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

cameo®

GREEN SOLUTION

CMY

4-SHUTTER FRAMING BLADES

LED TECHNOLOGY

LINEAR CTO

C ETL US
Intertek

COLD WHITE

COLOUR WHEEL

W-DMX™

FOCUS

ARTNET COMPATIBLE

IRIS

SACN COMPATIBLE

GOBO WHEEL

FLICKER FREE

LINEAR PRISM

ZOOM

CIRCULAR PRISM
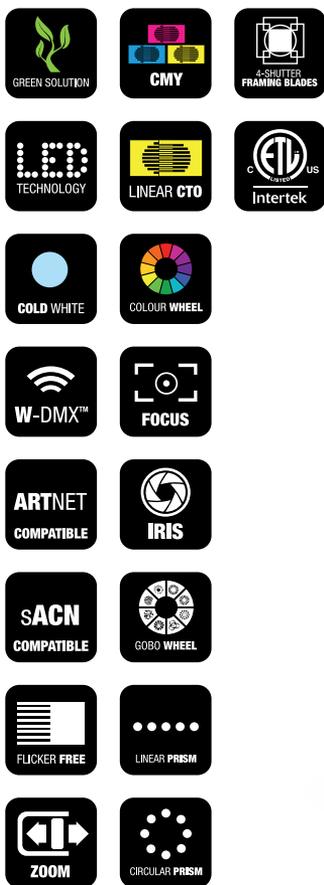
OPUS SP5 PLUS
PROFILE MOVING HEAD
CLOSP5PLUS

CONTENTS / INHALTSVERZEICHNIS / CONTENU / CONTENIDO / TREŚĆ / CONTENUTO

FRANÇAIS

ESPAÑOL

POLSKI

ITALIANO

ENGLISH

You have made the right choice!

This device has been developed and manufactured to the highest quality standards to ensure many years of problem-free operation. Please read this user manual carefully to be able to use your new Cameo product quickly and optimally. 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

The 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!

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 inappropriate!

Liability for damage and third-party damage to persons and property due to inappropriate use is excluded!

The product is not suitable for:

- Use by 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).

DEFINITIONS AND SYMBOL EXPLANATIONS

1. **DANGER:** The word DANGER, possibly in combination with a symbol, indicates immediately dangerous situations or conditions for life and limb.

2. **WARNING:** The word WARNING, possibly in combination with a symbol, indicates potentially dangerous situations or conditions for life and limb.

3. **CAUTION:** The word CAUTION, possibly in combination with a symbol, is used to indicate situations or conditions that may lead to injury.

4. **ATTENTION:** The word ATTENTION, possibly in combination with a symbol, refers to situations or states that can lead to damage to property and/or the environment.

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This symbol identifies hazards that can cause electric shock.

This symbol identifies 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 a device in which there are no user-replaceable parts.

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

SAFETY INSTRUCTIONS

HAZARD:

1. Do not open or modify the unit.
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 unit 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 power cables may only be replaced by a qualified person.

ATTENTION:

1. Do not operate the unit if it has been exposed to large temperature fluctuations (for example, after transport). Moisture and condensation can damage the device. Switch on the device only when it has reached room temperature.
2. Make sure that the voltage and frequency of the mains supply correspond to the values indicated on the unit. If the device has a voltage selector switch, do not connect the device until it has been set correctly. Use only suitable power cables.

3. To disconnect the unit 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 unit.
5. Make sure that appropriate measures have been taken against overvoltage (e.g. lightning strike).
6. Observe the specified maximum output current on units with Power Out connection. Ensure that the total current consumption of all connected devices does not exceed the specified value.
7. Replace pluggable mains cables only with original cables.

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

WARNING:
1. Use the device only in the manner intended.
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 unit, check all cable routes to avoid damage or accidents, e.g. 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.
6. Always observe the minimum distance to the illuminated surface that can be read on the device!

CAUTION:
1. In the case of moving components such as mounting brackets or other moving components, there is a possibility of jamming.
2. In the case of units with motor-driven components, there is a risk of injury from the movement of the unit. Sudden movement of the device can cause shock reactions.
3. The housing surface of the device can become very hot during regular operation. Ensure that accidental touching of the housing is not possible. Always allow the lamp to cool sufficiently before removal, maintenance work and charging etc.

ATTENTION:

1. Do not install or use the device in the vicinity of radiators, accumulators, 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 any 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 unit.
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 on the device always takes priority.
8. The unit is not suitable for tropical climates and for operation above 2000 m above sea level.
9. Unless explicitly stated, the unit is not suitable for operation in marine conditions .

CAUTION! IMPORTANT INFORMATION REGARDING LIGHTING PRODUCTS!

1. Never look directly into the beam of light, not even for a short period of time.
2. Never look into the beam of light using optical devices such as a magnifying glass.
3. Stroboscopic effects may cause epileptic seizures in susceptible individuals!

SIGNAL TRANSMISSION BY RADIO (E.G. W-DMX OR AUDIO RADIO SYSTEMS):

The quality and performance of wireless signal transmissions generally depends on the ambient conditions.
The following factors can impact range and signal stability, for example:
Shielding (e.g. masonry, metal structures, water)
High volume of radio traffic (e.g. powerful wireless LAN networks)
Interference
Electromagnetic radiation (e.g. LED video screens, dimmers)
All range specifications refer to free-field application with visual contact and without interference!

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

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WARNING: Devices with wireless signal transmission are not suitable for use in sensitive areas in which radio operation can lead to potential detrimental effects. These include:

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

TRANSMISSION VIA W-DMX

WARNING: Ingeneral, wireless DMX transmission must not be used for applications with safety-related factors that could result in personal injury or property damage in the event of failure.

This applies in particular to moving scene or traverse 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 trigger flame or pyrotechnic devices, explosion-driven effects, or to control gas or liquid effects. These include CO2 cannons, confetti shooters, water effects or similar.

CAUTION! POTENTIAL DAMAGE FROM EXTERNAL LIGHT SOURCES!

Solar radiation, laser radiation and bundled light beams from other spotlights can damage the housing and internal components such as filters, gobo and colour wheels, motors, cables, belts, etc., as well as light sources!

Do not expose the unit and especially the lens opening to direct sunlight, laser radiation and bundled light beams from other spotlights during unpacking, installation, prolonged non-use and operation! Always point the lens opening towards the floor when the unit is not in use! For this purpose, also use the Sun Protection function, which can be activated via DMX command (see Device Settings channel in the DMX table). An integrated gyroscope sensor detects the position of use. Damage caused by external light sources is excluded from the manufacturer's warranty!

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DMX
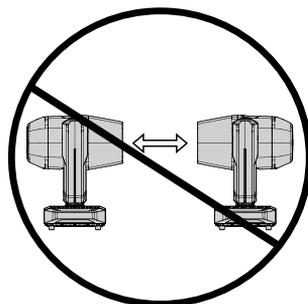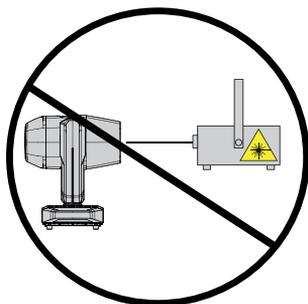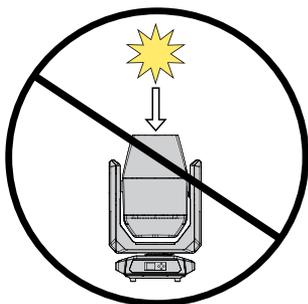
i | **NOTES FOR MOBILE INDOOR DEVICES**
1. Temporary operation! Event equipment is generally only designed for temporary operation.
2. Continuous operation or permanent installation can impair the functioning of the device and cause premature ageing.

INCLUDED

Remove the product from the packaging and remove all packaging material.
Please check the completeness and integrity of the delivery and notify
Please contact your sales partner immediately after the purchase if the delivery is not complete or is damaged. The packaging includes:
▶ 1 x OPUS SP5 PLUS LED Moving Head
▶ 2 x Omega mounting bracket
▶ 1x Power cord
▶ User manual

INTRODUCTION

MOVING HEAD OPUS SERIES
CLOSP5PLUS

CONTROL FUNCTIONS:

34-channel and 50-channel DMX control (CLOSP5PLUS)

27-channel and 33-channel DMX control (CLOSP5PLUS with optional CLOSP5AM animation

wheel module)

Art-Net

sACN

W-DMX™

RDM-enabled

Master/slave operation

Standalone functions

FEATURES:

500 W High Efficiency LED. Framing Shutter Module. CMY + CTO colour blending Colour wheel with 7 brilliant colours + open and split colours. Gobo wheel 1 with 8 fixed gobos + open. Gobo wheel 2 with 7 rotating gobos + open (gobos interchangeable). 2 rotating prisms. Focusing and zoom function via DMX. Frosted filter and iris Strobe. Pan and tilt motors with 16-bit resolution. Battery-powered. Display for mains-independent setting. Automatic position correction. Temperature-controlled fans. 3- and 5-pole DMX connections. RJ45 network connections. Wireless DMX™ Neutrik powerCON TRUE1 mains connections IN and OUT. 2 Omega mounting brackets included. Operating voltage 100-240 V AC. Power consumption 800W. The spotlight features the RDM standard (Remote Device Management). Remote device management allows the user to view the status and configuration of RDM terminals via an RDM-capable controller.

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ADDITIONAL PROPERTIES

The CLOSP5P moving head comes equipped with a 4-way framing shutter module. The 4-way framing shutter module can be interchanged with the CLOSP5AM animation wheel module. The software and corresponding DMX modes are upgraded automatically.

CONNECTIONS, OPERATING AND DISPLAY ELEMENTS

POWER IN: 100–240 V AC 50–60 Hz
POWER CONSUMPTION: 800 W · WEIGHT: 27.8 kg

NET IN   DMX IN   DMX OUT

8

FUSE
T8AL / 250 V   POWER IN   POWER OUT

6

3   **1**   **2**   **7**   **4**   **5**

Cameo® is a brand of the Adam Hall Group.
Adam-Hall-Str. 1 · 61267 Neu-Anspach · Germany
DESIGNED AND ENGINEERED IN GERMANY. Assembled in PRC   MAX: 4A

NET OUT   DMX IN   DMX OUT
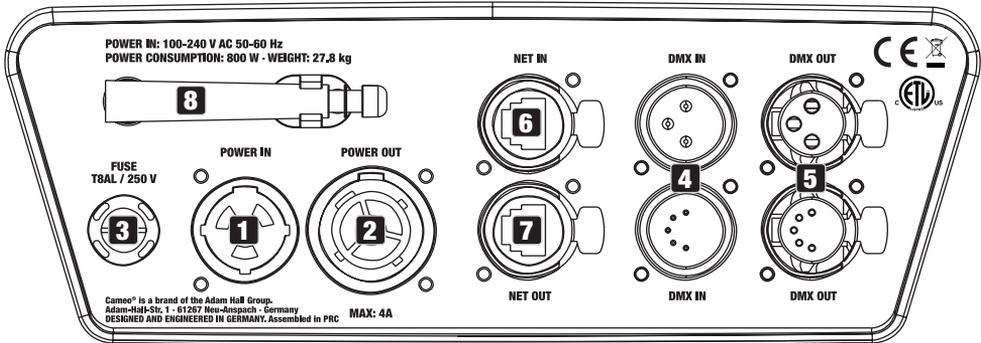
1 POWER IN

Neutrik powerCON TRUE1 mains input socket. Operating voltage 100–240 V AC/50–60 Hz. A suitable mains cable with powerCON TRUE1 plug is included.

2 POWER OUT

Neutrik powerCON TRUE1 mains output socket. Facilitates power supply to other CAMEO spot-lights. Ensure that the total power consumption of all devices connected to the device does not exceed the given ampere (A) value.

3 FUSE

Fuse holder for 5 x 20 mm micro fuses. IMPORTANT NOTE: Replace the fuse only with one of the same type and rating. In the event of repeated fuse failure, please contact an authorised service centre.

4 DMX IN

Male 3-pin and 5-pin XLR sockets for connection of a DMX control device (e.g. DMX console).

5 DMX OUT

Female 3-pin or 5-pin XLR sockets for sending the DMX control signal.

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6 NET IN

RJ45 network connector for connecting to an Art-Net or sACN network. Use CAT 5e or better cables to set up the network.

7 NET OUT

RJ45 network connector for connecting additional Art-Net or sACN-capable devices to the network. Use CAT 5e or better cables to set up the network.

8 ANTENNA FOR W-DMX™

The antenna for control via W-DMX™ remains in the holder (= operating position) during operation.

9 PRESSURE SENSITIVE LC DISPLAY WITH ILLUMINATION

Thanks to the pressure-sensitive LC display, the device can be operated directly from the display (glove-compatible). The LCD display shows the currently activated mode (main display), the menu items in the selection menu and the numerical value or operating status in certain menu items. If there is no control signal to the device, the display starts flashing; the flashing stops as soon as a control signal is present (DMX and slave operation, ArtNet and sACN).

10 TOUCH-SENSITIVE CONTROLS

MODE - Pressing MODE (repeatedly) takes you one level up in the menu structure, to the main display.

UP ▲ and DOWN ▼ - Select the individual menu items in the main menu (DMX address, operating mode, etc.) and in the submenus.

ENTER – Starting from the main display, press ENTER to enter the main menu. In the main menu, press ENTER to access the menu level in which values can be changed. Confirm value changes by pressing ENTER.

LEFT ◄ and RIGHT ► - Use the control panels to change the value of a menu item, such as the DMX address, as desired.

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11 USB INTERFACE

USB interface for updating the device firmware. In the **Service menu**, set the status for **USB update** to **ON**. When available, download the latest firmware from the product page at www.cameolight.com, unzip it and copy the files to a folder without special characters on a USB stick. Disconnect the Moving Head from the mains and all input connections (DMX / Ethernet), connect the USB stick to the USB interface and reconnect the Moving Head to the mains. The USB stick is automatically recognised and shown in the display. Now navigate to the corresponding folder on the USB stick and confirm with ON. The update procedure begins. Do not remove the USB stick or disconnect the Moving Head from the mains during the update procedure.

The battery-powered display can be activated, even if the device is not connected to the mains. To do this, press and hold MODE for approximately 3 seconds. You can now access device information to change and save system settings without mains connection. External control of the spotlight is not activated in this case. For this reason, the display shows that there is no DMX signal even if a DMX signal is available at the device.

12 PAN LOCK

Mechanical locking device used to prevent the rotation of the head in the horizontal direction during transport. Disconnect the unit from the mains, move the head parallel to the base (4 possible positions) and push the locking lever in the direction of the pan rotation axis to lock it in position. Unlock the device before startup.

13 TILT LOCK

Mechanical locking device used to prevent the rotation of the head in the vertical direction during transport (7 positions). Disconnect the unit from the mains and slide the locking lever in the direction of the tilt rotation axis, moving the head of the unit vertically until one of the 7 locking positions is found and the locking lever engages. Unlock the device before startup.
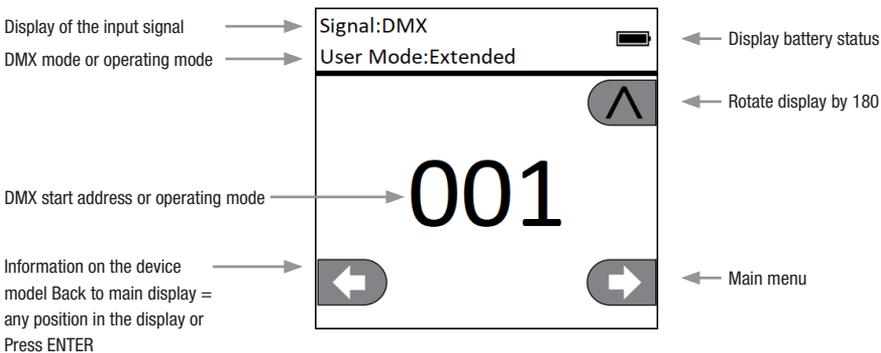
OPERATION

NOTES

As soon as the fixture is correctly connected to the mains, "Software Update Please Wait..." and the Cameo logo with information on the fixture model are shown in the display one after the other during the start-up process and the motor reset. After this process, the spotlight is ready for operation and the previously selected mode will be activated. On the one hand, the headlamp is operated with the help of the touch-sensitive control panels next to the display; on the other hand, the pressure-sensitive display (glove-compatible) itself can be used to reach all menu items and make settings intuitively as desired. Information on which control element in the display and which control panel next to the display have the same function can be found in the adjacent table. The following describes the operation using the control panels next to the display.

Display		Bedienfeld
↩	=	MODE
⬆	=	UP
◻	=	ENTER
⬇	=	DOWN
−	=	LEFT
+	=	RIGHT

MAIN DISPLAY

The top line of the display shows whether and which control signal is present at the unit, the line below shows the currently activated operating mode (DMX Standard / Extended, Static, Auto, Slave) and the DMX start address or the corresponding operating mode (in the example DMX start address 001) is clearly visible in the middle. As soon as the control signal is interrupted, the characters in the display start flashing and "None" (no signal) is displayed behind "Signal" in the upper line. The display can be rotated 180° by tapping the touch-sensitive control panel DOWN; if the display is already rotated 180°, tap the control panel UP to return the display to the standard image. The display can also be rotated 180° by pressing the "roof symbol" in the pressure-sensitive display.

Display of the input signal ⟶ **Signal:DMX**

DMX mode or operating mode ⟶ **User Mode:Extended**

Display battery status ⟵

Rotate display by 180 ⟵

DMX start address or operating mode ⟶ **001**

Information on the device model Back to main display = any position in the display or Press ENTER ⟶

Main menu ⟵

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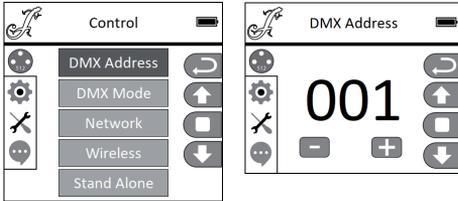FRANCAIS

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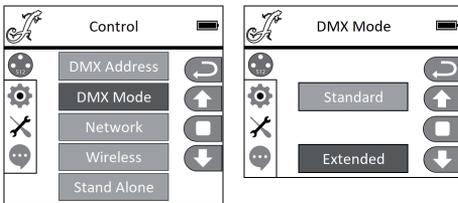
DMX

CONTROL MENU (Control)

SETTING DMX START ADDRESS (DMX Address)

Starting from the main display, press ENTER to enter the main menu. Use the and controls to select the control menu Control and press ENTER. Use UP and DOWN to select the menu item "DMX Address" and confirm by pressing ENTER. Now set the desired DMX start address using the LEFT and RIGHT control panels and confirm with ENTER (highest value depends on the activated DMX mode). Press MODE twice to return to the main display, the selected DMX start address is now shown in large letters on the display when DMX mode is activated.

SET DMX MODE (DMX Mode)

Starting from the main display, press ENTER to enter the main menu. Use the and controls to select the control menu Control and press ENTER. Use UP and DOWN to select the menu item "DMX Mode" and confirm by pressing ENTER. Select the desired DMX mode again with UP and DOWN and confirm the selection with ENTER. Press MODE 2x to return to the main display, the selected DMX mode is now activated. Tables with the channel assignment of the different DMX modes can be found in these instructions under DMX CONTROL.

NETWORK SETTINGS (Network)

Starting from the main display, press ENTER to enter the main menu. Use the and controls to select the control menu Control and press ENTER. Use UP and DOWN to select the menu item "Network" and confirm by pressing ENTER. For information on the network settings, please refer to the table below. Confirm all network setting changes with ENTER.

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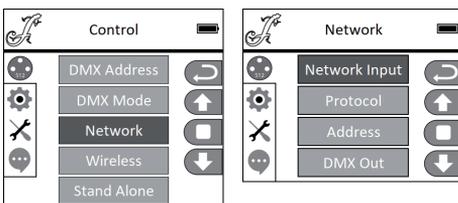
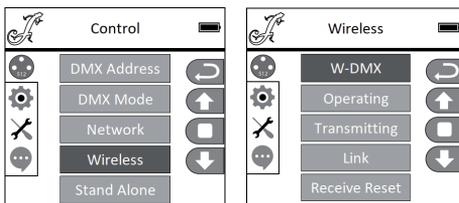| Network			
Network Input	Activate / deactivate network input	OFF	Network input deactivated
		ON	Network input activated
Protocol	Network protocol	ArtNET	ArtNet Protocol
		sACN	sACN protocol
Address	Universe 1 - 256, Set IP address and subnet mask	Universe 000 - 255	000 to 255. Change value with LEFT and RIGHT, confirm with ENTER.
		IP Address	Select block with LEFT and RIGHT, change value with UP and DOWN, confirm with ENTER.
		IP Subnet Mask	Select block with LEFT and RIGHT, change value with UP and DOWN, confirm with ENTER.
DMX OUT	Output network signal via DMX OUT	OFF	Do not output signal
		ON	Output signal

W-DMX SETTINGS (Wireless)

Starting from the main display, press ENTER to enter the main menu. Use the and controls to select the control menu Control and press ENTER. Use UP and DOWN to select the menu item "Wireless" and confirm by pressing ENTER. For information on the W-DMX settings, please refer to the table below. Confirm all changes to the settings with ENTER.

Wireless		
W-DMX	OFF	Deactivate W-DMX
	ON	Activate W-DMX
Operating *(currently in beta status)*	Receiver	W-DMX module configured as receiver
	Transmitter	W-DMX module configured as transmitter
Transmitting *(currently in beta status)*	G3	G3 transmission standard
	G4s	G4S transmission standard
Link	Link	Pair with W-DMX devices. W-DMX must be enabled on all devices, and the pairing with a transmitter must be reset (Receive Reset)
	Unlink	Unpair all devices
Receive Reset	NO	Do not reset transmitter pairing
	YES	Reset transmitter pairing

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STAND ALONE MODES (Stand Alone)

Starting from the main display, press ENTER to enter the main menu. Use the and controls to select the control menu Control and press ENTER. Using and , now select the menu item "Stand Alone" and confirm by pressing ENTER. Now select one of the three stand-alone modes using the and controls and confirm with ENTER.

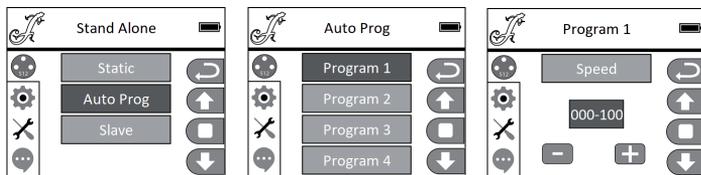[Control menu screen: DMX Address, DMX Mode, Network, Wireless, Stand Alone]
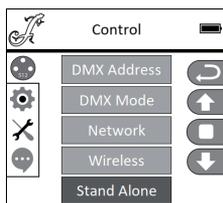
STANDALONE STATIC MODE (Static)

The Static mode allows PAN, Tilt, Dimmer, Strobe, Colour Wheel and Gobo Wheel etc. to be adjusted directly on the device with values between 000 to 255, similar to a DMX control unit. In this way, an individual scene can be created without an additional DMX controller. After you have selected the "Static" operating mode, as previously described under "STAND ALONE OPERATING MODES", the settings can be made as desired. The submenu items correspond to channels 1 to 50 in 50-channel extended DMX mode (see DMX CONTROL, select submenu item with UP and DOWN, change value with LEFT and RIGHT, confirm with ENTER). Press MODE repeatedly to return to the main display.

[Stand Alone menu screen: Static, Auto Prog, Slave]
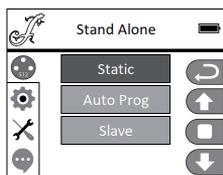
STAND ALONE OPERATION MODE AUTO PROGRAMS (Auto Prog)

The 4 different auto programmes (Program 1 - 4) each consist of fixed programmed head movements, gobo and colour changes etc., the running speed can be set separately. As previously described under "STAND ALONE OPERATING MODES", select the Auto operating mode, confirm with ENTER, select the desired Auto programme using UP and DOWN, confirm with ENTER and now change the value for the running speed from 000 to 100 as desired using LEFT and RIGHT. Confirm with ENTER. Press MODE repeatedly to return to the main display.

[Stand Alone screen: Static, Auto Prog, Slave] [Auto Prog screen: Program 1, Program 2, Program 3, Program 4] [Program 1 screen: Speed, 000-100]

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SLAVE MODE (Slave)

The slave operating mode is selected as previously described under item "STAND ALONE OPERA-TING MODES". Connect the slave unit and the master unit (same model, same software version) using a DMX cable (master DMX OUT - slave DMX IN) and activate one of the standalone modes Auto or Static in the master unit. The slave unit will now follow the master unit. Press MODE repeatedly to return to the main display.
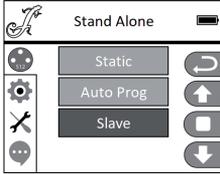
⊙ SYSTEM SETTINGS (Settings)

Starting from the main display, press ENTER to enter the main menu. Select the Settings menu for the system settings using the UP and DOWN control panels and press ENTER.
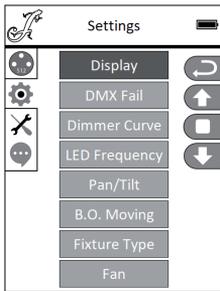
This will take you to the submenu for setting the submenu items (see table, select with UP and DOWN, confirm with ENTER, change value or status with UP and DOWN, confirm with ENTER).

Settings (bold = factory setting)				
Display	Display Settings	Reverse	**OFF**	No display rotation
			ON	Display is rotated through 180° (e.g. for overhead installation)
		Backlight	**OFF**	Deactivation of the display lighting after approx. 30 seconds of inactivity
			ON	Display lighting permanently on
DMX fail	Operating status when DMX signal is interrupted	Black		Activates blackout
		Hold		Last command is retained
		Car		activates Auto mode
Dimmer curve	Selecting the Dimmer curve	**Linear**		Light intensity increases linearly with DMX value

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Dimmer Curve	Selecting the Dimmer curve	Exponential	Light intensity can be finely adjusted at lower DMX values and broadly adjusted at higher DMX values
		Logarithmic	Light intensity can be broadly adjusted at lower DMX values and finely adjusted at higher DMX values
		Dimmer curve	Light intensity can be finely adjusted at lower and higher DMX values and broadly adjusted at medium DMX values
LED Frequency	Configuration of LED PWM frequency	**650Hz**, 1530Hz, 3600Hz, 12KHz, 25KHz	
Pan / Tilt	Device head settings	Pan reverse	**OFF** Does not reverse pan direction
			ON Reverses pan direction
		Tilt Reverse	**OFF** Does not reverse tilt direction
			ON Reverses tilt direction
		Pan Angle	630 Pan angle 630°
			540 Pan angle 540°
		Feedback	OFF Automatic position correction is disabled
			ON Automatic position correction is enabled
B.O. Moving	Automatic blackout for head movement	**OFF**	No blackout during head movement
		ON	Blackout during head movement
Fixture Type	Device type:	Profile modules	
		Spot Module	
Fan	Fan control	Car	Automatic fan control
		Fan Off	Deactivated fan with greatly reduced brightness
		Constant Low	Constantly low fan speed with reduced brightness, if necessary
		Constant Mid	Constant average fan speed with reduced brightness, if necessary
		Constant High	Constant high fan speed

DIMMER CURVES

linear — Light intensity / DMX value
exponential — Light intensity / DMX value
logarithmic — Light intensity / DMX value
S-curve — Light intensity / DMX value

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⚒ SERVICEMENU

Starting from the main display, press ENTER to enter the main menu. Use the UP and DOWN control fields to select the Service menu and press ENTER.

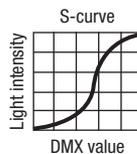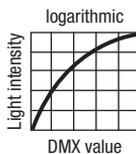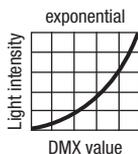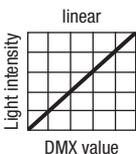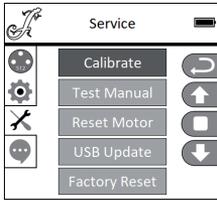| Service	
Calibrate	↩
Test Manual	⬆
Reset Motor	⬛
USB Update	⬇
Factory Reset	

This takes you to the submenu for editing the submenu items (select with UP and DOWN, confirm with ENTER, change value with LEFT and RIGHT, confirm with ENTER).

Calibrate - Calibrate the components with values from 000 to 255 (password 050).

**Test Manual** - Manual testing of the components with values from 000 to 255.

Reset Motor - Reset the motors. **All** = All motors, **Pan&Tilt** = Pan and Tilt motors,

Head Only = Motors in the unit head.

USB Update - Firmware update via USB interface. **OFF** = Block firmware update via USB

interface. **ON** = Allow firmware update via USB interface.

Factory Reset - Reset to factory settings.

💬 DEVICE INFORMATION (Info)

Starting from the main display, press ENTER to enter the main menu. Use the and controls to select the information menu Info and press ENTER.

Info	
Error Info	↩
Temperature	⬆
Runtime	⬛
Firmware	⬇
Model Info	
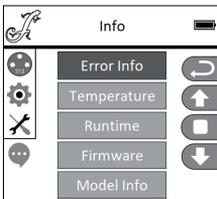
This will take you to the submenu for reading the device information (select with and , confirm with ENTER).

System Info			
Error info	Function error display If a fault is not corrected by a reset or restart, the defective unit must be repaired by an authorised service centre.		
Tempera-ture	Temperature display	Head	xx°C/F°
		Base	xx°C/F°
		Unit	Temperature display in degrees Celsius or Fahrenheit

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Runtime	Displays operating time	Total Time	Displays total operating time in hours
		Current Time	Displays the current operating time
		Time PW	Enter the password for resetting the current operating time (Time PW = 050)
		Clean Current	Resets the current operating time
Firmware	Display of the firm- ware of the compo- nents 1U to 8U	Vx.xx	
Model Info	Information about the unit version	Profiles Modules	Module with framing shutter
		Spot Module	Module with animation wheel

SETUP AND INSTALLATION

Thanks to its integrated rubber feet, the spotlight can be positioned in a suitable location on a firm and level surface. Traverse installation can be achieved with the help of two Omega brackets, which are attached to the base of the device (A). 2 x Omega brackets are included. Suitable beam clamps are available as an option. Ensure firm connections and secure the spotlight to the secu-ring lug (B) with a suitable safety cable.

IMPORTANT NOTE: Overhead installation requires extensive experience, including calculation of working load limits, installation materials used and regular safety checks of all installation materials and fixtures. If you do not have these qualifica-tions, do not attempt to perform an installation yourself. Refer instead to a qualified professional.
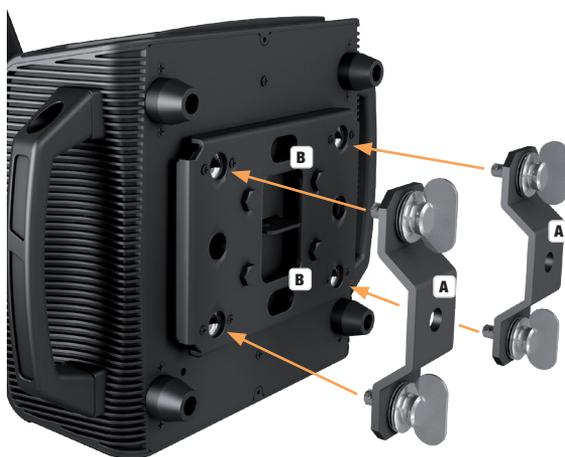
CARE, MAINTENANCE AND REPAIR

In order to ensure the long-term, proper functioning of the device, it must be regularly cleaned and, if necessary, maintained. The maintenance requirement depends on the intensity of use and the environment in which it is used. We generally recommend a visual inspection before each operation. 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 in the event of defects resulting from inadequate maintenance.

CARE (carried out by 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 of the device or even its destruction.

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 (e.g. fans must be blocked in this case).
3. Lines and plug contacts 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 generally be stored dry and protected from dust and dirt.

MAINTENANCE AND REPAIR (by qualified personnel only)

HAZARD! There are live components in the device. Even after disconnecting the mains connection, 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.

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TECHNICAL DATA

Product number:	CLOSP5PLUS
Product type:	LED moving light
Type:	Moving Head
Number of lamps:	1
Type of lamp:	500W High Efficiency LED
Colour temperature lamp:	Cold white 6600K
CRI:	>70
LED PWM frequency:	650Hz, 1530Hz, 3600Hz, 12kHz, 25kHz (adjustable)
Colour blend function:	CMY + CTO
Number of colours: Colour wheel:	7 + open and split colours
Number of gobos:	15 + open (8 fixed + 7 rotating)
Gobo size:	Ø outside 22.9mm (-0.2 / +0.1mm), Ø motif 19mm, material thickness 1.1mm (glass)
Beam angle:	6° - 42°
DMX input:	3-pin XLR male 5-pin XLR male
DMX output:	3-pin XLR female 5-pin XLR female
Network connections.	RJ45 IN and OUT (lockable)
DMX mode:	34-channel, 50-channel
DMX functions:	Pan/Tilt, Pan/Tilt fine, Dimmer, Dimmer fine, Multifunctional strobe, Cyan, Cyan fine, Magenta, Magenta fine, Yellow, Yellow fine, CTO, CTO fine, Colour wheel, Colour wheel rotation, Gobo wheel 1, Gobo 1 rotation, Gobo 1 rotation fine, Gobo wheel 1 rotation, Gobo 1 shake, Gobo wheel 2, Gobo wheel 2 rotation, Gobo 2 shake, Zoom, Zoom fine, Focus, Focus fine, Iris, Prism, Prism Rotation, Frost, Blade 1 - 4, Blade 1 - 4 fine, Shape Rotation, Shape Rotation fine, Pan/Tilt Macros, Pan/Tilt Speed, Dimmer Curve, System Settings
Standalone functions:	Automatic programmes 1–4, static mode, master/slave operation
System settings:	Wireless Setting, Display Reverse, Display Lighting On/Off, DMX Fail, Dimmer Curve, Pan Reverse, Tilt Reverse, Pan Angle, Feedback, Fan Setting, Movement Blackout, Test, Motor Reset, Factory Reset, Network Settings
Control:	DMX512, RDM enabled, W-DMX™ (Receiver), Art-Net, sACN
PAN angle:	540°/630°
TILT angle:	270°
Operating controls:	Touch-sensitive controls BACK, ENTER, UP, DOWN, LEFT, RIGHT, pressure-sensitive graphic colour LCD display (glove-compatible)
Display elements:	Illuminated graphic colour LC display, battery-powered for mains-independent system settings

Operating voltage:	100–240 V AC / 50–60 Hz
Power consumption:	800 W
Luminous flux:	22000 lm
Power supply connection:	Neutrik TRUE1 input and output (output max. 4A)
Fuse:	T8AL / 250V (5 x 20mm)
Ambient operating temperature:	-15°C to 40°C
Relative air humidity:	< 85%, non-condensing
Minimum distance to illuminated surface:	3 m
Minimum distance to normally flammable materials:	0.5 m
Housing material:	Metal, ABS
Housing colour:	Black
Housing cooling:	Heatpipe cooling system plus temperature controlled fans
Dimensions (W x H x D, without bracket):	397 x 741.5 x 285mm
Weight:	27.8kg
Additional features:	1m mains cable with TRUE1 plug and 2 Omega mounting brackets included

MINIMUM DISTANCE TO ILLUMINATED SURFACE
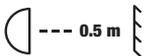
This symbol with distance information in metres (m) indicates the minimum distance of the luminaire to the illuminated surface. In this example, the distance is 0.5m. Please refer to the technical data in this manual and the imprint on the unit casing for the value valid for this unit!

MINIMUM DISTANCE TO NORMALLY FLAMMABLE MATERIALS

This symbol with distance indication in metres (m) indicates the minimum distance of the appliance to normally flammable materials. In this example, the distance is 0.5m. Please refer to the technical data in this manual for the value valid for this unit!

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DISPOSAL

PACKAGING:

1. Packaging can be fed into the reusable material cycle 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 appliance is subject to the European Directive on Waste Electrical and Electronic Equipment as amended. WEEE Directive Waste Electrical and Electronic Equipment. Old appliances do not belong in household waste. The old device must be disposed of via an approved disposal company or a municipal 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 & limitation of liability

Adam Hall GmbH, Adam-Hall-Str. 1, D-61267 Neu Anspach /

E-mail: 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

In case of service, please contact your sales partner.

CE conformity

Adam Hall GmbH hereby confirm that this product meets the following guidelines (where applicable):

Low-Voltage Directive (2014/35/EU)

EMC Directive (2014/30/EU)

RoHS (2011/65/EU)

RED (2014/53/EU)

EC Declaration of Conformity

Declarations of conformity for products subject to the LVD, EMC, RoHS Directive can be requested from 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!

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