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

cameo®

LED TECHNOLOGY
TUNABLE WHITE
STROBE EFFECT
FLICKER FREE
IR CONTROL
512 DMX
MASTER/SLAVE
WARM WHITE
COLD WHITE
SOUND TO LIGHT
STAND ALONE MODE
GREEN SOLUTION

FIRMWARE VERSION 1.1 AND LATER

ROOT PAR TW

7 X 4 W CW + WW PAR SPOTLIGHT
CLROOTPARTW

CONTENTS / INHALTSVERZEICHNIS / TABLE DES MATIÈRES / CONTENIDO / SPIS TREŚCI / CONTENUTO

ENGLISH

DEUTSCH

FRANÇAIS

ESPAÑOL

POLSKI

ITALIANO

DMX

ENGLISH

YOU'VE MADE THE RIGHT CHOICE!

This device was developed and manufactured under high quality requirements to ensure smooth operation for many years. Please read this user manual carefully to ensure you can quickly make the best use of your new Cameo Light product. Further information about Cameo Light is available on our website at WWW.**CAMEOLIGHT**.COM.

INTENDED USE

The product is a device for event technology!
The product has been specially developed for professional use in event technology and is not suitable for use in a household setting!
Temporary operation! Event equipment is generally only designed for temporary operation and is not intended for permanent operation and permanent installation!
Furthermore, this product is only intended for qualified users with expertise in event technology!
Use of the product contrary to the specified technical specifications and operating conditions is considered improper!
Liability for damages or third-party damage to persons and property due to improper use is excluded!

The product is not suitable for:
- use by persons (including children) with reduced physical, sensory, or mental capabilities or with insufficient experience and knowledge.
- children (children must be instructed not to play with the device).

SAFETY INSTRUCTIONS

- To avoid possible damage, please carefully read and observe these instructions.
- Keep all information and instructions in a safe place.
- Observe all warnings. Do not remove any safety instructions or other information from the device.

TERMS AND SYMBOLS

1. **DANGER**: The word **DANGER**, possibly used in combination with a symbol, Indicates a hazardous situation which, if not avoided, WILL result in death or serious injury.

2. **WARNING**: The word **WARNING**, possibly used in combination with a symbol, Indicates a hazardous situation which, if not avoided, COULD result in death or serious injury.

3. **CAUTION**: The word **CAUTION**, possibly used in combination with a symbol, refers to situations or conditions that can lead to injuries.

4. **NOTICE**: The word **NOTICE**, possibly used in combination with a symbol, Indicates information considered important but not hazard related (EX: messages relating to equipment/property damage).

This symbol indicates an electrical hazard.

This symbol indicates a general hazard.

This symbol indicates danger from hot surfaces.

This symbol indicates danger from intense light sources.

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

DANGER:

1. Do not open the device or make any modifications to it.
2. If your device stops working properly, if liquids or objects have penetrated the inside of the device, or if the device has been damaged in any other way, switch it off immediately and unplug it from the power outlet. Only authorized specialists may repair this device.
3. The protective earth conductor for Class I appliances must be properly connected. Never disconnect the protective earth conductor. Class II appliances do not have a protective earth conductor.
4. Make sure that voltage-conducting cables are not kinked or otherwise mechanically damaged.
5. Never bypass the device fuse.

WARNING:

1. The device must not be used if there are obvious signs of damage to the device.
2. The device may only be installed in voltage-free state.
3. Do not operate the device if its power cord is damaged.
4. Only a qualified person may replace permanently connected power cords.

NOTICE:

1. Do not operate the device right after it has been subjected to strong temperature fluctuations (e.g., after transport). Humidity and condensation may have damaged the device. Only switch the device on once it has reached room temperature.
2. Make sure that the voltage and frequency of the power supply correspond to the values specified on the device. If the device has a voltage selector, do not plug in

the device until it has been properly set up. Only use suitable power cords.

3. Simply pressing the On/Off switch on the device is not enough to entirely disconnect the device from the power supply.
4. Make sure that the fuse used corresponds to the type shown on the device.
5. Make sure that suitable measures have been taken to prevent power surges (e.g., lightning strike).
6. Observe the specified maximum output current on devices with a Power Out connection. Ensure that the total power consumption of all devices connected to the device does not exceed the specified value.
7. Replace plug-in power cords only with cords that are comparable to the originally supplied cords. The cross-section must not fall below the cross-section of the original cord.

DANGER:

1. Risk 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. Fall hazard! Make sure that the device is securely installed and cannot fall down. Only use suitable stands or mountings (especially for fixed installations). Make sure that accessories are properly installed and secured. Ensure that applicable safety regulations are observed when doing this.

WARNING:

1. Only use the device as properly intended.
2. Only operate the device with accessories recommended and provided by the manufacturer.
3. Please observe the safety regulations in place in your country when installing the device.
4. After the device is connected, check all cable paths to prevent any damage or accidents (e.g., tripping hazards).
5. Please observe the specified minimum distances to materials with normal flammability! Unless explicitly stated, the minimum distance is 0.98 ft.
6. Always observe the minimum distance to the illuminated surface to be read on the device!

CAUTION:

1. Moving components such as mounting brackets or other moving components may become trapped.
2. In the case of devices with motor-driven components, there is a risk of being injured by the moving device. Sudden device movements can lead to startle responses.
3. The device's housing surface can get very hot during regular operation. Make sure that unintentional contact with the housing cannot happen. Always allow the device to cool sufficiently before disassembly, maintenance work, and charging, etc..

NOTICE:

1. Do not install or operate the device near heating elements, heat storage units, stoves, or other sources of heat. Make sure that the device is always installed so that it is adequately cooled and cannot overheat.
2. Do not put any sources of ignition (e.g., burning candles) near the device.
3. Ventilation slots must be kept uncovered, and fans must not be blocked.
4. Use the original packaging or packaging provided by the manufacturer for transport.
5. Avoid shaking or banging the device.
6. Observe the IP rating as well as the ambient conditions such as the specified temperature and humidity.
7. Devices can be subject to ongoing development. If information on operating conditions, output, or other device characteristics differs between the user manual and device label, the information provided on the device always takes priority.
8. The device is not suitable for tropical climate zones and operation above 6561 ft above sea level.
9. The device is not suitable for operation under marine conditions.

CAUTION! IMPORTANT INFORMATION ON LIGHT PRODUCTS!

1. Never look directly (not even briefly) into the light source.
2. Never look into the light source with optical devices (e.g., magnifying glasses).
3. Strobe effects can trigger epileptic seizures in susceptible individuals!
4. A permanently installed light source is built into this luminaire and cannot be replaced by the user. Please contact your distributor in case of a system failure.

INFORMATION FOR PORTABLE INDOOR DEVICES

1. Temporary operation! Event equipment is designed in general for temporary operation only.
2. Continuous operation or permanent structural attachment, especially in outdoor areas, can negatively impact functionality, as well as surfaces and seals, and can lead to accelerated material fatigue.

INTRODUCTION

7 X 4W TUNABLE WHITE SPOTLIGHT

CLROOTPARTW

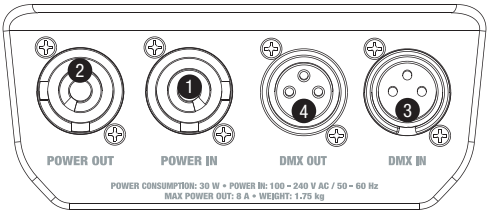
CONTROL FUNCTIONS

- DMX modes without DMX delay channel: 1-channel, 2-channel, 3-channel 1, 3-channel 2, and 7-channel DMX control
- DMX modes with DMX delay channel: 2-channel, 3-channel, 4-channel 1, 4-channel 2, and 8-channel DMX control
- Master/slave mode
- Stand-alone functions
- Control via IR remote control (remote control optionally available)
- W-DMX connection possible with optional iDMX stick

PROPERTIES

- 3-pin DMX connectors
- Power Twist power connector, IN and OUT
- OLED display
- Configurable PWM frequency
- Connection for iDMX stick
- Convection cooling
- Tilt screw
- Twin mounting bracket included
- Operating voltage: 100–240 V AC
- Power consumption: 30 W

CONNECTIONS, CONTROL, AND DISPLAY ELEMENTS



❶ POWER IN

Blue Power Twist power input socket. Operating voltage: 100–240 V AC / 50–60 Hz. A suitable power cable with Power Twist plug is included in the delivery.

❷ POWER OUT

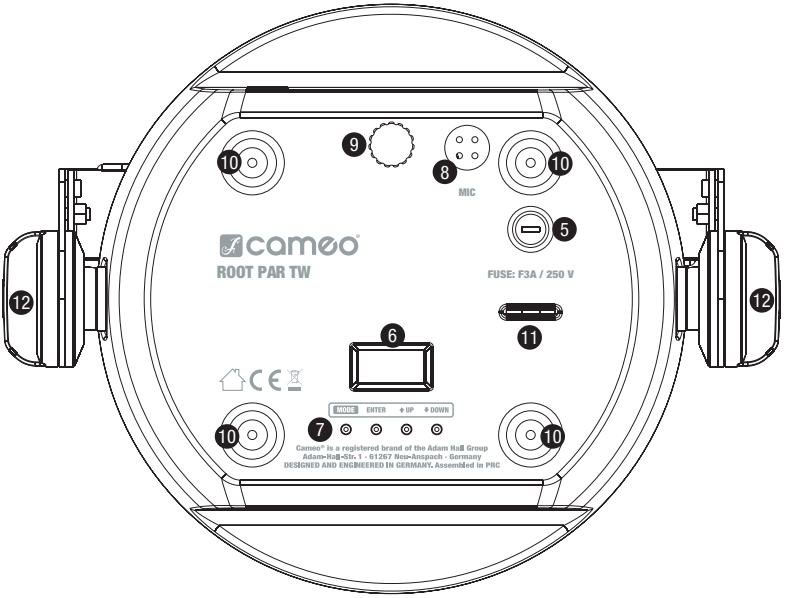
White Power Twist power output socket to supply power to additional Cameo spotlights (max. 8 A).

❸ DMX IN

Male 3-pin XLR connector to connect a DMX control device (e.g., DMX console).

❹ DMX OUT

Female 3-pin XLR connector to transmit the DMX control signal.



❺ FUSE
Fuse holder for 5 × 20 mm micro fuses. IMPORTANT NOTE: Only replace the fuse with a fuse of the same type and values. If a fuse trips repeatedly, please contact an authorized service center.

❻ OLED-DISPLAY
The OLED display shows the currently active operating mode (main display), the menu options in the Options menu, and the numerical values or operating status for certain menu options. If there is no input within approx. two minutes, the display automatically switches to the main display. Note on the main display in operating modes with external control: As soon as the control signal is interrupted, the symbols on the display will begin to flash. When the control signal is present again, the flashing will stop. Starting from the main display, briefly press UP to rotate the display 180°.

❼ CONTROL KEYS
MODE – you can access the options menu by pressing MODE. Pressing it again will return you to the main display. If you press MODE without having first pressed ENTER to confirm a value or status change, the previously confirmed value or status shall be restored.
ENTER – pressing ENTER takes you to the menu level, on which value changes can be made, and you can reach the submenu using ENTER. Value or status adjustments can also by confirmed by pressing ENTER.
UP and DOWN – selects the individual menu options in the selection menu (DMX address, operating mode, etc.) and in the submenus. Allows you to change the value of a menu option (e.g., DMX address) as desired.

❽ MIC
Microphone for music control mode.

❾ TILT
Knurled screw for tilting when used as uplight. The twin mounting bracket can be removed for a more subtle look.

❿ RUBBER FEET
Four rubber feet for stability.

⓫ SAFETY EYEBOLT
Safety eyebolt for securing the spotlight on crossbeam installations.

⓬ HANDLE SCREWS
The two handle screws are used to adjust and fix the stand or mounting bracket.

PORT FOR W-DMX™ CONNECTION
The USB-A connector for the optional iDMX stick is located on the side of the spotlight opposite the connection panel.

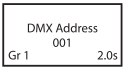
OPERATION

NOTES

- As soon as the spotlight is correctly connected to the power supply, “Welcome to Cameo”, the model designation, and then the software version are displayed in sequence on the display as part of the startup process. The spotlight is ready for use after this process, and the previously selected mode will activate.
- Hold down the MODE button for approx. two seconds to directly access the main display from the lower menu levels. If there is no input within approx. two minutes, the main display is automatically activated. Briefly press MODE to go up one level in the submenus.
- Briefly hold down MODE and ENTER at the same time to directly access the last menu option used from the main display.
- Starting from the main display, briefly press UP to rotate the display 180°.
- Press and hold UP or DOWN to quickly change a value (e.g., DMX start address).

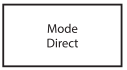
MAIN DISPLAY DMX MODE

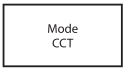
The **DMX ADDRESS** and the currently configured DMX start address (e.g., 001) are shown on the display. If the DMX Delay function is activated, the delay group and the delay time are also displayed.

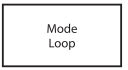


MAIN DISPLAY STAND-ALONE MODE

The currently activated stand-alone mode is shown on the display (Mode Direct, Mode CCT, Mode Loop, Mode Sound).





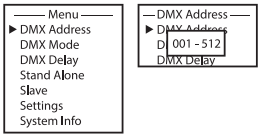


MAIN DISPLAY SLAVE MODE

MODE SLAVE is shown on the display. If the slave unit is assigned to a slave group, the slave group and delay time set on the master unit in the stand-alone mode **LOOP** are also displayed.

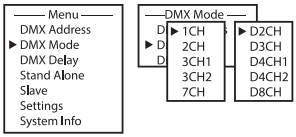
CONFIGURING THE DMX START ADDRESS

Starting from the main display, press MODE to go to the main menu. Using UP and DOWN, now select the **DMX ADDRESS** menu option and press ENTER to confirm your selection. You can now set the DMX start address as desired using UP and DOWN. Select ENTER to confirm your entry.



SETTING DMX MODE

Starting from the main display, press MODE to go to the main menu. Using the UP and DOWN keys, now select the **DMX MODE** menu option and press ENTER to confirm your selection. Use UP and DOWN again to select the desired DMX mode and press ENTER to confirm your selection (DMX modes with DMX delay channel are marked with “D”). You can find tables on channel assignment in the different DMX modes in these instructions under DMX CONTROL.



DMX DELAY

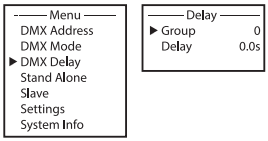
The DMX Delay function allows a chaser light effect to be easily created with any number of spotlights of the same model and software version, which could otherwise only be achieved with a suitable DMX controller and complex programming. All spotlights integrated into the setup are set to the same DMX mode and controlled with the same DMX start address.

MANUALLY SET THE DMX DELAY FOR DMX OPERATING MODES WITHOUT DMX DELAY CHANNEL (1CH, 2CH, 3CH1, 3CH2, 7CH):

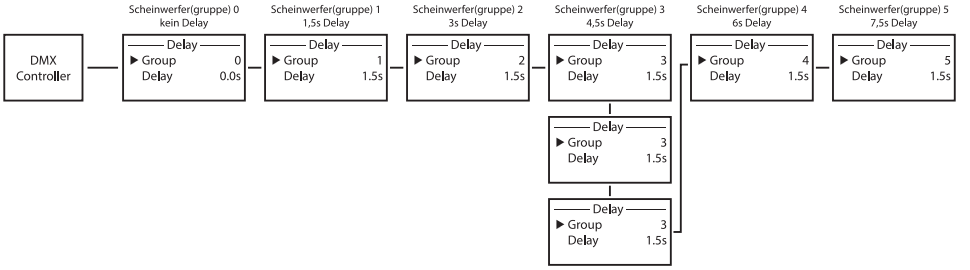
MENU to go to the main menu. Using the ▲ and ▼ keys, now select the DMX Delay menu option and press enter to confirm your selection. Use ▲ and ▼ again to select the desired submenu item, press ENTER to confirm, set the corresponding value as desired. Press ENTER to confirm all entries.

Assign the spotlight to one of 95 groups (maximum number of groups depending on the activated DMX mode). Several spotlights can also be assigned to one group. The group number is also the factor by which the set delay time is multiplied.

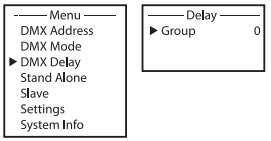
The delay time (delay time of the DMX signal) can be set manually on each spotlight separately with different values (0.0s to 2.0s in 0.1s steps).



Setup example:

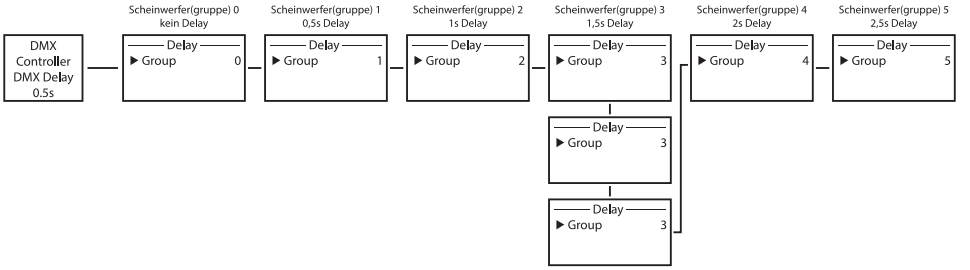


SET THE DMX DELAY FOR DMX OPERATING MODES WITH DMX DELAY CHANNEL (D2CH, D3CH, D4CH1, D4CH2, D8CH): Starting from the main display, press MENU to go to the main menu. Using the ▲ and ▼ buttons, now select the DMX Delay menu option and press ENTER twice to confirm your selection.
Assign the spotlight to one of 95 groups (maximum number of groups depending on the activated DMX mode). Several spotlights can also be assigned to one group. The group number is also the factor by which the set delay time is multiplied. Confirm each entry via ENTER.



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

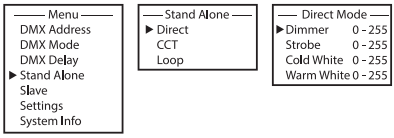
Setup example:



STAND-ALONE MODE DIRECT

As with a DMX control device, stand-alone mode Direct makes it possible to directly set values from 000 to 255 on the device for the dimmer, strobe, cold white, and warm white. This allows the user to create individual scenes without needing an additional DMX controller.

Starting from the main display, press MODE to go to the main menu. Using UP and DOWN, now select the **STAND ALONE** menu option and press ENTER to confirm. Use the UP and DOWN buttons again to select **DIRECT**, press ENTER to confirm, and then use UP and DOWN to select the menu option you'd like to adjust. Confirm with ENTER. You can set the value as desired from 000 to 255 using UP and DOWN. Then press ENTER to confirm all entries.

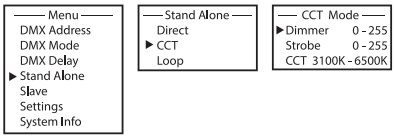


Direct Mode		
Dimmer	Brightness	0–255
Strobe	Strobe effect	0–5 = deactivated
		6–255 = approx. 1 Hz–20 Hz
Cold White	Cold white	0–255
Warm White	Warm white	0–255

STAND-ALONE MODE CCT (CORRELATED COLOR TEMPERATURE)

The color temperature can be set in 100 K steps from 3100 K to 6500 K in the stand-alone CCT mode. The brightness and strobe effect can also be configured.

Starting from the main display, press MODE to go to the main menu. Using UP and DOWN, now select the **STAND ALONE** menu option and press ENTER to confirm. Use the UP and DOWN buttons again to select **CCT**, press ENTER to confirm, and then use UP and DOWN to select the menu option you'd like to adjust. Confirm with ENTER. Using UP and DOWN, select the desired value and then press ENTER to confirm all entries.

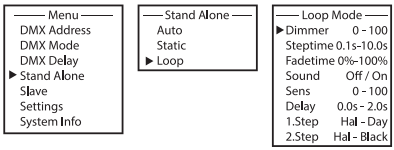


CCT Mode		
Dimmer	Brightness	0–255
Strobe	Strobe effect	0–5 = deactivated
		6–255 = approx. 1 Hz–20 Hz
CCT	Correlated color temperature	3100 K–6500 K

STAND-ALONE MODE LOOP/SOUND

The stand-alone mode Loop makes it possible to individually design and reproduce a lighting sequence. Brightness, step time, fade time, music control with microphone sensitivity, and delay (signal delay) can be set separately.

Starting from the main display, press MODE to go to the main menu. Using UP and DOWN, now select the **STAND ALONE** menu option and press ENTER to confirm. Use UP and DOWN again to select the desired **LOOP** stand-alone mode and press ENTER to confirm your selection.

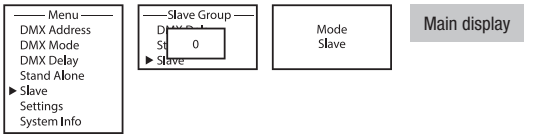


This will take you to the submenu for setting the submenu options (see table, use UP and DOWN to select, press ENTER to confirm, use UP and DOWN to change status/value, press ENTER to confirm). The settings remain unchanged even once the device is restarted.

LOOP MODE		
Dimmer	Adjusts the brightness	0–100
Steptime	Adjusts the step time	0.1 sec. to 10.0 sec.
Fadetime	Adjusts the fade time in percent	0%–100%
Sound	Deactivates (Off) or activates (On) music control	Off/On
Sens	Microphone sensitivity for music control	0–100
Delay	Delay time for slave groups	0.0 sec. to 2.0 sec.
1st step	4 presets with various color temperatures	Hal (Halogen)
		Neu (Neutral)
		Stu (Studio)
		Day (Daylight)
2nd step	4 presets with various color temperatures plus blackout	Hal (Halogen)
		Neu (Neutral)
		Stu (Studio)
		Day (Daylight)
		Black (Blackout)

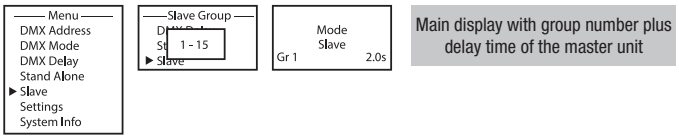
SLAVE MODE

STANDARD SLAVE MODE: Starting from the main display, press MODE to go to the main menu. Using UP and DOWN, now select the **SLAVE** menu option, press ENTER to confirm, then select Slave Group 0, and select ENTER once again to confirm. Connect the slave and master unit (same model, same software version) using a DMX cable, and activate one of the stand-alone modes (Direct, CCT, Loop) on the master unit. The slave unit will now follow the master unit precisely.

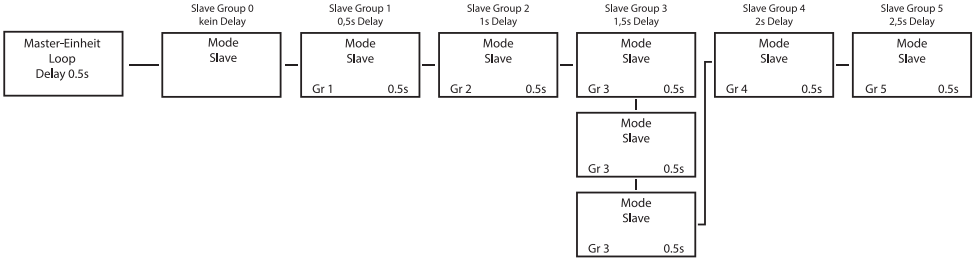


ADVANCED SLAVE MODE: In the advanced master/slave mode, the control signal can be reproduced with a time delay of up to 15 levels. The delay time is set on the master unit in the **DELAY** submenu option in the stand-alone mode Loop and the delay factor for the corresponding slave

unit in the slave menu. This allows a chaser light effect to be easily created with any number of spotlights of the same model and software version, which could otherwise only be achieved with a suitable DMX controller and complex programming.



Assign the slave units to one of up to 15 groups as required. Several slave units can also be assigned to one group. The group number is also the factor by which the set delay time on the master unit is multiplied (see setup examples).



SYSTEM SETTINGS (SETTINGS)

Starting from the main display, press MODE to go to the main menu. Using UP and DOWN, now select the **SETTINGS** menu option and press ENTER to confirm.

This will take you to the submenu for setting the submenu options (see table, use UP and DOWN to select, press ENTER to confirm, use UP and DOWN to change status/value, press ENTER to confirm).

SETTINGS				
Disp Rev	=	Rotates display	No	Display does not rotate
			Yes	Display rotates 180° (e.g., for overhead installation)
Disp Back	=	Display backlight	Off	Deactivates after approx. 30 seconds of inactivity
			On	Permanently on
Sig Fail	=	Operating status if control signal is lost	Hold	Last command is held
			Black	Activates blackout
			Dir	Setting in stand-alone mode Direct is activated
IR Remote	=	Activates or deactivates control via IR remote control	On	Activates control via the IR remote
			Off	Deactivates control via the IR remote
PWM	=	LED PWM Frequency	650 Hz, 1530 Hz, 2150 Hz, 4000 Hz	Selects the LED PWM frequency
Calibration	=	Color calibration	Cold White	Individual adjustment of brightness from cold white and warm white with values from 0 to 255 (independent of mode)
			Warm White	
Reset	=	Resets settings	Factory	Resets to factory settings: Press ENTER to reset, MENU to cancel
			Preset A	Resets to Preset A: Press ENTER to reset, MENU to cancel
			Preset B	Resets to Preset B: Press ENTER to reset, MENU to cancel
			Preset C	Resets to Preset C: Press ENTER to reset, MENU to cancel
Edit Preset	=	Saves all system settings in three individual presets	Preset A	Press ENTER to save
			Preset B	Press ENTER to save
			Preset C	Press ENTER to save
Service	=	Only for servicing purposes		

SYSTEM INFORMATION (SYSTEM INFO)

Starting from the main display, press MODE to go to the main menu. Using UP and DOWN, now select the System Info menu option and press ENTER to confirm your selection.

This will take you to the submenu which will let you access system information (see table, use UP and DOWN to select, press ENTER to confirm, use UP and DOWN to change status, press ENTER to confirm).

SYSTEM INFO				
Firmware	=	Displays the device firmware	Firmware V1.xx	
Temperature	=	Displays temperature of LED unit	LED	xxx°C / xxx°F
			Unit	°C (= displays in degrees Celsius)
				°F (= displays in degrees Fahrenheit)
Op. Hours	=	Displays operating time	xx:xx h	Displays the total operating time in hours and minutes

IR REMOTE CONTROL (optional)

Aim the infrared remote control directly, within line-of-sight, at the infrared sensor installed on the front side of the spotlight. The maximum range is approx. 26.24 feet. The spotlight's sensor is deactivated in DMX and slave mode. The infrared remote directly controls the internal stand-alone modes: **DIRECT, CCT,** and **LOOP/SOUND**.

BL / ON/OFF (Blackout)
The BL (Blackout) button switches off all LEDs, regardless of which operating mode is activated via the remote control. Press the BL button again to reactivate the previously selected mode.

SP (Speed)
11-step speed setting for the lighting sequence in the stand-alone mode Loop (Au). Step 1 allows the lighting sequence to progress quickly, pressing it again activates step 2 with a slower color change sequence, and this is followed by steps 3, 4, 5, etc., where step 11 is the slowest lighting sequence.

☼ (Brightness)
Set the overall brightness in six steps. Press this button several times (Step 1 = blackout) to access the different brightness levels.

FL (Flash / Stroboskop)
Speed setting for the strobe effect in six steps. Step 1 deactivates the strobe effect, step 2 produces a slow frequency followed by steps 3 to 5. Step 6 produces the fastest flash frequency. The strobe effect can only be used in the CW/WW color mixing mode.

CW und **WW** (R, G, B, W, A, UV ohne Funktion)
These two buttons allow individual color temperatures to be created by mixing cold white and warm white. The six brightness levels can be accessed by pressing the respective color button again, where level 1 means that the LEDs are switched off.

JU (no function)

FA (no function)

AU (Loop mode)
Press the Au button to start the stand-alone mode Loop. Use the Speed button to control the speed of the lighting sequence.

SU (music-triggered lighting sequence)
For bass, the preconfigured color temperature presets in the stand-alone mode Loop under Step 1 and Step 2 change. The control microphone is located on the back of the spotlight; the microphone sensitivity is preset in the stand-alone loop mode.

CM (CCT)
Press CM+ or CM- to start the CCT stand-alone mode. The CM+ and CM- buttons are used to set the color temperature in 100 K steps from 3100 K to 6500 K in this mode.

PR+ / PR- (no function)

SETUP AND INSTALLATION

Thanks to the convenient twin mounting bracket, the spotlight can be placed in a suitable location on a flat surface. Install on a crossbeam using a traverse clamp that is attached to the mounting bracket Ⓐ. Suitable traverse clamps are available as needed. Ensure that the connections are tight and secure the spotlight to the fixing eyelet on the back of the spotlight using a suitable safety eyebolt.

HAZARD: Overhead installation 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 carry out the installation yourself; contact a professional company. There is a risk that incorrectly mounted or secured devices may come loose and fall down. This may lead to serious injury and even fatalities.

To achieve more subtle looks for uplights, the twin mounting bracket can be removed by loosening the Ⓑ two handle screws.

CARE, MAINTENANCE, AND REPAIR

The device must be maintained and serviced regularly, at least every 3,000 operating hours or at the latest after one year, in order to ensure that it continues to operate properly over the long term.

CARE (user executable)

WARNING! The power supply and, if possible, all device connections must be disconnected before carrying out any care/maintenance measures.

NOTE! Improper care can lead to damage to 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. Dust and dirt must be regularly removed from air inlets and outlets. If compressed air is used, care must be taken to prevent damage to the device (e.g., fans must be blocked in this case; otherwise they might overwind).
3. Cables and plug-in contacts must be cleaned regularly and dust and dirt must be removed.
4. In general, no cleaning agents or abrasive agents may be used to care for the device as this could have a negative impact on the surface finish.
5. In general, devices must be stored in a dry place and protected from dust and dirt.
6. All accessible or removable lenses and light emitting apertures must be cleaned on a regular basis to ensure proper and safe operation.

MAINTENANCE AND REPAIR (by specialists only)

DANGER! The device contains voltage-conducting components. There may still be residual voltage in the device even after it is disconnected from the power supply (e.g., due to charged capacitors).

NOTE! The device contains no user-serviceable components.

NOTE! Maintenance and repair work may only be carried out by sufficiently qualified specialists. In case of doubt, consult a specialist workshop.

NOTE! Improperly carried out maintenance work can affect the warranty claim.

NOTE! Please observe the enclosed installation guide when upgrading or retrofitting kits provided by the manufacturer.

DMX TECHNOLOGY

DMX-512

DMX (Digital Multiplex) is the designation for a universal transmission protocol for communications between corresponding devices and controllers. A DMX controller sends DMX data to the connected DMX device(s). The DMX data is always transmitted as a serial data stream that is forwarded from one connected device to the next via the “DMX IN” and “DMX OUT” connectors (XLR plug-type connectors) that are found on every DMX-capable device, provided the maximum number of devices does not exceed 32 units. The last device in the chain needs to be equipped with a terminator (terminating resistor).

DMX CONNECTION

DMX is the common “language” via which a very wide range of types and models of equipment from various manufacturers can be connected with one another and controlled via a central controller, provided that all of the devices and the controller are DMX compatible. For optimum data transmission, it is necessary to keep the connecting cables between the individual devices as short as possible. The order in which the devices are integrated in the DMX network has no influence on the addresses. Thus the device with the DMX address 1 can be located at any position in the (serial) DMX chain: at the beginning, at the end or somewhere in the middle. If the DMX address 1 is assigned to a device, the controller “knows” that it should send all data allocated to address 1 to this device regardless of its position in the DMX network.

SERIAL CONNECTION OF MULTIPLE LIGHTS

1. Connect the male XLR connector (3-pin or 5-pin) of the DMX cable to the DMX output (female XLR socket) of the first DMX device (e.g. DMX-Controller).
2. Connect the female 3-pin XLR connector of the DMX cable connected to the first projector to the DMX input (male 3-pin socket) of the next DMX device. In the same way, connect the DMX output of this device to the DMX input of the next device and repeat until all devices have been connected. Please note that as a rule, DMX devices are connected in series and connections cannot be shared without active splitters. The maximum number of DMX devices in a DMX chain should not exceed 32 units.

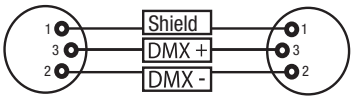
The Adam Hall 3 STAR, 4 STAR, and 5 STAR product ranges include an extensive selection of suitable cables.

DMX CABLES

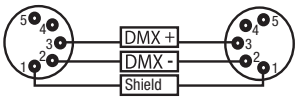
When fabricating your own cables, always observe the illustrations on this page. Never connect the shielding of the cable to the ground contact of the plug, and always make certain that the shielding does not come into contact with the housing of the XLR plug. If the shielding is connected to the ground, this can lead to short-circuiting and system malfunctions.

PIN ASSIGNMENT

DMX cable with 3-pin XLR connectors:



DMX cable with 5-pin XLR connectors (pin 4 and 5 are not used):

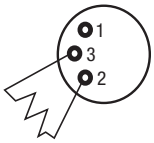


DMX TERMINATORS (TERMINATING RESISTORS)

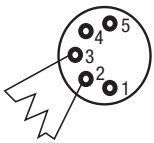
To prevent system errors, the last device in a DMX chain needs to be equipped with a terminating resistor (120 ohm, 1/4 Watt).
3-pin XLR connector with a terminating resistor: K3DMXT3
5-pin XLR connector with a terminating resistor: K3DMXT5

PIN ASSIGNMENT

3-pin XLR connector:



5-pin XLR connector:

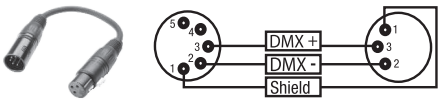


DMX ADAPTER

The combination of DMX devices with 3-pin connectors and DMX devices with 5-pin connectors in a DMX chain is possible with suitable adapters.

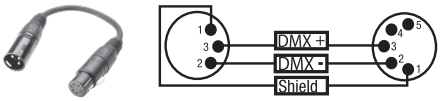
PIN ASSIGNMENT

DMX Adapter 5-pin XLR male to 3-pin XLR female: K3DGF0020
Pins 4 and 5 are not used.



PIN ASSIGNMENT

DMX Adapter 3-pin XLR male to 5-pin XLR female: K3DHM0020
Pins 4 and 5 are not used.



TECHNICAL SPECIFICATIONS

ARTICLE NUMBER:	CLROOTPARTW
Product type:	LED Spotlight
Type:	PAR Spotlight
Color spectrum:	CW + WW
Number of LEDs:	7
LED type:	4 W
LED PWM frequency:	650 Hz, 1530 Hz, 2150 Hz, 4000 Hz (adjustable)
Beam angle (half peak angle):	37.5° (19.5°)
DMX input:	3-pin male
DMX output:	3-pin female
DMX modes:	Without DMX delay channel: 1-channel, 2-channel, 3-channel 1, 3-channel 2, and 7-channel DMX control With DMX delay channel: 2-channel, 3-channel, 4-channel 1, 4-channel 2, and 8-channel DMX control
DMX functions:	Dimmer, Fine Dimmer, Strobe, Cold White, Warm White, Color Temperature, DMX Delay, Microphone Sensitivity
Controller:	DMX512, IR remote control, W-DMX (via optional iDMX stick)
Stand-alone functions:	Loop (Sound), Direct, CCT
Control elements:	Mode, Enter, Up, Down
Display elements:	OLED display
Operating voltage:	100–240 V AC / 50–60 Hz
Power consumption:	30 W
Illumination intensity (@ 3.28 ft):	7500 lx
Luminous flux:	1350 lm
Power supply connection:	INPUT: Blue Power Twist power socket OUTPUT: White Power Twist power socket (max. 8 A)
Fuse:	F3A / 250 V (5 × 20 mm)
Ambient temperature (in operation):	32°F to 104°F
Relative humidity:	< 80%, non-condensing
Housing color:	Black
Housing material:	ABS plastic
Housing cooling:	Convection cooling

ARTICLE NUMBER:	CLROOTPARTW
Dimensions (W x H x D, without mounting bracket):	7.67 x 5.23 x 7.67 inches
Weight (incl. mounting bracket):	1.75 kg
Additional features:	Power cable included in delivery; IR remote control filter (CLPFLA-T1REMOTE) and iDMX stick optionally available as accessories

DISPOSAL

Packaging

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

Device:

1. This device is subject to the European Community Directive on waste electrical and electronic equipment (WEEE) in the currently applicable version. WEEE Directive Waste Electrical and Electronic Equipment. Waste equipment does not belong in household waste. Waste equipment must be disposed by a registered waste disposal company or at a municipal disposal facility. Please observe the applicable regulations in your country!
2. Observe all waste disposal laws applicable in your country.
3. Private customers can contact the distributor/retailer from whom the product was purchased or the relevant local authorities to obtain information on environmentally friendly waste management

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 currently valid warranty conditions and limitation of liability are available at:
https://cdn-shop.adamhall.com/media/pdf/Manufacturers-Declarations-CAMEO_DE_EN_ES_FR.pdf.
Please contact your distributor when servicing is required.

CE CONFORMITY

Adam Hall GmbH hereby declares that this product complies with the following guidelines (where applicable):
R&TTE (1999/5/EG) or RED (2014/53/EU) as of June 2017
Low-Voltage Directive (2014/35/EU)
EMC Directive (2014/30/EU)
RoHS (2011/65/EU)
The full declaration of conformity can be found at www.adamhall.com.
It can also be requested from info@adamhall.com.

SUBJECT TO PRINTING ERRORS AND MISTAKES, AS WELL AS TECHNICAL OR OTHER CHANGES!

DMX CONTROL / DMX STEUERUNG / COMMANDE DMX / CONTROL DMX / STEROWANIE DMX / CONTROLLO DMX

1 CH Mode (preselect color in stand-alone mode Direct or CCT)					
Ch.	**Function**	**Values**			
1	Dimmer	000	-	255	0% to 100%

2 CH Mode					
Ch.	**Function**	**Values**			
1	Cold White	000	-	255	0% to 100%
2	Warm White	000	-	255	0% to 100%

3 CH 1 Mode (preselect color in stand-alone mode Direct or CCT)					
Ch.	**Function**	**Values**			
1	Dimmer	000	-	255	0% to 100%
2	Strobe functions	000	-	005	Strobe open
		006	-	010	Strobe closed
		011	-	022	Ramp up/down, slow -> fast
		023	-	033	Ramp up/down random, slow->fast
		034	-	045	Ramp up, slow -> fast
		046	-	056	Ramp up random, slow -> fast
		057	-	068	Ramp down, slow -> fast
		069	-	079	Ramp down random, slow -> fast
		080	-	102	Random Strobe effect, slow -> fast
		103	-	127	Strobe Break effect, 5s…..1s (short burst with break)
		128	-	250	Strobe slow -> fast <1Hz - 20Hz
		251	-	255	Strobe open
3	Sound (triggers Strobe)	000	-	005	Sound Control Off
		006	-	255	Sound Control On, mic sensitivity low -> high

3 CH 2 Mode					
Ch.	**Function**	**Values**			
1	Dimmer	000	-	255	0% to 100%
2	Strobe	000	-	005	Strobe open
		006	-	255	Strobe slow -> fast <1Hz - 20Hz
3	Color Temperature	000	-	000	Warm White
		001		087	Warm White -> 3200K
		088	-	088	Halogen White (3200K)
		089	-	128	3200K-4000K
		129	-	129	Neutral White (4000K)
		130	-	169	4000K-5600K
		170	-	170	Studio White (5600K)
		171	-	210	5600K-6500K
		211	-	211	Daylight White (6500K)
		212	-	251	6500K -> Cold White
		252	-	255	Cold White

7 CH Mode					
Ch.	**Function**	**Values**			
1	Dimmer	000	-	255	0% to 100%
2	Dimmer fine	000	-	255	0% to 100%
3	Strobe functions	000	-	005	Strobe open
		006	-	010	Strobe closed
		011	-	022	Ramp up/down, slow -> fast
		023	-	033	Ramp up/down random, slow->fast
		034	-	045	Ramp up, slow -> fast
		046	-	056	Ramp up random, slow -> fast
		057	-	068	Ramp down, slow -> fast
		069	-	079	Ramp down random, slow -> fast
		080	-	102	Random Strobe effect, slow -> fast
		103	-	127	Strobe Break effect, 5s…..1s (short burst with break)
		128	-	250	Strobe slow -> fast <1Hz - 20Hz
		251	-	255	Strobe open
4	Cold White	000	-	255	0% to 100%
5	Warm White	000	-	255	0% to 100%
6	"Color Temperature (overrides channel 4 + 5)"	000	-	008	Off
		009	-	009	Warm White
		010		087	Warm White -> 3200K
		088	-	088	Halogen White (3200K)
		089	-	128	3200K-4000K
		129	-	129	Neutral White (4000K)
		130	-	169	4000K-5600K
		170	-	170	Studio White (5600K)
		171	-	210	5600K-6500K
		211	-	211	Daylight White (6500K)
		212	-	251	6500K -> Cold White
		252	-	255	Cold White
7	"Sound (triggers Strobe)"	000	-	005	Sound Control Off
		006	-	255	Sound Control On, mic sensitivity low -> high

2 CH Mode with DMX-Delay Channel (preselect color in stand-alone mode Direct or CCT)					
Ch.	**Function**	**Values**			
1	Dimmer	000	-	255	0% to 100%
2	DMX Delay	000	-	005	No Delay
		006	-	255	0,1s -> 2,0s

3 CH Mode with DMX-Delay Channel					
Ch.	**Function**	**Values**			
1	Cold White	000	-	255	0% to 100%
2	Warm White	000	-	255	0% to 100%
3	DMX Delay	000	-	005	No Delay
		006	-	255	0,1s -> 2,0s

4 CH 1 Mode with DMX-Delay Channel (preselect color in stand-alone mode Direct or CCT)					
Ch.	**Function**	**Values**			
1	Dimmer	000	-	255	0% to 100%
2	Strobe functions	000	-	005	Strobe open
		006	-	010	Strobe closed
		011	-	022	Ramp up/down, slow -> fast
		023	-	033	Ramp up/down random, slow->fast
		034	-	045	Ramp up, slow -> fast
		046	-	056	Ramp up random, slow -> fast
		057	-	068	Ramp down, slow -> fast
		069	-	079	Ramp down random, slow -> fast
		080	-	102	Random Strobe effect, slow -> fast
		103	-	127	Strobe Break effect, 5s…..1s (short burst with break)
		128	-	250	Strobe slow -> fast <1Hz - 20Hz
		251	-	255	Strobe open
3	Sound (triggers Strobe)	000	-	005	Sound Control Off
		006	-	255	Sound Control On, mic sensitivity low -> high
4	DMX Delay	000	-	005	No Delay
		006	-	255	0,1s -> 2,0s

4 CH 2 Mode with DMX-Delay Channel					
Ch.	**Function**	**Values**			
1	Dimmer	000	-	255	0% to 100%
2	Strobe	000	-	005	Strobe open
		006	-	255	Strobe slow -> fast <1Hz - 20Hz
3	Color Temperature	000	-	000	Warm White
		001		087	Warm White -> 3200K
		088	-	088	Halogen White (3200K)
		089	-	128	3200K-4000K
		129	-	129	Neutral White (4000K)
		130	-	169	4000K-5600K
		170	-	170	Studio White (5600K)
		171	-	210	5600K-6500K
		211	-	211	Daylight White (6500K)
		212	-	251	6500K -> Cold White
		252	-	255	Cold White
4	DMX Delay	000	-	005	No Delay
		006	-	255	0,1s -> 2,0s

8 CH Mode with DMX-Delay Channel					
Ch.	**Function**	**Values**			
1	Dimmer	000	-	255	0% to 100%
2	Dimmer fine	000	-	255	0% to 100%
3	Strobe functions	000	-	005	Strobe open
		006	-	010	Strobe closed
		011	-	022	Ramp up/down, slow -> fast
		023	-	033	Ramp up/down random, slow->fast
		034	-	045	Ramp up, slow -> fast
		046	-	056	Ramp up random, slow -> fast
		057	-	068	Ramp down, slow -> fast
		069	-	079	Ramp down random, slow -> fast
		080	-	102	Random Strobe effect, slow -> fast
		103	-	127	Strobe Break effect, 5s…..1s (short burst with break)
		128	-	250	Strobe slow -> fast <1Hz - 20Hz
		251	-	255	Strobe open
4	Cold White	000	-	255	0% to 100%
5	Warm White	000	-	255	0% to 100%
6	Color Temperature (overrides channel 4 + 5)	000	-	008	Off
		009	-	009	Warm White
		010		087	Warm White -> 3200K
		088	-	088	Halogen White (3200K)
		089	-	128	3200K-4000K
		129	-	129	Neutral White (4000K)
		130	-	169	4000K-5600K
		170	-	170	Studio White (5600K)
		171	-	210	5600K-6500K
		211	-	211	Daylight White (6500K)
		212	-	251	6500K -> Cold White
		252	-	255	Cold White
7	Sound (triggers Strobe)	000	-	005	Sound Control Off
		006	-	255	Sound Control On, mic sensitivity low -> high
8	DMX Delay	000	-	005	No Delay
		006	-	255	0,1s -> 2,0s

cameo®

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