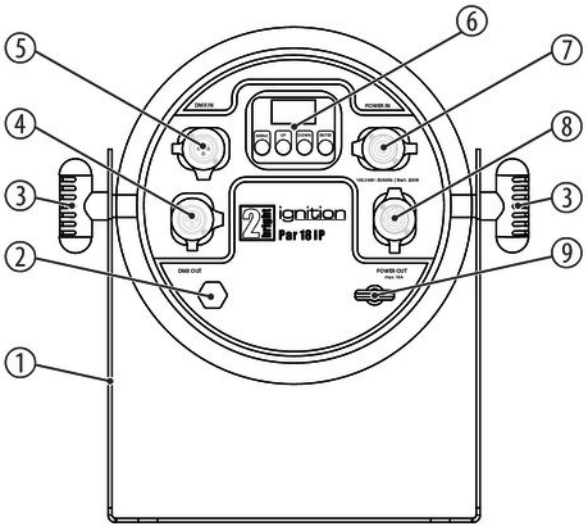
Inserting the battery into the remote control



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.

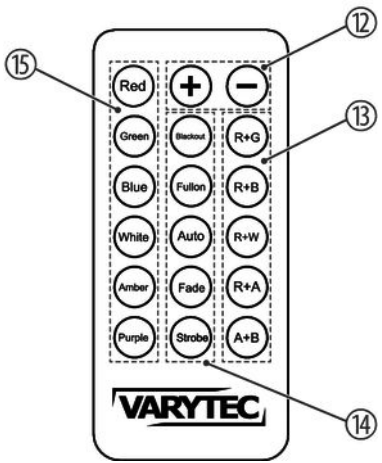
6 Connections and controls



1	Bracket for floor placement or hanging
2	Pressure compensation element
3	Locking screws for the brackets.
4	*[DMX OUT]* DMX output, designed as 3-pin XLR panel socket (IP65)
5	*[DMX IN]* DMX input, designed as 3-pin XLR panel plug (IP65)
6	Display and keypad
	[MENU] Activates the main menu, toggles between the menu levels or closes a submenu.
	[DOWN] Decreases the displayed value by one.
	[UP] Increases the displayed value by one.

	[ENTER] Opens a submenu or confirms a value.
7	*[POWER IN]* Power cord with Power Twist TR1 cable connector for the power supply of the device
8	*[POWER OUT]* Power cord with Power Twist TR1 cable connector for powering further devices
9	Safety cable eyelet.

Remote control



12	*[+], [–]* Changes the auto or fade programmes, increases or decreases the strobe speed
13	Selection of a mixed colour

14	Function selection *[Blackout]* Button to turn the blackout on or off *[Strobe]* Turns the Strobe effect (flash) on or off *[Fullon]* Turns all colours to full brightness *[Auto]* Starts a preprogrammed automatic show *[Fade]* Turns the Fade effect (colour transition) on or off
15	Buttons to select a single basic colour

The IR remote control only works if the receiver on the device is activated via the menu.

7 Operating

7.1 Starting the device

Connect the device to the power supply to start operation. The LED lights. The device is immediately operational.

7.2 Operating on the unit

Navigating in the menu

1. Press *[ENTER]* to activate the main menu.
2. Press again *[UP]* or *[DOWN]* to call up further menu items.
3. To activate the respectively shown menu item, press *[ENTER]*.
4. Press *[UP]* or *[DOWN]* to change the respectively indicated value.
5. Press *[ENTER]* to apply the displayed value.
6. To exit a menu item without making changes, press *[MENU]*.

All set values are retained even when you switch the device off and disconnect it from the mains.

Setting the DMX address

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'DMX Address'*. Confirm with *[ENTER]*.
2. Use *[UP]* or *[DOWN]* to select the desired DMX address between *'001'* and *'512'*.
3. Press *[ENTER]* to accept the selection.

This setting is only relevant when the device is controlled via DMX. 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	Display	Highest possible DMX address
2-channel	*'2CH'*	511
3-channel	*'3CH'*	510
6-channel	*'6CH'*	507

Mode	Display	Highest possible DMX address
9-channel	*'9CH'*	504
11-channel	*'11CH'*	502

Setting the DMX mode

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'DMX Channel'*. Confirm with *[ENTER]*.
2. Use *[UP]* or *[DOWN]* to select the desired DMX mode (2, 3, 6, 9, or 11 channels). Depending on the selected mode, the display shows *'2CH'*, *'3CH'*, *'6CH'*, *'9CH'* or *'11CH'*.
3. Press *[ENTER]* to accept the selection.

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

Selecting and configuring automatic programmes

In this operating mode you select one of the automatic programmes and configure the speed and the dimmer intensity of the automatic programme.

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Stand Alone'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'Auto'*. Confirm the selection with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to select the desired automatic programme (display shows *'Program 1'* … *'Program 16'*). Confirm with *[ENTER]*.
4. Press *[UP]* or *[DOWN]* to select the desired submenu or the desired value.

   The following sub menus are available:

Menu level 4	Menu level 5	Description
'Dimmer'	*'000…255'*	Dimmer intensity
'Speed'	*'000…255'*	Running speed from slow to fast

5. Press *[ENTER]* to accept the selection.

Enabling sound-control

In this mode, the unit follows the rhythm of the background music or sounds detected by the built-in microphone.

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Stand Alone'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'Sound'*. Confirm with *[ENTER]*.
3. Press *[UP]* or *[DOWN]* to select the desired value for the microphone sensitivity (display shows *'000'* … *'100'*).
4. Press *[ENTER]* to accept the selection.

   ⇨ The sound control is activated.

The music control may be restricted due to the closed design of the device.

Setting colour macro

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Stand Alone'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'Color Macro'*. Confirm with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to select one of the 35 colour macros (display shows *'Color1'* … *'Color35'*) or turn off the colour (display shows *'Color Off'*). Confirm with *[ENTER]*.
4. Press *[UP]* or *[DOWN]* to select the desired value for the intensity of the colour macro (display shows *'001'* … *'255'*).
5. Press *[ENTER]* to accept the selection.

Setting constant colour

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Stand Alone'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'Static'*. Confirm with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to select an effect or a colour that you can to adjust individually.
4. Press *[ENTER]* repeatedly to activate the desired sub menu.
5. To set the intensity of the dimmer, the frequency of the strobe effect or the intensity of the colour, use *[UP]* or *[DOWN]* to select a value between *'000'* and *'255'*.
6. Press *[ENTER]* to accept the selection.

Display	Meaning
'Dimmer'	Dimmer intensity
'Strobe'	Strobe effect
'Red'	Red
'Green'	Green

Display	Meaning
'Blue'	Blue
'White'	White
'Amber'	Amber
'UV'	Ultraviolet

Setting colour temperature and dimmer for white

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Stand Alone'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* until the display shows *'Tunable White'*. Confirm with *[ENTER]*.
3. Press *[UP]* or *[DOWN]* to select the desired submenu or the desired value.

   The following sub menus are available:

Menu level 3	Menu level 4	Description
'Dimmer'	*'000…255'*	Dimmer intensity
'CTC'	*'2800K…8000K'*	Colour temperature: 2800 K, 3500 K, 4000 K, 5000 K, 6000 K, 7000 K, 7500 K and 8000 K

4. Press *[ENTER]* to accept the selection.

Setting an individual mixed colour

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Stand Alone'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'User Color'*. Confirm with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to select one of 8 memory slots for an individual mixed colour (display shows *'Color1'* … *'Color8'*). Confirm with *[ENTER]*.
4. Press *[UP]* or *[DOWN]* to select the desired submenu or the desired value.

   The following sub menus are available:

Menu level 4	Menu level 5	Description
'Dimmer'	*'000…255'*	Dimmer intensity from 0 to 255
'Strobe'	*'000…255'*	Strobe effect from 0 to 255
'Red'	*'000…255'*	Red from 0 to 255
'Green'	*'000…255'*	Green from 0 to 255
' Blue'	*'000…255'*	Blue from 0 to 255

Menu level 4	Menu level 5	Description
'White'	*'000…255'*	White from 0 to 255
'Amber'	*'000…255'*	Amber from 0 to 255
'UV'	*'000…255'*	Ultraviolet from 0 to 255

5. Press *[ENTER]* to accept the selection.

Activating Slave mode

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Slave'*. Confirm with *[ENTER]*.

2. Use *[UP]* or *[DOWN]* to select the menu item *'Yes'*. Confirm with *[ENTER]*.

⇨ The device is now working in slave mode, i.e. it will exactly copy the movement of the controlling master device, correct wiring provided.

3. To deactivate slave mode, select *'No'*. Confirm with *[ENTER]*.

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

Setting output power

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Settings'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'Output Set'*. Confirm with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to select either *'Standard'* (output power 150 W) or *'Full'* (output power 180 W).
4. Press *[ENTER]* to accept the selection.

Rotating the Display

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Settings'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'Display Rev'*. Confirm with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to select either *'On'* (display rotated by 180 °) or *'Off'* (display not rotated).
4. Press *[ENTER]* to accept the selection.

Setting display illumination

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Settings'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'Display Bkl'*. Confirm with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to choose between *'On'* (display permanently on) and *'Off'* (display turns off after a few seconds in case of inactivity).
4. Press *[ENTER]* to accept the selection.

Setting the behaviour on DMX control failure

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Settings'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'DMX Fail'*. Confirm with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to choose between *'Hold'*, *'Blackout'* and *'Emergency Light'*, to make the setting to be used when the DMX controller fails.
4. Press *[ENTER]* to accept the selection.

Display	Meaning
'Hold'	Last DMX value is being held.
'Blackout'	Spotlight turns off.
'Emergency Light'	Emergency light is turned on.

Setting the dimmer curve

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Settings'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'Dimmer Curve'*. Confirm with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to select the desired dimmer curve (display shows *'Linear'*, *'Exponential'*, *'Logarithmic'* or *'S-Curve'*).
4. Press *[ENTER]* to accept the selection.

Display	Meaning
'Linear'	Linear course
'Exponential'	Exponential course (Square curve with a flat course at the beginning and a steep course at the end)

Display	Meaning
'Logarithmic'	Logarithmic course (Inverted quadratic curve with a steep course at the beginning and a flat course at the end)
'S Curve'	S-curve shaped course (Non-linear curve with a distinctive flat course at the beginning and end)

Setting the dimmer response

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Settings'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'Dimmer Response'*. Confirm with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to select the desired response behaviour of the dimmer (display shows *'LED'* or *'Halogen'*).
4. Press *[ENTER]* to accept the selection.

Display	Meaning
'LED'	The dimmer setting for LED is activated.
'Halogen'	The imitation of the dimming behaviour for halogen light is activated.

Enabling keylock

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Settings'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'Auto Lock'*. Confirm with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to choose between *'On'* (keylock on) and *'Off'* (keylock off).
4. Press *[ENTER]* to accept the selection.

Enabling IR remote control (RC) receiver

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Settings'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'IR Remote'*. Confirm with *[ENTER]*.
3. Use *[UP]* or *[DOWN]* to choose between *'On'* (RC enabled) and *'Off'* (RC disabled).
4. Press *[ENTER]* to accept the selection.

Resetting the device to factory defaults

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'Settings'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* repeatedly until the display shows *'Factory Reset'*.
   ⇨ The display shows the message *'Reset Now'*.
3. Confirm with *[ENTER]* to start the reset.

Firmware version display

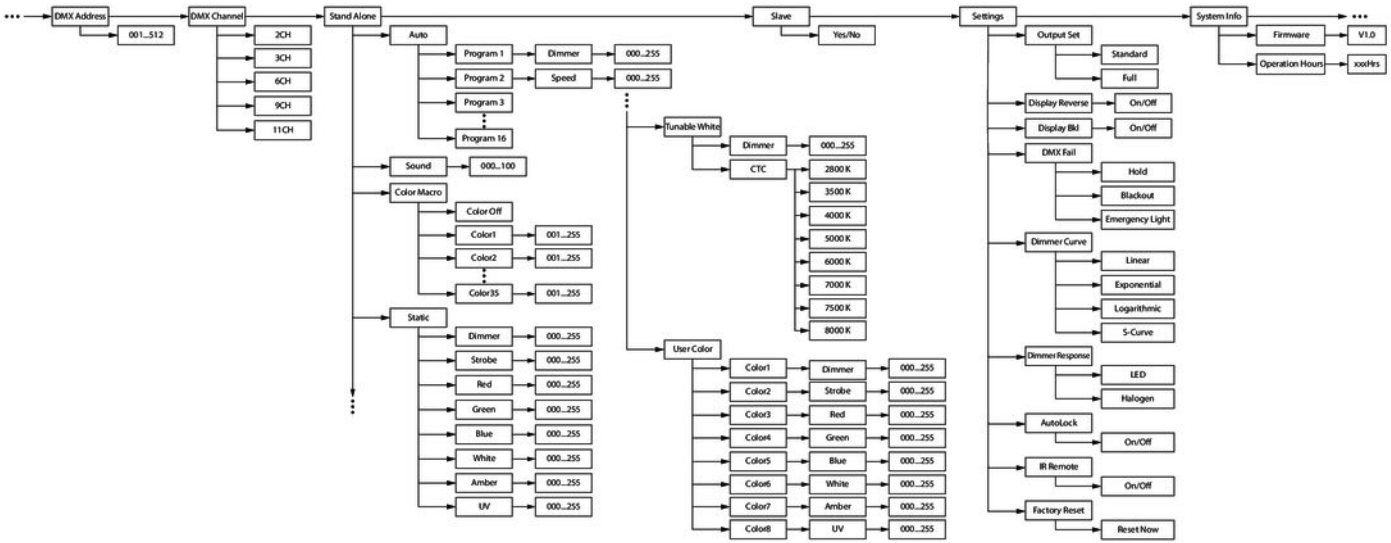
1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'System Info'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* until the display shows *'Firmware'*.
   ⇨ The current firmware version is displayed.

Operating hours display

1. Press *[ENTER]* and then *[UP]* or *[DOWN]* repeatedly until the display shows *'System Info'*. Confirm with *[ENTER]*.
2. Press *[UP]* or *[DOWN]* until the display shows *'Operation Hours'*. Confirm the selection with *[ENTER]*.

   ⇨ The operation hours of the device are displayed.

7.3 Menu overview



7.4 Functions in 2-channel DMX mode

Channel	Value	Function
1	000…255	Dimmer intensity from dark (0) to bright (255)
2	000…005	No function
	006…255	Colour temperature of 3200 K to 7200 K

7.5 Functions in 3-channel DMX mode

Channel	Value	Function
1	000…255	Dimmer intensity from dark (0) to bright (255)
2	Stroboscope	
	000…005	LEDs on
	006…010	LEDs off

Channel	Value	Function
	011…033	Random impulses, increasing speed
	034…056	Randomly increasing brightness, increasing speed
	057…079	Randomly decreasing brightness, increasing speed
	080…102	Random strobe effect, increasing speed
	103…127	Strobe impulses (interval 5 s to 1 s)
	128…250	Strobe effect, increasing speed (1 … 20 Hz)
	251…255	LEDs on
3	Colour macros	
	000…005	Full On
	006…010	Blackout
	011…013	Colour 1
	014…016	Colour 2
	017…019	Colour 3

Channel	Value	Function
	020…022	Colour 4
	023…025	Colour 5
	026…028	Colour 6
	029…031	Colour 7
	032…034	Colour 8
	035…037	Colour 9
	038…040	Colour 10
	041…043	Colour 11
	044…046	Colour 12
	047…049	Colour 13
	050…052	Colour 14
	053…055	Colour 15
	056…058	Colour 16

Channel	Value	Function
	059…061	Colour 17
	062…064	Colour 18
	065…067	Colour 19
	068…070	Colour 20
	071…073	Colour 21
	074…076	Colour 22
	077…079	Colour 23
	080…082	Colour 24
	083…085	Colour 25
	086…088	Colour 26
	089…091	Colour 27
	092…094	Colour 28
	095…097	Colour 29

Channel	Value	Function
	098…100	Colour 30
	101…105	Colour 31
	106…110	Colour 32
	111…115	Colour 33
	116…120	Colour 34
	121…125	Colour 35
	126…127	Colour change stop
	128…191	Colour change colour 1…12, increasing speed
	192…255	Slow colour change with dissolve colour 1…12, increasing speed

7.6 Functions in 6-channel DMX mode

Channel	Value	Function
1	000…255	Intensity red (0 %…100 %)
2	000…255	Intensity green (0 %…100 %)
3	000…255	Intensity blue (0 %…100 %)
4	000…255	Intensity white (0 %…100 %)
5	000…255	Intensity amber (0 %…100 %)
6	000…255	Intensity UV (0 %…100 %)

7.7 Functions in 9-channel DMX mode

Channel	Value	Function
1	000…255	Dimmer intensity from dark (0) to bright (255)
2	Stroboscope	
	000…005	LEDs on
	006…010	LEDs off
	011…033	Random impulses, increasing speed
	034…056	Randomly increasing brightness, increasing speed
	057…079	Randomly decreasing brightness, increasing speed
	080…102	Random strobe effect, increasing speed
	103…127	Strobe impulses (5 s strobe effect, 1 s pause)
	128…250	Strobe effect, increasing speed (1 … 20 Hz)
	251…255	LEDs on

Channel	Value	Function
3	000…255	Intensity red (0 %…100 %)
4	000…255	Intensity green (0 %…100 %)
5	000…255	Intensity blue (0 %…100 %)
6	000…255	Intensity white (0 %…100 %)
7	000…255	Intensity amber (0 %…100 %)
8	000…255	Intensity UV (0 %…100 %)
9	Colour macros	
	000…005	No function
	006…010	Blackout
	011…013	Colour 1
	014…016	Colour 2
	017…019	Colour 3
	020…022	Colour 4

Channel	Value	Function
	023…025	Colour 5
	026…028	Colour 6
	029…031	Colour 7
	032…034	Colour 8
	035…037	Colour 9
	038…040	Colour 10
	041…043	Colour 11
	044…046	Colour 12
	047…049	Colour 13
	050…052	Colour 14
	053…055	Colour 15
	056…058	Colour 16
	059…061	Colour 17

Channel	Value	Function
	062…064	Colour 18
	065…067	Colour 19
	068…070	Colour 20
	071…073	Colour 21
	074…076	Colour 22
	077…079	Colour 23
	080…082	Colour 24
	083…085	Colour 25
	086…088	Colour 26
	089…091	Colour 27
	092…094	Colour 28
	095…097	Colour 29
	098…100	Colour 30

Channel	Value	Function
	101…105	Colour 31
	106…110	Colour 32
	111…115	Colour 33
	116…120	Colour 34
	121…125	Colour 35
	126…127	Colour change stop
	128…191	Colour change colour 1…12, increasing speed
	192…255	Slow colour change with dissolve colour 1…12, increasing speed

7.8 Functions in 11-channel DMX mode

Channel	Value	Function
1	000…255	Dimmer intensity from dark (0) to bright (255)
2	Stroboscope	
	000…005	LEDs on
	006…010	LEDs off
	011…033	Random impulses, increasing speed
	034…056	Randomly increasing brightness, increasing speed
	057…079	Randomly decreasing brightness, increasing speed
	080…102	Random strobe effect, increasing speed
	103…127	Strobe impulses (5 s strobe effect, 1 s pause)
	128…250	Strobe effect, increasing speed (1 … 20 Hz)
	251…255	LEDs on

Channel	Value	Function
3	000…255	Intensity red (0 %…100 %)
4	000…255	Intensity green (0 %…100 %)
5	000…255	Intensity blue (0 %…100 %)
6	000…255	Intensity white (0 %…100 %)
7	000…255	Intensity amber (0 %…100 %)
8	000…255	Intensity UV (0 %…100 %)
9	Colour macros	
	000…005	No function
	006…010	Blackout
	011…013	Colour 1
	014…016	Colour 2
	017…019	Colour 3
	020…022	Colour 4

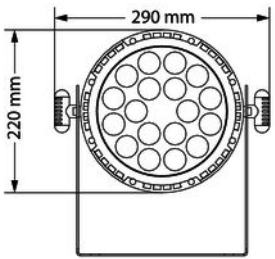
Channel	Value	Function
	023…025	Colour 5
	026…028	Colour 6
	029…031	Colour 7
	032…034	Colour 8
	035…037	Colour 9
	038…040	Colour 10
	041…043	Colour 11
	044…046	Colour 12
	047…049	Colour 13
	050…052	Colour 14
	053…055	Colour 15
	056…058	Colour 16
	059…061	Colour 17

Channel	Value	Function
	062…064	Colour 18
	065…067	Colour 19
	068…070	Colour 20
	071…073	Colour 21
	074…076	Colour 22
	077…079	Colour 23
	080…082	Colour 24
	083…085	Colour 25
	086…088	Colour 26
	089…091	Colour 27
	092…094	Colour 28
	095…097	Colour 29
	098…100	Colour 30

Channel	Value	Function
	101…105	Colour 31
	106…110	Colour 32
	111…115	Colour 33
	116…120	Colour 34
	121…125	Colour 35
	126…127	Colour change stop
	128…191	Colour change colour 1…12, increasing speed
	192…255	Slow colour change with dissolve colour 1…12, increasing speed
10	Colour temperature selection	
	000…005	No function
	006…255	Colour temperature of 3200 K to 7200 K
11	Dimmer curve	
	000…005	No function

Channel	Value	Function
	006…063	Linear course
	064…127	Exponential course
	128…191	Logarithmic course
	192…255	S-curve shaped course

8 Technical specifications



Item no.		
Light source		18 × 6in1 RBGWA UV LED, each 12 W
Optical properties	Beam angle	25°
	Repetition rate	3000 Hz
Control		DMX
		Buttons and display
		Infrared remote control
Number of DMX channels		2, 3, 6, 9, 11
Input connections	Voltage supply	Lockable input socket Power Twist TR1 IP65
	DMX control	XLR panel plug (IP65), 3-pin
Output connections	Voltage supply	Lockable output socket Power Twist TR1 IP65

Item no.		
	DMX control	XLR panel socket (IP65), 3-pin
Power consumption		200 W
Operating supply voltage		100 – 240 V ~ 50/60 Hz
Battery for the remote control	Battery type	Lithium button cell, 3 V, CR 2025
Protection class		IP65
Mounting options		hanging, standing
Dimensions (W × H × D), w/o bracket		290 mm × 220 mm × 140 mm
Dimensions (W × H × D), with bracket		290 mm × 305 mm × 140 mm
Weight		7.5 kg
Ambient conditions	Temperature range	–5 °C…+45 °C
	Relative humidity	50 %, non-condensing

Further information

Item no.	
Construction	Outdoor housing, Flat PAR
Number of LEDs	18
Colour mixture	RBGWA UV
LED type	x-in-1
Floor housing	Yes
Fanless	Yes
Remote control	included
Wireless DMX	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 fuse.
No response to the DMX controller.	1. Check the DMX ports and cables for proper connection.
	2. Check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check to see if the DMX cables run near or alongside to high voltage cables that may cause damage or interference to DMX interface circuits.

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

11 Cleaning

Optical lenses

Clean the optical lenses, that are accessible from the outside, regularly in order to optimize the light output. The frequency of cleaning depends on the operating environment: wet, smoky or particularly dirty surroundings can cause more accumulation of dirt on the optics of the device.

- Clean with a soft cloth using our lamp and lens cleaner (item no. 280122).
- Always dry the parts carefully.

12 Protecting the environment

Disposal of the 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 these materials with your normal household waste, but make sure that they are fed to a recovery. Please follow the notes and markings on the packaging.

Disposal of batteries

Batteries must not be disposed of as domestic waste or thrown into fire. Dispose of the batteries according to national or local regulations regarding hazardous waste. To protect the environment, dispose of empty batteries at your retail store or at appropriate collection sites.

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 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.