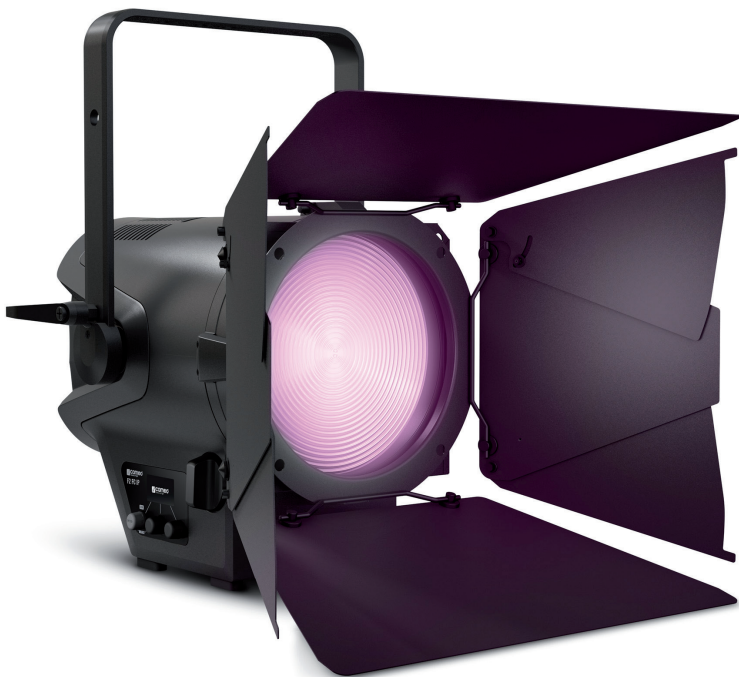


USER'S MANUAL
BEDIENUNGSANLEITUNG
MANUEL D'UTILISATION
MANUAL DE USUARIO
INSTRUKCJA OBSŁUGI
MANUALE D'USO

 **cameo**[®]



F2 FC IP

PROFESSIONAL HIGH-POWER FRESNEL WITH RGBW LED IP65
CLF2FCIP

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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. **HAZARD:** The word HAZARD, possibly in combination with a symbol, indicates situations in which there is an immediate danger or risk of potentially fatal injury.
2. **WARNING:** The word WARNING, possibly in combination with a symbol, indicates situations in which there is an immediate danger or risk of potentially fatal injury.
3. **CAUTION:** The word CAUTION, possibly in combination with a symbol, indicates situations or conditions that could result in injury.
4. **ATTENTION:** The word ATTENTION, possibly in combination with a symbol, indicates situations or conditions that could result in damage to property and/or the environment.



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 the device and do not carry out 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 unplug it from the power source. 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 device's power cable is damaged, the device may not be used.
4. Permanently connected power cables may only be replaced by a qualified person.

**ATTENTION:**

1. Do not switch on the device if it has been exposed to extreme temperature fluctuations (for example, following transport). Moisture and condensation can damage the device. Switch on the device only when it has reached room temperature.
2. Ensure that the voltage and frequency of the mains supply match the values specified on the device. 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 device from the mains on all poles, it is not sufficient to press the on/off switch on the device.
4. Make sure that the fuse used corresponds to the type printed on the device.
5. Ensure that suitable measures have been taken against overvoltage (e.g. lightning strikes).
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 power cables with original cables only.

**HAZARD:**

1. Choking hazard! Plastic bags and small parts must be kept out of reach of persons (including children) with reduced physical, sensory or mental capabilities.
2. Risk of falling! 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 in the prescribed manner only.
2. Operate the device using only accessories of the type recommended and supplied by the manufacturer.
3. Observe safety regulations applicable in your country during installation.
4. After connecting the device, ensure that all cables are routed so as to avoid damage or accidents, such as from tripping.
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 may become jammed.
2. In the case of devices with motor-driven components, there is a risk of injury due to the movement of the device. 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 device 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. For transport, use the original packaging or packaging provided by the manufacturer.
5. Avoid any impacts to or shaking of the device.
6. Observe the IP rating and the ambient conditions such as temperature and humidity according to the specifications.
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 has priority.
8. The device is not suitable for tropical climate zones or for operation over 2,000 m above sea level.
9. Unless explicitly stated, the device is not suitable for operation under marine conditions.

**PLEASE NOTE:**

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

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!



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

NOTES ON PORTABLE OUTDOOR DEVICES



1. Temporary operation! Event equipment is generally only designed for temporary operation.
2. Continuous operation or permanent structural installation – particularly outdoors – can impair the function, surfaces and seals and accelerate material fatigue.
3. Damage to the surface coating can impair the device's corrosion protection. Damaged surface coating (e.g. scratches) must be promptly repaired by suitable measures.

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.

Included with the product CLF2FCIP are:

- ▶ 1 x Cameo F2 FC IP Floodlight
- ▶ 1x power cable
- ▶ 1 x sash limiter
- ▶ 1 x filter frame
- ▶ User manual

INTRODUCTION

Professional High-Power Fresnel with RGBW LED
CLF2FCIP

CONTROL FUNCTIONS

1-channel, 2-channel DIM, 2-channel CCT, 3-channel RGB, 4-channel RGBW, 4-channel CCT, 6-channel HSI/CCT, 7-channel RGB/CCT, 8-channel RGBW 16Bit, 10-channel HSI/CCT, 16-channel RGBW/CCT 16Bit

Master/slave operation

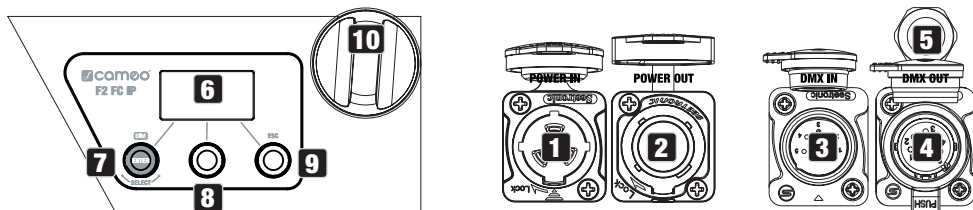
Standalone functions

FEATURES

IP65 protection class. 1 x High Power 240W RGBW LED. 17°– 53° beam angle, manual zoom. 200mm Fresnel lens. Adjustable PWM frequency (flicker-free). DMX-512 control. RDM-enabled. Manual control. 4 dimming curves. 16 bit dimming. Master/Slave operation. Extremely quiet operation due to combined heat pipe and fan cooling. Operating voltage 100–240 V AC/50–60Hz. Power consumption 220W. Mounting bracket, filter frame and 8-position barn doors included.

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.

CONNECTIONS, OPERATING AND DISPLAY ELEMENTS



1 POWER IN

TRUE1-compatible mains input socket. Operating voltage 100–240 V AC/50–60 Hz.

2 POWER OUT

TRUE1 kompatible Netzausgangsbuchse für die Netzversorgung weiterer CAMEO Scheinwerfer. Ensure that the total power consumption of all devices connected to the device does not exceed the given ampere (A) value.

3 DMX IN

Male 5-pin XLR socket for connection to a DMX control device (e.g. DMX console).

4 DMX OUT

Female 5-pin XLR socket for sending the DMX control signal.

5 PRESSURE EQUALISATION ELEMENT

Pressure equalisation element to prevent condensation inside the housing. In order to ensure its proper function, the element must be protected from contamination.

6 OLED DISPLAY

Displays currently active mode and the menu items in the Edit menu.

7 DIM/MENU

Rotary-push encoder for the adjustment and control of the spotlight.

DIM - In the standalone operating modes CCT, HSI, Direct LED, Gel, User Color and Play Loop, the encoder has the function of the master dimmer (turn encoder).

ENTER - 1. Press ENTER to access the menu level for selecting the operating mode. 2. You move down one level in the menu structure. 3. Press ENTER to confirm a value change, such as changing the DMX address.

SELECT - Turn the encoder to select the menu items on the menu level and change a value in a menu item (e.g. DMX address).

8 The function of the middle turn-push encoder (turn and push) is shown in the corresponding menu item in the centre of the display (line centre = turn, line bottom = push).

9 ESC - If the press function of the right-hand rotary-push encoder is not explicitly shown at the bottom right of the display, pressing the encoder has the function of moving up one level in the menu structure.

10 ZOOM

On either side of the cabinet is a calibration control to manually adjust the beam angle. The two controls are mechanically linked and are directly opposite each other on the housing. Turn the calibration control to adjust the beam angle of the spotlight continuously from 40° to 15°. A rack and pinion system moves the zoom tube with the Fresnel lens in and out of the housing. The further the zoom tube protrudes from the housing, the smaller the beam angle. A stop mechanism prevents the tube from becoming detached from the housing.



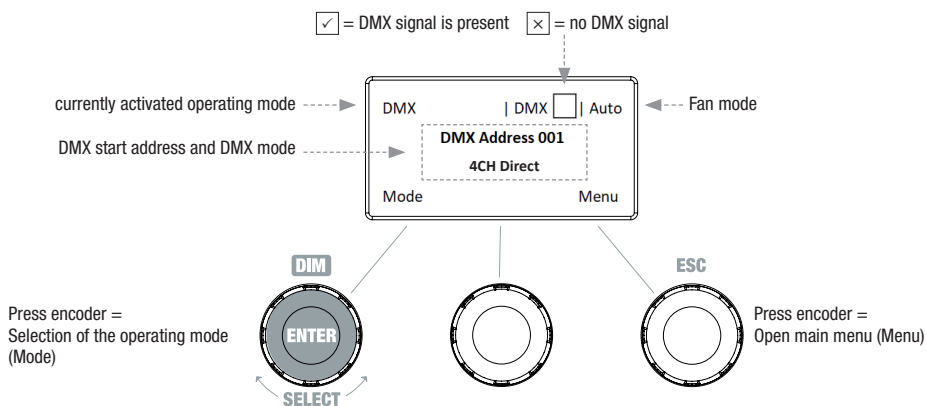
ATTENTION: In order to provide protection from spraying water, in accordance with protection class IP65, special IP65-rated XLR connectors must be used correctly with the DMX input and output sockets, or they must be closed using the rubber sealing caps. When connected correctly, or when sealed correctly with the rubber sealing caps, the POWER IN and POWER OUT sockets are protected from spraying water, as in accordance with IP65.

OPERATION NOTES

- As soon as the spotlight is correctly connected to the power supply, the following will be displayed in succession: „Welcome to Cameo“, the model name and the software version. After this process, the lamp is ready for operation and starts in the previously enabled mode.
- If one of the DMX modes or slave mode is enabled and there is no control signal at the DMX input, the characters in the display will start to flash.
- If no input is made within approx. 1 minute, the currently activated operating mode is automatically shown in the display (main display).

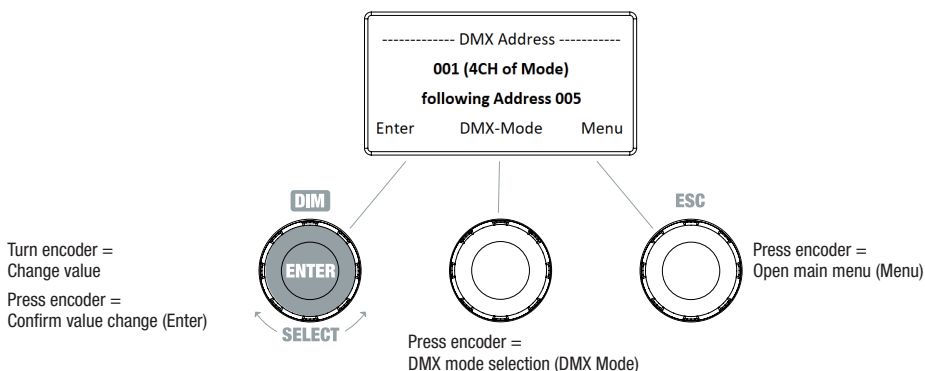
DISPLAY MAIN DISPLAY DMX MODE

The main display in DMX mode shows the currently set DMX start address, DMX mode and other information (see illustration).



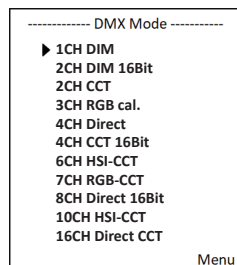
DMX-STARTADRESSE EINSTELLEN (DMX Address)

Starting from the main display, press the rotary-push encoder to enter the main menu. Turn the left encoder (SELECT) to select the menu item **DMX Address** (note the selection arrow on the left) and confirm by pressing the encoder (ENTER). You can now configure the DMX start address as required by rotating the encoder (the highest value depends on the selected DMX mode). At the same time, the DMX start address following the selected start address plus the channel number of the selected DMX mode is displayed (following Address). Confirm the entry by pressing the left encoder (ENTER), this also automatically takes you back to the main display and the DMX operating mode is activated. The menu item for selecting the desired DMX mode can be reached directly from the menu item **DMX Address** by pressing the middle rotary-push encoder (DMX mode); the previously set DMX start address is automatically saved.



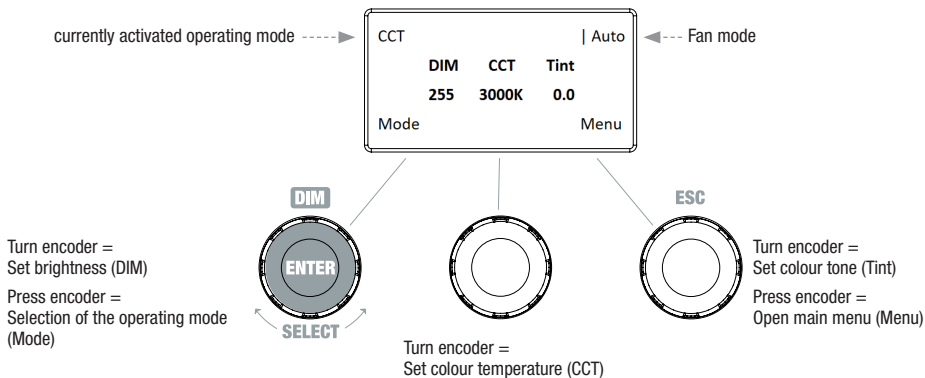
SET DMX MODE (DMX Mode)

Starting from the main display, press the rotary-push encoder to enter the main menu. Turn the left encoder (SELECT) to select the menu item **DMX Mode** (note the selection arrow on the left) and confirm by pressing the encoder (ENTER). Now you can select the desired DMX mode by turning the left encoder. Confirm the selection by pressing the left encoder (ENTER), this also automatically takes you back to the main display and the DMX operating mode is activated. Tables with the channel assignment of the different DMX modes can be found in these instructions under DMX CONTROL.



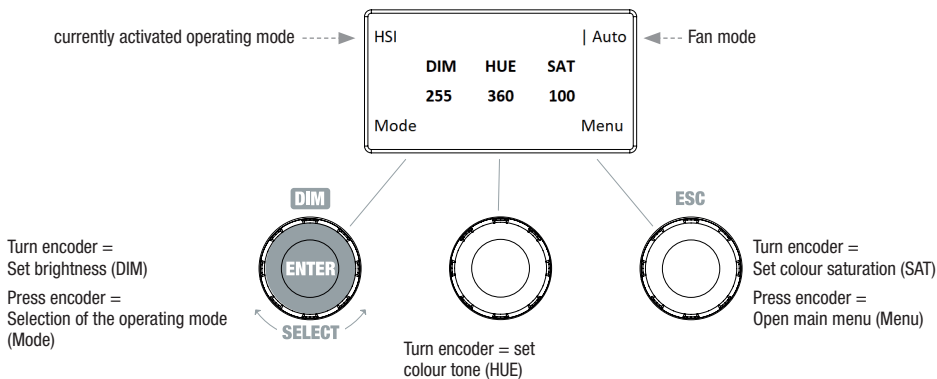
CCT STANDALONE MODE (Correlated Colour Temperature)

Starting from the main display, press the left-hand rotary-push encoder to access the menu for selecting the operating mode. Turn the left encoder (SELECT) to select the **CCT** mode (note the selection arrow on the left) and confirm by pressing the left encoder (ENTER). You can now set the brightness (DIM), colour temperature (CCT) and hue (Tint) using the three rotary-push encoders (see illustration).



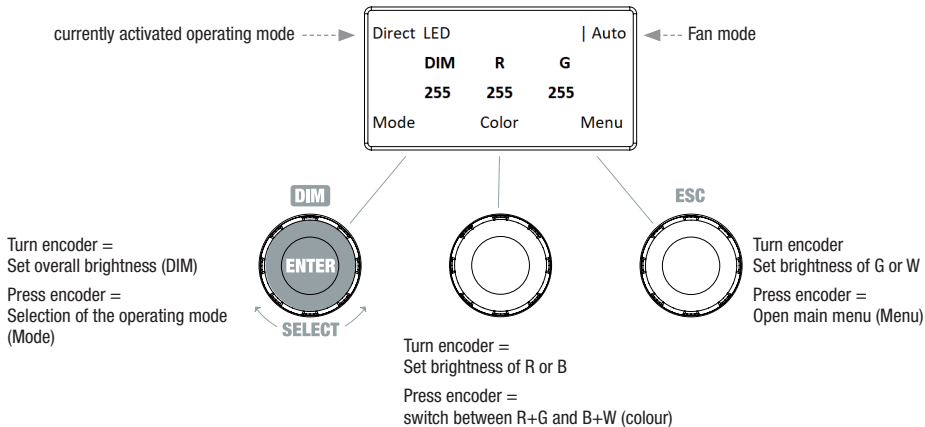
STANDALONE OPERATING MODE HSI (Hue – Saturation – Intensity)

Starting from the main display, press the left-hand rotary-push encoder to access the menu for selecting the operating mode. Turn the left encoder (SELECT) to select the **HSI** operating mode (note the selection arrow on the left) and confirm by pressing the left encoder (ENTER). You can now set the brightness (DIM), hue (HUE) and colour saturation (SAT) using the three rotary-push encoders (see illustration).



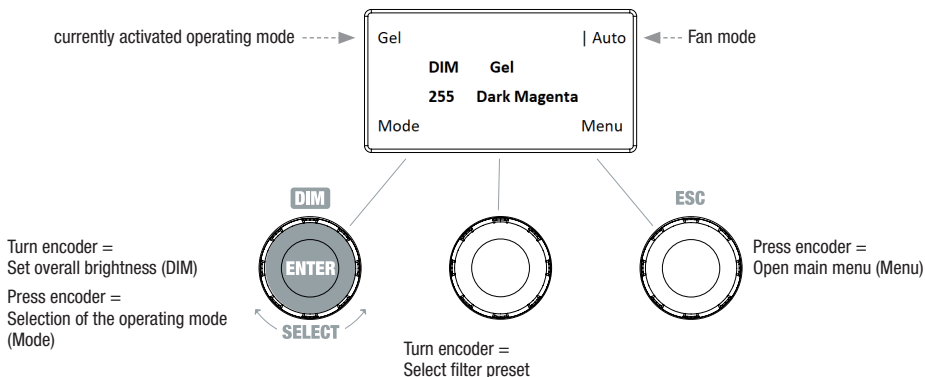
STANDALONE OPERATING MODE DIRECT LED (RGBW colour mixing)

Starting from the main display, press the left-hand rotary-push encoder to access the menu for selecting the operating mode. Turn the left encoder (SELECT) to select the **Direct LED** mode (note the selection arrow on the left) and confirm by pressing the left encoder (ENTER). Now set the total brightness (DIM) and the intensity of R, G, B and W using the three rotary-push encoders (see illustration).



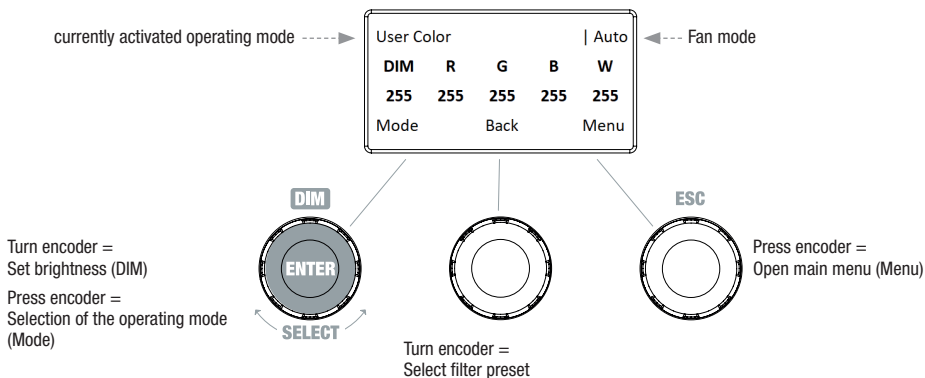
STANDALONE OPERATING MODE GEL (colour filter presets)

Starting from the main display, press the left-hand rotary-push encoder to access the menu for selecting the operating mode. Turn the left encoder (SELECT) to select the **GEL** mode (note the selection arrow on the left) and confirm by pressing the left encoder (ENTER). Now set the brightness (DIM) and colour filter preset (gel) using the left and middle rotary-push encoders (see illustration). For the colour filter presets with Lee filter names, please refer to the DMX tables under DMX CONTROL (channel 8 colour presets in 10-channel DMX mode, without User Colors).



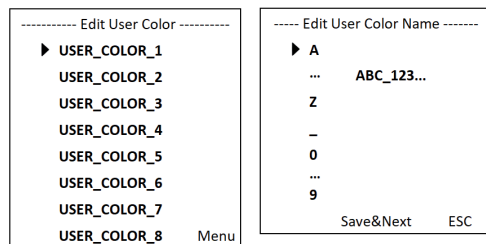
STANDALONE OPERATING MODE USER COLOR (Individual colour presets 1–8)

Starting from the main display, press the left-hand rotary-push encoder to access the menu for selecting the operating mode. Turn the left encoder (SELECT) to select the **User Color** mode (note the selection arrow on the left) and confirm by pressing the left encoder (ENTER). Select one of the 8 pre-programmed, but individually editable colour presets by turning the left encoder again. Confirm the selection by pressing the left encoder (ENTER). Now set the brightness (DIM) of the colour preset using the left encoder (see illustration). Individual preset settings and renaming of presets can be done in the menu item **Edit User Color**.



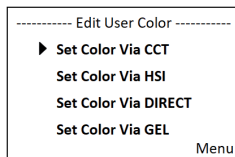
EDIT STANDALONE OPERATING MODE USER COLOR (Edit User Colour)

Starting from the main display, press the rotary-push encoder to enter the main menu. Turn the left encoder (SELECT) to select the menu item **Edit User Color** (note the selection arrow on the left) and confirm by pressing the left encoder (ENTER). Now you can select one of the 8 colour presets by turning the left encoder and confirm the selection by pressing the left encoder (ENTER).

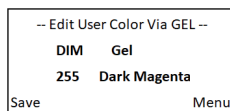
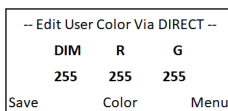
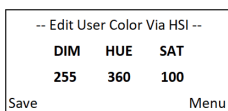
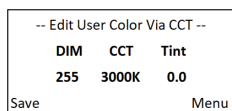


Now give the preset an individual, up to 12-digit name (Edit User Colour Name) by turning the left encoder to select a letter, the underscore or a number for the first digit of the preset name and confirm by pressing the left encoder. This is followed by the input for the second digit and so on. When the preset name is complete, press the middle encoder (Save&Next) to move to the next editing step. If you press **Save&Next** before selecting a letter, an underscore, or a number for the first digit, the previous preset name is retained and you move immediately to the next editing step.

Now decide in which way you want to create the colour for the preset, choose between the 4 methods **CCT**, **HSI**, **DIRECT** and **GEL** by turning the left encoder (SELECT) and confirm by pressing the left encoder (ENTER).

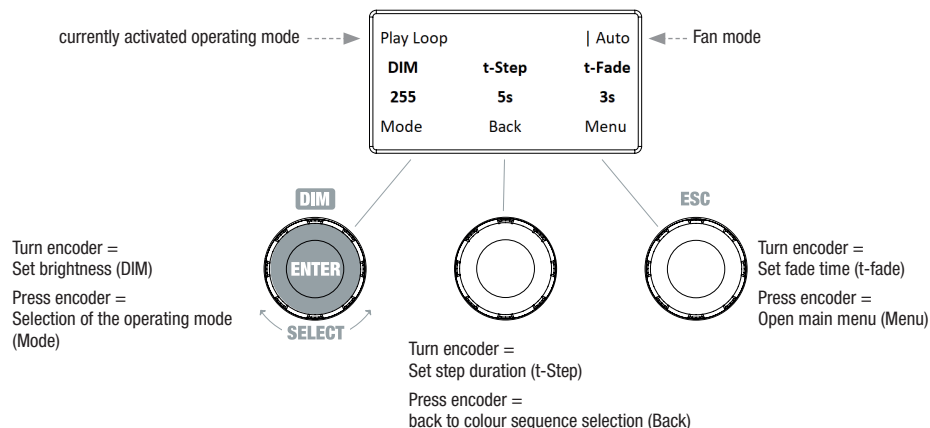


Now set the desired colour as described in the instructions for the respective standalone mode and press the left encoder (ENTER/Save) to confirm.



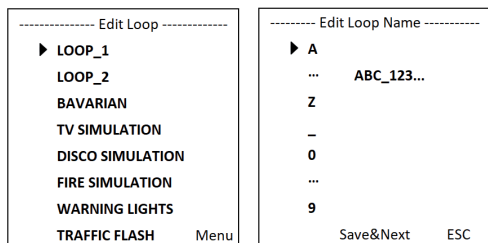
STANDALONE OPERATING MODE PLAY LOOP (8-step colour sequences 1-8)

Starting from the main display, press the left-hand rotary-push encoder to access the menu for selecting the operating mode. Turn the left encoder (SELECT) to select the **Play Loop** mode (note the selection arrow on the left) and confirm by pressing the left encoder (ENTER). Select one of the 8 pre-programmed but individually editable colour sequences by turning the left encoder again. Confirm the selection by pressing the left encoder (ENTER). Now set the brightness (DIM) of the colour sequence using the left encoder, the step duration (0.1 seconds to 21 minutes and 2 random modes) and the fade time (0 seconds to 18 minutes and 2 random modes) using the middle and right encoders (see illustration). The individual settings and renaming of the colour sequences can be done in the menu item **Edit Loop** in the main menu.



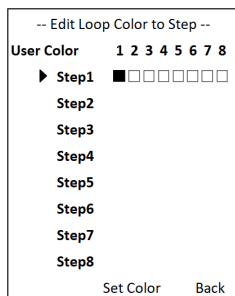
EDIT STANDALONE OPERATING MODE PLAY LOOP (Edit Loop)

Starting from the main display, press the rotary-push encoder to enter the main menu. Turn the left encoder (SELECT) to select the menu item **Edit Loop** (note the selection arrow on the left) and confirm by pressing the left encoder (ENTER). Now you can select one of the 8 colour sequences by turning the left encoder and confirm the selection by pressing the left encoder (ENTER).



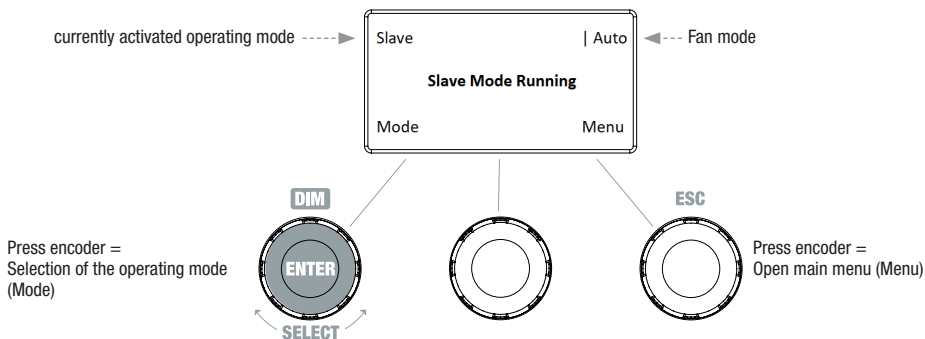
Now give the colour sequence an individual, up to 12-digit name (Edit Loop Name) by turning the left encoder to select a letter, the underscore or a number for the first digit of the preset name and confirm by pressing the left encoder. This is followed by the input for the second digit and so on. When the preset name is complete, press the middle encoder (Save&Next) to move to the next editing step. If you press **Save&Next** before selecting a letter, an underscore, or a number for the first digit, the previous preset name is retained and you move immediately to the next editing step.

Select step 1 of the 8-step sequence (Step1 - Step8) by turning the left encoder, then set the colour of the step (Step1, note the selection arrow). Now select one of the colours set in the standalone mode **User Color** by turning the middle encoder and confirm the selection for step 1 by pressing the middle encoder. The selected colour of the respective step is visually indicated by a box with a light background below the colour numbers 1 to 8. Proceed in the same way to set the colours of steps 2 to 8. Complete the process and save the sequence by pressing the left encoder (ENTER).



SLAVE MODE

Starting from the main display, press the left-hand rotary-push encoder to access the menu for selecting the operating mode. Turn the left encoder to select the **Slave** menu item (note the selection arrow on the left) and confirm by pressing the encoder (ENTER). Slave mode is now enabled, and the main display is automatically displayed. Connect the slave unit and the master unit (same model, same software version) using a DMX cable and activate one of the standalone operating modes in the master unit. The slave unit will now follow the the master unit.



DMX OPERATION

Starting from the main display, press the left-hand rotary-push encoder to access the menu for selecting the operating mode. Turn the left encoder to select the menu item **DMX** (note the selection arrow on the left) and confirm by pressing the encoder (ENTER). DMX mode is now activated and the main display is automatically shown again. Select one of the ten available DMX modes in the **DMX Mode** menu item in the main menu (see SET DMX MODE).

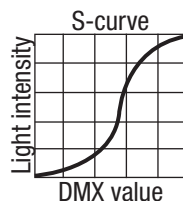
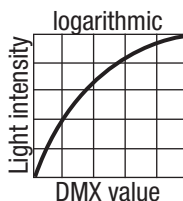
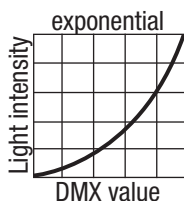
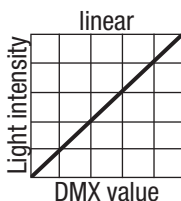
DEVICE SETTINGS (Settings)

Starting from the main display, press the rotary-push encoder to enter the main menu. Turn the left encoder (SELECT) to select the **Settings** menu item (note the selection arrow on the left) and confirm by pressing the left encoder (ENTER). This takes you to the submenu for setting the submenu items (see table, select with SELECT, confirm with ENTER, change value or status with SELECT, confirm with ENTER).

Settings (bold = factory setting)				
Display Flip	=	Display rotation	Standing Position	No rotation of the display
			Hanging Position	Display is rotated by 180° (e.g. for overhead installation)
Display Time off	=	Display lighting	Display always on	on permanently
			Display off after 20s	Deactivates after approximately 20 seconds of inactivity
DMX fail	=	Operational status with DMX signal fault	Hold	Last command is retained
			or blackout,	Activates blackout
			User Colour 8	activates User Color 8
Dimmer curve	=	Dimmer curve	Linear	Light intensity increases linearly with DMX value
			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
			S-curve	Light intensity can be finely adjusted at lower and higher DMX values and broadly adjusted at medium DMX values
Dimmer response	=	Dimmer response	LED	Light responds abruptly to changes in DMX value
			Halogen	Light behaves like a halogen spotlight with slight brightness changes
Red Shift	=	accurately mimics the colour drift of dimming a halogen spotlight. When dimming the spotlight, the colour temperature changes automatically to increasingly warm white and amber (and vice versa).	No	Colour drift is disabled
			Dim To Warm	Colour drift is enabled
PWM Frequency	=	LED PWM frequency	600 Hz / 1200 Hz / 2000 Hz / 4000 Hz / 6000 Hz / 25 kHz	Configuration of LED PWM frequency

Colour Calibration	=	Colour calibration	RAW - Off	R, G, B and W with maximum value 255
			RAW - Adjust (individual, cross-mode adjustment of R, G, B, and W with values from 000 to 255 each)	Press middle encoder = switch between R+G and B+W (colour) Turn middle encoder = set value of R or B Press right encoder = one level higher in the menu structure (ESC) Turn right encoder = set value of G or W Press left encoder = confirm and save settings
			Calibrated	Factory calibration of R, G, B and W (across all modes). Select this setting for the correct display of the colour tones and presets in the standalone modes CCT and Gel , as well as when controlling CCT and the presets Gel via DMX.
			Smart Calibration	Merging Factory (Calibrated) and RAW Calibration
Autolock	=	Automatic locking of the controls	On	Automatic locking of the controls after approximately 30 seconds of inactivity. Display after operating attempt: "Locked!" Unlocking: Press the middle and right encoder simultaneously for approx. 3 seconds
			Off	Automatic locking of the controls is disabled
Fan	=	Fan setting	Car	Automatic fan control
			Off	Deactivated fan with greatly reduced brightness
			Constant Low	Constantly low fan speed with reduced brightness, if necessary
			Constant Medium	Constant average fan speed with reduced brightness, if necessary
			Constant High	Constant high fan speed
Factory Reset	=	Reset to factory settings (without resetting the User Colors and Loops)	Reset Now?	Reset to factory settings: confirm with ENTER, cancel with ESC
UC/Loops Reset	=	Resetting the User Colors and the Loops to Factory Default	Reset User Colors/Loops	Reset to factory settings: confirm with ENTER, cancel with ESC

Dimmer curves



SYSTEMINFORMATIONEN (System Info)

Starting from the main display, press the rotary-push encoder to enter the main menu. Turn the left encoder (SELECT) to select the **System Info** menu item (note the selection arrow on the left) and confirm by pressing the left encoder (ENTER). By turning the left encoder, you can now display the desired information (see table).

System Info	
Main CPU	Device firmware
LED Temp.	LED temperature display in degrees Celsius and Fahrenheit
Op. Hours	Total operating time in hours and minutes
Display	Display switch-off activated/deactivated
DMX-Fail	Operational status with DMX signal fault
Dim Curve	Dimmer curve
Dim Response	Dimmer response
Red Shift.	Colour drift enabled/disabled
PWM	LED PWM frequency
Calibr.	Factory calibration / no adjustment / custom adjustment
Colour-Cal. R	Cross-mode adaptation of red
Colour-Cal. G	Cross-mode adaptation of green
Colour-Cal. B	Cross-mode adjustment of blue
Colour-Cal. W	Cross-mode adjustment of white
Autolock	Automatic locking of the controls activated/deactivated
Fan	Fan setting

MANUAL LOCKING FUNCTION

In addition to the ability to automatically protect the lamp from accidental and unauthorised operation (see “Settings” – “Auto-lock”), the controls can also be locked manually. Press and hold the middle and right rotary-push encoders simultaneously for about 3 seconds. If an attempt is made to change settings, “Locked!” will appear in the display, and changing the spotlight’s settings via the controls is no longer possible. After approx. 1 minute, the current operating mode is displayed again. To release the lock, again press and hold the middle and right rotary-push encoders simultaneously for about 3 seconds. The display will show the previously displayed information.

SETUP AND INSTALLATION



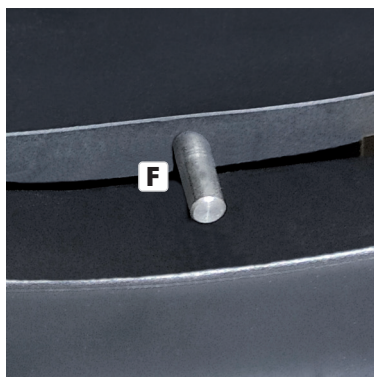
HAZARD: Overhead mounting requires extensive experience, including the calculation of the load limit values of the installation material and regular safety inspection of all installation materials and spotlights. If you do not have these qualifications, do not attempt to perform an installation yourself.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

Thanks to its four plastic feet, the spotlight can be positioned in a suitable location on a level surface. Mounting to a traverse is possible with the pre-installed mounting bracket (A) and a suitable traverse clamp (optional). Ensure firm connections and secure the spotlight by attaching a suitable safety cable to the point intended for this purpose on top of the housing (B). Use the lever screw (C) on one side to adjust the direction of radiation on a vertical plane.



ASSEMBLING / DISASSEMBLING THE SASH LIMITER AND FILTER FRAME / CLEANING THE LENSES

Fully disconnect the device from the mains. To install or remove the barn doors and the filter frame please push the spring-loaded locking pin (E) of the bracket so that it folds upwards. Then return the bracket to its original position so that the locking pin re-engages. The support arm for the sash limiter and filter frame on the underside of the spotlight has a second safety device (F) so that an additional safety rope for the sash limiter is not required. When the sash limiter is mounted on the headlamp, move the lever (E) on the lower retaining arm to the position parallel to the headlamp so that the latch (F) effectively prevents the sash limiter from sliding out of the retaining arm. To open the safety device, turn the lever 90°. To secure the filter frame, use the safety pin supplied.



The front lens (G) is in a rubber frame and the glass lens (H) is located behind it. These can be cleaned by folding the bracket upwards (as previously described) and lifting the front lens (with the rubber frame) out of the angle brackets. Clean the front lens and the glass lens located behind it with a moist, lint-free cloth, making sure not to scratch the surface of the lenses. Now place the front lens in front of the glass lens and fold the bracket back downward until the locking pin engages.



- Illustrations similar -



CAUTION: For safety reasons, the filter frame must always be in the respective bracket on the spotlight, even if no filter is inserted!

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 maintenance work, the power supply and, if possible, all device connections must be unplugged.



PLEASE NOTE! Improper care can lead to impairment of the device or even 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, e.g. due to charged capacitors.



PLEASE NOTE! There are no user-serviceable components 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.

DIMENSIONS

ENGLISH

DEUTSCH

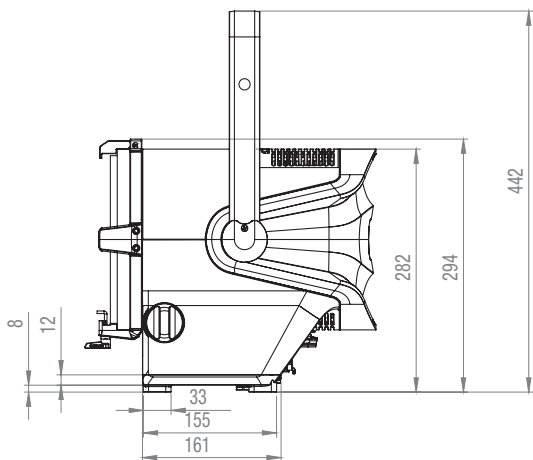
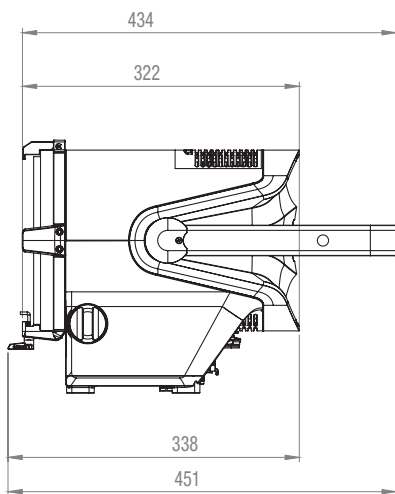
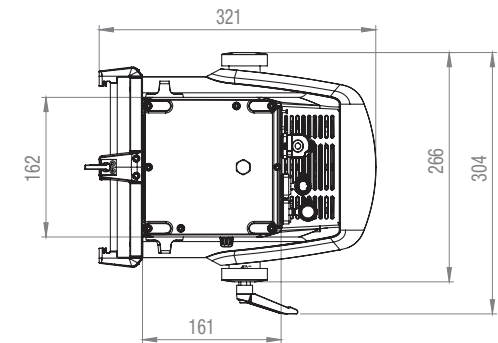
FRANCAIS

ESPAÑOL

POLSKI

ITALIANO

DMX



TECHNICAL DATA

Product number:	CLF2FCIP
Product type:	LED spotlight
Type:	Fresnel spotlight with zoom function
Colour spectrum:	RGBW
CRI:	> 90
Number of LEDs:	1 LED array (Rx18, Gx18, Bx16, Wx37)
LED type:	240W
LED PWM frequency:	600 Hz, 1200 Hz, 2000 Hz, 4000 Hz, 6000 Hz, 25 kHz (adjustable)
Beam angle:	17°– 53° (field 30°– 87°)
DMX input:	5-pin XLR male, IP65
DMX output:	5-pin female XLR, IP65
DMX mode:	1-channel, 2-channel DIM, 2-channel CCT, 3-channel RGB, 4-channel RGBW, 4-channel CCT, 6-channel HSI/CCT, 7-channel RGB/CCT, 8-channel RGBW 16Bit, 10-channel HSI/CCT, 16-channel RGBW/CCT 16Bit
DMX functions:	Dimmer, dimmer fine, strobe, RGBW, RGBW fine, CCT, HSI, colour macros, dimmer curve, dimmer response, PWM frequency, red shift, fan settings
Standalone functions:	Dimmer, strobe, RGBW, auto programme, colour macros, user colour 1–8, master/slave
System settings:	Display flip, display backlight On/Off, DMX fail, dimmer curves, dimmer response, red shift, PWM frequency, color calibration, auto lock, fan settings, Factory Reset, UC/Loops Reset
Control:	DMX512, RDM-enabled
Operating controls:	3x rotary-push encoder, manual zoom
Display elements:	OLED display
Operating voltage:	100–240 V AC / 50–60 Hz
Power consumption:	220W
Luminous flux:	6500lm
Efficiency:	27lm/W
Power supply connection:	INPUT: TRUE1 compatible OUTPUT: TRUE1 compatible (max. 6A)
Ambient temperature (in operation):	-10°C – 45°C
Protection class:	IP65

Relative air humidity: <80%, non-condensing

Housing material: Die-cast metal

Housing colour: Black

Housing cooling: Temperature-controlled fan + heat pipe

Minimum distance to illuminated surface: 0.5 m

Minimum distance to normally flammable materials: 0.5 m

Dimensions (W x H x D, without sash limiter): 304 x 294 x 434 mm (details see drawings)

Weight: 10 kg

Additional features: 200 mm Fresnel lens. Manual zoom Power cable, filter frames, 8-way barn doors and mounting bracket supplied.

EXPLANATION OF IP PROTECTION CLASS

1. An IP rating only reflects protection from solid objects and water. It does not describe general weather resistance, such as protection from UV radiation and temperature, etc.

2. The first identification digit indicates protection from dust, solid objects and contact:

IP2X	Protected against solid foreign bodies ≥ 12.5 mm in diameter
IP3X	Protected against solid foreign bodies ≥ 2.5 mm in diameter
IP4X	Geschützt gegen feste Fremdkörper mit Durchmesser $\geq 1,0$ mm
IP5X	Protected against dust in harmful quantities and completely protected against contact
IP6X	Are dust-tight and completely protected against contact

3. The second identification digit indicates protection from water:

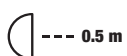
IPX0	No protection
IPX1	Protection against dripping water
IPX2	Protection against dripping water when the device is tilted up to 15°
IPX3	Protection against falling spray water up to 60° from the vertical
IPX4	Protection against splashing water on all sides
IPX5	Protection against water jets (nozzle) from any angle
IPX6	Protection against strong water jets
IPX7	Protection against temporary immersion

4. In addition, some device-specific measures such as covers and sealing caps are necessary in order to achieve the specified protection class (e.g. protective caps on unused connections).

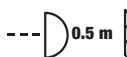


The IP rating of the product can be found in the technical data and is printed on the device.

MINIMUM DISTANCE TO ILLUMINATED SURFACE

 This symbol with distance specification in metres (m) indicates the minimum distance between the light head and the illuminated surface. In this example, the distance is 0.5 m. 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 specification in metres (m) indicates the minimum distance between the light head and normally flammable materials. In this example, the distance is 0.5 m. Please refer to the technical data in this manual for the value valid for this unit!

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 device 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

Contact your distribution partner for service.

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)

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired opera

EC DECLARATION OF CONFORMITY

KDeclarations 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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