



 STARVILLE

Stage Flood  
Inst QCL 24x10W  
LED floodlight

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

21.08.2015, ID: 345855

# Table of contents

<b>1</b>	<b>General notes.....</b>	<b>5</b>
1.1	Further information.....	6
1.2	Notational conventions.....	7
1.3	Symbols and signal words.....	7
<b>2</b>	<b>Safety instructions.....</b>	<b>10</b>
<b>3</b>	<b>Features.....</b>	<b>15</b>
<b>4</b>	<b>Installation.....</b>	<b>16</b>
<b>5</b>	<b>Setup.....</b>	<b>20</b>
<b>6</b>	<b>Connections and operating elements.....</b>	<b>24</b>
<b>7</b>	<b>Operating.....</b>	<b>27</b>
7.1	Starting the device.....	27
7.2	Main menu.....	27
7.3	Menu overview.....	38
7.4	Functions in 3-channel DMX mode (Arc.1).....	40
7.5	Functions in 3-channel DMX mode (HSV).....	40

7.6	Functions in 4-channel DMX mode (Ar1.d).....	41
7.7	Functions in 4-channel DMX mode (Arc.2).....	42
7.8	Functions in 5-channel DMX mode (Ac2.d).....	43
7.9	Functions in 6-channel DMX mode (Ac2.s).....	44
7.10	Functions in 11-channel DMX mode (STAGE).....	45
<b>8</b>	<b>Technical specifications.....</b>	<b>51</b>
<b>9</b>	<b>Plug and connection assignment.....</b>	<b>52</b>
<b>10</b>	<b>Troubleshooting.....</b>	<b>53</b>
<b>11</b>	<b>Cleaning.....</b>	<b>55</b>
<b>12</b>	<b>Protecting the environment.....</b>	<b>56</b>

# 1 General notes

This manual contains important instructions for the safe operation of the unit. Read and follow the safety instructions and all other instructions. Keep the manual for future reference. Make sure that it is available to all those using the device. If you sell the unit please make sure that the buyer also receives this manual.

Our products are subject to a process of continuous development. Thus, they are subject to change.

## 1.1 Further information

On our website ([www.thomann.de](http://www.thomann.de)) you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

## 1.2 Notational conventions

This manual uses the following notational conventions:

### Letterings

The letterings for connectors and controls are marked by square brackets and italics.

**Examples:** *[VOLUME]* control, *[Mono]* button.



### Displays

Texts and values displayed on the device are marked by quotation marks and italics.


**Examples:** *'24ch'*, *'OFF'*.

## 1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

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



Warning signs	Type of danger
	<p>Warning – danger zone.</p>

## 2 Safety instructions

### **Intended use**

This device is intended to be used as an electronic illumination effect using LED technics. The device is designed for professional use and is not suitable for use in households. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

## Safety



### **DANGER!**

#### **Danger for children**

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



### **DANGER!**

#### **Hazardous voltage**

The wiring, as well as all maintenance and repair work on the electrical installation of the device must only be performed by qualified electrical personnel. Failure to do so may result in electric shock and risk of fire and loss of life.

Before starting work on the electrical installation, the device must be turned volt-free.



### **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.



**NOTICE!**

**Risk of fire**

Do not cover the device nor any ventilation slots. Do not place 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.



### **NOTICE!**

#### **Possible staining**

The plasticiser contained in the rubber feet of this product may possibly react with the coating of your parquet, linoleum, laminate or PVC floor and after some time cause permanent dark stains.

In case of doubt, do not put the rubber feet directly on the floor, but use felt-pad floor protectors or a carpet.

### 3 Features

Special features of the device:

- 24 × QCL LEDs (RGBW)
- Stand-alone and DMX mode operation (7 different modes)
- Easy operation via display and buttons on the unit
- 10 preprogrammed automatic shows
- 10 preprogrammed automatic programmes, editable
- Master / Slave mode
- Rugged aluminium housing
- Protection class IP65 allows outdoor operation

## 4 Installation

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.



### **DANGER!**

#### **Hazardous voltage**

The wiring, as well as all maintenance and repair work on the electrical installation of the device must only be performed by qualified electrical personnel. Failure to do so may result in electric shock and risk of fire and loss of life.

Before starting work on the electrical installation, the device must be turned volt-free.





**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 always be below 40 °C (104 °F).



### **NOTICE!**

#### **Use of stands**

When mounting the device onto a stand, ensure that the stand is in a safe and stable position and that the weight of the device does not exceed the maximum permissible load capacity of the stand.



### **NOTICE!**

#### **Possible data transmission errors**

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

## **Mounting options**

You can install the device standing or hanging upside down. When in use, the device must be mounted at a solid surface or clamped to 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. Block access under the work area.

The safety cable must be routed through both of the handles.



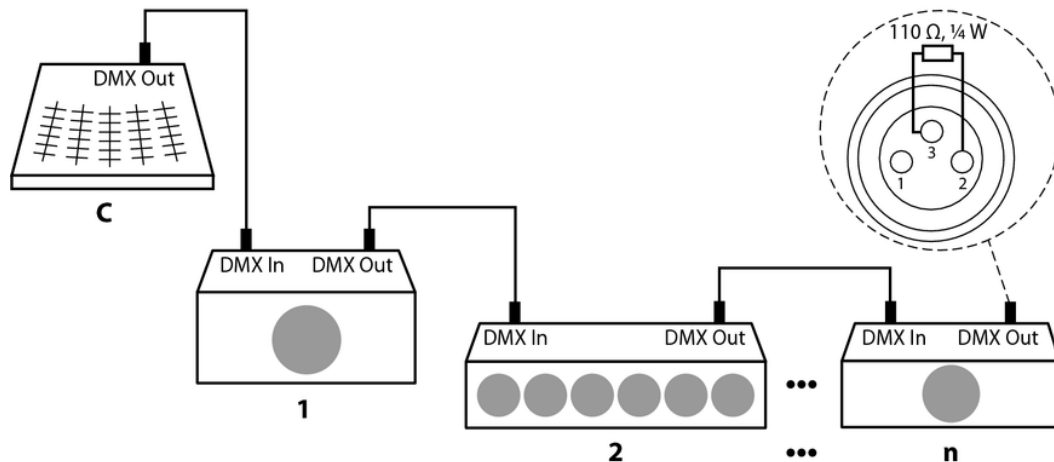
*Please note that this device must not be connected to a dimmer.*

## 5 Setup

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

## Connections in DMX mode

Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor ( $110\ \Omega$ ,  $\frac{1}{4}\text{ W}$ ).



As per EIA-485 a maximum of 32 devices may be connected in a daisy-chain configuration. The length of the data connection should not exceed 500 m. An additional limitation results from the power supply (see below).

### **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.

## Connections for the power supply



### **DANGER!**

#### **Hazardous voltage**

The voltage output cable carries hazardous electrical voltage.

The voltage output cable must be insulated in a professional manner and terminated safely.

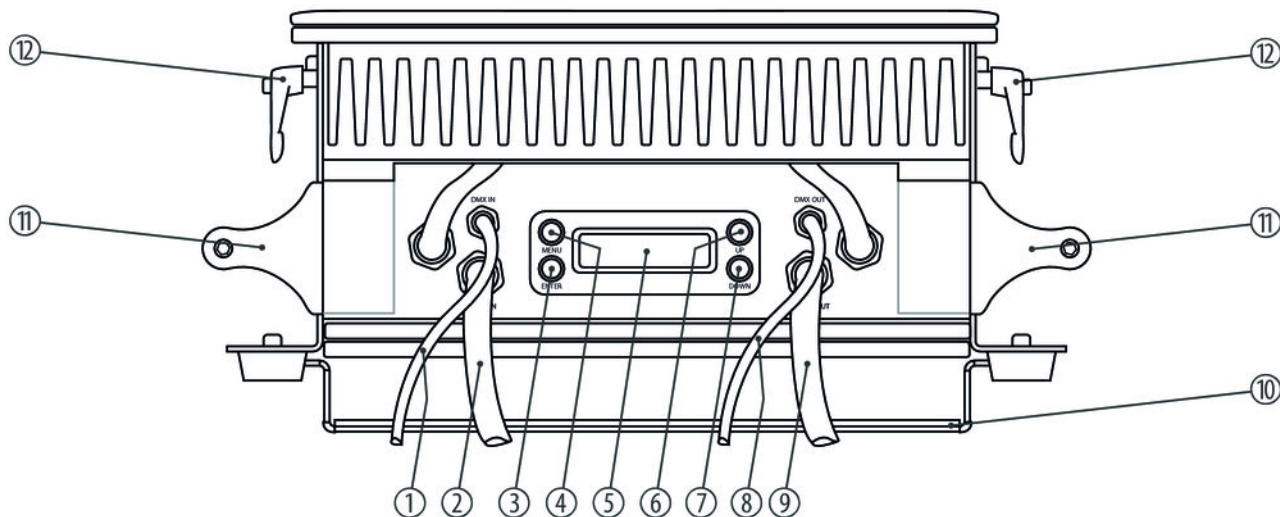
The devices feature non-removable cables for receiving the power supply (*[POWER IN]*) and distributing (*[POWER OUT]*) power to the next device.

This allows for the devices to be supplied with power when connected in a daisy-chain configuration.

However, the number of devices is limited:

- max. 10 devices at 110 V ~ (AC), 60 Hz
- max. 20 devices at 230 V ~ (AC), 50 Hz

## LED floodlight





1	<i>[DMX IN]</i> DMX input.
2	<i>[POWER IN]</i> Connection for the power supply.
3	<i>[ENTER]</i> button Selects an option of the respective operating mode, confirms the set value.
4	<i>[MENU]</i> button Activates the main menu and toggles between menu items. Closes an opened submenu.
5	Display.
6	<i>[UP]</i> button Navigates upwards in a menu list. Increments the displayed value by one.
7	<i>[DOWN]</i> button Navigates downwards in a menu list. Decrements the displayed value by one.

8	<i>[DMX OUT]</i> DMX output.
9	<i>[POWER OUT]</i> Voltage output for powering further devices.
10	Bracket for floor placement or hanging.
11	Carrying handles.
12	Locking levers.  By turning the levers you can loosen the locking and then adjust the inclination of the spotlight. When the desired position is adjusted, fasten the levers again.

## 7 Operating

### 7.1 Starting the device

Connect the unit to the power grid to start the operation.

### 7.2 Main menu

Press *[MENU]* to activate the main menu and select an operating mode. Use *[ENTER]* to select further options. Use *[UP]* and *[DOWN]* to change the respectively displayed value. When the display shows the desired value, press *[ENTER]*.

If you don't press any button for about 5 seconds the display turns off. It will be reactivated to display the previously shown menu by pressing any button.

The set values are retained even when the device is disconnected from the mains power supply.

### Operating mode 'Static colour'

This operating mode can only be activated when the unit is working alone or as Master in a Master / Slave combination. This setting is only relevant when the unit is not DMX-controlled.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows 'Static Color'. Press *[ENTER]*.

Use *[UP]* and *[DOWN]* to select the submenus (dimmer, R, G, b, W, S). Confirm the selection with *[ENTER]*.

Use *[UP]* and *[DOWN]* to set the various values:

- Dimmer: brightness, value range is between '000' and '255'
- R: intensity red, value range is between '000' and '255'
- G: intensity green, value range is between '000' and '255'
- b: intensity blue, value range is between '000' and '255'
- W: intensity white, value range is between '000' and '255'
- S: strobe effect, value range is between '00' and '20' (0 ... 20 Hz)

Confirm each entry with *[ENTER]*.

### **Operating mode 'Preprogrammed automatic shows'**

This operating mode can only be activated when the unit is working alone or as Master in a Master / Slave combination. This setting is only relevant when the unit is not DMX-controlled.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows 'AUTO'. Press *[ENTER]*.

Now you can select with *[UP]* and *[DOWN]* between 'Aut.' and 'Pro.'.

Both submenus offer 10 preprogrammed shows each. The shows under 'Aut.' are fixed preprogrammed and can not be modified, in contrast to those under 'Pro'.

### Operating mode 'Preprogrammed automatic programmes'

This operating mode can only be activated when the unit is working alone or as Master in a Master / Slave combination. This setting is only relevant when the unit is not DMX-controlled.

For 10 programmes, you can adjust colour, speed, strobe frequency and fade speed.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows 'EDIT'. Press *[ENTER]*.

Use *[UP]* and *[DOWN]* to select a value between 'Pro01' and 'Pro10' and press *[ENTER]* to call up the programme you want to modify.

Use *[UP]* and *[DOWN]* to select the submenus (R, G, b, W, S, t, F). Confirm the selection with *[ENTER]*.

Use *[UP]* and *[DOWN]* to set the various values:

- R: intensity red, value range is between '000' and '255'
- G: intensity green, value range is between '000' and '255'
- b: intensity blue, value range is between '000' and '255'
- W: intensity white, value range is between '000' and '255'
- S: strobe effect, value range is between '00' and '20' (0 ... 20 Hz)
- t: speed, value range is between '000' and '255'
- F: fade speed, value range is between '000' and '255'

Confirm each entry with *[ENTER]*.

**DMX mode**

This setting is only relevant when the unit is DMX-controlled.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows 'RUN'.  
Press *[ENTER]*.

If applicable, use *[UP]* and *[DOWN]* to select 'dMX' and press *[ENTER]*.

### DMX address

For DMX operation, you have to set the number of the first DMX channel to be used by the device (DMX address).

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows 'DMX Address'. Press *[ENTER]*.

Use *[UP]* and *[DOWN]* to select a value between 1 and 512 (display shows 'DMX Addr: 001' ... 'DMX Addr: 512').

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

Mode	Highest possible first DMX address
3-channel	510
4-channel	509
5-channel	508
6-channel	507
11-channel	502



**DMX operation mode selection**

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows 'Personality'. Press *[ENTER]*.

With *[UP]* and *[DOWN]* you can now select one of the following DMX operation modes:

- 'STAGE' (11 channels)
- 'Arc.1' (three channels – RGB)
- 'Ar1.d' (four channels – RGB + dimmer)
- 'Arc.2' (four channels – RGBW)
- 'Ar2.d' (five channels – RGBW + dimmer)
- 'Ar2.s' (six channels – RGBW + dimmer + strobe effect)
- 'HSv' (three channels – hue, saturation, brightness)

**ID address assignment**

You can assign up to 66 ID addresses to each DMX address. This allows the grouping of devices. In 11-channel DMX mode, the devices of a group (same DMX address) can be controlled together (via channels 1 to 10) or separately by making another differentiation based on the IDs via channel 11.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows 'ID Address'. Press *[ENTER]*.

With *[UP]* and *[DOWN]* you can now select one of 66 ID addresses.

### **Operating mode 'Slave'**

This setting is only relevant if the unit operates as Slave in a Master / Slave configuration, and is not DMX-controlled.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows 'RUN'. Press *[ENTER]*.

If applicable, use *[UP]* and *[DOWN]* to select 'SLA' and press *[ENTER]*.

## Settings

These submenus are used to adjust the system settings.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows 'SET'. Press *[ENTER]*.

Select one of the following submenus:

■ 'UPLD':

This one starts the upload (copying from the Master unit into the Slave units) of the pre-programmed automatic programmes. Password entry is necessary. To do so, press *[UP]*+*[DOWN]*+*[UP]*+*[DOWN]* in sequence and then *[ENTER]*.

The Slave units signalise the upload progress:

- yellow light: upload in process
- red light: an error occurred
- green light: upload successful

■ 'REST':

This one resets to defaults. Password entry is necessary. To do so, press *[UP]*+*[DOWN]*+*[UP]*+*[DOWN]* in sequence and then *[ENTER]*.

■ 'Id':

This one is used to enable ('on') or disable ('off') the usage of the ID addressing via DMX controller.

■ 'REGW':

This one determines, whether the white colour is defined by RGB=255.255.255 ( 'Yes'), or is manually defined via the CAL2 menu ( 'No').

■ 'dim':

This one determines the dimmer mode or the speeds:

- Setting 'oFF': Changes of dimmer and RGBW are done linearly.
- Settings 'dim1', 'dim2', 'dim3' 'dim4': Speed modes for the non-linear dimmer; 'dim1' is the fastest, 'dim4' is the slowest.

### Setting colour temperature for 'White'

11 different preprogrammed values for colour temperature 'White' can be edited.

Press [MENU] to enter the main menu and then [UP] or [DOWN] until the display shows 'CAL1 white'. Press [ENTER].

With [UP] and [DOWN] you can now call up one of the 11 predefined settings for 'White' ('WT01' ... 'WT11').

Press [ENTER], then you can change the following values:

- R: intensity red, value range is between '000' and '255'
- G: intensity green, value range is between '000' and '255'
- b: intensity blue, value range is between '000' and '255'
- W: intensity white, value range is between '000' and '255'

### Defining different values for 'White'

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows 'CAL2'. Press *[ENTER]*.

The display shows 'REGW'. Press *[ENTER]*.

You can change the following values:

- R: intensity red, value range is between '000' and '255'
- G: intensity green, value range is between '000' and '255'
- b: intensity blue, value range is between '000' and '255'

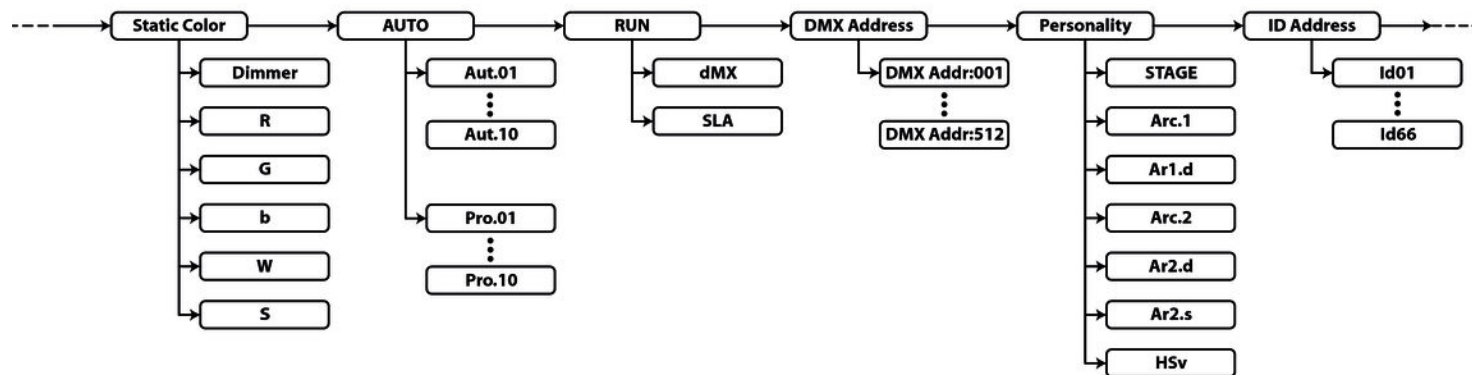
### Enabling / disabling the password

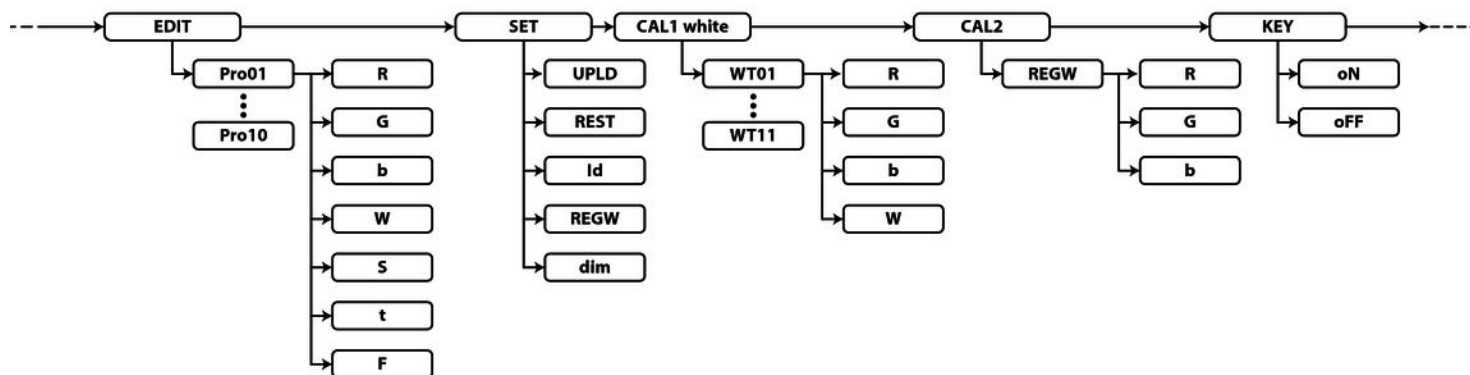
You can specify whether to enable or disable the access password. To enter the password, press *[UP]*+*[DOWN]*+*[UP]*+*[DOWN]* in sequence and confirm with *[ENTER]*.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows 'KEY'. Press *[ENTER]*.

With *[UP]* and *[DOWN]* you can now select between 'oN' and 'oFF'. Then press *[ENTER]*.

## 7.3 Menu overview





## 7.4 Functions in 3-channel DMX mode (Arc.1)

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 %)

## 7.5 Functions in 3-channel DMX mode (HSV)

Channel	Value	Function
1	0...255	Hue (0 % to 100 %)
2	0...255	Saturation (0 % to 100 %)
3	0...255	Dimmer (0 % to 100 %)



## 7.6 Functions in 4-channel DMX mode (Ar1.d)

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

## 7.7 Functions in 4-channel DMX mode (Arc.2)

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 white (0 % to 100 %)

## 7.8 Functions in 5-channel DMX mode (Ac2.d)

Channel	Value	Function
1	0...255	Dimmer (0 % to 100 %)
2	0...255	Intensity red (0 % to 100 %)
3	0...255	Intensity green (0 % to 100 %)
4	0...255	Intensity blue (0 % to 100 %)
5	0...255	Intensity white (0 % to 100 %)

## 7.9 Functions in 6-channel DMX mode (Ac2.s)

Channel	Value	Function
1	0...255	Dimmer (0 % to 100 %)
2	0...255	Intensity red (0 % to 100 %)
3	0...255	Intensity green (0 % to 100 %)
4	0...255	Intensity blue (0 % to 100 %)
5	0...255	Intensity white (0 % to 100 %)
6	0...255	Strobe effect (0 Hz to 20 Hz)

## 7.10 Functions in 11-channel DMX mode (STAGE)

Channel	Value	Function
1	0...255	Dimmer (0 % to 100 %)
2	0...255	Intensity red (0 % to 100 %). Speed adjustment, if one of the preprogrammed automatic programmes is active (channel 8)
3	0...255	Intensity green (0 % to 100 %). Fade speed adjustment, if one of the preprogrammed automatic programmes is active (channel 8)
4	0...255	Intensity blue (0 % to 100 %)
5	0...255	Intensity white (0 % to 100 %)
6	0...10	No function
	11...20	Red 100 %, intensity green (0 % to 100 % fade-in; if channel 7 = 0, no change), blue 0 %, white 0 %

Channel	Value	Function
	21...30	Intensity red (0 % to 100 % fade-in; if channel 7 = 0, no change), green 100 %, blue 0 %, white 0 %
	31...40	Red 0 %, green 100 %, intensity blue (0 % to 100 % fade-in; if channel 7 = 0, no change), white 0 %
	41...50	Red 0 %, intensity green (0 % to 100 % fade-in; if channel 7 = 0, no change), blue 100 %, white 0 %
	51...60	Intensity red (0 % to 100 % fade-in; if channel 7 = 0, no change), green 0 %, blue 100 %, white 0 %
	61...70	Red 100 %, green 0 %, intensity blue (0 % to 100 % fade-in; if channel 7 = 0, no change), white 0 %
	71...80	Red 100 %, green 0 %, blue 0 %, intensity white (0 % to 100 % fade-in; if channel 7 = 0, no change)
	81...90	Red 100 %, green 0 %, blue 0 %, intensity white (0 % to 100 % fade-in; if channel 7 = 0, no change)
	91...100	Colour transitions, speed is controlled via channel 7
	101...110	Colour transitions, speed is controlled via channel 7

Channel	Value	Function
	111...120	Colour transitions, speed is controlled via channel 7
	121...130	Colour transitions, speed is controlled via channel 7
	131...140	Colour transitions, speed is controlled via channel 7
	141...150	Colour transitions, speed is controlled via channel 7
	151...160	Colour transitions, speed is controlled via channel 7
	161...170	Colour transitions, speed is controlled via channel 7
	171...180	Colour transitions, speed is controlled via channel 7
	181...190	Colour transitions, speed is controlled via channel 7
	191...200	RGBW
	201...205	White 1
	206...210	White 2
	211...215	White 3
	216...220	White 4

Channel	Value	Function
	221...225	White 5
	226...230	White 6
	231...235	White 7
	236...240	White 8
	241...245	White 9
	246...250	White 10
	251...255	White 11
7	0...255	If channel 6 (11...90) fade-in speed of fixed colour; if channel 6 (91...190) speed of colour transitions
	0...15	No function
	16...255	Strobe effect (0 Hz to 20 Hz) of channels 1 to 5
8	0...9	No function
	10...19	Preprogrammed automatic show 1



Channel	Value	Function
	20...29	Preprogrammed automatic show 2
	30...39	Preprogrammed automatic show 3
	40...49	Preprogrammed automatic show 4
	50...59	Preprogrammed automatic show 5
	60...69	Preprogrammed automatic show 6
	70...79	Preprogrammed automatic show 7
	80...89	Preprogrammed automatic show 8
	90...99	Preprogrammed automatic show 9
	100...109	Preprogrammed automatic show 10
	110...255	No function
9	0...255	Speed, if preprogrammed automatic shows are enabled (channel 8, values 10...109)
10	0...49	Dimmer is off, changes of dimmer and RGBW are done linearly
	50...99	Dimmer speed 1

Channel	Value	Function
	100...149	Dimmer speed 2
	150...199	Dimmer speed 3
	200...255	Dimmer speed 4
11	Determination of ID addresses for the set DMX address	
	0...9	All IDs
	10...19	ID1
	20...29	ID2
	...	...
	200...209	ID20
	210	ID21
	211	ID22
	...	...
	255	ID66

## 8 Technical specifications

LEDs	24 × 10 W LEDs
Number of DMX channels	3, 4, 5, 6, 11
Power consumption	248 W
Operating supply voltage	230 V ~ (AC), 50 Hz / 110 V ~ (AC), 60 Hz
Protection class	IP65
Dimensions (W × H × D)	196 mm × 190 mm × 427 mm
Weight	12.5 kg

# 9 Plug and connection assignment

## 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

A three-pole coupling in IP65 design is used as DMX output, a three-pole plug in IP65 design is used as DMX input. The drawing below and the table show the pin assignment of a matching coupling.



Pin	Assignment
1	Ground (shielding)
2	Signal inverted (DMX-, 'cold')
3	Signal (DMX+, 'hot')

## 10 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 and the main fuse.
No response to the DMX controller	1. Check the DMX connectors and cables for proper connection.
	2. Try using another DMX controller.
	3. 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](http://www.thomann.de).

# 11      **Cleaning**

## **Optical lenses**

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

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

## 12 Protecting the environment

### Disposal of the packaging material



For the 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). 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.









