

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



H2 D / H2 T

DMX-CONTROLLABLE HOUSE LIGHT WITH DAYLIGHT / WARM WHITE LED
CLH2D(WH) / CLH2T(WH)

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DMX

DMX CONTROL / DMX STEUERUNG / PILOTAGE DMX / CONTROL DMX / STEROWANIE DMX / CONTROLLO DMX	99
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YOU HAVE MADE THE RIGHT CHOICE!

This device was developed and produced under the highest standards of quality in order to ensure smooth operation for many years. Please read these operating instructions carefully so that you can use your new Cameo Light product quickly and optimally. You can find more information on Cameo Light on our website WWW.CAMEOLIGHT.COM.

SAFETY INFORMATION

1. Please read through these instructions carefully.
 2. Store all information and instructions in a secure location.
 3. Follow the instructions.
 4. Heed all warnings. Do not remove any safety warnings or other information from the device.
 5. Use the device only in the intended manner.
 6. Use only stable and suitable stands and/or mounts (for fixed installations). Make sure that wall mounts are properly installed and secured. Make sure that the device is securely installed and will not fall.
 7. During installation, heed all safety provisions that apply in your country.
 8. Do not install and operate the device in the vicinity of heaters, heat reservoirs, ovens, or other heat sources. Make sure that the device is installed in such a way that it is sufficiently cooled and will not overheat.
 9. Do not place any ignition sources, e.g. candles, on the device.
 10. Do not block the ventilation slits.
 11. The device was designed to be used only in interior spaces, do not operate the device in the direct vicinity of water (this does not apply to specialty outdoor devices - in this case, please note the special instructions given in the following). Do not bring the device into contact with combustible materials, fluids, or gases.
 12. Make sure that no water can drop or splash into the device. Do not place any containers filled with fluids, such as vases or drinking vessels, onto the device.
 13. Ensure that no objects can fall into the device.
 14. Operate the device using only those accessories recommended and specified by the manufacturer.
 15. Do not open the device, and do not modify it.
 16. After connecting the device, inspect all cable paths in order to avoid damage or accidents, such as those caused by tripping over said cables.
 17. During transport, ensure that the device will not fall and potentially cause material damage and personal harm.
 18. If your device no longer functions properly, fluids or objects have made their way into the device interior, or the device is otherwise damaged, switch it off immediately and remove it from the power outlet (provided the device is active).
- This device is to be repaired only by authorized specialists.
19. Use a dry towel to clean the device.
 20. Follow all laws on disposal applicable in your country. Please separate plastic and paper or cardboard when disposing of the packaging.
 21. Plastic bags must be kept out of reach of children.

FOR DEVICES CONNECTED TO A POWER SUPPLY:

22. **ATTENTION:** If the device power cable is equipped with a ground pin, it must be inserted into an outlet with a grounding conductor. Never disable the grounding conductor of a power cable.
23. Do not immediately switch on the device when it has been exposed to stark temperature deviations (for example after transport). Humidity and condensation could damage the device. Switch on the device only when it has reached room temperature.
24. Before you connect the device to the outlet, first ensure that voltage and frequency of the power supply complies with the values given on the device. If the device has a voltage selector switch, connect the device to the outlet only if the device values comply with the values of the power supply. If the provided power cable or power adapter does not fit your power outlet, contact an electrician.
25. Do not step on the power cable. Make sure that live cables, in particular those at the power socket or at the power adapter and the device socket, are not bent.
26. With regard to the device cables, always make sure that the power cable or power adapter is always freely accessible. Always separate the device from the power supply when the device is not in use or when you would like to clean the device. Always unplug the power cable and power adapter from the power outlet using the plug or adapter, not the cord. Never touch the power cable and power adapter with wet hands.
27. If possible, do not switch the device on and off quickly because this may impair the service life of the device.
28. **IMPORTANT INFO:** Replace fuses only with fuses of the same type and value. If a fuse trips repeatedly, please contact an authorized service center.
29. In order to completely separate the device from the power supply, remove the power cable or power adapter from the outlet.
30. If your device is equipped with a Volex power cord, release the correct Volex device connector before removing the cord. However, this also means that the device may slide and fall when removing the power cord, which may cause personal harm and/or material damage. Therefore, always lay cables carefully.
31. Remove the power cable and power adapter from the outlet when there is a risk of lighting or when you no longer want to use the device.
32. The device may only be installed when it carries no voltage (separate the power plug from the power supply).
33. Dust and other debris within the device may damage it. The device should be serviced or cleaned regularly by qualified specialists depending on the environmental conditions (dust, nicotine, smoke, etc.) in order to avoid overheating.
34. The distance to combustible materials must be at least 0.5 m.
35. Power cables for powering multiple devices must have a core cross-section of at least 1.5 mm². In the EU, lines must be H05W-F or similar. Adam Hall provides suitable cables. Using these cables, you can connect multiple devices via the Power Out connection with the Power In connection of another device. Ensure that the total power consumption of all connected devices does not exceed the specified value (printed on the device). Be sure to keep power lines as short as possible.

36. The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.

37. Children must be instructed not to play with the device.

38. If the power cord of the device is damaged, do not use the device. The power cord must be replaced by an adequate cable or assembly from an authorized service center.



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

Daylight pendant spotlight with W-DMX™

CLH2D (black housing)
CLH2DWH (white housing)

Tungsten (warm white) pendant spotlight with W-DMX™

CLH2T (black housing)
CLH2TWH (white housing)

CONTROL FUNCTIONS

- 1-channel, 2-channel, and 4-channel DMX control
- W-DMX™
- Master/Slave mode
- Stand-alone functions

PROPERTIES

- 1× 150 W COB LED
- 5-pin DMX connectors W-DMX™
- OLED display Convection cooling
- Removable mounting bracket for hanging installation
- Connection terminal for permanent installation
- Operating voltage: 100–240 V AC
- Power consumption: 165 W

CONNECTIONS, CONTROL, AND DISPLAY ELEMENTS



The connections, operating elements, and display elements for the H2 T and H2 D models are the same.

1 POWER IN

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

2 POWER OUT

White Power Twist power output socket to supply power to additional Cameo spotlights (max. 6 A).

3 DMX IN

Male 5-pin XLR connector to connect a DMX control device (e.g., DMX console).

4 DMX OUT

Female 5-pin XLR connector to transmit the DMX control signal.

5 OLED DISPLAY

The OLED display shows the currently active operating mode (main display 1), the W-DMX status (main display 2) of the menu options in the Options menu, and the numerical values or operating status for certain menu options. Briefly press ENTER and DOWN at the same time to switch between the two main displays. You can access the main menu from main display 1. If there is no input within approx. 1 minute, the display automatically switches to the main display. Please note the following information about the main display in DMX or W-DMX mode: 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, press UP on the control panel to rotate the display 180°.

6 TOUCH-SENSITIVE CONTROLS

MENU – you can access the options menu by pressing MENU. Pressing it again will return you to the main screen. If you press MENU 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 be 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.

Before changing device settings, check that the control unit is dry and clean in order to ensure that it is functioning properly.

7 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.

8 SAFETY EYEBOLT

Safety eyebolt for securing the spotlight on crossbeam installations and for hanging the spotlight from a ceiling for permanent installations.

9 ANTENNA

Antenna for W-DMX wireless control

10 CONNECTING TERMINAL

The connecting terminal is used to supply permanent installations with power and signals. Please observe the safety instructions for hooking up the terminal in the “HOOKING UP THE CONNECTING TERMINAL” section!

OPERATION**NOTES**

- As soon as the spotlight is properly connected to the power supply, it can be used right away and the previously activated operating mode will start.
- Briefly press MENU to go up one level in the lower levels of the menu structure. If necessary, press MENU repeatedly to access the main display. If there is no input within approx. 30 seconds, the main screen 1 is automatically activated.
- Starting from the main display 1, briefly press the UP button to rotate the display 180°.
- Press and hold UP or DOWN to quickly change a value (e.g., DMX start address).

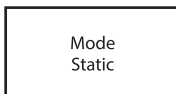
MAIN SCREEN 1 DMX MODE

The **DMX Address** and the currently configured DMX start address (e.g., **001**) are shown on the display.

DMX Address
001

MAIN SCREEN STAND-ALONE MODE

Mode Static is shown on the display.



MAIN SCREEN 1 SLAVE MODE

Mode Slave is shown on the display.



MAIN SCREEN 2 W-DMX STATUS

The W-DMX status is shown on the display. Briefly press ENTER and DOWN at the same time to switch between the two main displays. The main display 1 is automatically displayed again after approx. one minute.



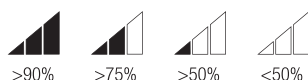
W-DMX™

To pair the W-DMX receiver with a W-DMX-enabled transmitter, W-DMX (W-DMX On) must be switched on in the receiver menu under **Wireless Settings** and **Reset** must be selected in the same menu option (select Reset and press ENTER to confirm). The receiver is now ready to pair and waits for a transmitter to request pairing. Start pairing by selecting **Link** in the transmitter menu and then confirm your selection. Pairing will then be carried out automatically. These same steps can be used to pair several receivers to a transmitter at the same time or in succession. A W-DMX connection will remain connected until it is severed by selecting **Reset** in the receiver menu or **Unlink** in the transmitter menu, regardless of whether a device is temporarily disconnected from the power supply.

W-DMX™ STATUS

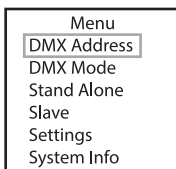
W-DMX deactivated	W-DMX activated, not paired	W-DMX activated and paired, Transmitter switched off or out of range	W-DMX activated and paired, no DMX signal	W-DMX activated and paired, DMX signal present

RF SIGNAL STRENGTH



CONFIGURING DMX MODE

You can access the main menu by pressing 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

You can access the main menu by pressing MENU. Using UP and DOWN, 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. You can find tables on channel assignment in the different DMX modes in these instructions under DMX CONTROL.

Menu DMX Address DMX Mode Stand Alone Slave Settings System Info	DMX Mode 1 CH 2 CH 4 CH
--	----------------------------------

STATIC STAND-ALONE MODE

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

Starting from the main display, press MENU to go to the main menu. Using UP and DOWN, now select the **Stand Alone** menu option and press ENTER to confirm your selection. Use UP and DOWN again to select the desired **Static** stand-alone mode and press ENTER to confirm your selection. Now select the menu option you would like to change using UP and DOWN and press ENTER to confirm. You can set the value as desired from 000 to 255 using UP and DOWN. Press ENTER to confirm all entries. The strobe effect values correspond to the values in channel 3 of the DMX table 4 CH.

Menu DMX Address DMX Mode Stand Alone Slave Settings System Info	Stand Alone Static Timer	Static Dimmer 000-255 Dimmer Fine 000-255 Strobe 000-255
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TIMER FUNCTION (Timer)

The timer function enables static stand-alone mode to be managed in a time-controlled manner so that you can set the fade-in time from 0.5 seconds to 24 hours, the dwell time from 0.5 seconds to 24 hours and limitless, and the fade-out time from 0.5 seconds to 24 hours. After activating the timer function, the timer function is enabled as previously configured the next time the system starts. Starting from the main display, press MENU to go to the main menu. Using UP and DOWN, now select the **Stand Alone** menu option and press ENTER to confirm your selection. Use UP and DOWN to select **Timer** and press ENTER to confirm your selection. Under the **Switch** option, select the **On** setting and press ENTER once again to confirm this selection. Select **Fade In**, **Dwell Time**, or **Fade Out** to select the timer's individual settings and press ENTER to confirm your selection. Now use UP and DOWN to set the respective value as required. Press ENTER to confirm all entries. To deactivate the timer function, go to the Switch menu option, select the **Off** setting, and press ENTER to confirm your selection. Note: The timer function is suitable for use in master/slave mode with a cable.

Menu DMX Address DMX Mode Stand Alone Slave Settings System Info	Stand Alone Static Timer	Timer Switch On / Off Fade in 0.5s-24h Dwell Time 0.5s-∞h Fade out 0.5s-24h
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SLAVE MODE

Starting from the main display, press MENU to go to the main menu. Using UP and DOWN, now select the **Slave** menu option and press ENTER to confirm your selection. Use a DMX cable to connect the slave and the master unit (same model, same software version), and activate the static stand-alone mode and the timer function on the master unit if desired. The slave unit will now follow the master unit precisely.

Menu	Mode Slave
DMX Address	
DMX Mode	
Stand Alone	
Slave	
Settings	
System Info	

SYSTEM SETTINGS (Settings)

Starting from the main display, press MENU to go to the main menu. Using UP and DOWN, now select the "Settings" menu option and press ENTER to confirm your selection.

Menu
DMX Address
DMX Mode
Stand Alone
Slave
Settings
System Info

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 (bold = factory setting)				
Display Reverse	=	Rotate display	On	Display rotates 180° (e.g., for overhead installation)
			Off	Display does not rotate
Display Backlight	=	Display Backlight	On	Permanently on
			Off	Deactivation after approx. 1 minute of inactivity
DMX Fail	=	Operating status if DMX signal is lost	Hold	Last command is held
			Blackout	Activates Blackout
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	The spotlight responds abruptly to changes in the DMX value
			Halogen	The spotlight behaves like a halogen spotlight with soft changes in brightness
PWM Frequency	=	Sets the LED PWM frequency	800 Hz / 1200 Hz / 2000 Hz / 3600 Hz / 12 kHz / 25 kHz	
Autolock	=	Automatically locks the control elements	On	Automatically locks the control element after approx. 30 seconds of inactivity. Display shows: "LOCKED" Unlock: Press UP and DOWN at the same time for approx. 5 seconds
			Off	Deactivates automatic locking of the control elements
Calibration	=	Sets the maximum brightness	White	Cross-mode brightness configuration, with values from 000 to 255

Wireless	=	W-DMX settings	W-DMX On/Off	On = W-DMX activated Off = W-DMX deactivated
			Reset	Press ENTER = disconnects paired transmitter and puts it in "ready to pair" mode
Power	=	Mode	Constant	Constant brightness over long periods of time
			Maximum	Maximum brightness
Software Update	=	Only for servicing purposes		
Factory Reset	=	Reset to factory settings	Reset?	Reset to factory settings: Press ENTER to reset, MENU to cancel

SYSTEM INFORMATION (System Info)

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

Menu
DMX Address
DMX Mode
Stand Alone
Slave
Settings
System Info

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
			C/F	Unit Celsius (= displays in degrees Celsius)
				Unit Fahrenheit (= displays in degrees Fahrenheit)
Operation Hours	=	Displays operating time	Operation Hours xxxx:xxh	Displays the total operating time in hours and minutes

DIFFUSERS

Three diffusers (diffuser with medium beam angle already installed) are provided with the spotlight. The other two diffusers have a beam angle of 20° and 60°.

To replace the diffusers, disconnect the spotlight from the power supply, use a suitable tool to unscrew the four Phillips-head screws

A from the retaining ring on the front of the spotlight, and then remove the retaining ring. The diffuser can now be easily removed from the holder using a screwdriver with a small, flat blade. Put the diffuser you wish to have in the holder and fasten the retaining ring to the spotlight using the previously loosened screws.



CROSSBEAM INSTALLATION



Important safety information: 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 carry out the installation yourself; contact a professional company!

Install on a crossbeam using an optionally available crossbeam clamp that is attached to the mounting bracket **A**; an Omega-mounting bracket is optionally available. Ensure that the connections are tight and secure the spotlight to the dedicated safety eyebolt using the safety cable supplied for this purpose **B**.



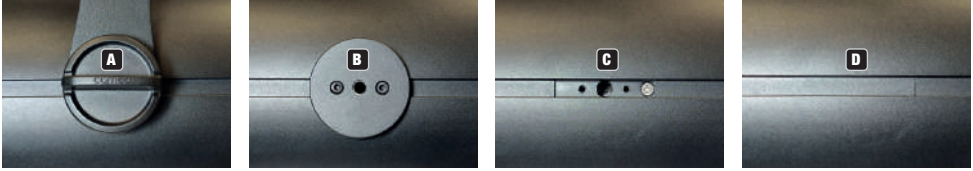
HANGING INSTALLATION



Important safety information: 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 carry out the installation yourself; contact a professional company!

The mounting bracket can be completely removed from the spotlight to create a refined and uniform look in the case of hanging installations.

To do this, unscrew the two knurled screws **A** from the mounting bracket and then remove it. An 0.11-inch Allen key is used to loosen the bases **B** on both sides of the spotlight. Cover the mounting holes **C** with the sliding metal rails in the grooves **D**. Hold onto all detached parts for later use.



Hang the spotlight using only the safety eyebolt **E** and the appropriate suspension cable intended for this purpose.



HOOKING UP THE CONNECTING TERMINAL



Important safety information!

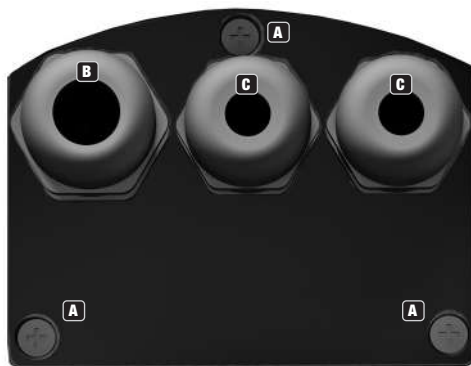
In-depth technical knowledge is required to open the spotlight and connect the cables to the connection terminal. Only specially trained persons may do this! If you do not have these qualifications, do not attempt to open the spotlight and connect the cable yourself; instead, contact a professional company!

The manufacturer is not liable for damage to property or injury to persons caused by improper handling!

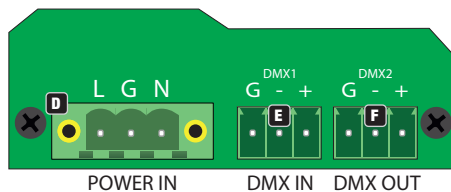
- The connection terminal may only be used as an alternative for the spotlight's input and output sockets. This applies to both the DMX connections and the power supply connections.
- Disconnect the spotlight completely from the power supply before opening the spotlight (unplug the power cable from the spotlight).
- Cables must not be used to hang the spotlight from a ceiling, etc. The cables may only be used for supplying power or signals. Hang the spotlight using only the safety eyebolt and the appropriate suspension cable intended for this purpose.

Use a suitable tool to unscrew the three Philips-head screws **A** from the terminal cover and then take the cover off the spotlight housing.

The terminal cover has three cable lead-throughs. Guide a suitable three-wire power cable (voltage-free!) through the large-diameter cable lead-through **B** and one (only DMX IN) or two 2 DMX cable(s) (DMX IN and OUT) through the smaller-diameter cable lead-through(s) **C**.



Unscrew the two fixing screws from the terminal block with the power supply cables and pull it off the corresponding terminal (terminal block connection **D**). Use suitable wire end sleeves for the stripped cable ends and connect the cables of the 3-pin power cable to the corresponding contacts on the enclosed terminal block for the power supply, and please ensure that they are correctly assigned (see figure below, L = phase, G = protective conductor, N = neutral conductor). Attach the terminal block to the corresponding terminal block connection **D** and screw it on.



Disconnect the terminal block for DMX IN (**E** / DMX1) and the terminal block for DMX OUT (**F** / DMX2) from the terminal block connections and connect the three DMX cable lines to the corresponding terminal block contacts (G = shielding, - = negative pole, + = positive pole). Connect the terminal blocks to the corresponding terminal block connections, cover up the connection terminal with the terminal cover, and screw together using the previously detached screws. Tighten the lock nuts for the cable lead-throughs to protect the connection terminal from mechanical stress.

OPTIONAL ACCESSORIES

Ceiling installation kit

- CLH2CKB (black)
- CLH2CKW (white)



Important safety information!

In-depth technical knowledge is required to install the spotlight in ceiling constructions. Only specially trained persons may do this! If you do not have these qualifications, do not attempt to install the spotlight in the ceiling yourself; instead, contact a professional company!

The manufacturer is not liable for damage to property or injury to persons caused by improper handling!

Omega mounting brackets

- CLOMEGABRACKET1



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.

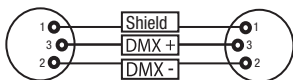
The Adam Hall 3 STAR, 4 STAR, and 5 STAR product ranges include an extensive selection of suitable cables.

DMX CABLES

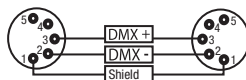
When fabricating your own cables, always observe the illustrations on this page. Never connect the shielding of the cable to the ground contact of the plug, and always make certain that the shielding does not come into contact with the housing of the XLR plug. If the shielding is connected to the ground,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

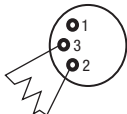
To prevent system errors, the last device in a DMX chain needs to be equipped with a terminating resistor (120 ohm, 1/4 Watt).

3-pin XLR connector with a terminating resistor: K3DMXT3

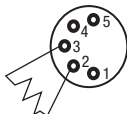
5-pin XLR connector with a terminating resistor: K3DMXT5

Pin Assignment

3-pin XLR connector:



5-pin XLR connector:



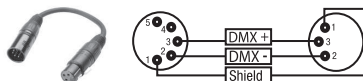
DMX ADAPTER

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

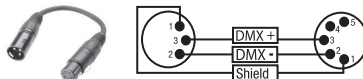
Pins 4 and 5 are not used.



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:	CLH2D(WH)	CLH2T(WH)
Product type:	LED Spotlight	LED Spotlight
Type:	Installation spotlights	Installation spotlights
Color spectrum:	Daylight 5600 K	Warm white 3000 K
Number of LEDs:	1	1
LED type:	150 W COB	150 W COB
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:	20°/25°/60° (adjustable via interchangeable diffuser)	20°/25°/60° (adjustable via interchangeable diffuser)
DMX input:	5-pin male, terminal block terminal	5-pin male, terminal block terminal
DMX output:	5-pin female, terminal block terminal	5-pin female, terminal block terminal
DMX modes:	1-channel, 2-channel, 4-channel	1-channel, 2-channel, 4-channel
DMX functions:	Dimmer, fine dimmer, strobe	Dimmer, fine dimmer, strobe
Controller:	DMX512, W-DMX™	DMX512, W-DMX™
Stand-alone functions:	Static, timer function	Static, timer function
Control elements:	Menu, Enter, Up, Down	Menu, Enter, Up, Down
Display elements:	OLED display	OLED display
Operating voltage:	100–240 V AC / 50–60 Hz	100–240 V AC / 50–60 Hz
Power consumption:	165 W	165 W
Luminous flux:	10,000 lm	10,000 lm
Power supply connection:	INPUT: blue Power Twist power socket, terminal block terminal OUTPUT: white Power Twist power socket Terminal block terminal (max. 6 A)	INPUT: blue Power Twist power socket, terminal block terminal OUTPUT: white Power Twist power socket, terminal block terminal (max. 6 A)
Fuse:	T3AL / 250 V (5 × 20 mm)	T3AL / 250 V (5 × 20 mm)
Ambient temperature (running):	32°F–104°F	32°F–104°F
Relative humidity:	< 80%, non-condensing	< 80%, non-condensing
Housing color:	Black (CLH2D) White (CLH2DWH)	Black (CLH2T) White (CLH2TWH)
Housing material:	Metal	Metal
Housing cooling:	Convection cooling	Convection cooling
Dimensions (Ø x L, without mounting bracket):	200 x 380 mm	200 x 380 mm
Weight (incl. mounting bracket):	7.4 kg	7.4 kg
Additional features:	Power cable included; Omega mounting bracket and ceiling installation kit optionally available	Power cable included; Omega mounting bracket and ceiling installation kit optionally available

ENGLISH

DEUTSCH

FRANCAIS

ESPAÑOL

POLSKI

ITALIANO

DMX

MANUFACTURER'S DECLARATIONS

ENGLISH

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.pdf. To request warranty service for a product, please contact Adam Hall GmbH, Adam-Hall-Str. 1, 61267 Neu Anspach / Email: 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.

DEUTSCH

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

FRANCAIS

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.

Furthermore, you may also direct your enquiry to info@adamhall.com.

ESPAÑOL

POLSKI

ITALIANO

DMX

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

1 CH	2 CH	4 CH	Function	CH Mode				Sub-Group
				Values				
1	1	1	Dimmer	000	-	255	0% to 100%	Dimmer
	2	2	Dimmer fine	000	-	255	0% to 100%	
	3	Strobe functions	000	-	005	Strobe open	Multifunctional Strobe	
			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	Device settings (please read remark 1*)	000	-	073	No function	Device settings	
			074	-	075	Dimmer Response LED (hold 1,5 s)		
			076	-	081	Dimmer Response Halogen (hold 1,5 s)		
			082	-	119	No function		
			120	-	121	PWM frequency 800 Hz (hold 3s)		
			122	-	123	PWM frequency 1200 Hz (hold 3s)		
			124	-	125	PWM frequency 2000 Hz (hold 3s)		
			126	-	127	PWM frequency 3600 Hz (hold 3s)		
128			-	129	PWM frequency 12 KHz (hold 3s)			
130			-	131	PWM frequency 25 KHz (hold 3s)			
132			-	139	No function			
140			-	141	Display on (hold 3s)			
142			-	143	Display off (hold 3s)			
144			-	163	No function			
164			-	165	Dimmer Curve Linear (hold 3s)			
166			-	167	Dimmer Curve Exponential (hold 3s)			
168			-	169	Dimmer Curve Logarithmic (hold 3s)			
170			-	171	Dimmer Curve S-Curve (hold 3s)			
172	-	235	No function					
236	-	237	Reset All Functions (hold 3s)					
238	-	255	No function					

EN: (1*) After the adjustments have been made, set the value to 000 to avoid disturbance by endless function call.

DE: (1*) Nachdem die Einstellungen vorgenommen wurden, stellen Sie den Wert auf 000 ein, um Störungen durch endlosen Funktionsaufruf zu vermeiden.

FR: (1*) Une fois les ajustements effectués, réglez la valeur sur 000 pour éviter les perturbations par appel de fonction sans fin.

ES: (1*) Después de realizar los ajustes, establezca el valor en 000 para evitar perturbaciones mediante una llamada de función sin fin.

PL: (1*) Po dokonaniu ustawień ustaw wartość na 000, aby uniknąć zakłóceń przez niekończące się wywołanie funkcji.

IT: (1*) Dopo aver effettuato le regolazioni, impostare il valore su 000 per evitare disturbi causati da una chiamata a funzione infinita.

