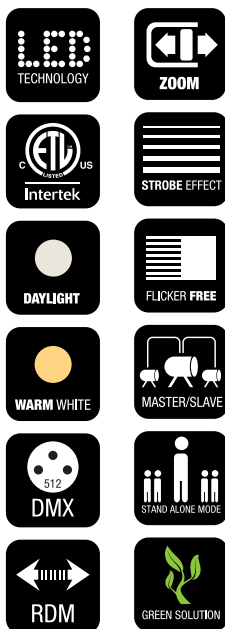


USER'S MANUAL  
BEDIENUNGSANLEITUNG  
MANUEL D'UTILISATION  
MANUAL DE USUARIO  
INSTRUKCJA OBSŁUGI  
MANUALE D' USO



V1.10

# F2 T

TUNGSTEN LED FRESNEL SPOT LIGHT  
CLF2T

# F2 D

DAYLIGHT LED FRESNEL SPOT LIGHT  
CLF2D

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**YOU'VE MADE THE RIGHT CHOICE!**

We have designed this product to operate reliably over many years. Please read this User's Manual carefully, so that you can begin making optimum use of your Cameo Light product quickly. Learn more about Cameo Light on our website [WWW.CAMEOLIGHT.COM](http://WWW.CAMEOLIGHT.COM).

**PREVENTIVE MEASURES**

1. Please read these instructions carefully.
2. Keep all information and instructions in a safe place.
3. Follow the instructions.
4. Observe all safety warnings. Never remove safety warnings or other information from the equipment.
5. Use the equipment only in the intended manner and for the intended purpose.
6. Use only sufficiently stable and compatible stands and/or mounts (for fixed installations). Make certain that wall mounts are properly installed and secured. Make certain that the equipment is installed securely and cannot fall down.
7. During installation, observe the applicable safety regulations for your country.
8. Never install and operate the equipment near radiators, heat registers, ovens or other sources of heat. Make certain that the equipment is always installed so that it is cooled sufficiently and cannot overheat.
9. Never place sources of ignition, e.g., burning candles, on the equipment.
10. Ventilation slits must not be blocked.
11. This appliance is designed exclusively for indoor use, do not use this equipment in the immediate vicinity of water (does not apply to special outdoor equipment - in this case, observe the special instructions noted below). Do not expose this equipment to flammable materials, fluids or gases.
12. Make certain that dripping or splashed water cannot enter the equipment. Do not place containers filled with liquids, such as vases or drinking vessels, on the equipment.
13. Make certain that objects cannot fall into the device.
14. Use this equipment only with the accessories recommended and intended by the manufacturer.
15. Do not open or modify this equipment.
16. After connecting the equipment, check all cables in order to prevent damage or accidents, e.g., due to tripping hazards.
17. During transport, make certain that the equipment cannot fall down and possibly cause property damage and personal injuries.
18. If your equipment is no longer functioning properly, if fluids or objects have gotten inside the equipment or if it has been damaged in another way, switch it off immediately and unplug it from the mains outlet (if it is a powered device). This equipment may only be repaired by authorized, qualified personnel.
19. Clean the equipment using a dry cloth.
20. Comply with all applicable disposal laws in your country. During disposal of packaging, please separate plastic and paper/cardboard.
21. Plastic bags must be kept out of reach of children.

**FOR EQUIPMENT THAT CONNECTS TO THE POWER MAINS:**

22. CAUTION: If the power cord of the device is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never deactivate the protective ground of a power cord.
23. If the equipment has been exposed to strong fluctuations in temperature (for example, after transport), do not switch it on immediately. Moisture and condensation could damage the equipment. Do not switch on the equipment until it has reached room temperature.
24. Before connecting the equipment to the power outlet, first verify that the mains voltage and frequency match the values specified on the equipment. If the equipment has a voltage selection switch, connect the equipment to the power outlet only if the equipment values and the mains power values match. If the included power cord or power adapter does not fit in your wall outlet, contact your electrician.
25. Do not step on the power cord. Make certain that the power cable does not become kinked, especially at the mains outlet and/or power adapter and the equipment connector.
26. When connecting the equipment, make certain that the power cord or power adapter is always freely accessible. Always disconnect the equipment from the power supply if the equipment is not in use or if you want to clean the equipment. Always unplug the power cord and power adapter from the power outlet at the plug or adapter and not by pulling on the cord. Never touch the power cord and power adapter with wet hands.
27. Whenever possible, avoid switching the equipment on and off in quick succession because otherwise this can shorten the useful life of the equipment.
28. IMPORTANT INFORMATION: Replace fuses only with fuses of the same type and rating. If a fuse blows repeatedly, please contact an authorised service centre.
29. To disconnect the equipment from the power mains completely, unplug the power cord or power adapter from the power outlet.
30. If your device is equipped with a Volex power connector, the mating Volex equipment connector must be unlocked before it can be removed. However, this also means that the equipment can slide and fall down if the power cable is pulled, which can lead to personal injuries and/or other damage. For this reason, always be careful when laying cables.
31. Unplug the power cord and power adapter from the power outlet if there is a risk of a lightning strike or before extended periods of disuse.
32. The device must only be installed in a voltage-free condition (disconnect the mains plug from the mains).
33. Dust and other debris inside the unit may cause damage. The unit should be regularly serviced or cleaned (no guarantee) depending on ambient conditions (dust etc., nicotine, fog) by qualified personnel to prevent overheating and malfunction.
34. Please keep a distance of at least 0.5 m to any combustible materials.
35. Power cables to power multiple devices must have a cross-section of at least 1.5 mm<sup>2</sup>. Within the EU, the cables must correspond to H05VV-F, or similar. Suitable cables are offered by Adam Hall. With these cables, you can connect multiple devices via the power OUT connection to the power IN connection of an additional device. Make sure that the total current consumption of all connected devices does not exceed the specified value on all connected devices (label on the device). Make sure to keep power cable connections as short as possible.

**CAUTION:**

To reduce the risk of electric shock, do not remove cover (or back). There are no user serviceable parts inside. Maintenance and repairs should be exclusively carried out by qualified service personnel.



The warning triangle with lightning symbol indicates dangerous uninsulated voltage inside the unit, which may cause an electrical shock.



The warning triangle with exclamation mark indicates important operating and maintenance instructions.



The housing surface of the spotlight can heat up to temperatures as high as 70 °C in regular use. Ensure that it is not possible to come into contact with the housing unintentionally. Always allow sufficient time for the lamp to cool down before dismantling, carrying out maintenance work or charging etc.



Warning! This device is designed for use below 2000 metres in altitude.



Warning! This product is not intended for use in tropical climates.



Caution! Intense LED light source! Risk of eye damage. Do not look into the light source.

**CAUTION! IMPORTANT INFORMATION ABOUT LIGHTING PRODUCTS!**

1. The product has been developed for professional use in the field of event technology and is not suitable as household lighting.
2. Do not stare, even temporarily, directly into the light beam.
3. Do not look at the beam directly with optical instruments such as magnifiers.
4. Stroboscope effects may cause epileptic seizures in sensitive people! People with epilepsy should definitely avoid places where strobes are used.

**INTRODUCTION****CONTROL FUNCTIONS**

1-channel, 2-channel 1, 2-channel 2, 3-channel, 4-channel and 5-channel DMX-functions

Master/Slave operation

Standalone functions

**FEATURES**

16-40° beam angle, manual zoom. 200 mm Fresnel lens. PWM frequency adjustable (flicker free). DMX-512 control. RDM-enabled. Manual control. Quicklight function. 4 dimmer 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 210W. Mounting bracket, filter frame and 8-position barn doors included.

**LIGHT SOURCE CLF2T**

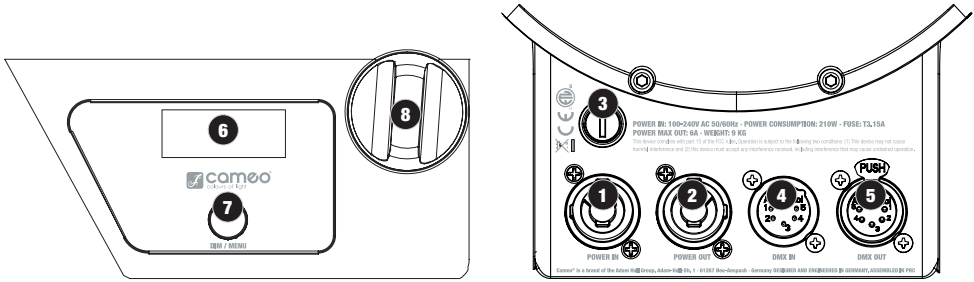
1 x high-power 240 W Tungsten LED (warm white).

**LIGHT SOURCE CLF2D**

1 x high-power 240 W daylight LED.

Both spotlights feature the RDM standard (remote device management). Remote device management allows the user to view status and configuration of RDM terminals via an RDM-capable controller.

## CONNECTIONS, OPERATING AND DISPLAY ELEMENTS



### 1 POWER IN

Neutrik powerCON mains input socket. Operating voltage 100 - 240 V AC / 50 - 60Hz.

### 2 POWER OUT

Neutrik powerCON power output socket for the power supply of additional CAMEO spotlights. Ensure that the total current consumption of all connected devices does not exceed the value specified on the device in amperes (A).

### 3 FUSE

Fuse holder for 5 x 20mm micro fuses. **IMPORTANT:** Replace the fuse only with a fuse of the same type and value (T3,15A/250V). In the event of repeated fuse failure, please contact an authorised service centre.

### 4 DMX IN

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

### 5 DMX OUT

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

### 6 OLED DISPLAY

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

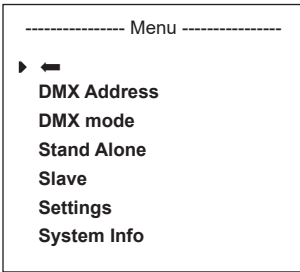
### 7 DIM/MENU

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

**DIM** – If one of the DMX modes is enabled and there is no DMX signal to the device, the encoder serves as master dimmer control and you can set the brightness of the spotlight with values from 000 to 255 by turning the encoder (Quicklight).

**Quicklight**  
000-255

**MENU** – Push the encoder to access the main menu and select menu items by turning the encoder.



### ⑧ 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 16°. 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.

## OPERATION

### TIPS

- 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 approximately 30 seconds, the currently activated mode is automatically shown in the display (main display).

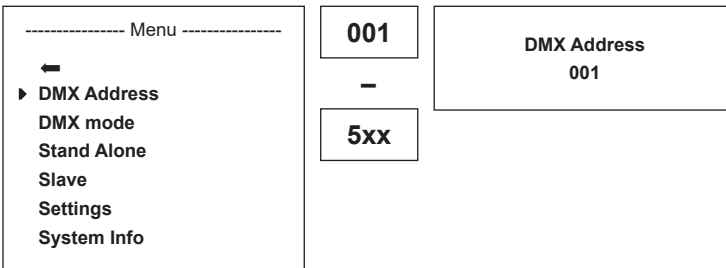
### MAIN DISPLAY

The main display shows the currently activated mode (in the example DMX mode with DMX start address 001).



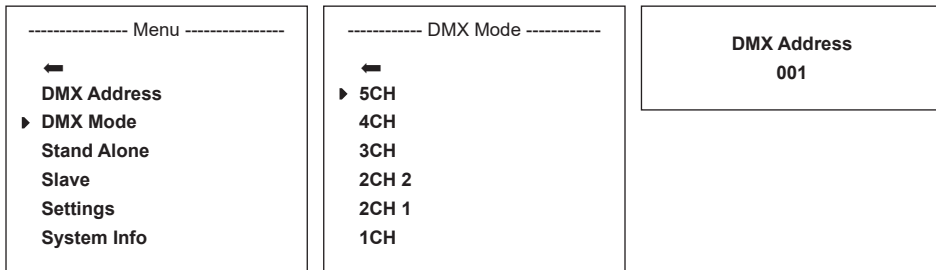
### SETTING DMX START ADDRESS (DMX ADDRESS)

Press the encoder to access the main menu. Rotate the encoder to select the menu item "DMX Address" (left arrow) and confirm by pushing the encoder. You can now configure the DMX start address as required by rotating the encoder (the highest value depends on the selected DMX mode). Confirm the entry by pushing the encoder. Select the arrow symbol at the top of the menu for "back" and push the encoder to return to the main display. The main display is activated automatically if no input is made within approximately 30 seconds. DMX mode is automatically activated when setting the DMX start address.



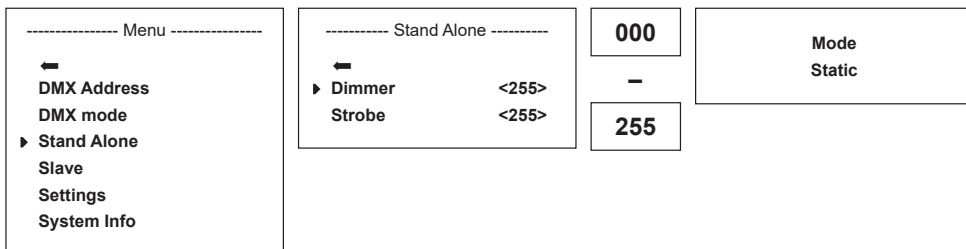
### CONFIGURING DMX MODE (DMX Mode)

Press the encoder to access the main menu. Rotate the encoder to select the menu item "DMX Mode" (left arrow) and confirm by pushing the encoder. You can now select the desired DMX mode by rotating the encoder (5CH, 4CH, 3CH, 2CH 2, 2CH 1, 1CH). Confirm the selection by pushing the encoder. Select the arrow symbol at the top of the menu for "back" and push the encoder to return to the main display. The main display is activated automatically if no input is made within approximately 30 seconds. Tables with the channel assignment of the different DMX modes can be found in these instructions under DMX CONTROL.



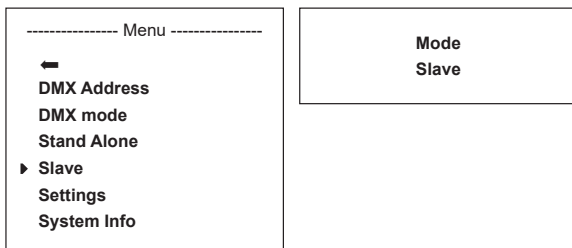
### STATIC MODE

Press the encoder to access the main menu. Rotate the encoder to select the menu item "Stand Alone" (left arrow) and confirm by pushing the encoder. Now select the submenu item "Dimmer" and confirm by pushing the encoder and rotate the encoder to set the desired brightness with values between 000 (blackout) and 255 (maximum brightness). Confirm your entry by pressing the encoder. A stroboscopic effect can now be activated as required and set in the same way (strobe value 000 = strobe off. Value 001 = lowest flash frequency. Value 255 = highest flash frequency). Now select the arrow symbol for "back" at the top of the submenu. Push the encoder and access the main menu in the same way to return to the main display.



### SLAVE MODE

Press the encoder to access the main menu. Rotate the encoder to select the menu item "Slave" (left arrow) and confirm by pushing the encoder. Slave mode is now enabled, and the main display is automatically displayed. Connect the slave and the master units (same model) with a DMX cable and enable the standalone mode static on the master unit. Now the slave unit will follow the master unit.



## DEVICE SETTINGS (Settings)

Press the encoder to access the main menu. Rotate the encoder to select the menu item "Settings" (left arrow) and confirm by pushing the encoder. This will take you to the submenu for setting the submenu items (see table, rotate the encoder to select and push the encoder to confirm selection). Now select the arrow symbol for "back" at the top of the submenu. Push the encoder and access the main menu in the same way to return to the main display. The main display is activated automatically if no input is made within approximately 30 seconds.

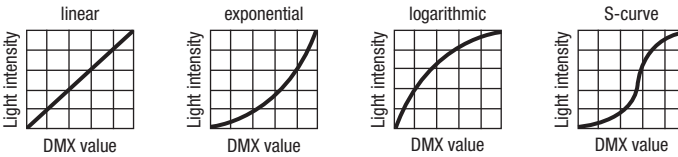
----- Menu -----
←
DMX Address
DMX mode
Stand Alone
Slave
▶ Settings
System Info

Settings							
Display Reverse	=	Rotate display	←	Back			
			On	Display is rotated by 180° (e.g. for overhead installation)			
			Off	No display rotation			
Display Off	=	Display lighting	←	Back			
			On	on permanently			
			Off	Deactivation after approximately 1 minute of inactivity			
DMX fail	=	Operational status with DMX signal fault	←	Back			
			Hold	Last command is retained			
			or blackout,	Activates blackout			
			Full On	Spotlight switches to full on			
Standalone				Stand alone mode is activated			
			Dimmer curve	=	Dimmer curve	←	Back
						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	←	Back
LED	Light responds abruptly to changes in DMX value						
Halogen	Light behaves like a halogen spotlight with slight brightness changes						
LED Frequency	=	LED PWM frequency	←	Back			
			800 Hz /	Configuration of LED PWM frequency			
			1200 Hz /				
			2000 Hz / 3600				
			Hz /				
12 kHz /							
25 kHz							



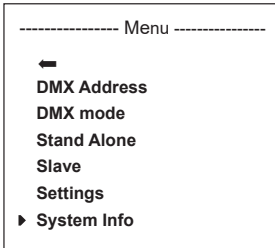
Fan	=	Adjust fan control	←	Back	
				Car	Automatic fan speed control
				Off	Deactivated fan with greatly reduced brightness
				Constant Low	Constantly low fan speed with reduced brightness, if necessary
				Constant Medium	Constant average fan speed with reduced brightness, if necessary
				Constant High	Constant high fan speed
Factory Reset	=	Reset to factory setting	←	Back	
				Reset Now!	Reset to factory settings

### DIMMER CURVES



### SYSTEM INFORMATION (System Info)

Press the encoder to access the main menu. Rotate the encoder to select the menu item "System info" (left arrow) and confirm by pushing the encoder. This will take you to the submenu for selecting the submenu items (see table, rotate the encoder to select and push the encoder to confirm selection). Now select the arrow symbol for "back" at the top of the submenu. Push the encoder and access the main menu in the same way to return to the main display. The main display is activated automatically if no input is made within approximately 30 seconds.



System Info				
Firmware	=	Displays device firmware	Main CPU	Vx.xx
Temperature	=	Displays temperature of LED unit	←	Back
			LED	xx°C / xx°F
			Unit	°C (= display in degrees Celsius) °F (= display in degrees Fahrenheit)
Operation Hours	=	Displays operating time	xx:xx h	Displays total operating time in hours and minutes

## INSTALLATION

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 securing lug on top of the housing and intended for this purpose (B). Use the side-mounted lever screws (C) to adjust the vertical beam angle.

**Important:** 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.



## INSTALLATION/REMOVAL OF BARN DOORS AND FILTER FRAME

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.



### Important safety notice!

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

## 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.

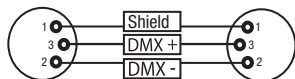
The Adam Hall 3 STAR, 4 STAR, and 5 STAR product ranges include an extensive selection of suitable cables.

### DMX CABLES

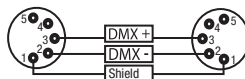
When fabricating your own cables, always observe the illustrations on this page. Never connect the shielding of the cable to the ground contact of the plug, and always make certain that the shielding does not come into contact with the housing of the XLR plug. If the shielding is connected to the ground,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

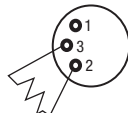
To prevent system errors, the last device in a DMX chain needs to be equipped with a terminating resistor (120 ohm, 1/4 Watt).

3-pin XLR connector with a terminating resistor: K3DMXT3

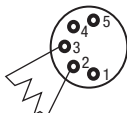
5-pin XLR connector with a terminating resistor: K3DMXT5

### Pin Assignment

3-pin XLR connector:



5-pin XLR connector:



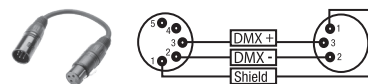
### DMX ADAPTER

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

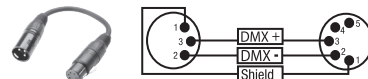
Pins 4 and 5 are not used.



### Pin Assignment

DMX Adapter 3-pin XLR male to 5-pin XLR female: K3DHM0020

Pins 4 and 5 are not used.



## TECHNICAL DATA

Product number:	CLF2T	CLF2D
Product type:	LED spotlight	LED spotlight
Type:	Fresnel spotlight with zoom function	Fresnel spotlight with zoom function
Colour spectrum:	Tungsten (warm white) 3200K	Daylight 5400K
CRI:	97	96
Number of LEDs:	1	1
LED type:	240 W	240 W
LED PWM frequency:	800 Hz, 1200 Hz, 2000 Hz, 3600 Hz, 12 kHz, 25 kHz (adjustable)	800 Hz, 1200 Hz, 2000 Hz, 3600 Hz, 12 kHz, 25 kHz (adjustable)
Beam angle:	16° - 40° (field 28° to 60°)	16° - 40° (field 28° to 60°)
DMX input:	5-pin male XLR	5-pin male XLR
DMX output:	5-pin female XLR	5-pin female XLR
DMX modes:	1-channel, 2-channel 1, 2-channel 2, 3-channel 4-channel, 5-channel	1-channel, 2-channel 1, 2-channel 2, 3-channel 4-channel, 5-channel
DMX functions:	Dimmer, dimmer fine, strobe, dimmer curve, dimmer response, PWM frequency, fan setting	Dimmer, dimmer fine, strobe, dimmer curve, dimmer response, PWM frequency, fan setting
Control:	DMX512, RDM-enabled	DMX512, RDM-enabled
Standalone functions:	Dimmer, Strobe, Master/Slave	Dimmer, Strobe, Master/Slave
Operating controls:	DIM/MENU rotary-push encoder, manual zoom	DIM/MENU rotary-push encoder, manual zoom
Display elements:	OLED display	OLED display
Operating voltage:	100–240 V AC/50–60 Hz	100–240 V AC/50–60 Hz
Power consumption:	210 W	210 W
Lighting power:	14000 lm	15000 lm
Power connection:	INPUT: Neutrik powerCON OUTPUT: Neutrik powerCON (max. 6 A)	INPUT: Neutrik powerCON OUTPUT: Neutrik powerCON (max. 6 A)
Fuse:	T3, 15 A / 250 V (5 x 20 mm)	T3, 15 A / 250 V (5 x 20 mm)
Ambient temperature (in operation):	0–40°C	0–40°C
Relative air humidity:	< 80%, non-condensing	< 80%, non-condensing
Housing material:	Die-cast metal	Die-cast metal
Housing colour:	black	black
Housing cooling:	Temperature-controlled fan + heat pipe	Temperature-controlled fan + heat pipe
Dimensions (W x H x D, without bracket and barn doors):	270 x 292 x 322 mm	270 x 292 x 322 mm
Weight:	9 kg	9 kg
Additional features:	200 mm Fresnel lens, power cable, filter frame, 8-position barn doors and mounting bracket supplied, manual zoom	200 mm Fresnel lens, power cable, filter frame, 8-position barn doors and mounting bracket supplied, manual zoom

ENGLISH

DEUTSCH

FRANCAIS

ESPAÑOL

POLSKI

ITALIANO

DMX

## MANUFACTURER'S DECLARATIONS

### MANUFACTURER'S WARRANTY & LIMITATIONS OF LIABILITY

You can find our current warranty conditions and limitations of liability at: [https://cdn-shop.adamhall.com/media/pdf/Manufacturers-Declarations-CAMEO\\_DE\\_EN\\_ES\\_FR.pdf](https://cdn-shop.adamhall.com/media/pdf/Manufacturers-Declarations-CAMEO_DE_EN_ES_FR.pdf). To request warranty service for a product, please contact Adam Hall GmbH, Adam-Hall-Str. 1, 61267 Neu Anspach / Email: [Info@adamhall.com](mailto:Info@adamhall.com) / +49 (0)6081 / 9419-0.



### CORRECT DISPOSAL OF THIS PRODUCT

(valid in the European Union and other European countries with a differentiated waste collection system)

■ This symbol on the product, or on its documents indicates that the device may not be treated as household waste. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. Please dispose of this product separately from other waste and have it recycled to promote sustainable economic activity. Household users should contact either the retailer where they purchased this product, or their local government office, for details on where and how they can recycle this item in an environmentally friendly manner. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial waste for disposal.

### 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 operation

### CE Compliance

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

R&TTE (1999/5/EC) or RED (2014/53/EU) from June 2017

Low voltage directive (2014/35/EU)

EMV directive (2014/30/EU)

RoHS (2011/65/EU)

The complete declaration of conformity can be found at [www.adamhall.com](http://www.adamhall.com).

Furthermore, you may also direct your enquiry to [info@adamhall.com](mailto:info@adamhall.com).

**Adam Hall GmbH**

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

Phone: +49 6081 9419-0 | [adamhall.com](http://adamhall.com)

Adam Hall Ltd. | The Seedbed Business Centre | SS3 9QY Essex | United Kingdom

