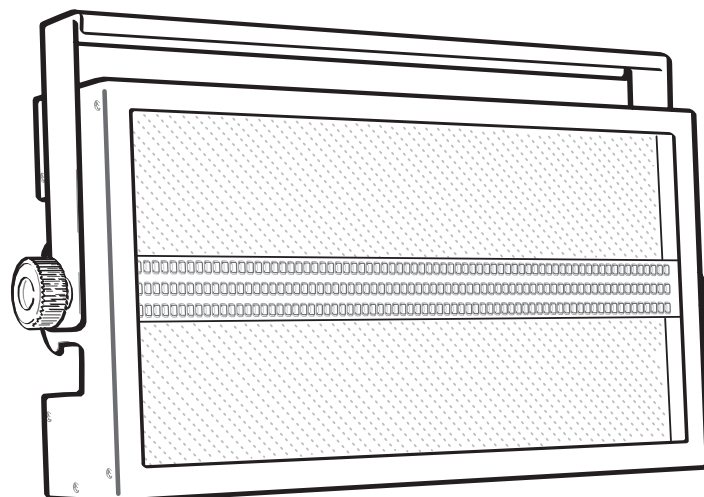


# eurolite® LED SUPER STROBE ABL

DMX Strobe with RGB

Bedienung    Anleitung  
User Manu    I



eurolite®

## LED Super Strobe ABL

3in1-LED-Lichteffektgerät mit RGB-Farbmischung  
3in1 LED effect light with RGB color mixing



No. 52200920

[www.eurolite.de](http://www.eurolite.de)

## USER MANUAL

# eurolite®

## LED Super Strobe ABL

**DANGER! Electric shock caused by short-circuit**

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching the wires. Never open the housing. Keep the device away from rain and moisture.



Please read these instructions carefully before using the product. They contain important information for the correct use of the product.

Every person involved with the installation, operation and maintenance of this device has to

- be qualified
- follow the instructions of this manual
- consider this manual to be part of the total product
- keep this manual for the entire service life of the product
- pass this manual on to every further owner or user of the product
- download the latest version of the user manual from the Internet

### INTRODUCTION

Thank you for having chosen one of our products. If you follow the instructions given in this manual, we are sure that you will enjoy this device for a long period of time.

### *Product features*

**3in1 LED effect light with threefold effects**

- 3 effects in one device: strobe, blinder and wash light
- 144 RGB LEDs, SMD 5050
- 216 cold white LEDs, SMD 5730
- RGB LEDs controllable in 1 or 48 segments depending on the DMX mode
- RGB and cold white LEDs are in DMX mode controllable separately
- Auto, music, master/slave and DMX mode
- 17 built-in auto and music chase programs
- Flash rate 20 Hz
- Stepless RGB color mixing
- Flicker-free projection
- Dimmer
- Addressing and setting via control panel with 4-digit LED display
- Sound-control via built-in microphone with adjustable microphone sensitivity
- DMX512 control possible via any commercial DMX controller
- 7, 13, 22 or 148 DMX channels selectable
- Swivel mounting bracket
- Power connection via P-Con jack and included power cable with safety plug
- Feed-through output allows to power up to 8 devices

## SAFETY INSTRUCTIONS

**WARNING!**

Please read the safety warnings carefully and only use the product as described in this manual to avoid accidental injury or damage.

**Intended use**

- This device is an LED strobe for creating decorative lighting effects. This device is designed for professional use in the field of event technology, e.g. on stage. It is not suitable for household lighting.
- Only use the device according to the instructions given herein. Damages due to failure to follow these operating instructions will void the warranty! We do not assume any liability for any resulting damage.
- We do not assume any liability for material and personal damage caused by improper use or non-compliance with the safety instructions. In such cases, the warranty/guarantee will be null and void.
- Unauthorized rebuilds or modifications of the device are not permitted for reasons of safety and render the warranty invalid.


**Danger due to electricity**

- The device is suitable for indoor use only. Do not use it outdoors. Never expose it to rain or moisture. Do not store it in rooms exposed to moisture.
- To reduce the risk of electric shock, do not open any part of the device. There are no serviceable parts inside the device.
- Only connect the device to a properly installed mains outlet. The outlet must be protected by residual current breaker (RCD). The voltage and frequency must exactly be the same as stated on the device. If the mains cable is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never defeat the protective ground of a mains cable. Failure to do so could result in damage to the device and possibly injure the user.
- The mains outlet must be easily accessible so that you can unplug the device quickly if need be.
- Never touch the mains plug with wet or damp hands. There is the risk of potentially fatal electric shock.
- The mains cable must not be bent or squeezed. Keep it away from hot surfaces or sharp edges.
- Never pull the mains cable to disconnect the mains plug from the mains outlet, always seize the plug.
- Unplug the device during lightning storms, when unused for long periods of time or before cleaning.
- Do not expose the device to any high temperatures, direct sunlight, dripping or splashing water, strong vibrations or heavy mechanical stress.
- Do not place any objects filled with liquids on the device.
- Do not place any open sources of fire, such as burning candles, on or directly next to the device.
- Make sure that objects cannot fall into the device, in particular metal parts.
- Only have repairs to the device or its mains cable carried out by qualified service personnel. Repairs are required when the device or the mains cable is visibly damaged, liquid has been spilled or objects have fallen into the device; when the device has been exposed to rain or moisture, has been dropped or malfunctions occur.
- Cleaning of the device is limited to the surface. Make sure that moisture does not come into contact with any areas of the terminal connections or mains voltage control parts. Only wipe off the product with a soft lint-free and moistened cloth. Never use solvents or aggressive detergents.

**Danger to children and people with restricted abilities**

- This product is not a toy. Keep it out of the reach of children and pets. Do not leave packaging material lying around carelessly. Never leave this device running unattended.
- 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.

**Warning – risk of burns and fire**

- The admissible ambient temperature range (Ta) is -5 to +45°C. Do not operate the device outside of this temperature range.
- The housing temperature (Tc) can be up to 60°C during use. Avoid contact by persons and materials.
- Do not illuminate surfaces within 10 cm of the device. This value is indicated on the device by the  symbol.
- Do not use the device near highly flammable materials. Always place the device at a location where sufficient air circulation is ensured. Leave 50 cm of free space around the device. Never cover the air vents of the housing.

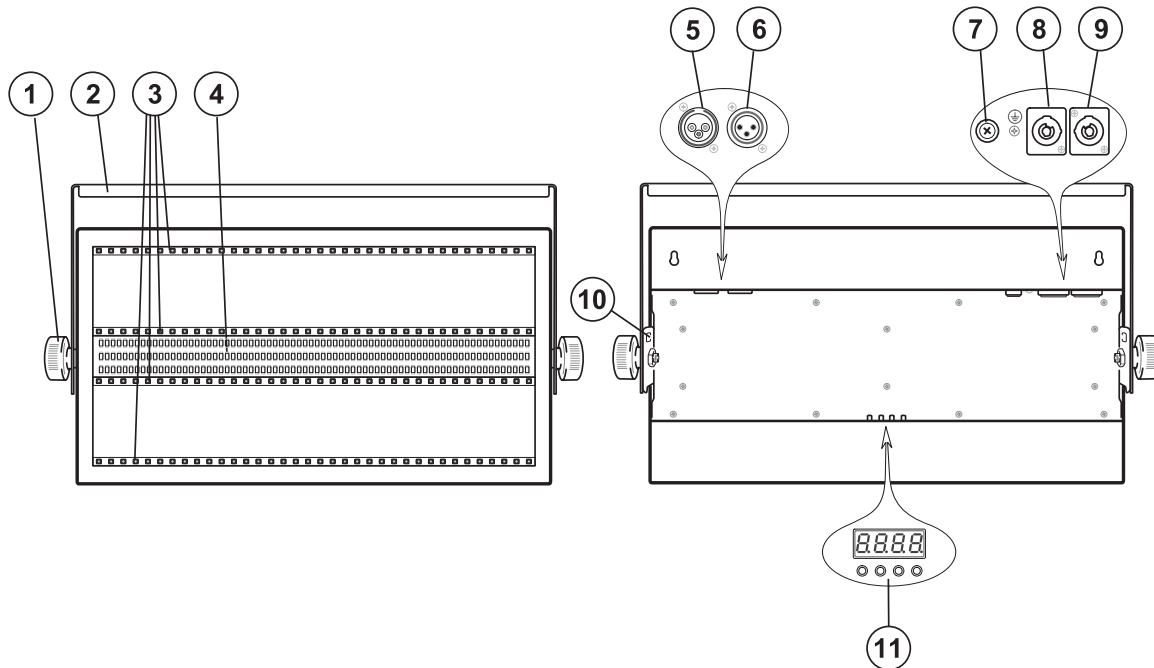
**Warning – risk of injuries**

- Do not look directly at the light source. Persons with light-sensitive epilepsy may suffer from epileptic seizures or fall unconscious.
- Make sure that the product is set up or installed safely and expertly and prevented from falling down. Comply with the standards and rules that apply in your country, in particular EN 60598-2-17.
- If you lack the qualification, do not attempt the installation yourself, but instead use a professional installer. Improper installation can result in bodily injury and or damage to property.
- The manufacturer cannot be made liable for damages caused by incorrect installations or insufficient safety precautions.
- For overhead use, always secure the device with a secondary safety attachment such as a safety bond or safety net.
- Make sure that the area below the installation place is blocked when rigging, derigging or servicing the device.
- For commercial use the country-specific accident prevention regulations of the government safety organization for electrical facilities must be complied with at all times.

**Caution – material damage**

- This device must not be connected to the mains voltage by means of a dimmer.
- Lighting effects are not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- Never switch the device on and off at short intervals. This will considerably reduce the service life of the device.
- If the device has been exposed to drastic temperature fluctuation, do not switch it on immediately. The resulting condensation may destroy the device. Allow the device to reach room temperature before connecting it. Wait until the condensation has evaporated.
- Please use the original packaging to protect the device against vibration, dust and moisture during transportation or storage.
- If a serial number label is affixed to the device, do not remove the label as this would make the guarantee void.

## DESCRIPTION OF THE DEVICE



- |                        |  |
|------------------------|--|
| (1) Fixation screw     | (7) Fuse                               |
| (2) Mounting bracket   | (8) Power output                       |
| (3) SMD 5050, RGB LEDs | (9) Power input                        |
| (4) SMD 5730, CW LEDs  | (10) Safety rope fixture               |
| (5) DMX input          | (11) LED display and operating buttons |
| (6) DMX output         |  |

## INSTALLATION



### **WARNING! Risk of injury caused by falling objects**

Devices in overhead installations may cause severe injuries when crashing down. Make sure that the device is installed securely and cannot fall down. The installation must be carried out by a specialist who is familiar with the hazards and the relevant regulations.

The device may be placed on the floor or fastened to a truss or similar rigging structure. The device must never be fixed swinging freely in the room.

- 1 The rigging structure must support at least 10 times the weight of all fixtures to be installed on it.
- 2 Block access below the work area and work from a stable platform when installing the device.
- 3 Use rigging hardware that is compatible with the structure and capable of bearing the weight of the device. Please refer to the "Accessories" section for a list of suitable rigging hardware.
- 4 Secure the device with a safety bond or other secondary attachment. This secondary safety attachment must be sufficiently dimensioned in accordance with the latest industrial safety regulations and constructed in a way that no part of the installation can fall down if the main attachment fails. Use the hole in the bracket for fixation of the safety bond. Fasten the safety bond in such a way that, in the event of a fall, the maximum drop distance of the device will not exceed 20 cm.
- 5 To align the device, release the fixation screws at the mounting bracket, adjust the desired inclination angle and tighten the fixation screws.
- 6 After installation, the device requires inspections periodically to prevent the possibility of corrosion, deformation and looseness.

## CONNECTIONS

### **DMX512 control**

A DMX512 data link is required in order to control the device via DMX. The device provides 3-pin XLR connectors for DMX connection.

- 1 Connect the output of your DMX controller to the DMX input DMX IN of the device with a DMX cable.
- 2 Connect the DMX output DMX OUT of the device to the DMX input of the next unit in the chain. Always connect one output to the input of the next unit until all units are connected.
- 3 At the last unit, the DMX cable has to be terminated. Plug the terminator with a 120  $\Omega$  resistor between Signal (-) and Signal (+) in the DMX output of the last unit.
- 4 If the cable length exceeds 300 m or the number of DMX devices is greater than 32, it is recommended to insert a DMX level amplifier to ensure proper data transmission.

XLR connection:



### **Connection to the mains**

The device uses an auto-range power supply that accepts input voltages between 100 und 240 volts.

- 1 Connect the device via the mains cable to a grounded mains socket. Thus the unit is switched on.
- 2 To switch off the unit, disconnect the power plug.
- 3 Do not connect the unit to the mains voltage via a dimmer. For a more convenient operation, use a mains outlet which is switchable.

### **Power supply of further devices**

The jack POWER OUT allows for power supply of further devices. To interconnect several devices, connect the jack POWER OUT to the input POWER IN of the next unit until all units are connected. Matching power cables with IEC plugs are available as accessories. In this manner, up to 8 devices can be linked at 230/240 input voltage and up to 4 devices at 110/115 input voltage.

## OPERATION

After connecting the device to the mains it is ready for operation. The display indicates the last operating mode. The operating modes can be selected by means of the display and the control buttons. All settings remain stored even if the device is disconnected from the mains. The device can be operated in stand-alone mode via the control board or in DMX-controlled mode via any commercial DMX controller.

### Menüstruktur

Modus		Anzeige	Funktion
<b>DMX start address</b>	Addr	A001 – A512	<b>DMX start address</b>
<b>DMX channel mode</b>	**CH	148CH	148-channel mode
		22CH	22-channel mode
		13CH	13-channel mode
		7CH	7-channel mode
<b>Master/Slave mode</b>	SLNA	SLNA	Master/Slave mode
<b>Sound control</b>	SoUn	So – 0-16	Program 0-16
		SE 00-99	Microphone sensitivity low > high
<b>Automatic mode</b>	Auto	Au – 0-16	Program 0-16
		SP 00-99	Program running speed slow > fast
<b>LED</b>	LED	ON/OFF	<b>Display shutoff</b> Shuts off the display after about 30 seconds
<b>Display</b>	DISP		<b>Display setting</b> With this function you can to turn the display at 180° upside down
<b>Version</b>	Ver	V11	Software Version

### Stand-alone mode

#### Interconnecting several devices (master/slave operation)

Several devices may be interconnected (max. 32). Then all slave units can be synchronized and controlled with the master unit without the need for a DMX controller. The devices must be set to the corresponding operating modes.

- 1 Configure all slave units before connecting the master unit: Press the **MENU** button so many times until **SLNA** is indicated in the display. Confirm with the **ENTER** button.
- 2 Connect the DMX output of the master unit to the DMX input of the first slave unit. Then connect the DMX output of the first slave unit to the DMX input of the second slave unit, etc. until all units have been connected in a chain. Do not connect a DMX controller to the DMX input of the master unit.
- 3 Set the master unit to the desired operating mode. The interconnected devices will now operate in synchronously.

#### Sound control

Via the integrated microphone the unit can perfectly reproduce the show programs to the rhythm of the music (sufficient bass provided).

- 1 Press the **MENU** button so many times until **SoUn** is indicated in the display. Confirm with the **ENTER** button. Use the buttons **UP** and **DOWN (So0 – So16)** to select the desired show program. Confirm with the **ENTER** button.
- 2 Press the **MENU** button so many times until **SE** is indicated in the display. Confirm with the **ENTER** button. Use the buttons **UP** and **DOWN** to Adjust the microphone sensitivity to the volume of the music (**SE 00** = low, **SE 99** = high).

### Automatic mode

In automatic mode, 17 show programs are available that run at an adjustable speed.

- 1 Press the **MENU** button so many times until **Auto** is indicated in the display. Confirm with the **ENTER** button. Use the buttons **UP** and **DOWN** (Au0 – Au16) to select the desired show program. Confirm with the **ENTER** button.
- 2 The display then shows the **SP** function. Confirm with the **ENTER** button. Use the buttons **UP** and **DOWN** to adjust the running speed of the program from **SP 00** (slow) to **SP 99** (fast). Confirm with the **ENTER** button.

### Display shutoff

Shuts off the display after about 30 seconds.

### Display-setting

With this function you can to turn the display upside down.

## DMX operation

### Setting the number of DMX channels and the DMX starting address

For operation with a controller with DMX512 protocol, the device is equipped with 148 control channels. However, it can also be switched to a mode with 7, 13, or 22 channels if different functions are required. To be able to operate the device with a DMX controller, the DMX starting address must be set. The starting address depends upon which DMX controller is being used. Please refer to the controller's documentation.

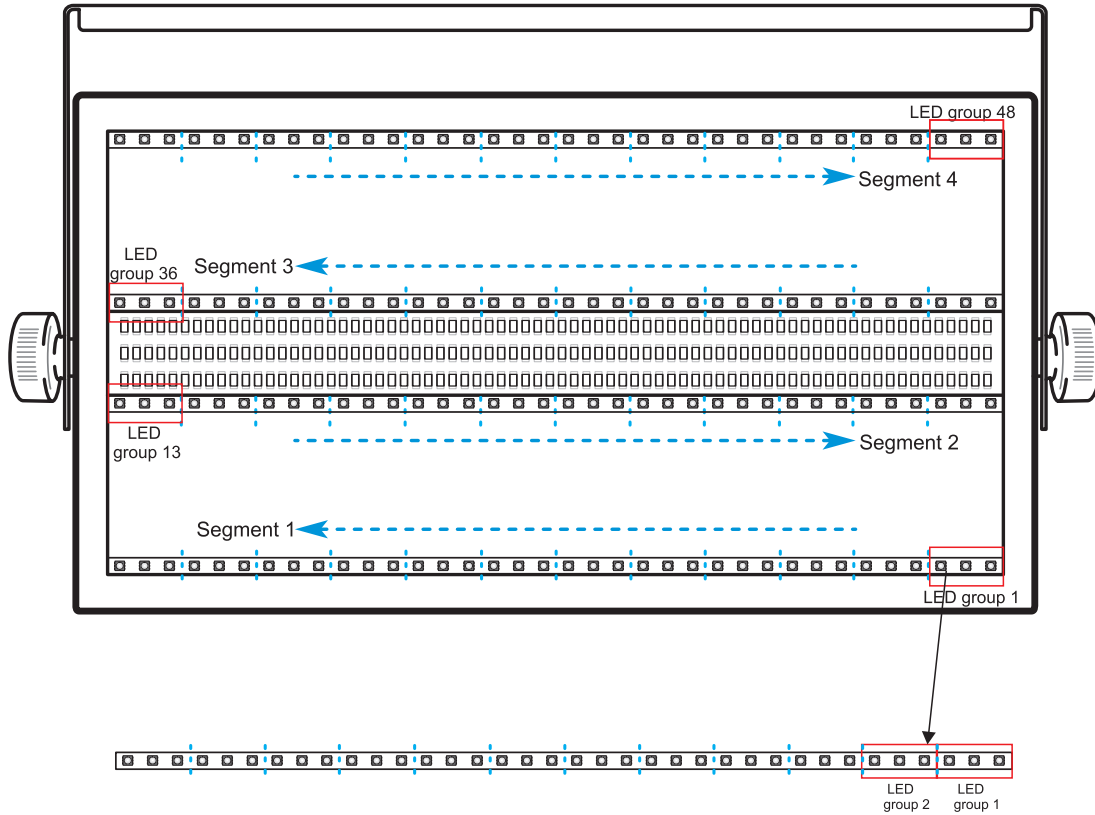
- 1 Press the **MENU** button so many times until **Addr** is indicated in the display. Confirm with the **ENTER** button.
- 2 The display indicates **A\*\*\***. Use the buttons **UP** and **DOWN** to set the address. Confirm with the **ENTER** button.
- 3 Now the display indicates the menu item for the DMX starting address **d\*\*\***. Use the buttons **UP** and **DOWN** to set the address. Confirm with the **ENTER** button.
- 4 Now set the DMX channel mode. Press the **MENU** button repeatedly until the display shows **\*\*CH** mode. Use the **UP** and **DOWN** buttons to select the desired DMX channel mode. Press **ENTER** to confirm.
- 5 A dot will flash when DMX signals are being received. If no control signals are available, the display will flash.

Note: Please make sure that you do not have any overlapping channels in order to control each device correctly and independently from any other fixture on the DMX chain. If several devices are addressed similarly, they will work synchronically.



The RGB LEDs of the device are separated into 4 segments in 22 channel mode and into 48 groups in 148 channel mode (see graphic), which can be individually controlled with the following DMX-protocol

DMX channel mode 22 + 148



Functions in DMX mode

7-channel mode

Channel	Value	Function
1 Dimmer SMD 5730	000 – 255	Total brightness 0-100%
2 Strobe SMD 5730	000 – 008	No function
	009 – 255	Strobe effect with increasing speed, 0-100%
3 Dimmer SMD 5050	000 – 255	Total brightness 0-100%
4 Strobe SMD 5050	000 – 008	No function
	009 – 255	Strobe effect with increasing speed, 0-100%
5 SMD 5050	000 – 255	Red 0-100%
6 SMD 5050	000 – 255	Green 0-100%
7 SMD 5050	000 – 255	Blue 0-100%

## 13-channel mode

Channel	Value	Function
<b>1</b> Dimmer SMD 5730	000 – 255	Total brightness 0-100%
<b>2</b> Strobe SMD 5730	000 – 008	No function
	009 – 255	Strobe effect with increasing speed, 0-100%
<b>3</b> SMD 5730	000 – 255	Flash during
<b>4</b> Dimmer SMD 5050	000 – 255	Total brightness 0-100%
<b>5</b> Strobe SMD 5050	000 – 008	No function
	009 – 255	Strobe effect with increasing speed, 0-100%
<b>6</b> SMD 5050	000 – 255	Red 0-100%
<b>7</b> SMD 5050	000 – 255	Green 0-100%
<b>8</b> SMD 5050	000 – 255	Blue 0-100%
<b>9</b> Automatic programs 16 effects SMD 5050	000 – 007	No function
	008 – 022	Program 1
	023 – 037	Program 2
	038 – 052	Program 3
	053 – 082	Program 4
	083 – 097	Program 5
	098 – 112	Program 6
	113 – 127	Program 7
	128 – 142	Program 8
	143 – 157	Program 9
	158 – 172	Program 10
	173 – 187	Program 11
	188 – 202	Program 12
	203 – 217	Program 13
	218 – 232	Program 14
	233 – 247	Program 15
248 – 255	Program 16	
<b>10</b> SMD 5050	000 – 255	Automatic programs with increasing speed
<b>11</b> Color presets SMD 5050	000 – 007	No function
	008 – 255	Color preset, 16 automatic programs
<b>12</b> SMD 5050 Background color	016 – 255	Automatic program
		R
		G
		B
		RG
		RB
		GB
RGB		
<b>13</b> SMD 5050	000 – 127	Change of direction (down to up)
	128 – 255	Change of direction (up to down)

## 22-channel mode

Channel	Value	Function	
<b>1</b> Dimmer SMD 5730	000 – 255	Total brightness 0-100%	
<b>2</b> Strobe SMD 5730	000 – 008	No function	
	009 – 255	Strobe effect with increasing speed, 0-100%	
<b>3</b> SMD 5730	000 – 255	Flash duration	
<b>4</b> Dimmer SMD 5050	000 – 255	Total brightness 0-100%	
<b>5</b> Strobe SMD 5050	000 – 008	No function	
	009 – 255	Strobe effect with increasing speed, 0-100%	
<b>6</b> SMD 5050	000 – 255	Red 0-100%	Segment 1
<b>7</b> SMD 5050	000 – 255	Green 0-100%	
<b>8</b> SMD 5050	000 – 255	Blue 0-100%	
<b>9</b> SMD 5050	000 – 255	Red 0-100%	Segment 2
<b>10</b> SMD 5050	000 – 255	Green 0-100%	
<b>11</b> SMD 5050	000 – 255	Blue 0-100%	
<b>12</b> SMD 5050	000 – 255	Red 0-100%	Segment 3
<b>13</b> SMD 5050	000 – 255	Green 0-100%	
<b>14</b> SMD 5050	000 – 255	Blue 0-100%	
<b>15</b> SMD 5050	000 – 255	Red 0-100%	Segment 4
<b>16</b> SMD 5050	000 – 255	Green 0-100%	
<b>17</b> SMD 5050	000 – 255	Blue 0-100%	
<b>18</b> Automatic program 16 effects SMD 5050	000 – 007	No function	
	008 – 022	Program 1	
	023 – 037	Program 2	
	038 – 052	Program 3	
	053 – 082	Program 4	
	083 – 097	Program 5	
	098 – 112	Program 6	
	113 – 127	Program 7	
	128 – 142	Program 8	
	143 – 157	Program 9	
	158 – 172	Program 10	
	173 – 187	Program 11	
	188 – 202	Program 12	
	203 – 217	Program 13	
	218 – 232	Program 14	
	233 – 247	Program 15	
248 – 255	Program 16		
<b>19</b> SMD 5050	000 – 255	Automatic programs with increasing speed	

<b>20</b> <b>Color presets</b> <b>SMD 5050</b>	000 – 007	No function
	008 – 255	Color preset, 16 automatic programs
<b>21</b> <b>SMD 5050</b> <b>Background</b> <b>color</b>	000 – 015	Automatic program
	016 – 255	R
		G
		B
		RG
		RB
		GB
<b>22</b> <b>SMD 5050</b>	000 – 127	Change of direction (down to up)
	127 – 255	Change of direction (up to down)

**148-channel mode**

<b>Channel</b>	<b>Value</b>	<b>Function</b>	
<b>1</b> <b>Dimmer</b> <b>SMD 5730</b>	000 – 255	Total brightness 0-100%	
<b>2</b> <b>Strobe</b> <b>SMD 5730</b>	000 – 008	No function	
	009 – 255	Strobe effect with increasing speed, 0-100%	
<b>3</b> <b>Dimmer</b> <b>SMD 5050</b>	000 – 255	Total brightness 0-100%	
<b>4</b> <b>Strobe</b> <b>SMD 5050</b>	000 – 008	No function	
	009 – 255	Strobe effect with increasing speed, 0-100%	
<b>5</b> <b>SMD 5050</b>	000 – 255	Red 0-100%	LED group 1
<b>6</b> <b>SMD 5050</b>	000 – 255	Green 0-100%	
<b>7</b> <b>SMD 5050</b>	000 – 255	Blue 0-100%	
<b>8</b> <b>SMD 5050</b>	000 – 255	Red 0-100%	LED group 2
<b>9</b> <b>SMD 5050</b>	000 – 255	Green 0-100%	
<b>10</b> <b>SMD 5050</b>	000 – 255	Blue 0-100%	
---	---	-----	
---	---	-----	
---	---	-----	
<b>146</b> <b>SMD 5050</b>	000 – 255	Red 0-100%	LED group 48
<b>147</b> <b>SMD 5050</b>	000 – 255	Green 0-100%	
<b>148</b> <b>SMD 5050</b>	000 – 255	Blue 0-100%	

## CLEANING AND MAINTENANCE

The outside of the device should be cleaned periodically to remove contaminants such as dust etc. The lenses, in particular, should be clean to ensure that light will be emitted at maximum brightness.

- 1 Disconnect the device from power and allow it to cool before cleaning.
- 2 Clean the surface with a soft lint-free and moistened cloth. Never use alcohol or solvents as these may damage the surface. Make sure that no liquids can enter the device.
- 3 The device must be dry before reapplying power.

There are no serviceable parts inside. Do not open the housing. Do not try to repair the device by yourself as this may result in damage. Maintenance and service operations are only to be carried out by authorized dealers. Should you need any spare parts, please use genuine parts. Should you have further questions, please contact your dealer.

### Replacing the fuse

If the fine-wire fuse of the device fuses, only replace the fuse by a fuse of same type and rating.

- 1 Disconnect the device from power and allow it to cool.
- 2 Open the fuse holder of the mains connection with a fitting screwdriver.
- 3 Remove the old fuse from the fuse holder and replace it with a new fuse.
- 4 Carefully push the fuse holder back into its position before reapplying power.

## PROTECTING THE ENVIRONMENT



### Disposal of old equipment

When to be definitively put out of operation, take the product to a local recycling plant for a disposal which is not harmful to the environment. Devices marked with this symbol must not be disposed of as household waste. Contact your retailer or local authorities for more information.



Remove any inserted batteries and dispose of them separately from the product.



You as the end user are required by law (Battery Ordinance) to return all used batteries/rechargeable batteries. Disposing of them in the household waste is prohibited. You may return your used batteries free of charge to collection points in your municipality and anywhere where batteries/rechargeable batteries are sold. By disposing of used devices and batteries correctly, you contribute to the protection of the environment.

## TECHNICAL SPECIFICATIONS

Power supply:	100-240 V AC, 50/60 Hz
Power consumption:	95 W
Protection class:	Protection class I
Power connection:	Mains input via P-Con (blue), mounting version power supply cord with safety plug (provided)
Power output:	P-Con (gray), mounting version
Fuse:	5 x 20 mm, F 2 A Fuse replaceable
LED:	216 x 0,5 W SMD 5730 cold white (CW) 144 x SMD 5050 3in1 TCL RGB (homogenous color mix)
DMX channels:	7; 13; 22; 148
DMX input:	1 x 3-pin XLR (M) mounting version
DMX output:	1 x 3-pin XLR (F) mounting version
Control:	Master/slave function; DMX; stand-alone; Light'J; LED PC-Control 512; EASY SHOW 1; Light Captain; Sound to light
Beam angle (1/2 peak):	120°
Attachment system:	Mounting bracket
Display type:	4 digits 7-segment LED display
Dimensions:	Width: 45.5 cm
	Depth: 8.5 cm
	Height: 25.5 cm
Weight:	4.3 kg

### Accessories

EUROLITE TPC-10 Coupler, silver	No. 59006856
EUROLITE Safety Bond A 3x600mm up to 5kg, silver	No. 58010310
EUROLITE DMX cable XLR 3pin 3m black	No. 3022785H
PSSO DMX cable XLR 3pin 3m black Neutrik	No. 30227810
PSSO PowerCon Connection Cable 3x1.5 3m	No. 3023503R

All information is subject to change without prior notice. © 09.05.2023