



## Colors NerveStrobe HP

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06.07.2022, ID: 473877

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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](http://www.thomann.de).

## 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'*.

### 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
<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 – 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 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!**

##### **Danger for children**

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard! Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke! Never let children unattended use electrical devices.



#### **DANGER!**

##### **Electric shock caused by high voltages inside**

Within the device there are areas where high voltages may be present. Never remove any covers. There are no user-serviceable parts inside. Do not use the device if covers, protectors or optical components are missing or damaged.



#### **DANGER!**

##### **Electric shock caused by short-circuit**

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



#### **WARNING!**

##### **Eye damage caused by high light intensity**

Never look directly into the light source.



#### **WARNING!**

##### **Risk of epileptic shock**

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.



#### **NOTICE!**

##### **Risk of fire**

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.



#### **NOTICE!**

##### **Operating conditions**

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations. Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures). Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.

- !** **NOTICE!**  
**Power supply**
- Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user. Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

- !** **NOTICE!**  
**Fire hazard due to exceedance of the maximum current**
- The device can power other devices of identical construction. The current consumption of all other devices connected in series must not exceed the values indicated in the technical specifications. Otherwise you risk injuries and irreparable damages to the device. Only connect so many identical devices that the maximum current consumption is not exceeded. Ensure the sufficient dimensioning (wire cross section) of the power cables used for all devices connected in series.

- !** **NOTICE!**  
**Possible damage due to installation of a wrong fuse**
- The use of different types of fuses can cause serious damage to the unit. Fire hazard! Only fuses of the same type may be used.

- !** **NOTICE!**  
**Possible staining**
- The plasticiser contained in the rubber feet of this product may possibly react with the coating of your surface and after some time cause permanent dark stains. In case of doubt, do not put the rubber feet directly on the surface and use a suitable underlay if necessary, i.e. felt pads or similar.

- !** **NOTICE!**  
**Risk of overheating**
- The distance between light output and the illuminated surface must be more than 1.5 m (19.7in). Provide sufficient ventilation. The ambient temperature must always be below 40 °C (104 °F).



### 3 Features

- 2-in-1 LED stroboscope and wash light
- 90 × CW LEDs for bright and dynamic strobe, blinder and blinder effects
- 360 × RGB LEDs for wash effects and colourful accents in the background
- Up to 12 individually controllable segments with the RGBW LEDs
- Soft frost filter for a unique look
- Control via DMX and via buttons and display on the unit
- Operating modes:
  - Master/Slave
  - Sound control via built-in microphone
  - Auto operation
  - DMX
- 14 built-in chase programmes in automatic mode and sound control
- Flash rate: 20 Hz
- Swivelling 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.

## 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**

The distance between light output and the illuminated surface must be more than 1.5 m (19.7in).

Provide sufficient ventilation.

The ambient temperature must always be below 40 °C (104 °F).



### **NOTICE!**

#### **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 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 provided on the two-piece bracket for attaching.

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 attached to the safety eyelet.



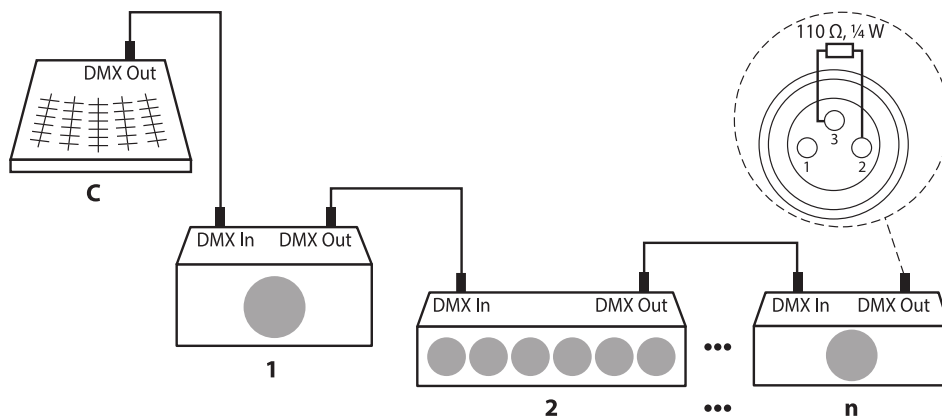
*Please note that this device must not be connected to a dimmer.*

## 5 Starting up

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

### Connections in DMX mode

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

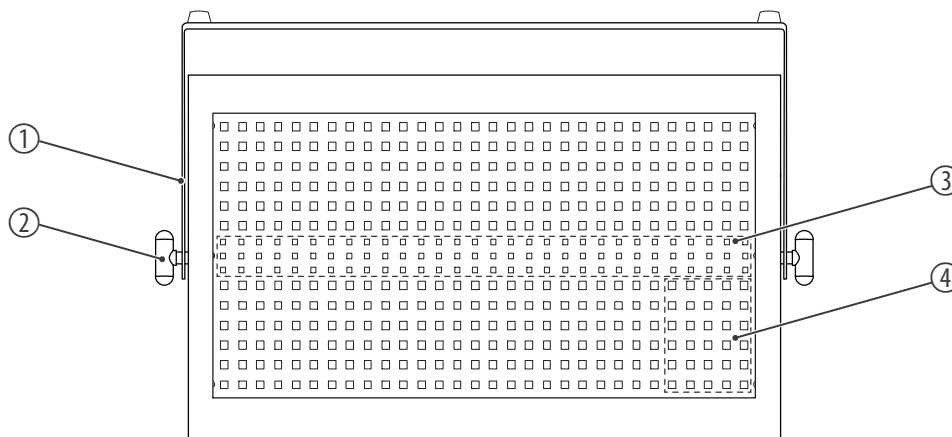


### Connections in master/slave mode

When you configure a group of devices in master/slave mode, the first unit will control the other units for an automatic, sound-activated, synchronized show. This function is ideal when you want to start a show immediately. Connect the DMX output of the master device to the DMX input of the first slave device. Then connect the DMX output of the first slave device to the DMX input of the second slave device and so on.

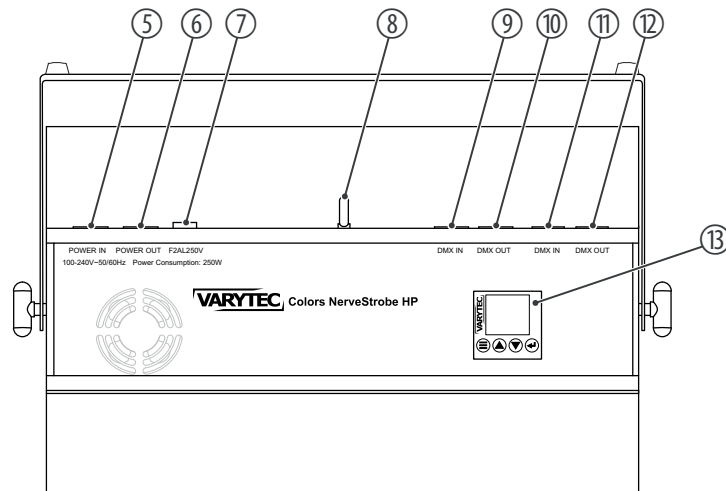
## 6 Connections and operating elements

### Front panel



- |   |  |
|---|--|
| 1 | Hanging bracket/floor stand.                                       |
| 2 | Locking screws for the bracket for hanging or placement            |
| 3 | CW LEDs (WhiteBar)   |
| 4 | RGBW LEDs (1 of 12 LED segments in 16, 56 and 68 channel DMX mode) |

Rear side and connection panel



5	[POWER IN] Lockable input socket (Power Twist) for powering the device
6	[POWER OUT] Lockable output socket (Power Twist) for powering further devices
7	[F2AL250V] Fuse
8	Safety eye for attaching the safety cable
9	[DMX IN] DMX input, 3-pin
10	[DMX OUT] DMX output, 3-pin
11	[DMX IN] DMX input, 5-pin
12	[DMX OUT] DMX output, 5-pin
13	Display
	☰ Activates the main menu and toggles between menu items
	▲ Increases the displayed value by one
	▼ Decreases the displayed value by one
	◀ Selects an option of the respective operating mode

## 7 Operating

### 7.1 Starting the device

1. ➤ Connect the device to the power supply to start operation.
2. ➤ The display shows the start screen with the last set operating parameters. The device is operational.

### 7.2 Navigating the menu

1. ➤ Press **≡** to activate the main menu.
2. ➤ Press **▲** or **▼** to select a submenu.
3. ➤ To activate the respectively shown menu item, press **↵**.
4. ➤ Press **▲** or **▼** to change the respectively indicated value.
5. ➤ Press **↵** to apply the displayed value.
6. ➤ Press **≡** to return to the parent menu level.

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

### 7.3 Operating on the unit

#### 7.3.1 Setting the DMX address

1. ➤ Press **≡** to activate the main menu.
2. ➤ Press **▲** or **▼** repeatedly until the display shows *'DMX Address'*. Confirm with **↵**.
3. ➤ Use **▲** or **▼** to select a DMX address in the range of *'001' ... '512'*. Confirm with **↵**.

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
3-channel	<i>'3CH'</i>	510
6-channel	<i>'6CH'</i>	507
12-channel	<i>'12CH'</i>	501
16-channel	<i>'16CH'</i>	497
56-channel	<i>'56CH'</i>	457
68-channel	<i>'68CH'</i>	445

The RGBW LEDs are divided into 12 segments in 16, 56 and 68 channel DMX modes.

### 7.3.2 Setting the DMX mode

1. Press  $\equiv$  to activate the main menu.
2. Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly until the display shows 'DMX Mode'. Confirm with  $\blackleftarrow$ .
3. Use  $\blacktriangle$  or  $\blacktriangledown$  to select the desired DMX mode ('3CH', '6CH', '12CH', '16CH', '56CH' or '68CH'). Confirm with  $\blackleftarrow$ .

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

### 7.3.3 'Automatic mode'

Auto mode can only be activated when the unit is operating in stand alone mode or as master in a master / slave combination. This setting is only relevant if the device is not controlled via DMX. 14 different show programmes are available in automatic mode. Configure the sequence speed and the dimmer intensity of the automatic mode.

1. Press  $\equiv$  to activate the main menu.
2. Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly until the display shows 'Stand Alone'. Confirm with  $\blackleftarrow$ .
3. Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly until the display shows 'Auto'. Confirm with  $\blackleftarrow$ .
4. Use  $\blacktriangle$  or  $\blacktriangledown$  to select the desired show programme ('Program 1' ... 'Program 14'). Confirm with  $\blackleftarrow$ .
5. Press  $\blacktriangle$  or  $\blacktriangledown$  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

6. Press  $\blackleftarrow$  to accept the selection.

### 7.3.4 Operating mode 'Sound control'

Sound control mode can only be activated when the unit is operating in stand alone mode or as master in a master / slave combination. This setting is only relevant if the device is not controlled via DMX. In this operating mode, the device responds to acoustic pulses which are recorded by the integrated microphone. Configure the dimmer intensity and microphone sensitivity of the sound control.

1. Press  $\equiv$  to activate the main menu.
2. Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly until the display shows 'Stand Alone'. Confirm with  $\blackleftarrow$ .
3. Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly until the display shows 'Sound'. Confirm with  $\blackleftarrow$ .
4. Use  $\blacktriangle$  or  $\blacktriangledown$  to select the desired show programme ('Program 1' ... 'Program 14'). Confirm with  $\blackleftarrow$ .

5. ➤ Press ▲ or ▼ 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
'Mic Sens'	'00...99'	Microphone sensitivity from low to high

6. ➤ Press ⬅ to accept the selection.

### 7.3.5 Master / slave mode

To use a device as the master device, select the auto mode, activate the sound control or the manual control. Connect the slave devices to the DMX output of the master device and select the DMX mode.

### 7.3.6 Setting colour macro

1. ➤ Press ≡ to activate the main menu.
2. ➤ Press ▲ or ▼ repeatedly until the display shows 'Stand Alone'. Confirm with ⬅.
3. ➤ Press ▲ or ▼ repeatedly until the display shows 'WashMacro'. Confirm with ⬅.
4. ➤ Use ▲ or ▼ to select one of the 15 colour macros ('Red' ... 'Cold White') or turn the colour off ('Color Off'). Confirm with ⬅.
5. ➤ Press ▲ or ▼ to select the desired value for the intensity of the colour macro.

The following colour macros are available:

'Color Off'	'Yellow'	'Blue'	'Pink'
'Red'	'Green'	'Lavender'	'Warm White'
'Amber'	'Turquoise'	'Mauve'	'White'
'Yellow warm'	'Cyan'	'Magenta'	'Cold White'

6. ➤ Press ⬅ to accept the selection.

### 7.3.7 Setting dimmer and strobe effect for CW LEDs (WhiteBar)

1. ➤ Press ≡ to activate the main menu.
2. ➤ Press ▲ or ▼ repeatedly until the display shows 'Stand Alone'. Confirm with ⬅.
3. ➤ Press ▲ or ▼ repeatedly until the display shows 'WhiteBar'. Confirm with ⬅.
4. ➤ Press ▲ or ▼ 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
'Strobe'	'AC 0 ... 30Hz'	Strobe effect frequency from slow to fast

5. ➤ Press ⬅ to accept the selection.



### 7.3.8 Setting an individual mixed colour

1. ➤ Press **≡** to activate the main menu.
2. ➤ Press **▲** or **▼** repeatedly until the display shows *'Stand Alone'*. Confirm with **↵**.
3. ➤ Press **▲** or **▼** repeatedly until the display shows *'Manual'*. Confirm with **↵**.
4. ➤ Press **▲** or **▼** to select the desired submenu or the desired value.

The following sub menus are available:

Menu level 3	Menu level 4	Description
<i>'Dimmer'</i>	<i>'000...255'</i>	Dimmer intensity
<i>'Strobe'</i>	<i>'AC 0 ... 30Hz'</i>	Strobe effect frequency from slow to fast
<i>'Red'</i>	<i>'000...255'</i>	Intensity red from 0 % to 100 %
<i>'Green'</i>	<i>'000...255'</i>	Intensity green from 0 % to 100 %
<i>'Blue'</i>	<i>'000...255'</i>	Intensity blue from 0 % to 100 %
<i>'White'</i>	<i>'000...255'</i>	Intensity white from 0 % to 100 %
<i>'WhiteBar'</i>	<i>'000...255'</i>	Intensity WhiteBar from 0 % to 100 %

5. ➤ Press **↵** to accept the selection.

### 7.3.9 Rotating the Display

1. ➤ Press **≡** to activate the main menu.
2. ➤ Press **▲** or **▼** repeatedly until the display shows *'Settings'*. Confirm with **↵**.
3. ➤ Press **▲** or **▼** repeatedly until the display shows *'Display Reverse'*. Confirm with **↵**.
4. ➤ Use **▲** or **▼** to choose between *'On'* (display rotated by 180°) or *'Off'* (display not rotated).
5. ➤ Press **↵** to accept the selection.

### 7.3.10 Display lighting

1. ➤ Press **≡** to activate the main menu.
2. ➤ Press **▲** or **▼** repeatedly until the display shows *'Settings'*. Confirm with **↵**.
3. ➤ Press **▲** or **▼** repeatedly until the display shows *'Display Backlight'*. Confirm with **↵**.
4. ➤ Use **▲** or **▼** to choose between *'On'* (display permanently on) or *'Off'* (display turns off after a few seconds in case of inactivity).
5. ➤ Press **↵** to accept the selection.

### 7.3.11 Behaviour on DMX control failure

1. ➤ Press **≡** to activate the main menu.
2. ➤ Press **▲** or **▼** repeatedly until the display shows *'Settings'*. Confirm with **↵**.
3. ➤ Press **▲** or **▼** repeatedly until the display shows *'DMX Fail'*. Confirm with **↵**.

4. ➤ Use ▲ or ▼ to choose between *'Hold'* (last DMX value is held), *'Blackout'* (spot-light is switched off) or *'ManualMode'* (emergency lighting is turned on) to make the setting to be used if the DMX control fails.
5. ➤ Press ⬅ to accept the selection.

## 7.3.12 Dimmer curve

1. ➤ Press ≡ to activate the main menu.
2. ➤ Press ▲ or ▼ repeatedly until the display shows *'Settings'*. Confirm with ⬅.
3. ➤ Press ▲ or ▼ repeatedly until the display shows *'Dimmer Curve'*. Confirm with ⬅.
4. ➤ Use ▲ or ▼ to select the desired dimmer curve.

Display	Meaning
<i>'Linear'</i>	Linear course
<i>'Exponential'</i>	Exponential course (Square curve with a flat profile at the beginning and a steep profile at the end)
<i>'Logarithmic'</i>	Logarithmic course (Inverted quadratic curve with a steep course at the beginning and a flat course at the end)
<i>'S Curve'</i>	S-curve shaped course (Non-linear curve with a distinctive flat course at the beginning and end)

5. ➤ Press ⬅ to accept the selection.

## 7.3.13 Key lock

1. ➤ Press ≡ to activate the main menu.
2. ➤ Press ▲ or ▼ repeatedly until the display shows *'Settings'*. Confirm with ⬅.
3. ➤ Press ▲ or ▼ repeatedly until the display shows *'AutoLock'*. Confirm with ⬅.
4. ➤ Use ▲ or ▼ to choose between *'On'* (keylock on) and *'Off'* (keylock off).
5. ➤ Press ⬅ to accept the selection.
6. ➤ Simultaneously press ▲ and ▼ for 5 seconds if you want to activate the input while the keylock is activated.

## 7.3.14 Resetting the device to factory defaults

1. ➤ Press ≡ to activate the main menu.
2. ➤ Press ▲ or ▼ repeatedly until the display shows *'Settings'*. Confirm with ⬅.
3. ➤ Press ▲ or ▼ repeatedly until the display shows *'Factory Reset'*.  
⇒ The display shows the message *'Reset Now'*.
4. ➤ Press ⬅ to reset the device to factory default setting.

### 7.3.15 PWM (pulse width modulation)

1. Press **≡** to activate the main menu.
2. Press **▲** or **▼** repeatedly until the display shows *'Settings'*. Confirm with **↵**.
3. Press **▲** or **▼** repeatedly until the display shows *'PWM Rate'*. Confirm with **↵**.
4. Use **▲** or **▼** to choose between *'3000Hz'*, *'6000Hz'*, *'12kHz'* or *'25kHz'*.
5. Press **↵** to accept the selection.

### 7.3.16 Firmware version display

1. Press **≡** to activate the main menu.
2. Press **▲** or **▼** repeatedly until the display shows *'System Info'*. Confirm with **↵**.
3. Press **▲** or **▼** repeatedly until the display shows *'Firmware'*. Confirm with **↵**  
⇒ The current firmware version is displayed.

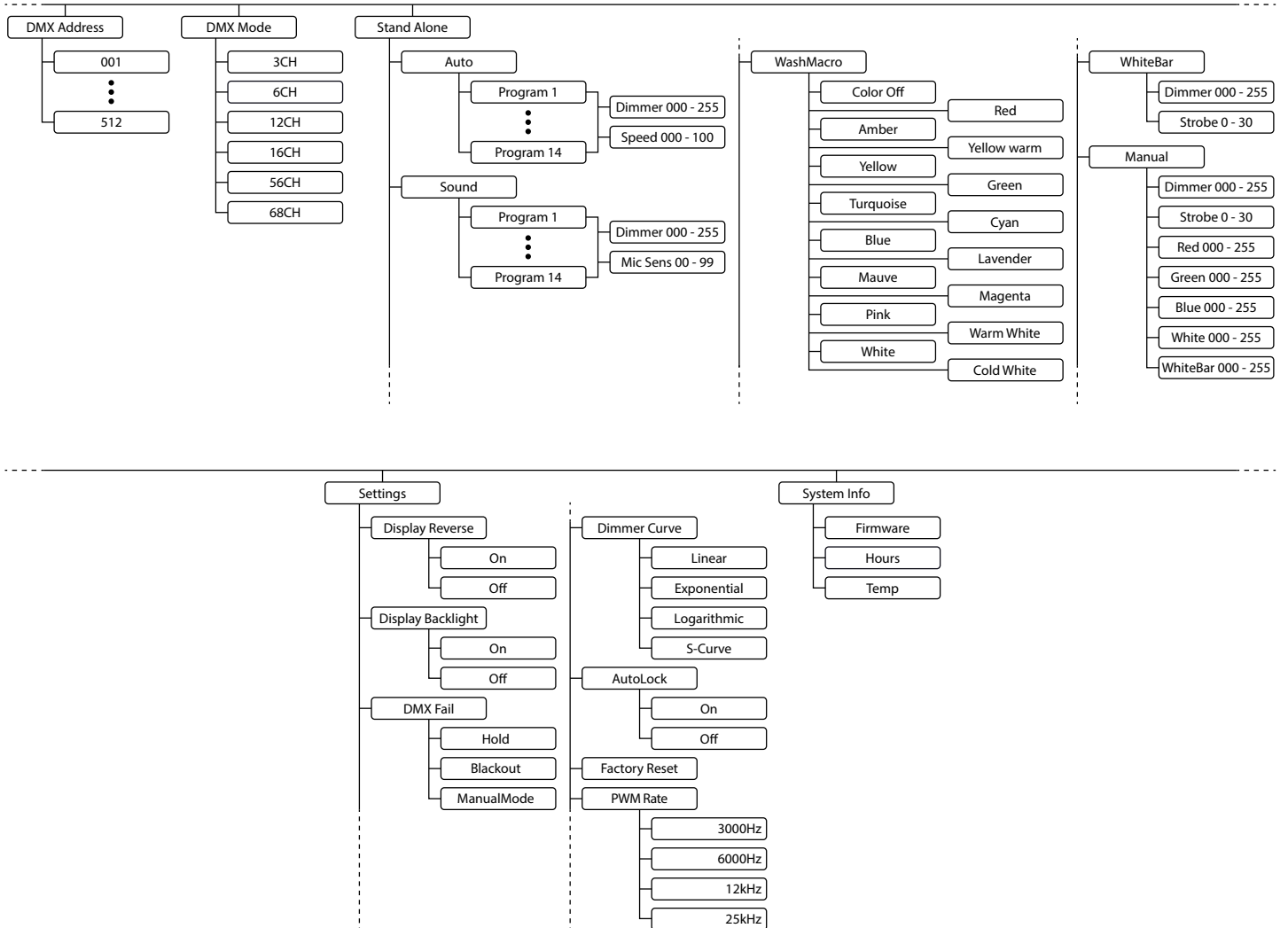
### 7.3.17 Operating hours display

1. Press **≡** to activate the main menu.
2. Press **▲** or **▼** repeatedly until the display shows *'System Info'*. Confirm with **↵**.
3. Press **▲** or **▼** repeatedly until the display shows *'Hours'*. Confirm with **↵**  
⇒ The operation hours of the device are displayed.

### 7.3.18 LED temperature display

1. Press **≡** to activate the main menu.
2. Press **▲** or **▼** repeatedly until the display shows *'System Info'*. Confirm with **↵**.
3. Press **▲** or **▼** repeatedly until the display shows *'Temp'*. Confirm with **↵**  
⇒ The current temperature of the LEDs is displayed.

## 7.4 Menu overview



## 7.5 Functions in 3-channel mode

Channel	LED	Value	Function
1	WhiteBar	000...255	Dimmer (0 % to 100 %)
2	WhiteBar	Strobe	
		000...5	LEDs on
		006...10	LEDs off (blackout)
		011...33	Impulses, increasing speed
		034...56	Randomly increasing brightness, increasing speed
		057...79	Randomly decreasing brightness, increasing speed
		080...102	Random Strobe effect, increasing speed
		103...127	Burst strobe, 5 s to 1 s
		128...250	Strobe effect, increasing speed, from 1 Hz to 20 Hz
		251...255	LEDs on
		3	Wash
000 005	LEDs off (blackout)		
006...013	Red		
014...021	Amber		
022...029	Warm yellow		
030...037	Yellow		
038...045	Green		
046...053	Turquoise		
054...061	Cyan		
062...069	Blue		
070...077	Lavender		
078...085	Mauve		
086...093	Magenta		
094...101	Pink		
102...109	Warm white		
110...117	White		
118...125	Cold white		
126...127	Colour change		
128...192	Colour change from colour 1 to colour 12, speed increasing		
193...255	Gradual colour change from colour 1 to colour 12, speed increasing		

## 7.6 Functions in 6-channel mode

Channel	LED	Value	Function
1	WhiteBar	000...255	Dimmer (0 % to 100 %)
2	WhiteBar	Strobe	
		000...5	LEDs on
		006...10	LEDs off (blackout)
		011...33	Impulses, increasing speed
		034...56	Randomly increasing brightness, increasing speed
		057...79	Randomly decreasing brightness, increasing speed
		080...102	Random Strobe effect, increasing speed
		103...127	Burst strobe, 5 s to 1 s
		128...250	Strobe effect, increasing speed, from 1 Hz to 20 Hz
		251...255	LEDs on
3	Wash	000...255	Dimmer (0 % to 100 %)
4	Wash	Colour macros	
		000 005	LEDs off (blackout)
		006...013	Red
		014...021	Amber
		022...029	Warm yellow
		030...037	Yellow
		038...045	Green
		046...053	Turquoise
		054...061	Cyan
		062...069	Blue
		070...077	Lavender
		078...085	Mauve
		086...093	Magenta
		094...101	Pink
		102...109	Warm white
		110...117	White
		118...125	Cold white
		126...127	Colour change
128...192	Colour change from colour 1 to colour 12, speed increasing		
193...255	Gradual colour change from colour 1 to colour 12, speed increasing		
5	Wash	Patterns	
		000...010	No function
		011...025	Pattern 1

Channel	LED	Value	Function
		026...040	Pattern 2
		041...055	Pattern 3
		056...070	Pattern 4
		071...085	Pattern 5
		086...100	Pattern 6
		101...115	Pattern 7
		116...130	Pattern 8
		131...145	Pattern 9
		146...160	Pattern 10
		161...175	Pattern 11
		176...190	Pattern 12
		191...205	Pattern 13
		206...220	Pattern 14
		221...235	Pattern 15
		236...250	Pattern 16
		251...255	No function
6	Wash	Patterns sequence speed	
		000...255	Change, increasing speed

## 7.7 Functions in 12-channel mode

Channel	LED	Value	Function
1	WhiteBar	000...255	Dimmer (0 % to 100 %)
2	WhiteBar	Strobe	
		000...5	LEDs on
		006...10	LEDs off (blackout)
		011...33	Impulses, increasing speed
		034...56	Randomly increasing brightness, increasing speed
		057...79	Randomly decreasing brightness, increasing speed
		080...102	Random Strobe effect, increasing speed
		103...127	Burst strobe, 5 s to 1 s
		128...250	Strobe effect, increasing speed, from 1 Hz to 20 Hz
		251...255	LEDs on
3	WhiteBar	Constant strobe pulse	
		000...255	Strobe impulse duration, increasing from 7 ms to 650 ms
4	Wash	000...255	Dimmer (0 % to 100 %)
5	Wash	Strobe	
		000...5	LEDs on
		006...10	LEDs off (blackout)
		011...33	Impulses, increasing speed
		034...56	Randomly increasing brightness, increasing speed
		057...79	Randomly decreasing brightness, increasing speed
		080...102	Random Strobe effect, increasing speed
		103...127	Burst strobe, 5 s to 1 s
		128...250	Strobe effect, increasing speed, from 1 Hz to 20 Hz
		251...255	LEDs on
6	Wash	000...255	Intensity red (0 % to 100 %)
7	Wash	000...255	Intensity green (0 % to 100 %)
8	Wash	000...255	Intensity blue (0 % to 100 %)
9	Wash	000...255	Intensity white (0 % to 100 %)
10	Wash	Colour macros (overwrites channel 6 to 9)	
		000 005	LEDs off (blackout)
		006...013	Red
		014...021	Amber
		022...029	Warm yellow
		030...037	Yellow
		038...045	Green



Channel	LED	Value	Function
		046...053	Turquoise
		054...061	Cyan
		062...069	Blue
		070...077	Lavender
		078...085	Mauve
		086...093	Magenta
		094...101	Pink
		102...109	Warm white
		110...117	White
		118...125	Cold white
		126...127	Colour change
		128...192	Colour change from colour 1 to colour 12, speed increasing
		193...255	Gradual colour change from colour 1 to colour 12, speed increasing
11	Wash	Patterns	
		000...010	No function
		011...025	Pattern 1
		026...040	Pattern 2
		041...055	Pattern 3
		056...070	Pattern 4
		071...085	Pattern 5
		086...100	Pattern 6
		101...115	Pattern 7
		116...130	Pattern 8
		131...145	Pattern 9
		146...160	Pattern 10
		161...175	Pattern 11
		176...190	Pattern 12
		191...205	Pattern 13
		206...220	Pattern 14
		221...235	Pattern 15
236...250	Pattern 16		
251...255	No function		
12	Wash	Patterns sequence speed	
		000...255	Change, increasing speed

## 7.8 Functions in 16-channel mode

Channel	LED	Value	Function
1	WhiteBar	000...255	Dimmer (0 % to 100 %)
2	WhiteBar	Strobe	
		000...5	LEDs on
		006...10	LEDs off (blackout)
		011...33	Impulses, increasing speed
		034...56	Randomly increasing brightness, increasing speed
		057...79	Randomly decreasing brightness, increasing speed
		080...102	Random Strobe effect, increasing speed
		103...127	Burst strobe, 5 s to 1 s
		128...250	Strobe effect, increasing speed, from 1 Hz to 20 Hz
		251...255	LEDs on
3	WhiteBar	Constant strobe pulse	
		000...255	Strobe impulse duration, increasing from 7 ms to 650 ms
4	Wash	000...255	Dimmer (0 % to 100 %)
5	Wash	Strobe	
		000...5	LEDs on
		006...10	LEDs off (blackout)
		011...33	Impulses, increasing speed
		034...56	Randomly increasing brightness, increasing speed
		057...79	Randomly decreasing brightness, increasing speed
		080...102	Random Strobe effect, increasing speed
		103...127	Burst strobe, 5 s to 1 s
		128...250	Strobe effect, increasing speed, from 1 Hz to 20 Hz
		251...255	LEDs on
6	Wash	000...255	Intensity red, segment 1...6 (0 % to 100 %)
7	Wash	000...255	Intensity green, segment 1...6 (0 % to 100 %)
8	Wash	000...255	Intensity blue, segment 1...6 (0 % to 100 %)
9	Wash	000...255	Intensity white, segment 1...6 (0 % to 100 %)
10	Wash	000...255	Intensity red, segment 7...12 (0 % to 100 %)
11	Wash	000...255	Intensity green, segment 7...12 (0 % to 100 %)
12	Wash	000...255	Intensity blue, segment 7...12 (0 % to 100 %)
13	Wash	000...255	Intensity white, segment 7...12 (0 % to 100 %)
14	Wash	Colour macros (overwrites channel 6 to 13)	
		000 005	LEDs off (blackout)
		006...013	Red

Channel	LED	Value	Function
		014...021	Amber
		022...029	Warm yellow
		030...037	Yellow
		038...045	Green
		046...053	Turquoise
		054...061	Cyan
		062...069	Blue
		070...077	Lavender
		078...085	Mauve
		086...093	Magenta
		094...101	Pink
		102...109	Warm white
		110...117	White
		118...125	Cold white
		126...127	Colour change
		128...192	Colour change from colour 1 to colour 12, speed increasing
		193...255	Gradual colour change from colour 1 to colour 12, speed increasing
15	Wash	Patterns	
		000...010	No function
		011...025	Pattern 1
		026...040	Pattern 2
		041...055	Pattern 3
		056...070	Pattern 4
		071...085	Pattern 5
		086...100	Pattern 6
		101...115	Pattern 7
		116...130	Pattern 8
		131...145	Pattern 9
		146...160	Pattern 10
		161...175	Pattern 11
		176...190	Pattern 12
		191...205	Pattern 13
		206...220	Pattern 14
		221...235	Pattern 15
		236...250	Pattern 16
		251...255	No function

Channel	LED	Value	Function
16	Wash	Patterns sequence speed	
		000...255	Change, increasing speed

## 7.9 Functions in 56-channel mode

Channel	LED	Value	Function
1	WhiteBar	000...255	Dimmer (0 % to 100 %)
2	WhiteBar	Strobe	
		000...5	LEDs on
		006...10	LEDs off (blackout)
		011...33	Impulses, increasing speed
		034...56	Randomly increasing brightness, increasing speed
		057...79	Randomly decreasing brightness, increasing speed
		080...102	Random Strobe effect, increasing speed
		103...127	Burst strobe, 5 s to 1 s
		128...250	Strobe effect, increasing speed, from 1 Hz to 20 Hz
		251...255	LEDs on
3	WhiteBar	Constant strobe pulse	
		000...255	Strobe impulse duration, increasing from 7 ms to 650 ms
4	Wash	000...255	Dimmer (0 % to 100 %)
5	Wash	Strobe	
		000...5	LEDs on
		006...10	LEDs off (blackout)
		011...33	Impulses, increasing speed
		034...56	Randomly increasing brightness, increasing speed
		057...79	Randomly decreasing brightness, increasing speed
		080...102	Random Strobe effect, increasing speed
		103...127	Burst strobe, 5 s to 1 s
		128...250	Strobe effect, increasing speed, from 1 Hz to 20 Hz
		251...255	LEDs on
6	Wash	Colour macros (overwrites channel 9 to 56)	
		000 005	LEDs off (blackout)
		006...013	Red
		014...021	Amber
		022...029	Warm yellow
		030...037	Yellow
		038...045	Green
		046...053	Turquoise
		054...061	Cyan
		062...069	Blue
		070...077	Lavender

Channel	LED	Value	Function
		078...085	Mauve
		086...093	Magenta
		094...101	Pink
		102...109	Warm white
		110...117	White
		118...125	Cold white
		126...127	Colour change
		128...192	Colour change from colour 1 to colour 12, speed increasing
		193...255	Gradual colour change from colour 1 to colour 12, speed increasing
7	Wash	Patterns	
		000...010	No function
		011...025	Pattern 1
		026...040	Pattern 2
		041...055	Pattern 3
		056...070	Pattern 4
		071...085	Pattern 5
		086...100	Pattern 6
		101...115	Pattern 7
		116...130	Pattern 8
		131...145	Pattern 9
		146...160	Pattern 10
		161...175	Pattern 11
		176...190	Pattern 12
		191...205	Pattern 13
		206...220	Pattern 14
		221...235	Pattern 15
		236...250	Pattern 16
		251...255	No function
8	Wash	Patterns sequence speed	
		000...255	Change, increasing speed
9	Wash	000...255	Intensity red, segment 1 (0 % to 100 %)
10	Wash	000...255	Intensity green, segment 1 (0 % to 100 %)
11	Wash	000...255	Intensity blue, segment 1 (0 % to 100 %)
12	Wash	000...255	Intensity white, segment 1 (0 % to 100 %)
...	...	...	...
53	Wash	000...255	Intensity red, segment 12 (0 % to 100 %)

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<b>Channel</b>	<b>LED</b>	<b>Value</b>	<b>Function</b>
54	Wash	000...255	Intensity green, segment 12 (0 % to 100 %)
55	Wash	000...255	Intensity blue, segment 12 (0 % to 100 %)
56	Wash	000...255	Intensity white, segment 12 (0 % to 100 %)

## 7.10 Functions in 68-channel mode

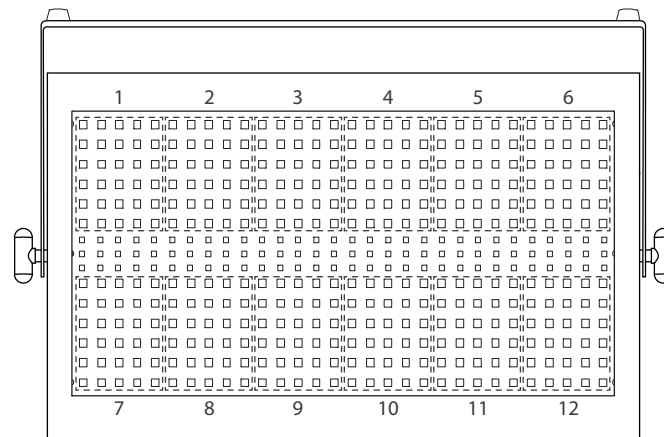
Channel	LED	Value	Function
1	WhiteBar	000...255	Dimmer (0 % to 100 %)
2	WhiteBar	Strobe	
		000...5	LEDs on
		006...10	LEDs off (blackout)
		011...33	Impulses, increasing speed
		034...56	Randomly increasing brightness, increasing speed
		057...79	Randomly decreasing brightness, increasing speed
		080...102	Random Strobe effect, increasing speed
		103...127	Burst strobe, 5 s to 1 s
		128...250	Strobe effect, increasing speed, from 1 Hz to 20 Hz
		251...255	LEDs on
		3	WhiteBar
000...255	Strobe impulse duration, increasing from 7 ms to 650 ms		
4	Wash	000...255	Dimmer (0 % to 100 %)
5	Wash	Strobe	
		000...5	LEDs on
		006...10	LEDs off (blackout)
		011...33	Impulses, increasing speed
		034...56	Randomly increasing brightness, increasing speed
		057...79	Randomly decreasing brightness, increasing speed
		080...102	Random Strobe effect, increasing speed
		103...127	Burst strobe, 5 s to 1 s
		128...250	Strobe effect, increasing speed, from 1 Hz to 20 Hz
		251...255	LEDs on
		6	Wash
000 005	LEDs off (blackout)		
006...013	Red		
014...021	Amber		
022...029	Warm yellow		
030...037	Yellow		
038...045	Green		
046...053	Turquoise		
054...061	Cyan		
062...069	Blue		
070...077	Lavender		



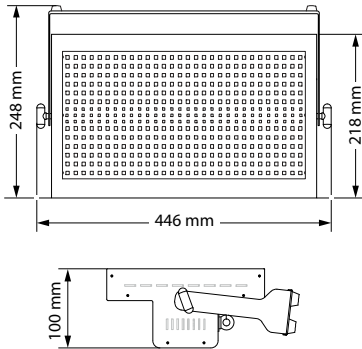
Channel	LED	Value	Function
		078...085	Mauve
		086...093	Magenta
		094...101	Pink
		102...109	Warm white
		110...117	White
		118...125	Cold white
		126...127	Colour change
		128...192	Colour change from colour 1 to colour 12, speed increasing
		193...255	Gradual colour change from colour 1 to colour 12, speed increasing
7	Wash	Dimmer patterns	
		000...010	No function
		011...025	Pattern 1
		026...040	Pattern 2
		041...055	Pattern 3
		056...070	Pattern 4
		071...085	Pattern 5
		086...100	Pattern 6
		101...115	Pattern 7
		116...130	Pattern 8
		131...145	Pattern 9
		146...160	Pattern 10
		161...175	Pattern 11
		176...190	Pattern 12
		191...205	Pattern 13
		206...220	Pattern 14
		221...235	Pattern 15
		236...250	Pattern 16
		251...255	No function
8	Wash	Running speed dimmer patterns	
		000...255	Change, increasing speed
9	Wash	000...255	Dimmer, segment 1 (0 % to 100 %)
10	Wash	000...255	Intensity red, segment 1 (0 % to 100 %)
11	Wash	000...255	Intensity green, segment 1 (0 % to 100 %)
12	Wash	000...255	Intensity blue, segment 1 (0 % to 100 %)
13	Wash	000...255	Intensity white, segment 1 (0 % to 100 %)
...	...	...	...

Channel	LED	Value	Function
64	Wash	...	Dimmer, segment 12 (0 % to 100 %)
65	Wash	000...255	Intensity red, segment 12 (0 % to 100 %)
66	Wash	000...255	Intensity green, segment 12 (0 % to 100 %)
67	Wash	000...255	Intensity blue, segment 12 (0 % to 100 %)
68	Wash	000...255	Intensity white, segment 12 (0 % to 100 %)

## LED segments



## 8 Technical specifications



Light source	90 × CW LED SMD 3535, 1 W (Strobe)	
	360 × RGBW LED SMD 5050, 0.3 W (Wash)	
Properties of the CW LEDs SMD 3535	Colour temperature	8000 K
	Colour rendering index	CRI >70
Optical properties	Beam angle	120°
Control	DMX, buttons and display on the unit	
Number of DMX channels	3, 6, 12, 16, 56 or 68	
Input connections	Voltage supply	Lockable input socket (Power Twist)
	DMX control	XLR chassis plug, 3-pin
		XLR chassis plug, 5-pin
Output connections	Power supply for further devices	Lockable output socket (Power Twist)
	DMX control	XLR chassis socket, 3-pin
		XLR chassis socket, 5-pin
Power consumption	250 W	
Operating supply voltage	100 - 240 V ~ 50/60 Hz	
Fuse	5 mm × 20 mm, 2 A, 250 V, fast-acting	
Flash rate	0 Hz...20 Hz	
Protection class	IP20	
Mounting options	hanging, standing	
Dimensions (W × H × D)	446 mm × 248 mm × 100 mm	
Weight	5.5 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20 %...80 % (non-condensing)

### Further information

Colour mixture	white
Housing	Metal
Cooling	Fan
Colour	Black

## 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!

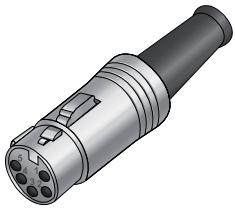
### DMX connections



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')

### DMX connections



A five-pin XLR socket serves as DMX output, a five-pin XLR plug serves 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')
4	unused / second connection (DMX-)
5	unused / second connection (DMX+)

## 10 Troubleshooting



**NOTICE!**

**Possible data transmission errors**

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

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

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
The unit does not work, no light, the display is dark	1. Check the mains connection and the main fuse.
	2. Check the settings in manual mode.
No response to the DMX controller	1. Check whether the DMX controller is switched on. Check the DMX connectors and cables for proper connection.
	2. Check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check whether the DMX cables run near or parallel to high-voltage cables that may cause damage or interference to a DMX interface circuit.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at [www.thomann.de](http://www.thomann.de).

# 11 Cleaning

### Device components

Clean the device components that are accessible from the outside regularly. The cleaning frequency depends on the operating environment: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the device components.

- Clean with a dry soft cloth.
- Stubborn dirt can be removed with a slightly dampened cloth.
- Never use solvents or alcohol for cleaning.

## 12 Protecting the environment

### Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

### Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.











