

USER'S MANUAL
BEDIENUNGSANLEITUNG
MANUEL D'UTILISATION
MANUAL DE USUARIO
INSTRUKCJA OBSŁUGI
MANUALE D' USO



ROOT[®] BAR 6

16 X 12 W RGBAW + UV-LED BAR
CLR00TBAR6

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ENGLISH

You have made the right choice!

This device has been developed and manufactured to the highest quality standards to ensure many years of trouble-free operation. Please read this user manual carefully to be able to quickly put your new Cameo Light product to optimum use. Further information about Cameo Light is available on our website: **CAMEOLIGHT.COM**

INFORMATION ON THIS USER MANUAL

- Carefully read the safety instructions and the entire manual before operating the device.
- Observe the warnings on the device and in the user manual.
- Always keep the user manual within reach.
- If you sell or pass on the device, it is important that you also include this user manual, as it is an integral part of the product.

INTENDED USE

This product is a device for event technology!

This product has been developed for professional use in the field of event technology and is not suitable for use as domestic lighting!

Temporary operation! Event equipment is generally designed for temporary use only and not for continuous operation and fixed installation!

Furthermore, this product is only intended for qualified users with specialist knowledge of event technology!

Use of the product outside the specified technical data and operating conditions is considered improper use!

Liability is exempted when damage and third-party damage to persons and property is caused by inappropriate use!

The product is not suitable for:

- Persons (including children) with limited physical, sensory, or mental abilities or lack of experience and knowledge.
- Children (children must be instructed not to play with the device).

EXPLANATIONS OF TERMS AND SYMBOLS

1. **DANGER:** The word DANGER, possibly in combination with a symbol, indicates immediately hazardous situations or conditions for life and limb.
2. **WARNING:** The word WARNING, possibly in combination with a symbol, indicates potentially hazardous situations or conditions for life and limb.
3. **CAUTION:** The word CAUTION, possibly in combination with a symbol, indicates situations or conditions that may lead to injury.
4. **ATTENTION:** The word ATTENTION, possibly in combination with a symbol, indicates situations or conditions that may lead to damage to property and/or the environment.



This symbol identifies hazards that can cause electric shock.



This symbol indicates hazardous areas or hazardous situations.



This symbol indicates hazards caused by hot surfaces.



This symbol indicates hazards caused by intense light sources.



This symbol indicates hazards due to suspended loads.



This symbol indicates a device in which there are no user-serviceable parts.



This symbol indicates additional information on the operation of the product.



This symbol indicates a device that may only be used in dry rooms.

SAFETY INSTRUCTIONS



HAZARD:

1. Do not open the device and do not perform any modifications.
2. If your device no longer functions properly, if liquids or objects get inside it, or if it has been damaged in any other way, switch it off immediately and disconnect it from the mains. The device may be repaired only by authorised repair technicians.
3. For devices of protection class 1, the protective conductor must be connected correctly. Never disconnect the protective conductor. Devices of protection class 2 do not have a protective conductor.
4. Ensure that live cables are not kinked or otherwise mechanically damaged.
5. Never bypass the device fuse.



WARNING:

1. The device may not be operated if it shows obvious signs of damage.
2. The device may only be installed in a voltage-free state.
3. If the mains cable of the device is damaged, do not operate the device.
4. Permanently connected mains cables may only be replaced by a qualified person.

**ATTENTION:**

1. Do not operate the device if it has been exposed to large temperature fluctuations (for example, after transport). Moisture and condensation may damage the device. Switch on the device only when it has reached ambient temperature.
2. Make sure that the voltage and frequency of the mains correspond to the values indicated on the device. If the device has a voltage selector switch, do not turn the device on until it has been set correctly. Use only suitable mains cables.
3. To disconnect the device from the mains at all poles, it is not sufficient to press the on/off switch on the unit.
4. Make sure that the fuse used corresponds to the type printed on the device.
5. Make sure that appropriate measures have been taken against overvoltage (for example, lightning strike).
6. Observe the specified maximum output current on devices with a Power Out connection. Ensure that the total current consumption of all connected devices does not exceed the specified value.
7. Replace plug-in mains cables only with original cables.
8. Connect the device only to compliant, tested, and undamaged power outlets.

**DANGER:**

1. Danger of suffocation/choking! Plastic bags and small parts must be kept out of reach of persons (including children) with reduced physical, sensory, or mental capabilities.
2. Danger caused by falling device! Make sure that the device is securely installed and cannot fall down. Only use suitable stands or mounts (particularly for fixed installations). Ensure that accessories are properly installed and secured. Ensure that all applicable safety regulations are observed.

**WARNING:**

1. Use the device only in the prescribed manner.
2. Operate the device only with the accessories recommended and intended by the manufacturer.
3. During installation, observe the safety regulations applicable in your country.
4. After connecting the device, check all cable routes to avoid damage or accidents, for example, due to tripping hazards.
5. Always observe the specified minimum distance to normally flammable materials! Unless explicitly stated, the minimum distance is 0.3 m.

**CAUTION:**

1. Moving components such as mounting brackets or other movable components may become jammed.
2. Devices with motor-driven components may result in injury from the movement of the device. Sudden movement of the device can cause shock reactions.
3. The exterior surface of the device can become very hot during regular operation. Ensure that accidental touching of the housing is not possible. Always allow the device to cool sufficiently before removal, maintenance work, charging, or similar.

**ATTENTION:**

1. Do not install or operate the device near any radiators, heat registers, stoves, or other heat sources. Ensure that the device is always installed in such a way that it is sufficiently cooled and cannot overheat.
2. Do not place ignition sources such as burning candles near the device.
3. Ventilation openings must not be covered, and fans must not be blocked.
4. Use the original packaging or packaging provided by the manufacturer for transport.
5. Avoid shock or impact to the device.
6. Observe the IP protection class, as well as the ambient conditions such as temperature and humidity according to the specification.
7. Devices can be continuously further developed. In the event of deviating information on operating conditions, performance, or other device properties between the user manual and the device labelling, the information provided on the device always has priority.
8. The device is not suitable for tropical climates and for operation at heights of 2,000 m above sea level or higher.
9. Unless explicitly stated, the device is not suitable for operation in marine conditions.

**PLEASE NOTE:**

For conversion or retrofit sets or accessories provided by the manufacturer, it is essential to observe the included instructions.

**CAUTION! IMPORTANT NOTES ON LIGHTING PRODUCTS!**

1. This device is a risk group 1 device. Do not stare at the light source! Do not look directly into the lamp with optical instruments such as magnifying glasses or binoculars!



2. Stroboscopic effects may cause epileptic seizures in susceptible individuals!



3. Permanently installed lamps are built into these lighting units. These may not be replaced by the user. The lamps contained in this light source may only be replaced by the manufacturer, its service partner, or a similarly qualified person.



SIGNAL TRANSMISSION BY RADIO

(for example, W-DMX or wireless audio systems):

The quality and performance of wireless signal transmissions generally depends on the ambient conditions.

For example, the following factors can impact range and signal stability:

Shielding (for example, masonry, metal structures, water)

High volumes of radio traffic (for example, powerful wireless LAN networks)

Interference

Electromagnetic radiation (for example, LED video screens, dimmers)

All range specifications refer to free-field line-of-sight applications without interference!

The operation of radio transmission systems is subject to official regulations. These may vary from region to region and must be checked by the operator before use (for example, radio frequency and transmission power).



WARNING: Devices with wireless signal transmission are not suitable for use in sensitive areas in which radio operation can lead to potentially detrimental interactions.

These include:

- Hospitals, health centres, or other healthcare facilities that provide patient treatments with skilled personnel and equipment.
- Class I, II, and III hazardous areas
- Restricted areas
- Military facilities
- Aircraft or vehicles
- Areas where the use of mobile phones is prohibited



TRANSMISSION VIA W-DMX

WARNING: In general, wireless DMX transmission must not be used for applications involving safety-related factors that might result in personal injury or property damage in the event of a failure.

This applies in particular to moving scene or truss structures, DMX-controlled motors/lifts, or lifting devices for operating DMX-operated platform lifts, hydraulic systems, or comparable moving components.

Furthermore, wireless DMX transmission must not be used to control flame or pyrotechnic devices, explosion-driven effects, or gas or liquid effects. These include, for example, CO₂ cannons, confetti shooters, water effects, or similar.



NOTES FOR PORTABLE INDOOR DEVICES

1. Temporary operation! Event equipment is generally only designed for temporary operation.
2. Continuous operation or permanent installation can impair the functionality of the device and cause premature ageing.

PACKAGING CONTENT

Remove the product from the packaging, and remove all packaging material.

Please check the completeness and integrity of the delivery, and notify your distribution partner immediately after purchase if the delivery is not complete or if it is damaged.

The packaging content for the product includes:

- ▶ 1 × ROOT BAR 6 RGBWA+UV
- ▶ 2 × Omega mounting bracket
- ▶ 2 × Adjustable stand
- ▶ 1 × Glare shield
- ▶ 1 × Diffuser
- ▶ 1 × Neon tube filter
- ▶ 1 × Mains cable
- ▶ Safety and compliance information (user manual as a download via QR code)

INTRODUCTION

LED ROOT BAR
CLROOTBAR6

CONTROL FUNCTIONS:

2-channel, 4-channel sound, 4-channel 2, 5-channel, 6-channel direct, 6-channel pattern, 8-channel, 11-channel sound, 11-channel pattern, 24-channel, 27-channel, D3-channel, D5-channel sound, D5-channel direct, D6-channel, D7-channel, D9-channel and D12-channel DMX control

DMX512

W-DMX via optionally available Cameo iDMX stick

Control via IR remote control (remote control optionally available)

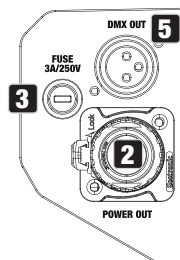
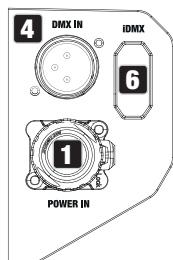
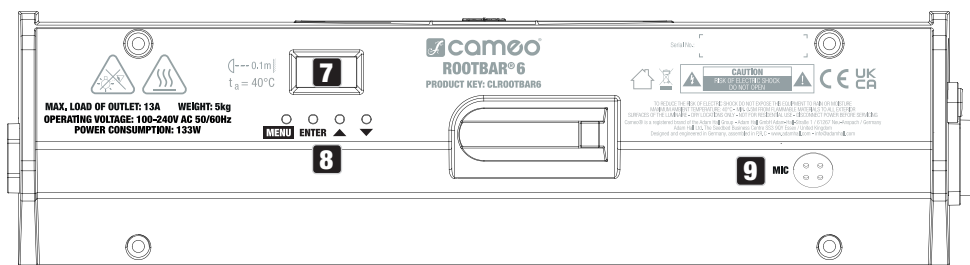
Master/slave operation

Stand-alone functions

FEATURES:

16× 12 W RGBWA+UV LEDs. DMX512. Connection for optional iDMX stick for wireless control via W-DMX. IR remote control optionally available. 3-pin DMX connections. Multi-angle installation thanks to tool-free folding feet. Two Omega mounting brackets and two adjustable feet included. Glare shield, diffuser, and neon tube filter included.

CONNECTIONS AND OPERATING/DISPLAY ELEMENTS



1 POWER IN

Power Twist mains input socket. Operating voltage 100–240 V AC / 50–60 Hz. Use the included mains cable.

2 POWER OUT

Power Twist mains output socket. Enables power supply to other CAMEO lights. Ensure that the total power consumption of all connected devices does not exceed the value specified on the device in amperes (A).

3 FUSE

Fuse holder for 5 × 20 mm fuses. **IMPORTANT NOTE:** Only replace the fuse with a fuse of the same type and value. In the event of repeated fuse failure, please contact an authorised service centre.

4 DMX IN

Male 3-pin XLR socket for connection to a DMX control device (for example, DMX console).

5 DMX OUT

Female 3-pin XLR socket for sending the DMX control signal.

6 IDMX

Connection for the optionally available iDMX stick for wireless DMX operation (insert the iDMX stick with the antenna facing the DMX IN socket).

7 OLED DISPLAY

The OLED display shows the currently active operating mode (main screen), the menu items, and the numerical value or operational status of certain menu items. If no input is made within approximately one minute, the display automatically returns to the main screen. Note on the main screen in operating modes with external control: in the event that the control signal is interrupted, the characters in the display begin flashing; once the control signal is present again, the flashing stops.

8 CONTROL BUTTONS

MENU – press MENU to access the main menu. Press again or repeatedly to return to the main screen. Pressing MENU without confirming a value or status change by pressing ENTER restores the previously confirmed value or status.

ENTER – press ENTER to access the menu levels, where you can make value changes and access the sub-menus with the ENTER button. ENTER is also used to confirm value or status changes.

▲ and ▼ – select menu items in the main menu (DMX address, DMX mode, etc.) and in the sub-menus. Allows you to change the value of a menu option, such as the DMX address (long press = quick value change).

9 MIC

Microphone for music control in the stand-alone operating modes **Auto** and **Pattern** and the DMX operating modes with sound channel.

INFRARED SENSOR

The infrared sensor for control via IR remote control is found on the front of the fixture.

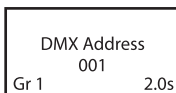
OPERATION

NOTES

- As soon as the fixture is switched on, the following are displayed in succession: "Welcome to Cameo", the model name, and the software version. After this process, the fixture is ready for operation, and the previously activated operating mode is launched.
- To return directly from the sub-menus to the main display, press and hold MENU for around two seconds.
- The main display is activated automatically after approximately two minutes of no input. To navigate one level up in the sub-menus, briefly press MENU.
- To directly access the previously edited menu item, briefly press MENU and ENTER at the same time.
- Briefly pressing the ▲ button when in the main display rotates the display by 180°.
- To quickly change a value, such as the DMX start address, press and hold ▲ or ▼.

MAIN SCREEN IN DMX OPERATING MODE

In DMX operating mode, the main screen shows the currently set DMX start address (see illustration). When the DMX Delay feature is activated, the delay group and delay time are also displayed. Flashing characters in the display indicate that the fixture has no DMX signal.



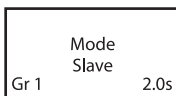
MAIN DISPLAY STAND-ALONE OPERATING MODE

The display shows the currently activated stand-alone operating mode.



MAIN DISPLAY SLAVE MODE

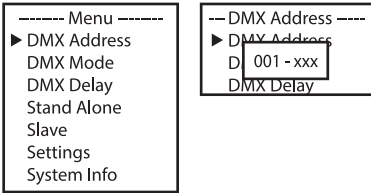
The display shows Mode Slave. If the slave unit is assigned to a slave group, the slave group and the delay time set in the master unit under the stand-alone operating modes Auto and Loop are also displayed.



SETTING THE DMX START ADDRESS (DMX Address)

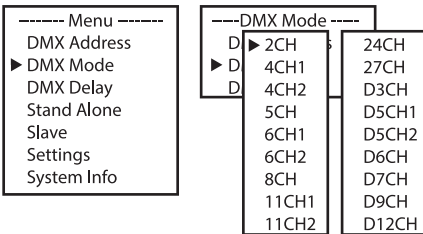
Starting from the main screen, press MENU to enter the main menu. Now use ▲ or ▼ to select the menu item **DMX Address** and confirm with ENTER. Use ▲ or ▼ to configure the desired

DMX start address and press ENTER to confirm (the highest possible value depends on the selected DMX operating mode).



SETTING THE DMX OPERATING MODE (DMX Mode)

Starting from the main screen, press MENU to enter the main menu. Now use ▲ or ▼ to select the menu item **DMX Mode** and confirm with ENTER. Select the desired DMX operating mode using ▲ or ▼ and confirm with ENTER. Tables showing the channel assignment of the different DMX operating modes can be found in the DMX CONTROL section of this user manual.

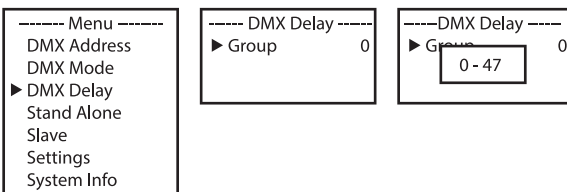


DMX DELAY

The DMX Delay function is a simple way to create a running light effect with a large number of fixtures that are all the same model and that are all running the same software version. This is otherwise only achievable with a suitable DMX controller and time-consuming programming. All the fixtures used in this are set to the same DMX operating mode and controlled via the same DMX start address. All DMX modes with the delay channel are labelled with **D**.

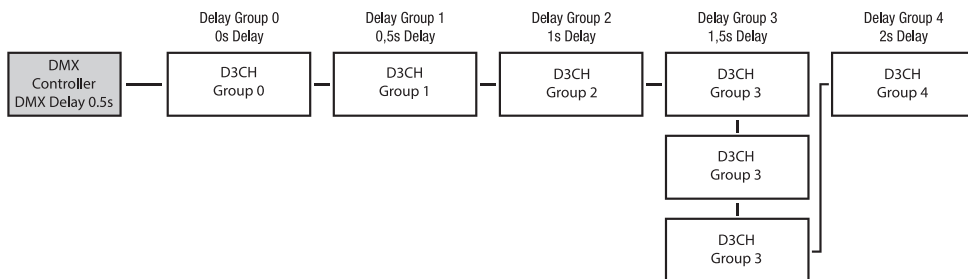
Assign the fixtures to one of up to 47 groups (plus group 0) as desired (maximum group number depends on the activated DMX operating mode). Multiple fixtures may be assigned to a group. The group number is also the factor by which the set delay time is multiplied (see set-up example).

Starting from the main display, press MENU to access the main menu. Use the ▲ and ▼ buttons to select the menu item DMX Delay and confirm by pressing ENTER twice. Now use ▲ and ▼ to set the group as required and confirm the entry with ENTER.



The delay time of the DMX signal is set by means of a DMX controller in the separate DMX delay channel of the corresponding DMX operating mode (0.0 s to 2.0 s in 0.1 s increments).

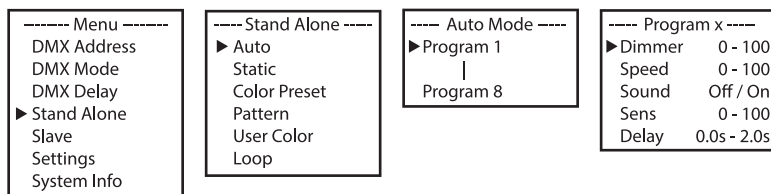
Set-up example:



AUTO STAND-ALONE OPERATING MODE

The eight available auto programs partly comprise non-editable colour-change sequences and partly random scenes. Brightness, running speed, music control, microphone sensitivity, and delay can be set separately for each program.

Starting from the main display, press MENU to access the main menu. Using the ▲ and ▼ buttons, select the menu item **Stand Alone** and confirm with ENTER. Again use ▲ and ▼ to select the stand-alone operating mode **Auto** and confirm with ENTER. Now use ▲ and ▼ to select the desired program (program 1 to program 8) and confirm again with ENTER.



This takes you to the sub-menu for setting the sub-menu items (see table, select with ▲ and ▼, confirm with ENTER, change value or status with ▲ and ▼, and confirm with ENTER). The settings for each program are made separately and are retained even after restarting the device.

AUTO STAND-ALONE OPERATING MODE (Program 1–Program 8)			
Dimmer	Sets the brightness	0 - 100	
Speed	Sets the running speed	0 - 100	
Sound	Activates/deactivates music control	Off	Deactivates music control
		On	Activates music control
Sens	Sets microphone sensitivity	0 - 100	
Delay	Delay time for slave groups	0.0s - 2.0s	

STATIC STAND-ALONE OPERATING MODE

The Static stand-alone operating mode allows the Dimmer, Strobe, and R, G, B, W, and A values to be set directly on the device with values in a similar way to a DMX controller. This allows you to

create a custom scene without an additional DMX controller.

Starting from the main display, press MENU to access the main menu. Using ▲ and ▼, select **Stand Alone**, confirm with ENTER, then select **Static**, and confirm once again with ENTER. Now select the menu item you want to edit, confirm the selection, set the desired value, and confirm the entry.

----- Menu ----- DMX Address DMX Mode DMX Delay ▶ Stand Alone Slave Settings System Info	---- Stand Alone ---- Auto ▶ Static Color Preset Pattern User Color Loop	---- Static Mode ---- ▶ Dimmer 0 - 255 Strobe 0 - 255 Red 0 - 255 Green 0 - 255 Blue 0 - 255 White 0 - 255 Amber 0 - 255 UV 0 - 255
---	--	---

COLOR PRESET STAND-ALONE OPERATING MODE

16 different color presets plus a jump and a fade preset with adjustable running speed are available.

Starting from the main display, press MENU to access the main menu. Using ▲ and ▼, select the menu item **Stand Alone**, confirm the selection, then select **Color Preset**, and confirm again with ENTER. The desired preset can now be selected. Confirm the selection, set the brightness from 0 to 100, and confirm again. The running speed (Speed) can also be set for the two presets Jump and Fade.

----- Menu ----- DMX Address DMX Mode DMX Delay ▶ Stand Alone Slave Settings System Info	---- Stand Alone ---- Auto Static ▶ Color Preset Pattern User Color Loop	---- Color Preset ---- Off ▶ Red 0 - 100 Amber 0 - 100 Yel Warm 0 - 100 Yellow 0 - 100 Green 0 - 100 Turquoise 0 - 100 Cyan 0 - 100 Blue 0 - 100 Lavender 0 - 100	---- Color Preset ---- Mauve 0 - 100 Magenta 0 - 100 Pink 0 - 100 Warm White 0 - 100 White 0 - 100 Cold White 0 - 100 UV 0 - 100 Jump 0 - 100 Fade 0 - 100 Speed 0 - 100
---	--	---	--

PATTERN STAND-ALONE OPERATING MODE

The 12 available patterns each consist of pre-programmed four-segment patterns. Brightness, running speed, color preset, music control, microphone sensitivity, and delay can be set separately for all patterns.

Starting from the main display, press MENU to access the main menu. Using the ▲ and ▼ buttons, select the menu item Stand Alone and confirm with ENTER. Use ▲ and ▼ again to select the stand-alone operating mode Pattern and confirm with ENTER.

----- Menu ----- DMX Address DMX Mode DMX Delay ▶ Stand Alone Slave Settings System Info	---- Stand Alone ---- Auto Static Color Preset ▶ Pattern User Color Loop	---- Pattern ----- ▶ Dimmer 0 - 255 Strobe 0 - 255 Color Red... Pattern 1 - 12 Speed 0 - 255 Sound Off / On Sens 0 - 100 Delay 0.0s - 2.0s
---	--	--

This takes you to the sub-menu for setting the sub-menu items (see table, select with ▲ and ▼, confirm with ENTER, change value or status with ▲ and ▼, and confirm with ENTER).

PATTERN STAND-ALONE OPERATING (Pattern 1–Pattern 12)			
Dimmer	Sets brightness	0 - 100	
Strobe	Multifunctional stroboscope (see, for example, DMX operating mode 6CH pattern, channel 2)	0 - 255	
Colour	Selects the color presets	Red - CW / User 1 - 4	
Pattern	Selects the pattern	1 - 12	
Speed	Sets the running speed and running direction of the patterns (see, for example, DMX operating mode 6CH pattern, channel 5)	0 - 255	
Sound	Activates/deactivates music control	Off	Deactivates music control
		On	Activates music control
Sens	Sets microphone sensitivity	0 - 100	
Delay	Delay time for slave groups	0.0s - 2.0s	

USER COLOR STAND-ALONE OPERATING MODE

The four user presets available in the stand-alone operating mode User Color can be edited individually. Starting from the main display, press MENU to access the main menu. Using ▲ and ▼, select the menu item **Stand Alone**, confirm with ENTER, then select **User Color**, and confirm once again. Select the desired preset (Color 1–Color 4) and confirm the selection. Now select the menu item you want to edit, confirm the selection, set the desired value, and confirm the entry.

<pre> ----- Menu ----- DMX Address DMX Mode DMX Delay ▶ Stand Alone Slave Settings System Info </pre>	<pre> ----- Stand Alone ----- Auto Static Color Preset Pattern ▶ User Color Loop </pre>	<pre> ----- User Color ----- ▶ Color 1 Color 4 </pre>	<pre> ----- Color x ----- ▶ Dimmer 0-255 Strobe 0-255 Red 0-255 Green 0-255 Blue 0-255 White 0-255 Amber 0-255 UV 0-255 </pre>
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LOOP STAND-ALONE OPERATING MODE

Brightness, step duration, and fade time can be set separately for all four loops. Starting from the main display, press MENU to access the main menu. Using UP and DOWN, select the menu item **Stand Alone**, confirm with ENTER, then select **Loop**, and confirm again. Now select the desired loop for playback and editing and confirm the selection.

<pre> ----- Menu ----- DMX Address DMX Mode DMX Delay ▶ Stand Alone Slave Settings System Info </pre>	<pre> ----- Stand Alone ----- Auto Static Color Preset Pattern User Color ▶ Loop </pre>	<pre> ----- Loop Mode ----- ▶ Loop 1 Loop 4 </pre>	<pre> ----- Loop x ----- ▶ Dimmer 0 - 100 Steptime 0.1s-10.0s Fadetime 0%-100% Delay 0.0s - 2.0s 1.Step Red... 2.Step Red... 3.Step Red... 4.Step Red... </pre>
---	---	--	---

This takes you to the sub-menu for setting the sub-menu items (see table). The settings for each loop are made independently and are retained even after restarting the device.

LOOP STAND-ALONE OPERATING MODE (Loop 1–Loop 4)		
Dimmer	Sets the brightness	0 - 100
Steptime	Sets the step time	0.1s - 10.0s
Fadetime	Sets the fade time	0% - 100%
Delay	Delay time for slave groups	0.0s - 2.0s
1.Step	Select color preset or blackout for step 1	Red - UV / User 1 - 4 / Blackout
2.Step	Select color preset or blackout for step 2	Red - UV / User 1 - 4 / Blackout
3.Step	Select color preset or blackout or skip step (—) for step 3	Red - UV / User 1 - 4 / Blackout / —
4.Step	Select color preset or blackout or skip step (—) for step 4	Red - UV / User 1 - 4 / Blackout / —

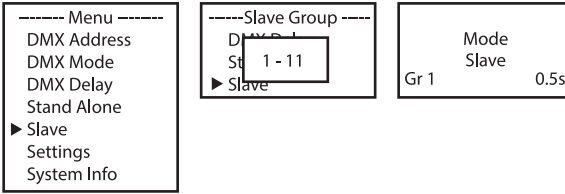
SLAVE MODE

Standard slave operation: Starting from the main screen, press MENU to enter the main menu. Use the ▲ or ▼ buttons to select the **Slave** menu item, confirm with ENTER, then select slave group 0, and confirm again. Connect the slave and the master units (same model, same software version) using a DMX cable and activate one of the stand-alone modes on the master unit. The slave unit will now follow the master unit.

<pre> ----- Menu ----- DMX Address DMX Mode DMX Delay Stand Alone ▶ Slave Settings System Info </pre>	<pre> ----- Slave Group ----- DMX 1 St 0 ▶ Slave </pre>	<pre> Mode Slave </pre>
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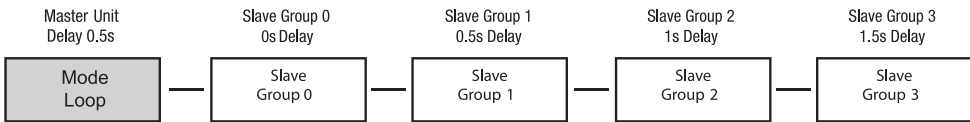
Extended slave mode: If you want to control the slave units in master/slave mode using one of the stand-alone operating modes **Auto**, **Pattern**, or **Loop**, the control signal can be played back with a time delay of up to 11 steps. The delay time is set in the menu of the master unit's corresponding stand-alone operating mode; the delay factor in the slave menu of the correspon-

ding fixture (slave group). This is a simple way to create a running light effect with a large number of identical lights that are running the same software version, which would otherwise require a suitable DMX controller and extensive programming. Connect the slave and master units (same model, same software version) using a DMX cable.



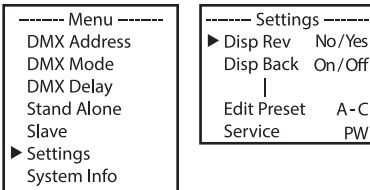
Assign the lights to one of up to 11 groups (plus Group 0) according to preference, whereby several lights can be assigned to one group. The group number is also the factor by which the delay time set in the master unit is multiplied.

Set-up example:



SYSTEM SETTINGS (Settings)

Starting from the main screen, press MENU to enter the main menu. Use the ▲ or ▼ buttons to select the menu item **Settings** and confirm with ENTER.



This takes you to the sub-menu to set sub-menu items (see table, select with ▲ or ▼, confirm with ENTER, change value or status with ▲ or ▼, and confirm with ENTER).

Settings			
Disp Rev	Display rotation	No	No display rotation
		Yes	Display is rotated by 180° (for example, for overhead installation)
Disp Back	Switching off the display lighting	Off	Deactivation of the display lighting after approx. 30 seconds of inactivity
		On	Display lighting permanently on
Sig Fail	Operational status on control signal interruption	Hold	Last command is retained
		Black	Instant blackout
		User 1	User Color 1 is activated

Mirror	Mirror LED segments	Off	Function deactivated
		On	LED segments are mirrored
IR Re-remote	Control via IR remote control	Off	Control via IR remote control deactivated
		On	Control via IR remote control activated
Sound	Control via sound	Last	The last value is retained until the next impulse
		Off	Pulse activates LEDs; blacks out after a short time until the next pulse
PWM	LED PWM frequency	650Hz	Selection of the LED PWM frequency
		1530Hz	
		2150Hz	
		4000Hz	
Calibration	Colour calibration	Red	Individual colour calibration. Cross-mode brightness setting with values from 0–255
		Green	
		Blue	
		White	
		Amber	
		UV	
Reset	Reset the device	Factory	Reset to factory settings
		Preset A	Reset to Preset A
		Preset B	Reset to Preset B
		Preset C	Reset to Preset C
Edit Preset	Store all system settings in three custom presets	Preset A	Store with ENTER
		Preset B	Store with ENTER
		Preset C	Store with ENTER
Service	For service purposes only	Password	

SYSTEM INFORMATION (System Info)

Starting from the main screen, press MENU to enter the main menu. Use the ▲ or ▼ buttons to select the menu item **System Info** and confirm with ENTER.

<p>----- Menu -----</p> <ul style="list-style-type: none"> DMX Address DMX Mode DMX Delay Stand Alone Slave Settings ▶ System Info 	<p>----- System Info -----</p> <ul style="list-style-type: none"> ▶ Firmware Temperature Op Hours
---	--

This takes you to the sub-menu to set sub-menu items (see table, select with ▲ or ▼, confirm with ENTER, change value or status with ▲ or ▼, and confirm with ENTER).

System Info

Firmware	Device's firmware version	Vx.xx	
Temperature	Temperature of the LED unit in degrees Celsius or degrees Fahrenheit	LED	xx°C/°F
		Unit	°C °F
Op Hours	Displays operating time in hours and minutes	xx:xxh	

IR REMOTE CONTROL (optionally available; product number CLPFLAT1REMOTE)

Aim the infrared remote control directly at the infrared sensor on the front of the light. The maximum range is approximately 8 metres. In DMX and slave operating modes, the fixture's IR sensor is deactivated. The infrared remote control directly controls the internal stand-alone operating modes. Activate operation via IR remote control in the system settings (Settings -> IR Remote -> On) and start one of the stand-alone operating modes.

BL / ON/OFF (Blackout)

Press the BL button to switch off all LEDs (blackout), regardless of the operating mode enabled via remote control. Press the BL button again to reactivate the previously selected operating mode.

SP (Speed)

11-stage speed setting for the lighting sequence in stand-alone operating mode Auto (Au). Level 1 creates the fastest lighting sequence. Press the button again to activate level 2 for a slower colour-change sequence, and repeat for levels 3, 4, 5, etc., whereby level 11 provides the slowest lighting sequence speed.

☀ (Brightness)

Sets the overall brightness in six levels. The different brightness levels can be accessed by repeatedly pressing this button (level 1 = blackout).

FL (Flash/Stroboscope)

Six-level speed setting for the strobe effect. Level 1 deactivates the strobe effect, level 2 produces a slow flash frequency, followed by levels 3 to 5. Level 6 generates the fastest flash frequency. The strobe effect can only be used in the colour blending mode RGBW.

R, G, B, W, A, and UV (CW and WW without function)

These six buttons can be used to create individual colours by mixing R, G, B, W, A, and UV. The six brightness levels can be accessed by repeatedly pressing the respective colour button, whereby the LEDs are switched off at Level 1.

Ju (colour change)

Colour changes jump (colour jumping) The speed at which the colours change is set with the SP (Speed) button.

Fa (colour fade)

Colours fade into each other (colour fading). The speed at which the colours change is set with the SP (Speed) button.

Au (Auto operating mode)

Press the Au button to start the Auto stand-alone operating mode. Use the Speed button to control the speed of the lighting sequence.

Su (music-controlled lighting sequence)

Six different sound presets can be accessed by repeatedly pressing the SU button (sound 1 to 6). The pre-selected color presets change with the bass pulses. The microphone used for this is found on the back of the fixture.

CM Press CM+ or CM- to start the Color Presets stand-alone operating mode. The various color presets are accessed by repeatedly pressing one of the two buttons.

Pr+ / Pr- (without function)

SET-UP AND INSTALLATION



DANGER: Overhead mounting requires extensive experience, including calculating the load limit values of the mounting hardware and regular safety inspection of all installation materials and lights. If you do not have these qualifications, do not attempt to perform installation yourself. Refer instead to a qualified professional. There is a risk that devices that are incorrectly installed and secured may come loose and fall down. This can cause serious injury or death.

Integrated support feet

Thanks to the integrated support feet, which can be folded without tools, the fixture can be positioned in a suitable place on a flat surface at different installation angles.



0°

15°

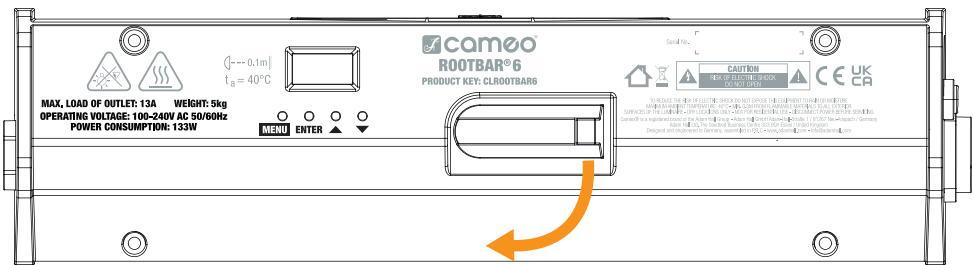
30°

60°

90°

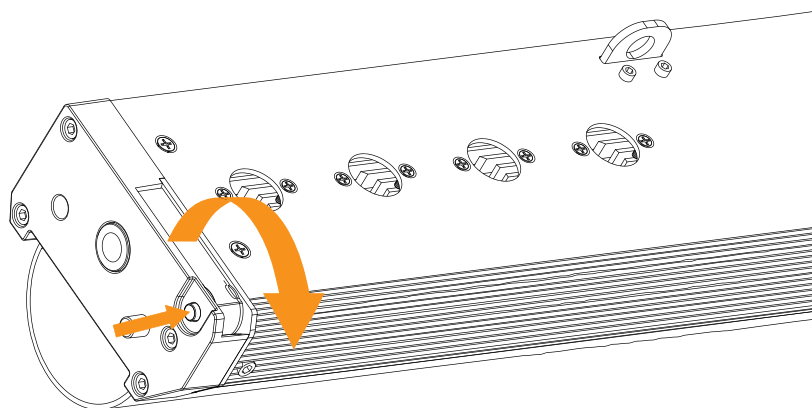
0°: Lay the fixture flat on a surface.

15°: Fold out the centrally mounted foot and position the fixture on it.



30°: Place the fixture on the angled side.

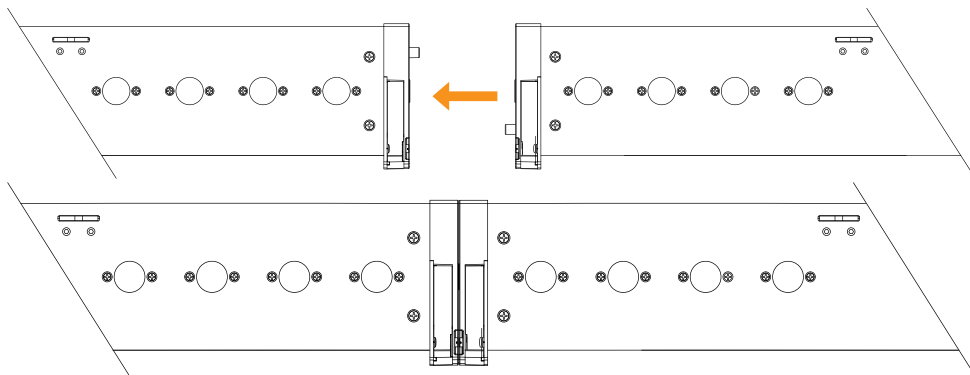
60°: Fold out both side-mounted feet and position the fixture on them (press the spring-loaded locking button and the foot will fold out automatically and the locking button will engage again).



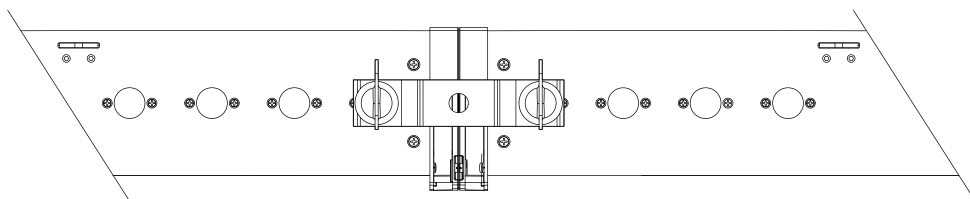
90°: Fold out the centrally mounted foot and place the fixture on the back.

Connecting ROOTBARs with each other

The side sections are designed so that they interlock when two fixtures are connected. Strong magnets make it easier to connect them and ensure a tight connection.

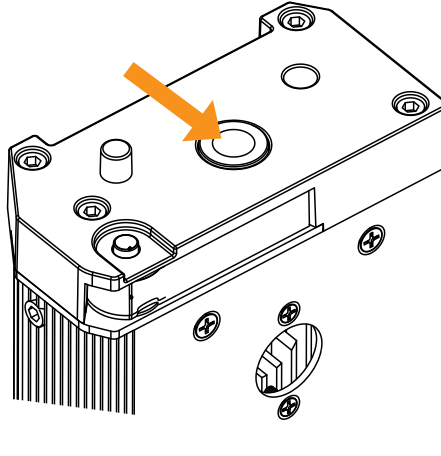


An additional Omega bracket can be used for a stable mechanical connection (two pieces included in the packaging content).



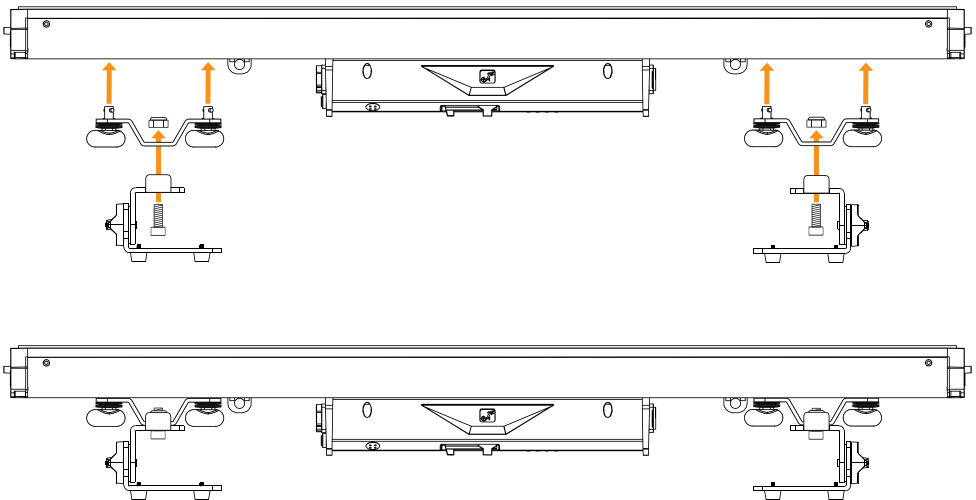
M10 thread

The side sections are outfitted with an M10 thread for attaching a clamp, allowing for vertical suspension on a truss (maximum 1 ROOTBAR, suitable clamp with M10 bolt, product no. SCP710BSET1, secure the fixture to the upper securing eyelet).



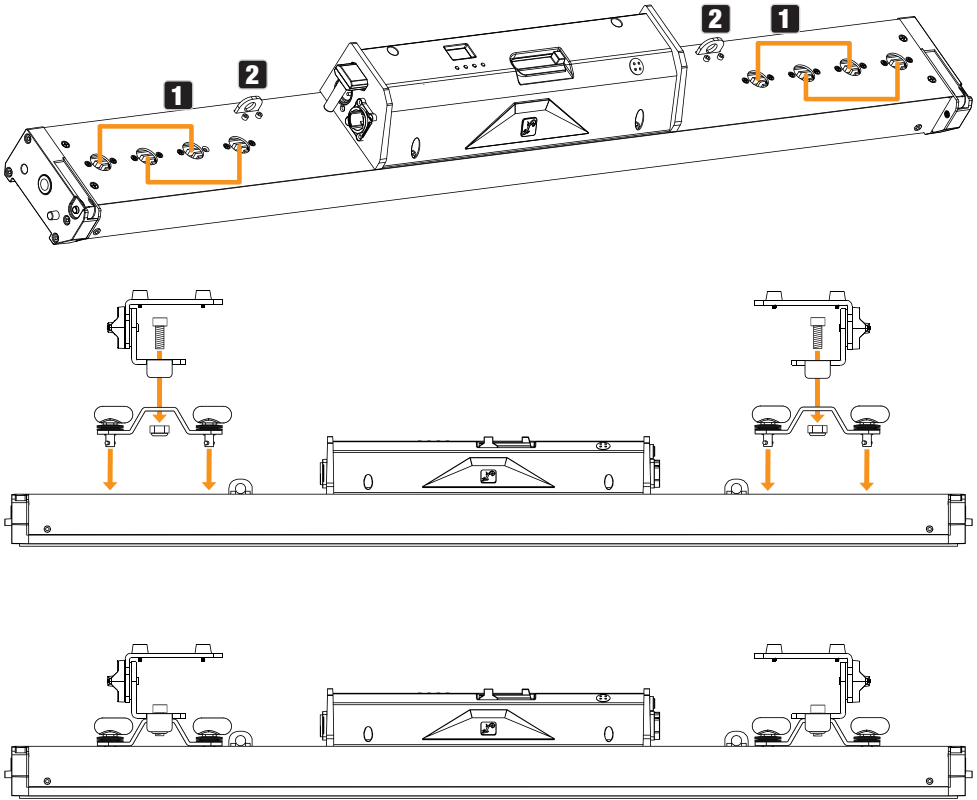
Assembling the feet

To use the two infinitely adjustable feet, screw one foot to each Omega bracket using an M10 Allen screw and an M10 lock nut. Then fit the Omega brackets to the fixture. The wing screws for adjusting the beam direction are located on the sides of the feet.



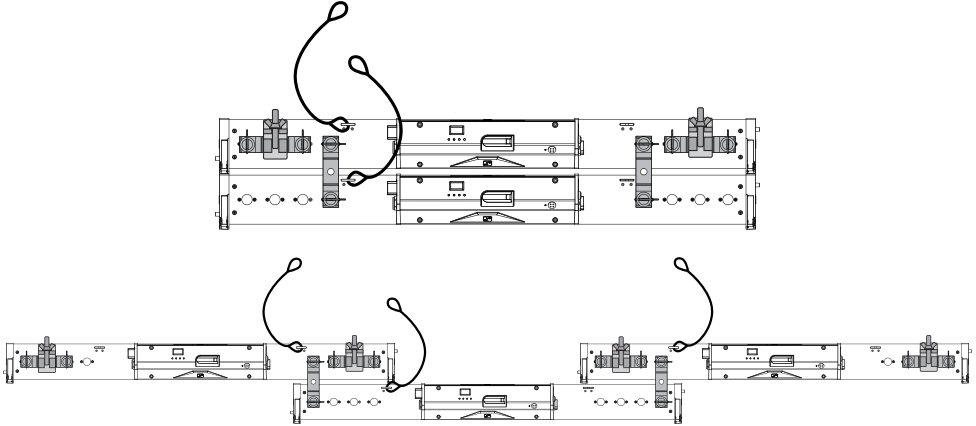
Truss installation

Truss installation can be carried out using two Omega brackets and two adjustable feet, which are attached to the back of the fixture (1, two positions per side are possible). Two Omega brackets and two adjustable feet are included in the packaging content. The truss clamps are attached to the feet. Suitable truss clamps are available as an option. Ensure firm connections and secure the fixture to one of the securing lugs (2) with a suitable safety cable.



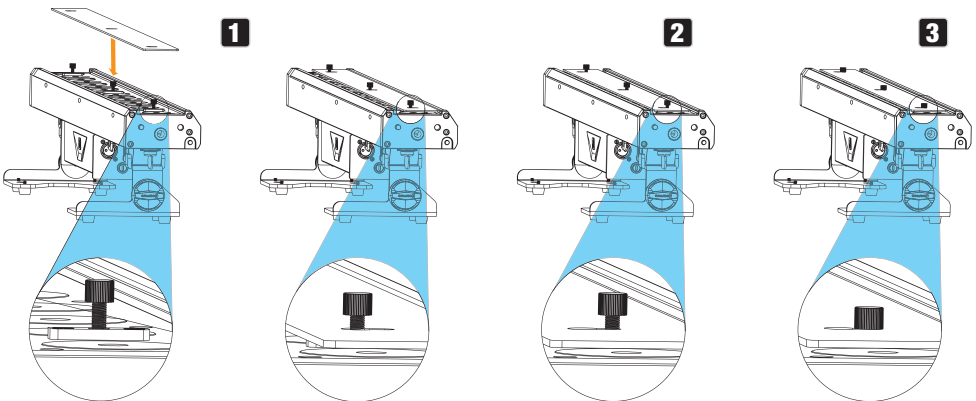
Clustering fixtures

The fixtures may only be connected directly to each other using Omega brackets in the following mounting options (maximum two fixtures, two Omega brackets per fixture included in the packaging content). Truss installation must be carried out with separate Omega brackets plus truss clamps; it must not be carried out on Omega brackets as a connecting link between two fixtures. Every fixture must be secured to the truss with a suitable safety rope!



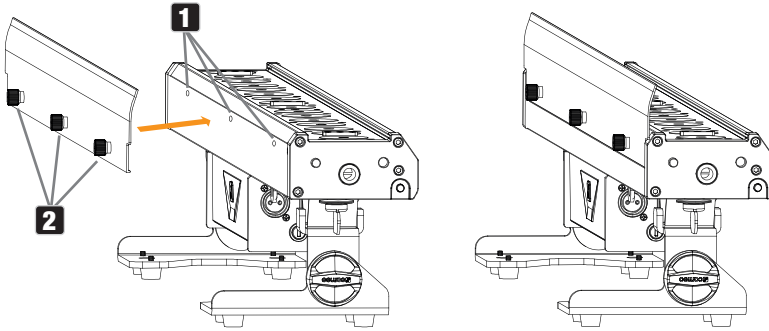
INSTALLING THE FROST FILTER

A frost filter is included in the packaging content of the ROOTBAR6. To attach the frost filter to the fixture, first loosen the three knurled screws on the front of the fixture, screw them out of the threads as far as possible, and place the frost filter on the fixture (place the large openings of the keyholes in the frost filter over the screw heads, see Fig. 1). Then slide the frost filter to the side as far as it will go (Fig. 2). Now re-tighten the three knurled screws (Fig. 3).



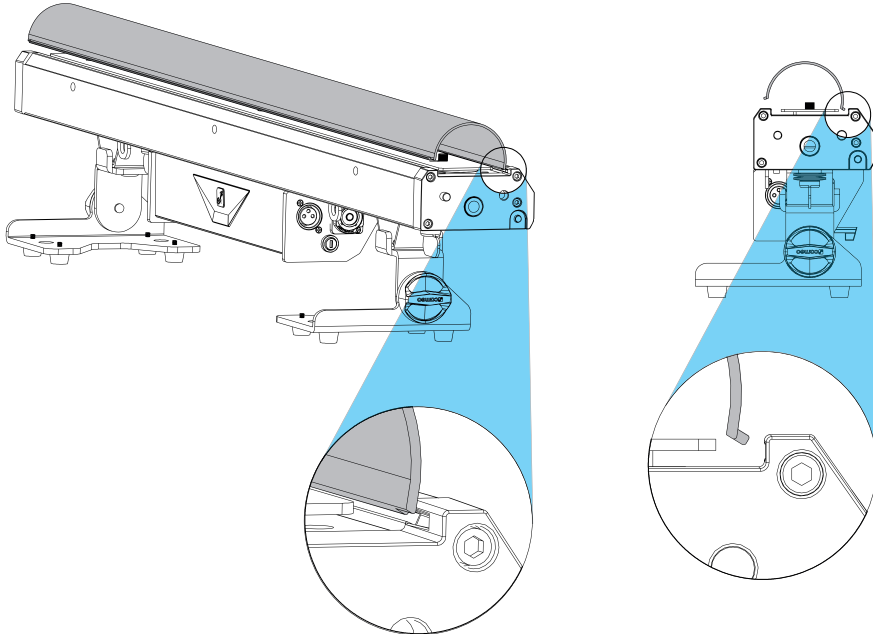
MOUNTING THE GLARE SHIELD

A glare shield is included in the packaging content of the ROOTBAR6. There are three threads (1) on the top edge of one side of the ROOTBAR housing. Use the three knurled screws (2) on the glare shield to attach it to the ROOTBAR's housing.



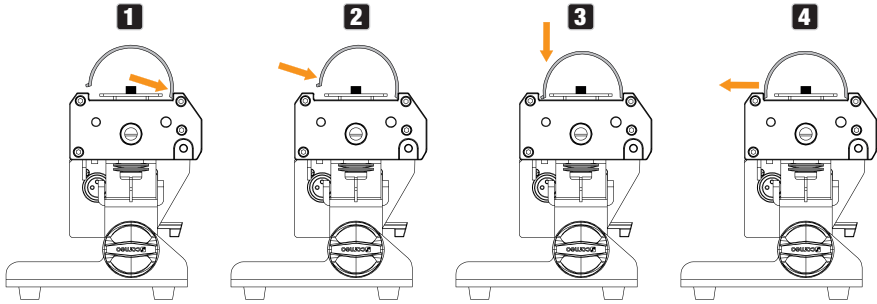
MOUNTING THE NEON TUBE FILTER

A neon tube filter for a neon tube effect is included in the packaging content of the ROOTBAR6. The neon tube filter is equipped with angled edges on both long sides which ensure a secure hold in the grooves provided on the inside of the fixture front. Neon tube filters and frost filters can be installed and used together.



1. Insert an angled edge into a groove.
2. Now compress the neon tube filter slightly by pressing on the opposite side of the neon tube filter.
3. Lower this side to the front of the fixture.
4. Now release the pressure from the neon tube filter so that the second edge slides into the second groove in the front of the fixture.

Make sure that the edges of the neon tube filter are correctly positioned in the grooves so that the neon tube filter cannot fall out even when installed overhead!



CARE, MAINTENANCE, AND REPAIR

In order to ensure the long-term, proper functioning of the device, it must be regularly cleaned and, if necessary, serviced. The servicing requirement depends on the intensity of use and the environment in which it is used.

A visual inspection should be carried out before each commissioning. In particular, all safety-relevant components, such as connecting elements, safety points, electrical connections and cables, must be taken into account. Furthermore, we recommend carrying out all the applicable maintenance measures specified below once every 500 operating hours or, in the case of a lower intensity of use, at the latest after one year. Warranty claims may be limited should defects result from inadequate service and maintenance.

CARE (can be performed by the user)



WARNING! Before carrying out any care or maintenance, the power supply – and, if possible, all device connections – must be disconnected.



PLEASE NOTE! Improper care can lead to impairment or even destruction of the device.

1. Housing surfaces must be cleaned with a clean, damp cloth. Make sure that no moisture can penetrate the device.
2. Air inlets and outlets must be regularly cleaned of dust and dirt. If compressed air is used, make sure that damage to the device is prevented (for example, fans must be blocked in this case).

3. Cables and connectors must be cleaned regularly, and dust and dirt must be removed.
4. In general, no cleaning agents or abrasive agents may be used; otherwise, the surface finish may be damaged.
5. Devices must be stored in a dry environment and protected from dust and dirt.

MAINTENANCE AND REPAIR (qualified personnel only)



DANGER! There are live components in the device. Even after disconnecting from the mains, there may still be residual voltage in the device, for example, due to charged capacitors.



PLEASE NOTE! There are no user-serviceable assemblies in the device.



PLEASE NOTE! Maintenance and repair work may only be carried out by qualified specialist personnel authorised by the manufacturer. If in doubt, consult the manufacturer.



PLEASE NOTE! Improperly performed maintenance work may affect warranty claims.

OPTIONAL ACCESSORIES

CLIDMXSTICKG2

W-DMX® receiver

CLPFLAT1REMOTE

Infrared remote control

SCP710BSET1

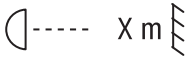
Truss clamp with M10 bolt

TECHNICAL DATA

Item number	CLROOTBAR6
Product category	Static LED Light
Type	LED Bar
Light source	RGBWAuV
LED-QTY	18 pcs RGBWAuV
Luminous Flux	4200 lm
Lenze / optic	Plastic lenze
LED PWM	650 Hz; 1530 Hz; 2150 Hz; 4000 Hz
Dimmer resolution	8 / 16 bit
Dimmer curves	Linear, exponential, S-curve, logarithmic
Strobe	0 Hz - 20 Hz
Calibration	User
CRI	70
Beam angle / field angle	20° / 37°
Color mixing	RGBWAuV

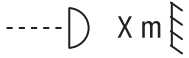
ENGLISH	Color control	RGBWAuV Static; Chase, Color Presets, Pattern, Sound, DMX-Delay (EZ-Chase)
	Control protocols	DMX; Stand-Alone; Master-Slave; i-DMX Stick
	Data connections	3-Pin XLR in/out, i-DMX Stick
DEUTSCH	DMX modes	2CH, 4CH-Sound, 4CH-2, 5CH, 6CH Direct, 6CH Pattern, 8CH, 11CH Sound, 11CH Pattern, 24CH, 27CH, D3CH, D5CH-Sound, D5CH-Direct, D6CH, D7CH, D9CH, D12CH
	DMX functions	RGBWAuV Static, Chase, Color Presets, Pattern, Sound, DMX-Delay (EZ-Chase)
FRANCAIS	Stand-Alone	RGBWAuV Static, Auto, Color Presets, Pattern, User color, Loop, Master/Slave, IR Control
	System settings	Display Reverse, Display Backlight, Signal Fail, Sound, PWM, calibration, IR-remote, Reset (Factory, Preset A-C), Edit Preset (A-C), Service
	User interface	Display with 4 buttons
ESPAÑOL	Display / indicators	2 row O-Led display
	IP-Rating	IP20
POLSKI	Ambient temperature rating	0°C - 40°C
	Humidity rating	Up to 80% (non condensing)
	Cooling system	Passive convection, fanless
ITALIANO	Noise level	Noise free (fanless)
	Operation voltage	100 - 240 V; 50 / 60 Hz
	Max. power consumption	133 W
DMX	Fuse	3 A / 250 V
	Power connection	Seetronic TR1 In + Out
	Max load of outlet	13 A
DMX	Risk group	RG1
	Minimum distance to the illuminated surface	0.1 m
DMX	Minimum distance to normally flammable materials	0.1 m
	Housing	String cast aluminium, black powder coated. ABS-Back-back
DMX	Dimensions	1042 mm x 106 mm x 116 mm (without accessiores)
	Weight	5 kg (without accessiores)
DMX	Accessiores included	Glare shield, filter, neon tube filter, 2 x omega bracket, 2 x adjustable stand, power cable
	Accessiores optional	SCP710BSET1, CLPFLAT1REMOTE, CLIDMXSTICKG2

MINIMUM DISTANCE TO ILLUMINATED SURFACE



This symbol with the distance stated in metres (m) indicates the minimum distance of the light fixture to the illuminated surface. The value valid for this device can be found in the technical data in this manual and is printed on the device!

MINIMUM DISTANCE TO NORMALLY FLAMMABLE MATERIALS



This symbol with the distance stated in metres (m) indicates the minimum distance of the device to normally flammable materials. The value valid for this device can be found in the technical data in this manual!

DISPOSAL



PACKAGING:

1. Packaging can be recycled using the usual disposal methods.
2. Please separate the packaging in accordance with the disposal laws and recycling regulations in your country.



DEVICE:

1. This device is subject to the European Directive on Waste Electrical and Electronic Equipment, as amended. WEEE Directive Waste Electrical and Electronic Equipment. Waste equipment does not belong in household waste. Waste equipment must be disposed of via an authorised waste disposal company or a municipal waste disposal facility. Please observe the applicable regulations in your country!
2. Observe all disposal laws applicable in your country.
3. As a private customer, you can obtain information on environmentally friendly disposal options from the seller of the product or the appropriate regional authorities.

MANUFACTURER'S DECLARATIONS

Manufacturer's warranty and limitation of liability

Adam Hall GmbH | Adam-Hall-Str.1 | 61267 Neu-Anspach | Germany

Email: Info@adamhall.com / +49 (0)6081 / 9419-0

Our current warranty conditions and limitation of liability can be found at:

https://cdn-shop.adamhall.com/media/pdf/Manufacturers-Declarations-CAMEO_DE_EN_ES_FR.pdf

For service requests, please contact your distribution partner.

CE conformity

Adam Hall GmbH hereby confirms that this product meets the following guidelines (if applicable):

Low-Voltage Directive (2014/35/EU)

EMC Directive (2014/30/EU)

RoHS Directive

Radio Equipment Directive

EC Declaration of Conformity

Declarations of conformity for the products subject to the Low-Voltage Directive, the EMC Directive, and the RoHS Directive can be requested at: info@adamhall.com

Declarations of conformity for products subject to RED can be downloaded from www.adamhall.com/compliance/

Subject to misprints and errors, as well as technical or other modifications!

**DMX CONTROL / DMX STEUERUNG / PILOTAGE DMX /
CONTROL DMX / STEROWANIE DMX / CONTROLLO DMX**

2CH	4CH Sound					
Channel	Channel	Function	Values			
1	1	Dimmer	000	-	255	0% to 100%
	2	Strobe Functions	000	-	005	Open
			006	-	010	Closed
			011	-	022	Ramp up/down slow to fast
			023	-	033	Ramp up/down random slow to fast
			034	-	045	Ramp up slow to fast
			046	-	056	Ramp up random slow to fast
			057	-	068	Ramp down slow to fast
			069	-	079	Ramp down random slow to fast
			080	-	102	Random Strobe effect slow to fast
			103	-	127	Strobe Break effect 5s to 1s (short burst with break)
			128	-	250	Strobe slow to fast (<1Hz to 20Hz)
			251	-	255	Open
2	3	Colour Presets	000	-	005	No function
			006	-	013	Red
			014	-	021	Amber
			022	-	029	Yellow warm
			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 Jumping/Fading Stop
			128	-	164	Colour Jumping slow to fast
165	-	201	Colour Fading slow to fast			
202	-	207	User Colour 1			
208	-	213	User Colour 2			
214	-	219	User Colour 3			

2	3	Colour Presets	220	-	225	User Colour 4
			226	-	255	No function
	4	Sound (triggers Strobe, Colour Jumping & Fading, Patterns)	000	-	005	No function
			006	-	255	Sound Control On, mic sensitivity low to high

4CH-2	6CH Direct	8CH					
Channel	Channel	Channel	Function	Values			
		1	Dimmer	000	-	255	0% to 100%
		2	Strobe	000	-	005	Open
				006	-	255	Strobe slow to fast (<1Hz to 20Hz)
1	1	3	Red	000	-	255	0% to 100%
2	2	4	Green	000	-	255	0% to 100%
3	3	5	Blue	000	-	255	0% to 100%
4	4	6	White	000	-	255	0% to 100%
	5	7	Amber	000	-	255	0% to 100%
	6	8	UV	000	-	255	0% to 100%

5CH						
Channel	Function	Values				
1	Dimmer	000	-	255	0% to 100%	
2	Strobe	000	-	005	Open	
		006	-	255	Strobe slow to fast (<1Hz to 20Hz)	
3	Chase	000	-	005	No function	
		006	-	026	Jump 10s to 4s	
		027	-	127	Jump 4s to 0.1s	
		128	-	148	Fade 10s to 4s	
		149	-	255	Fade 4s to 0.1s	
4	Colour Presets 1	000	-	005	No function	
		006	-	013	Red	
		014	-	021	Amber	
		022	-	029	Yellow warm	
		030	-	037	Yellow	
		038	-	045	Green	
		046	-	053	Turquoise	
		054	-	061	Cyan	
		062	-	069	Blue	
070	-	077	Lavender			

4	Colour Presets 1	078 - 085	Mauve
		086 - 093	Magenta
		094 - 101	Pink
		102 - 109	Warm White
		110 - 117	White
		118 - 125	Cold White
		126 - 127	Colour Jumping/Fading Stop
		128 - 164	Colour Jumping slow to fast
		165 - 201	Colour Fading slow to fast
		202 - 207	User Colour 1
		208 - 213	User Colour 2
		214 - 219	User Colour 3
		220 - 225	User Colour 4
		226 - 255	No function
5	Colour Presets 2	000 - 005	No function
		006 - 013	Red
		014 - 021	Amber
		022 - 029	Yellow warm
		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 Jumping/Fading Stop
		128 - 164	Colour Jumping slow to fast
		165 - 201	Colour Fading slow to fast
		202 - 207	User Colour 1
208 - 213	User Colour 2		
214 - 219	User Colour 3		
220 - 225	User Colour 4		
226 - 255	No function		

6CH Pattern				
Channel	Function	Values		
1	Dimmer	000 - 255	0% to 100%	
2	Strobe Functions	000 - 005	Open	
		006 - 010	Closed	
		011 - 022	Ramp up/down slow to fast	
		023 - 033	Ramp up/down random slow to fast	
		034 - 045	Ramp up slow to fast	
		046 - 056	Ramp up random slow to fast	
		057 - 068	Ramp down slow to fast	
		069 - 079	Ramp down random slow to fast	
		080 - 102	Random Strobe effect slow to fast	
		103 - 127	Strobe Break effect 5s to 1s (short burst with break)	
		128 - 250	Strobe slow to fast (<1Hz to 20Hz)	
		251 - 255	Open	
3	Colour Presets	000 - 005	No function	
		006 - 013	Red	
		014 - 021	Amber	
		022 - 029	Yellow warm	
		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 Jumping/Fading Stop	
		128 - 164	Colour Jumping slow to fast	
		165 - 201	Colour Fading slow to fast	
		202 - 207	User Colour 1	
208 - 213	User Colour 2			
214 - 219	User Colour 3			
220 - 225	User Colour 4			
226 - 255	No function			

4	Pattern Selection	000 - 005	Off
		006 - 026	1
		027 - 047	2
		048 - 068	3
		069 - 089	4
		090 - 110	5
		111 - 131	6
		132 - 152	7
		153 - 173	8
		174 - 194	9
		195 - 215	10
		216 - 236	11
237 - 255	12		
5	Pattern Position & Speed	000 - 005	Pattern Speed Stop
		006 - 063	Pattern Speed slow to fast (Chase)
		064 - 127	Pattern Speed fast to slow (Chase) (backwards)
		128 - 191	Pattern Speed slow to fast (Fade)
		192 - 255	Pattern Speed fast to slow (Fade) (backwards)
6	Sound (triggers Strobe, Colour Jumping & Fading, Patterns)	000 - 005	No function
		006 - 255	Sound Control On, mic sensitivity low to high

24CH	27CH					
Channel	Channel	Function	Values			
1	1	Dimmer	000	-	255	0% to 100%
	2	Dimmer fine	000	-	255	
	3	Strobe Functions	000 - 005	Open		
			006 - 010	Closed		
			011 - 022	Ramp up/down slow to fast		
			023 - 033	Ramp up/down random slow to fast		
			034 - 045	Ramp up slow to fast		
			046 - 056	Ramp up random slow to fast		
			057 - 068	Ramp down slow to fast		
			069 - 079	Ramp down random slow to fast		
			080 - 102	Random Strobe effect slow to fast		
			103 - 127	Strobe Break effect 5s to 1s (short burst with break)		
			128 - 250	Strobe slow to fast (<1Hz to 20Hz)		
			251 - 255	Open		
1	4	Red 1	000	-	255	0% to 100%

2	5	Green 1	000	-	255	0% to 100%
3	6	Blue 1	000	-	255	0% to 100%
4	7	White 1	000	-	255	0% to 100%
5	8	Amber 1	000	-	255	0% to 100%
6	9	UV 1	000	-	255	0% to 100%
7	10	Red 2	000	-	255	0% to 100%
8	11	Green 2	000	-	255	0% to 100%
9	12	Blue 2	000	-	255	0% to 100%
10	13	White 2	000	-	255	0% to 100%
11	14	Amber 2	000	-	255	0% to 100%
12	15	UV 2	000	-	255	0% to 100%
13	16	Red 3	000	-	255	0% to 100%
14	17	Green 3	000	-	255	0% to 100%
15	18	Blue 3	000	-	255	0% to 100%
16	19	White 3	000	-	255	0% to 100%
17	20	Amber 3	000	-	255	0% to 100%
18	21	UV 3	000	-	255	0% to 100%
19	22	Red 4	000	-	255	0% to 100%
20	23	Green 4	000	-	255	0% to 100%
21	24	Blue 4	000	-	255	0% to 100%
22	25	White 4	000	-	255	0% to 100%
23	26	Amber 4	000	-	255	0% to 100%
24	27	UV 4	000	-	255	0% to 100%

11CH Sound	11CH Pattern	Function	Values
1	1	Dimmer	000 - 255
2		Dimmer fine	000 - 255
3	2	Strobe Functions	000 - 005
			006 - 010
			011 - 022
			023 - 033
			034 - 045
			046 - 056
			057 - 068
			069 - 079
			080 - 102
			103 - 127
			128 - 250

3	2	Strobe Functions	251	-	255	Open
4	3	Red	000	-	255	0% to 100%
5	4	Green	000	-	255	0% to 100%
6	5	Blue	000	-	255	0% to 100%
7	6	White	000	-	255	0% to 100%
8	7	Amber	000	-	255	0% to 100%
9	8	UV	000	-	255	0% to 100%
10		Colour Presets (override Colour Mixing)	000	-	005	No function
			006	-	013	Red
			014	-	021	Amber
			022	-	029	Yellow warm
			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 Jumping/Fading Stop
			128	-	164	Colour Jumping slow to fast
			165	-	201	Colour Fading slow to fast
			202	-	207	User Colour 1
208	-	213	User Colour 2			
214	-	219	User Colour 3			
220	-	225	User Colour 4			
226	-	255	No function			
9		Pattern Selection	000	-	005	Off
			006	-	026	1
			027	-	047	2
			048	-	068	3
			069	-	089	4
			090	-	110	5
			111	-	131	6
			132	-	152	7
			153	-	173	8
			174	-	194	9

	9	Pattern Selection	195 - 215	10
			216 - 236	11
			237 - 255	12
	10	Pattern Position & Speed	000 - 005	Pattern Speed Stop
			006 - 063	Pattern Speed slow to fast (Chase)
			064 - 127	Pattern Speed fast to slow (Chase) (backwards)
			128 - 191	Pattern Speed slow to fast (Fade)
	11	Sound (Triggers Strobe, Colour Jumping & Fading, Patterns)	000 - 005	No function
			006 - 255	Sound Control On, mic sensitivity low to high

D5CH Direct				
Channel	Function	Values		
1	Red	000 - 255	0% to 100%	
2	Green	000 - 255	0% to 100%	
3	Blue	000 - 255	0% to 100%	
4	White	000 - 255	0% to 100%	
5	DMX Delay	000 - 005	Off (no Delay)	
		006 - 255	0,1s to 2,0s	

D3CH	D5CH Sound	Function	Values		
1	1	Dimmer	000 - 255	0% to 100%	
	2	Strobe Functions	000 - 005	Open	
			006 - 010	Closed	
			011 - 022	Ramp up/down slow to fast	
			023 - 033	Ramp up/down random slow to fast	
			034 - 045	Ramp up slow to fast	
			046 - 056	Ramp up random slow to fast	
			057 - 068	Ramp down slow to fast	
			069 - 079	Ramp down random slow to fast	
			080 - 102	Random Strobe effect slow to fast	
			103 - 127	Strobe Break effect 5s to 1s (Short burst with break)	
			128 - 250	Strobe slow to fast (<1Hz to 20Hz)	

	2	Strobe Functions	251 - 255	Open
2	3	Colour Presets	000 - 005	No function
			006 - 013	Red
			014 - 021	Amber
			022 - 029	Yellow warm
			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 Jumping/Fading Stop
			128 - 164	Colour Jumping slow to fast
165 - 201	Colour Fading slow to fast			
202 - 207	User Colour 1			
208 - 213	User Colour 2			
214 - 219	User Colour 3			
220 - 225	User Colour 4			
226 - 255	No function			
	4	Sound (Triggers Strobe, Colour Jumping & Fading)	000 - 005	No function
			006 - 255	Sound Control On, mic sensitivity low to high
3	5	DMX Delay	000 - 005	Off (no Delay)
			006 - 255	0,1s to 2,0s

D7CH	D9CH	D12CH			
Channel	Channel	Channel	Function	Values	
	1	1	Dimmer	000 - 255	0% to 100%
		2	Dimmer fine	000 - 255	
	2		Strobe	000 - 005	Open
				006 - 255	Strobe slow to fast (<1Hz to 20Hz)
		3	Strobe Functions	000 - 005	Open
				006 - 010	Closed

				011 - 022	Ramp up/down slow to fast
				023 - 033	Ramp up/down random slow to fast
				034 - 045	Ramp up slow to fast
				046 - 056	Ramp up random slow to fast
				057 - 068	Ramp down slow to fast
		3	Strobe Functions	069 - 079	Ramp down random slow to fast
				080 - 102	Random Strobe effect slow to fast
				103 - 127	Strobe Break effect 5s to 1s (short burst with break)
				128 - 250	Strobe slow to fast (<1Hz to 20Hz)
				251 - 255	Open
1	3	4	Red	000 - 255	0% to 100%
2	4	5	Green	000 - 255	0% to 100%
3	5	6	Blue	000 - 255	0% to 100%
4	6	7	White	000 - 255	0% to 100%
5	7	8	Amber	000 - 255	0% to 100%
6	8	9	UV	000 - 255	0% to 100%
				000 - 005	No function
				006 - 013	Red
				014 - 021	Amber
				022 - 029	Yellow warm
				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
		10	Colour Presets (override Colour Mixing)	126 - 127	Colour Jumping/Fading Stop

		10	Colour Presets (override Colour Mixing)	128 - 164	Colour Jumping slow to fast
				165 - 201	Colour Fading slow to fast
				202 - 207	User Colour 1
				208 - 213	User Colour 2
				214 - 219	User Colour 3
				220 - 225	User Colour 4
				226 - 255	No function
		11	Sound (Triggers Strobe, Colour Jumping & Fading)	000 - 005	No function
				006 - 255	Sound Control On, mic sensivity low to high
7	9	12	DMX Delay	000 - 005	Off (no Delay)
				006 - 255	0,1s to 2,0s

D6CH		
Channel	Function	Values
1	Dimmer	000 - 255 0% to 100%
2	Strobe	000 - 005 Open
		006 - 255 Strobe slow to fast (<1Hz to 20Hz)
3	Chase	000 - 005 No function
		006 - 026 Jump 10s to 4s
		027 - 127 Jump 4s to 0.1s
		128 - 148 Fade 10s to 4s
		149 - 255 Fade 4s to 0.1s
4	Colour Presets 1	000 - 005 No function
		006 - 013 Red
		014 - 021 Amber
		022 - 029 Yellow warm
		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		

4	Colour Presets 1	118 - 125	Cold White
		126 - 127	Colour Jumping/Fading Stop
		128 - 164	Colour Jumping slow to fast
		165 - 201	Colour Fading slow to fast
		202 - 207	User Colour 1
		208 - 213	User Colour 2
		214 - 219	User Colour 3
		220 - 225	User Colour 4
		226 - 255	No function
5	Colour Presets 2	000 - 005	No function
		006 - 013	Red
		014 - 021	Amber
		022 - 029	Yellow warm
		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 Jumping/Fading Stop
		128 - 164	Colour Jumping slow to fast
165 - 201	Colour Fading slow to fast		
202 - 207	User Colour 1		
208 - 213	User Colour 2		
214 - 219	User Colour 3		
220 - 225	User Colour 4		
226 - 255	No function		
6	DMX Delay	000 - 005	Off (no Delay)
		006 - 255	0,1s to 2,0s



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