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

GREEN SOLUTION
STAND ALONE MODE
LED TECHNOLOGY
MASTER/SLAVE
COLD WHITE
WIRELESS MASTER/SLAVE
WARM WHITE
STROBE EFFECT
TUNABLE WHITE
FLICKER FREE
512 DMX
DUST PROOF HOUSING
RDM
IP65
iDMX
Intertek

ZENIT® W300 TW

OUTDOOR LED WASH LIGHT TUNABLE WHITE VERSION
CLZW300TW

CONTENTS / INHALTSVERZEICHNIS / CONTENU / CONTENIDO / TREŚĆ / CONTENUTO

ENGLISH

DEUTSCH

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POLSKI

ITALIANO

ENGLISH

YOU HAVE MADE THE RIGHT CHOICE!

This device has been developed and manufactured to the highest quality standards to ensure many years of problem-free operation. Please read this manual carefully to be able to use your new Cameo product quickly and optimally. Further information about Cameo Light is available on our website **CAMEOLIGHT.COM**.

INFORMATION ON THIS USER MANUAL

- Read the safety instructions and the entire manual carefully before use.
- Observe the warnings on the device and in the user manual.
- Always keep the user manual within reach.
- If you sell or pass on the device, it is important to ensure you pass on this user manual, as it is an integral part of the product.

INTENDED USE

This product is a device for event technology!

The product has been developed for professional use in the field of event technology and is not suitable for use as domestic lighting. Furthermore, this product is only intended for qualified users with specialist knowledge of event technology! Use of the product outside the specified technical data and operating conditions is considered inappropriate! Liability for damage and third-party damage to persons and property due to inappropriate use is excluded!

The product is not suitable for:

- Persons (including children) with limited physical, sensory or mental abilities or lack of experience and knowledge.
- Children (children must be instructed not to play with the device).

DEFINITIONS AND SYMBOL EXPLANATIONS

1. **HAZARD:** The word HAZARD, possibly in combination with a symbol, indicates situations in which there is an immediate danger or risk of potentially fatal injury.

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

3. **CAUTION:** The word CAUTION, possibly in combination with a symbol, indicates situations or conditions that could result in injury.

4. **ATTENTION:** The word ATTENTION, possibly in combination with a symbol, indicates situations or conditions that could result in damage to property and/or the environment.

This symbol identifies hazards that can cause electric shock.

This symbol identifies danger points or hazardous situations.

This symbol indicates hazards caused by hot surfaces.

This symbol indicates hazards caused by intense light sources.

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

This symbol indicates additional information relating to use of the product.

SAFETY INSTRUCTIONS

HAZARD:

1. Do not open the device and do not perform any modifications.
2. If your device no longer functions properly, if liquids or objects get inside it or if it has been damaged in any other way, switch it off immediately and disconnect it from the mains. The device may be repaired only by authorised repair technicians.
3. For devices of protection class 1, the protective conductor must be connected correctly. Never disconnect the protective conductor. Devices of protection class 2 do not have a protective conductor.
4. Ensure that live cables are not kinked or otherwise mechanically damaged.
5. Never bypass the device fuse.

WARNING:

1. The device must not be put into operation if it shows obvious signs of damage.
2. The device may only be installed in a voltage-free state.
3. If the power cord of the device is damaged, the device must not be used.
4. Permanently connected mains cables may only be replaced by a qualified person.

CAUTION:

1. Do not put the device into operation immediately if it has been exposed to extreme temperature fluctuations (for example, after transportation). Moisture and condensation can damage the device. Do not switch on the device until it has reached room temperature.
2. Ensure that the voltage and frequency of the mains supply match the values specified on the device. If the device has a voltage selector switch, do not connect the device until it has been set correctly. Use only suitable power cables.
3. To disconnect the device from the mains on all poles, it is not sufficient to press the on/off switch on the device.
4. Make sure that the fuse used corresponds to the type printed on the device.
5. Ensure that suitable measures have been taken against overvoltage (e.g. lightning strikes).
6. Observe the specified maximum output current on devices with a Power Out connection.

Ensure that the total current consumption of all connected devices does not exceed the specified value.

7. Replace pluggable mains cables with original cables only.

HAZARD:

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

WARNING:

1. Use the device in the prescribed manner only.
2. Operate the device using only accessories of the type recommended and supplied-by the manufacturer.
3. Observe safety regulations applicable in your country during installation.
4. After connecting the device, ensure that all cables are routed so as to avoid damage or accidents, such as from tripping.
5. Always observe the specified minimum distance to normally flammable materials! Unless explicitly stated, the minimum distance is 0.3 m.
6. Always observe the minimum distance to the illuminated surface that can be read on the device!

CAUTION:

1. Moving components such as mounting brackets may become jammed.
2. In the case of devices with motor-driven components, there is a risk of injury due to the movement of the device. Sudden movement of the device can cause shock reactions.

3. The housing surface of the device can become very hot during regular operation. Ensure that accidental touching of the housing is not possible. Always allow the device to cool down sufficiently before removal, maintenance work and charging etc.

CAUTION:

1. Do not install or use the device in the vicinity of radiators, accumulators, stoves, or other heat sources Ensure that the device is always installed in such a way that it is sufficiently cooled and cannot overheat.
2. Do not place ignition sources, such as burning candles, near the device.
3. Ventilation openings must not be covered and fans must not be blocked.
4. Use the original packaging or packaging provided by the manufacturer for transport.
5. Avoid shocks or impacts to the device.
6. Observe the IP rating and the ambient conditions such as temperature and humidity according to the specifications.
7. Devices can be further developed on an ongoing basis. In the event of deviating information on operating conditions, performance or other device properties between the user manual and the device labelling, the information on the device always has priority.
8. The device is not suitable for tropical climate zones and for operation at over 2000 m above sea level.
9. Unless explicitly stated, the device is not suitable for operation under marine conditions.

CAUTION! IMPORTANT INFORMATION REGARDING LIGHTING PRODUCTS!

1. Never look directly into the beam of light, not even for a short period of time.
2. Never look into the beam of light using optical devices such as a magnifying glass.

3. Stroboscopic effects may cause epileptic seizures in those susceptible!

4. A permanently installed lamp is installed in this lighting unit which must not be replaced by the user. In the event of a fault, please contact your sales partner.

SIGNAL TRANSMISSION BY RADIO (e.g. W-DMX or audio radio systems):

The quality and performance of wireless signal transmissions generally depends on the ambient conditions.
The following factors can impact range and signal stability, for example:
Shielding (e.g. masonry, metal structures, water)
High volume of radio traffic (e.g. powerful wireless LAN networks)
Interference
Electromagnetic radiation (e.g. LED video screens, dimmers)

All range specifications refer to free-field application with visual contact and without interference!

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

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

These include:

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

TRANSMISSION VIA W-DMX

WARNING: In general, wireless DMX transmission must not be used for applications involving safety-related factors that might result in personal injury or property damage in the event of a failure.

This applies in particular to moving scene or traverse structures, DMX-controlled motors/lifts or lifting devices for operating DMX-operated platform lifts, hydraulic systems or comparable moving components.

Furthermore, wireless DMX transmission must not be used to trigger flame or pyrotechnic devices, explosion-driven effects, or to control gas or liquid effects. These include CO2 cannons, confetti shooters, water effects or similar.

NOTES ON PORTABLE OUTDOOR DEVICES

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

INCLUDED

Remove the product from the packaging and remove all packaging material.
Please check the completeness and integrity of the delivery and notify your distribution partner immediately after purchase if the delivery is not complete or if it is damaged.
Product includes:

- ▶ 1 x CL ZW300 TW Washlight
- ▶ 1 x Power cable
- ▶ 1 x Omega bracket
- ▶ User manual

INTRODUCTION

ZENIT W300 PROFESSIONAL OUTDOOR WASHLIGHT TUNABLE WHITE
CLZW300TW

CONTROL FUNCTIONS:

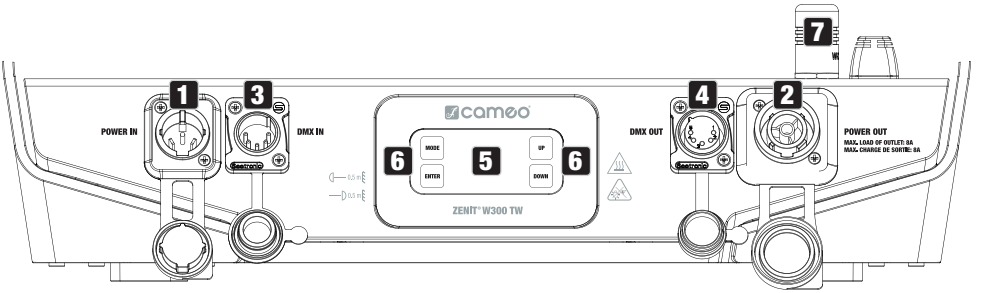
1-channel, 2-channel 1, 2-channel 2, 3-channel, 4-channel and 7-channel DMX control,
Master / Slave Operation,
Standalone Function
DMX™

FEATURES:

21 WW / CW LEDs. IP65 protection rating. DMX512. W-DMX™. 16-bit dimmer. 4 dimmer curves. Adjustable LED PWM frequency. Fast Access Feature. 5-pin DMX connections. Plastic feet. 1 x Omega mounting brackets included. Operating voltage 100-240V AC. 25°, 45°, 100°, 60° x 10°, 90° x 10°, 10° x 90° diffusing lenses and 4-fold barn door optionally available.

The spotlight features the RDM standard (Remote Device Management). Remote device management allows the user to view the status and configuration of RDM terminals via an RDM-capable controller.

CONNECTIONS, OPERATING AND DISPLAY ELEMENTS



1 POWER IN

IP65 power input socket with rubber sealing cap. Operating voltage 100-240 V AC/50-60 Hz. Connection via supplied power cable (when not in use, always close with rubber sealing cap).

2 POWER OUT

IP65 power output socket with rubber sealing cap. Facilitates power supply to other CAMEO spotlights. Ensure that the total current consumption of all connected devices does not exceed the value specified on the device in amperes (A) (when not in use, always close with the rubber sealing cap).

3 DMX IN

Male IP65 5-pin XLR socket for connecting a DMX control device (e.g. DMX console; when not in use, always close with the rubber sealing cap).

4 DMX OUT

Male IP65 5-pin XLR socket for connecting a DMX control device (e.g. DMX console; when not in use, always close with the rubber sealing cap).

5 OLED-DISPLAY

The OLED display shows the currently activated mode (main display), the menu items in the selection menu and the numerical value or status in the various menu items.

6 TOUCH-SENSITIVE CONTROLS

MODE

Press MODE to access the main menu. Press again or repeatedly to return to the main display.

ENTER

Select individual menu items in the main menu (DMX address, operating mode etc.) and in the sub-menus. Allow changes to the status or value in a menu item, such as the DMX address, as required.

UP and **DOWN**

Select individual menu items in the main menu (DMX address, operating mode etc.) and in the submenus. Allow changes to the status or value in a menu item, such as the DMX address, as required.

NOTE:

1. Before navigating the control menu, make sure that the control panel is dry and clean so that its functionality is not impaired.
2. Moisture on the control panel can lead to incorrect operation of the spotlight, e.g. in outdoor conditions. Activate the lock function after configuration to prevent malfunction due to moisture (Settings -> Autolock -> On).

7 W-DMX™ ANTENNA

Antenna for W-DMX™ control.

PRESSURE EQUALISATION ELEMENT

The pressure compensation element to prevent the forming of condensation inside the housing is located in the base of the device behind the cable feed to the LED unit. In order to ensure its proper function, the element must be protected from dirt.

HOUSING FAN

The 2 housing fans and heat sink are located on the rear of the LED unit. In order to ensure sufficient air circulation, do not cover the device and clean it regularly.

PLEASE NOTE

- As soon as the spotlight is connected, the following are displayed in succession: „Welcome to Cameo“, the model name and the software version. During the start-up process, the previously set operating mode is activated and the spotlight is ready for operation after a short time.
- If one of the DMX operating modes is activated and there is no DMX signal to the DMX input, the currently programmed DMX address is displayed and the characters on the display will begin to flash.
- Press MODE to go up one level in the menu structure. To go to the main display in the menu structure, press MODE repeatedly.
- The main display is activated automatically if there is no input in the space of approximately one minute.
- Fast Access Feature: In order to simplify the menu guide, the device has an intelligent menu structure that allows direct access to previously selected menu items and submenu items.

1. Press MODE and ENTER simultaneously for direct access to the last-edited submenu item, where you can make changes instantly as required (DMX starting address and all modes).

2. Press MODE to go directly to the last selected and edited menu item. If you now repeatedly press ENTER, you can access the submenu items to make individual settings (DMX start address and all operating modes).

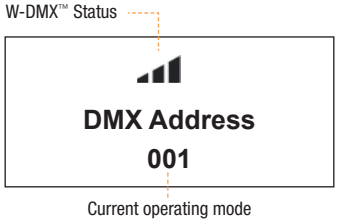
- The display can be rotated through 180° by pressing UP when the main display is visible.
- To quickly change a value (e.g. DMX start address), press and hold the UP or DOWN button.

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

OPERATION

MAIN DISPLAY

The main display shows the following information: Current mode (in the example: DMX mode with start address 001) and W-DMX™ status.



W-DMX™

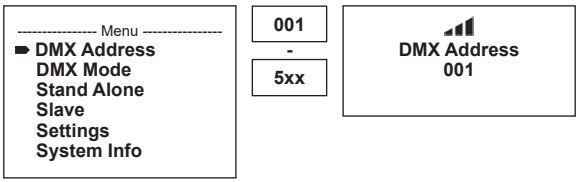
To pair a W-DMX receiver with a W-DMX compatible transmitter, the Reset command must be executed in the menu item WDMX under Receiver (select Reset and confirm). The receiver is now in pairing standby and waiting for a pairing request from a transmitter. Start the pairing by selecting Link in the menu of the transmitter and confirming; the pairing now takes place automatically. In the same way, several receivers can be paired simultaneously or one after the other to a transmitter (e.g. for master / slave operation). A W-DMX connection is always maintained until the connection is disconnected by means of the Reset command in the receiver or the Unlink command in the transmitter, regardless of whether a device has been disconnected from the power supply in the meantime.

W-DMX™ STATUS

W-DMX™ deactivated	W-DMX™ activated as receiver, not paired	W-DMX™ activated as receiver and is paired to device, Transmitter is switched off or out of range	W-DMX™ activated and is paired to device, no DMX signal	W-DMX™ activated as receiver and is paired to device, DMX signal is present	W-DMX™ and transmission mode G3 is enabled Up arrow = Send operation, Down arrow = Receive operation, Arrow flashes = Pairing process, Flashing stops = Paired	W-DMX™ and transmission mode G4S activated Up arrow = Send operation, Down arrow = Receive operation, Arrow flashes = Pairing process, Flashing stops = Paired

SETTING DMX START ADDRESS (DMX Address)

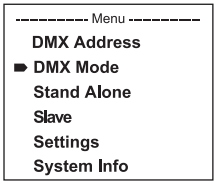
Press MODE to access the main menu (--- Menu ---). Using UP and DOWN, select the menu item **DMX Address** (observe arrow) and confirm with ENTER. The display will show a three-digit number field and you can use the UP and DOWN controls to configure the desired DMX start address. Confirm the entry with ENTER and press MODE to return to the main display (in the example, „DMX address 001").

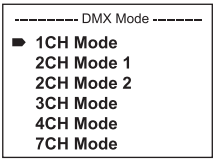


CONFIGURING DMX MODE (DMX Mode)

Press MODE to access the main menu (--- Menu ---). Using UP and DOWN, select the menu item **DMX Mode** (observe arrow) and confirm with ENTER. In the submenu, you can now select the desired DMX mode with UP and DOWN.

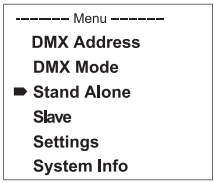
Confirm your selection with ENTER. Tables with the channel assignments can be found in these instructions under DMX CONTROL.

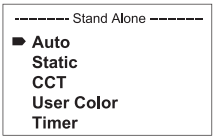


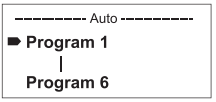


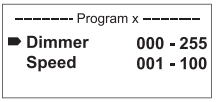
STANDALONE AUTO MODE (Auto program 1-6)

The 6 different auto programs each comprise non-editable colour-change sequences. Brightness and speed are independently adjustable. Press MODE to access the main menu (--- Menu ---). Using UP and DOWN, select the menu item **Stand Alone**, confirm with ENTER, then select the submenu item Auto and confirm again with ENTER. Now use UP and DOWN to select one of the 6 auto programs (observe arrow) and confirm with ENTER. To adjust brightness, use UP and DOWN to select the menu item **Dim** and confirm with ENTER, then use UP and DOWN to select the desired value between 000 and 255. Confirm with ENTER. Set the run speed by selecting the menu item **Speed**, confirm with ENTER, and then select the desired value between 001 and 100. Confirm with ENTER.



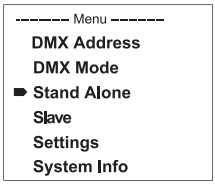


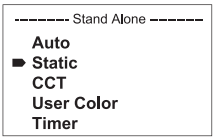


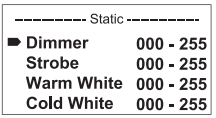


STANDALONE STATIC MODE (Static)

Static mode allows the Dimmer, Strobe and RGBW functions to be adjusted directly on the device with values between 000 to 255, similar to a DMX control unit. In this way, an individual scene can be created without an additional DMX controller. Press MODE to access the main menu (--- Menu ---). Using UP and DOWN, select the menu item **Stand Alone** and confirm with ENTER, then select **Static** and confirm once again with ENTER. Now use UP and DOWN to select the menu item you wish to edit (observe arrow) and confirm with ENTER. The display will now show a three-digit number field, and you can use UP and DOWN to configure the desired value between 000 and 255. Confirm all entries with ENTER.



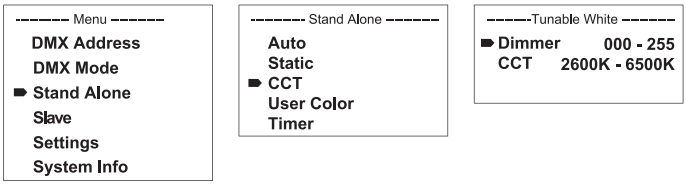




STANDALONE MODE CCT

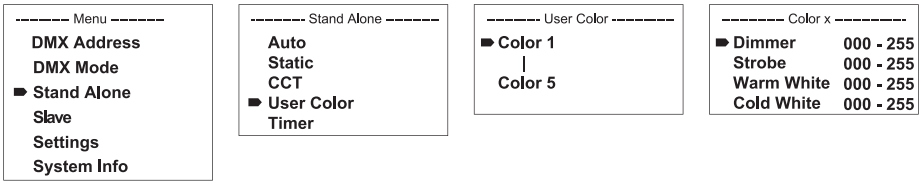
The colour temperature mode enables you to configure the colour temperature from cold white

to warm white (CCT) and the brightness (Dim) of the light directly on the device. Press MODE to access the main menu (--- Menu ---). Using UP and DOWN, select the menu item **Stand Alone** and confirm with ENTER, then select **Static** and confirm once again with ENTER. Now use UP and DOWN to select the menu item you wish to edit (observe arrow) and confirm with ENTER. The display will show a three-digit number field and you can use the UP and DOWN controls to configure the desired value. Confirm with ENTER.



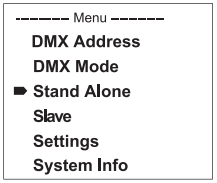
STANDALONE MODE USER PRESETS (User Color)

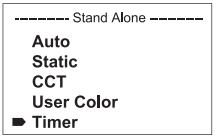
The User Presets operating mode makes it possible to store the overall brightness, strobe and a mixture of warm white and cold white directly in the device in five individual presets. Press MODE to access the main menu (--- Menu ---). Now select the **Stand Alone** menu item, confirm with ENTER, then select **User Color** and confirm the entry again with ENTER. Use UP AND DOWN to select one of the stored presets Color1 to Color5 and confirm with ENTER and select the submenu item you want to edit (observe arrow). Confirm with ENTER. The display will show a three-digit number field and you can use the UP and DOWN controls to set the value as required between 000 and 255. Confirm all entries with ENTER.

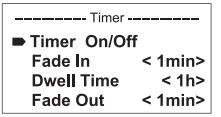


TIMER FUNCTION (Timer)

The timer function allows the standalone modes Static, CCT and User Color to be timer controlled in such a way that the fade-in time can be set from 0 to 60 minutes, the dwell time from 1 to 24 hours and the fade-out time from 0 to 60 minutes. The timer starts immediately after activating the timer function in the previously activated standalone mode and remains active even if the spotlight is switched off and restarted. Press MODE to access the main menu (--- Menu ---). Using UP and DOWN, select the menu item **Stand Alone** and confirm with ENTER, then select **Timer** and confirm once again with ENTER. For the individual timer control settings, select **Fade In**, **Dwell Time** or **Fade Out** (observe arrow) and confirm with ENTER. The display will show a three-digit number field in each case. Use UP and DOWN to set the value as required from 000 to 060 or 001 to 024. Confirm by pressing ENTER again. Once all settings have been configured as required, activate the timer function by selecting the submenu item Timer On/Off using UP and DOWN, confirm with ENTER, select On and confirm again with ENTER (to deactivate the timer function, please select Off and confirm).



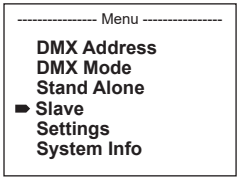




Please note: The timer function is suitable for use in master/slave mode via cable and W-DMX™.

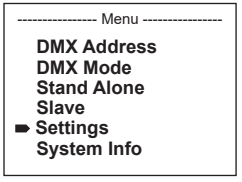
SLAVE MODE CONFIGURATION

Press MODE to access the main menu (--- Menu ---). Using UP and DOWN, select the menu item **Slave** (observe arrow) and confirm with ENTER. Connect the slave and the master units (same model, same software version) with a DMX cable and enable a standalone mode on the master nit. The slave unit will now follow the master unit. If there is no control signal, the display characters will flash. Flashing stops as soon as a control signal is present.



SYSTEM SETTINGS (Settings)

Press MODE to access the main menu (--- Menu ---). Using UP and DOWN, select the menu item **Settings** (observe arrow) and confirm with ENTER.



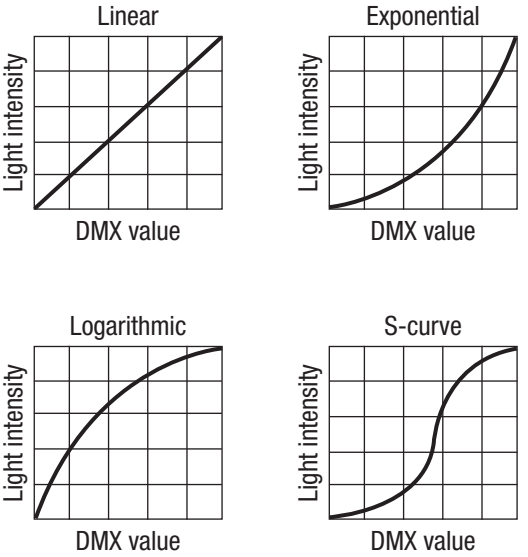
This will take you to the submenu for setting the following submenu items (see table, select with UP and DOWN, confirm with ENTER, change value or status with UP and DOWN, confirm with ENTER):

Settings				
Wireless settingss	=	W-DMX settings (Wireless DMX)	W-DMX On/Off	On = W-DMX activated
				Off = W-DMX deactivated
			Operating Mode	Receive = W-DMX module as receiver
				Receive = W-DMX module as sender
			Transmitting Mode	G3 = G3 broadcasting standard
				G4S = G4S transmission standard

Wireless settingss	=	W-DMX settings (Wireless DMX)	Link	Link = pair with W-DMX units. W-DMX must be activated on all devices and the pairing must be picked up by a transmitter (Receive Reset).
				Unlink = decoupling of all devices
			Receive Reset	No = Do not retain transmitter pairing
				Yes = Retain transmitter pairing
Display Reverse	=	Display rotation	On	Display is rotated by 180° (e.g. for head over heels installation)
			Off	No rotation of the display
Display Backlight	=	Display lighting	On	Permanently on
			Off	Deactivation after approximately 1 minute of inactivity
DMX Fail	=	Operational status with DMX signal fault	Hold	Last command is retained
			Blackout	Activates blackout
			Full On	Spotlight switches to full on
			Stand Alone	Spotlight switches to standalone mode
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
Constant Bright-ness	=	Constant bright-ness when fading from cold white to warm white and vice versa	On	Function enabled
			Off	Function disabled
Dimmer Response	=	Dimmer res-ponse	LED	Light responds abruptly to changes in DMX value
			Halogen	Light behaves like a halogen spotlight with slight brightness changes
Calibra-tion	=	Calibration of warm white and cold white	RAW	WW and CW with maximum value of 255
			User Calibration	Individual colour calibration. Cross-mode brightness setting of WW and CW with values from 0 – 255
Autolock	=	Automatic locking of the controls	On	Automatic locking of the controls after approximately 1 minute of inactivity. Dis-play shown upon attempted use: “Locked!” Unlock: Press and hold UP and DOWN simultaneously for approx. 5 seconds

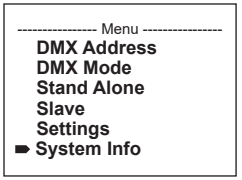
Autolock	=	Automatic locking of the controls	Off	Automatic locking of the controls is disabled
PWM Frequency	=	LED PWM frequency	650Hz, 1530Hz, 3600Hz, 12000Hz, 18900Hz, 25000Hz	Configuration of LED PWM frequency
Fan	=	Adjust fan control	Auto	Automatic fan speed control
			Off	Deactivated fan with greatly reduced brightness
			Silent	Extra-quiet fan with reduced brightness
Factory Reset	=	Reset to factory setting	Reset Now!	Reset to factory settings: ENTER -> “Reset Now!” -> ENTER. Press MODE to quit.

Dimmer curves



SYSTEM INFORMATION (System Info)

Press MODE to access the main menu (--- Menu ---). Using UP and DOWN, select the menu item **System Info** (observe arrow) and confirm with ENTER.



Use the UP and DOWN controls to select the desired submenu item, and press ENTER to display the corresponding information.

System Info				
Firmware	=	Displays Device Firmware	Main CPU	Vx.xx
			LED Driver	Vx.xx
Temperature	=	Temperature display LED unit	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

MANUAL LOCKING FUNCTION

In addition to the ability to automatically protect the spotlight from accidental and unauthorised operation (see „Settings“ - „Auto-lock“), the controls can also be locked manually. Press and hold the UP and DOWN controls simultaneously for approximately 5 seconds. If an attempt is made to change settings, „Locked!“ will appear in the display, and changing the spotlight‘s settings via the controls is no longer possible. After approx. 1 minute, the current operating mode is displayed again. To unlock, press and hold the UP and DOWN controls simultaneously for approximately 5 seconds. The display will show the previously displayed information.

SETUP AND INSTALLATION

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

Thanks to its integrated plastic feet, the spotlight can be positioned in a suitable location on a level surface. It can also be mounted on a traverse using an Omega bracket, which is attached in the centre of the base (1). An Omega bracket is included in the packaging content. Suitable beam clamps are available as an option. Ensure firm connections and secure the spotlight to the securing lug (2) with a suitable safety cable. To adjust the beam angle of the LED unit independently of the base of the device, use the thumb screws on the sides.

CARE, MAINTENANCE AND REPAIR

In order to ensure the long-term, proper functioning of the device, it must be regularly cleaned and, if necessary, maintained. The maintenance requirement depends on the intensity of use and the environment in which it is used. We generally recommend a visual inspection before each operation. Furthermore, we recommend carrying out all the applicable main enance measures specified below once every 500 operating hours or, in the case of a lower intensity of use, at the latest after one year. Warranty claims may be limited in the event of defects resulting from inadequate maintenance.

CARE (carried out by user)

WARNING! Before carrying out any maintenance work, the power supply and, if possible, all device connections must be unplugged.

PLEASE NOTE! Improper care can lead to impairment of the device or even destruction.

1. Housing surfaces must be cleaned with a clean, damp cloth. In doing so, ensure that no moisture can penetrate into the device.
2. Air inlets and outlets must be regularly cleaned of dust and dirt. If compressed air is used, care must be taken to ensure that damage to the device is prevented (e.g. fans must be blocked in this case, as they could otherwise over-rev).
3. Lines and plug contacts must be cleaned regularly and dust and dirt must be removed.
4. In general, no cleaning agents or abrasive agents may be used, otherwise the surface finish may be damaged.
5. Devices must generally be stored dry and protected from dust and dirt.
6. To ensure correct and safe operation, all accessible or removable lenses and light-emitting apertures must be cleaned regularly.

MAINTENANCE AND REPAIR (by qualified personnel only)

HAZARD! There are live components in the device. Even after disconnecting the mains connection, there may still be residual voltage in the device, e.g. due to charged capacitors.

PLEASE NOTE! There are no user-serviceable components in the device.

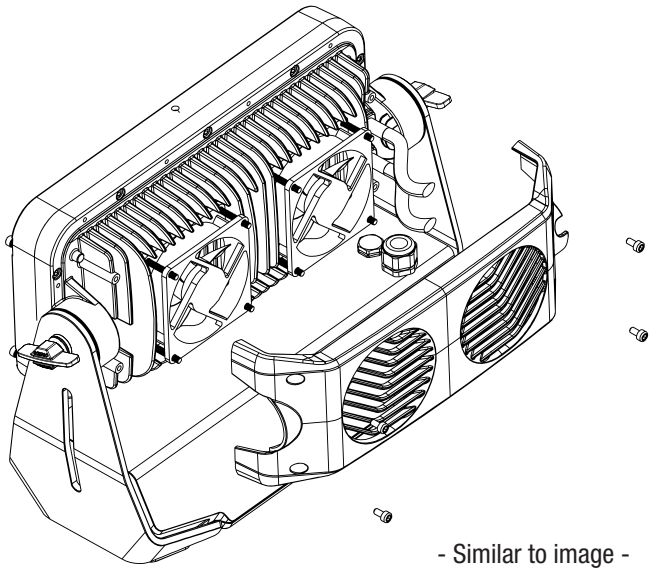
PLEASE NOTE! Maintenance and repair work may only be carried out by sufficiently qualified specialist personnel. If in doubt, consult a specialist workshop.

PLEASE NOTE! Improperly performed maintenance work may affect warranty claims.

PLEASE NOTE! For conversion or retrofit sets provided by the manufacturer, it is essential to observe the installation instructions included.

CLEAN FAN

The two fans on the back of the LED unit must be regularly checked and, if necessary, cleaned. Disconnect the spotlight from the power supply. Loosen the 4 socket screws holding the fan cover to the LED unit using a suitable tool. Remove the fan cover from the LED unit, clean the fans and check that the fans can rotate freely. If compressed air is used, make sure that damage to the device is prevented (e.g. fans must be blocked in this case, as they could otherwise over-rev.). Clean the ventilation openings of the fan cover and reattach the cover using the previously loosened screws. If a fan should block despite cleaning, take the spotlight out of operation and contact an authorised service centre.



- Similar to image -

OPTIONAL ACCESSORIES

CLZW300B200SMLSD20
25° Diffusing lens

CLZW300B200SMLSD40
45° Diffusing lens

CLZW300B200SMLSD100
100° Diffusing lens

CLZW300B200SMLSD6010
60° x 10° Diffusing lens

CLZW300B200SMLSD1090
10° x 90° Diffusing lens

CLZW300B200SMLSD9010
90° x 10° Diffusing lens

SNAPMAG® technology for
tool-free installation

CLZW300B2004B

Flap – tool-free mounting thanks to
threaded locking bolts, safety cable
included

SNAPMAG® FILTER FRAME NOT INCLUDED.

DMX TECHNOLOGY

DMX-512

DMX (Digital Multiplex) is the name for a universal communication protocol for communication between corresponding devices and controllers. A DMX controller sends DMX data to the attached DMX device(s). The DMX data transmission is always a serial data stream which is sent from one connected device to the next via the DMX IN and DMX OUT sockets on any DMX-enabled device (XLR connectors), whereby the maximum number of devices may not exceed 32. The last device in the chain must be equipped with a terminator.

DMX CONNECTION:

DMX is the common “language”, through which a wide variety of equipment types and models from different manufacturers can be connected and controlled via a central controller, as long as all the devices and the controller are DMX-compatible. For optimum data transmission, it is necessary to keep the connection cables between the individual devices as short as possible. The order in which the devices are integrated into the DMX network, has no influence on the addressing. In this way, the device with the DMX address 1 can be placed at any position in the (serial) DMX chain, at the beginning, end, or anywhere in the middle. If a device has been assigned the DMX address 1, the controller “knows” that it must send all the data associated with the address 1 to this device, regardless of its position in the DMX network.

SERIES CONNECTION OF SEVERAL SPOTLIGHTS

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. a DMX controller).
2. Connect the female XLR connector of the DMX cable connected to the first spotlight to the DMX input (male XLR socket) of the next DMX device. Connect the DMX output of this device to the DMX input of the next device in the same way and so on. Please note that serial DMX devices can be interconnected in principle and the connections cannot be shared without an active splitter. The maximum number of DMX devices in a DMX chain must not exceed 32.

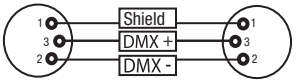
An extensive selection of suitable DMX cables can be found in the Adam Hall product lines 3 STAR, 4 STAR and 5 STAR.

DMX CABLE:

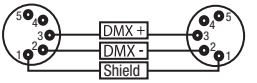
When preparing your own leads, it is essential to follow the diagrams on this page. Do not connect the shielding of the cable to the ground pin of the connector, and make sure that the shield does not come into contact with the XLR connector housing. If the shield has contact to ground it may lead to system errors.

CONNECTOR ASSIGNMENT:

DMX cable with 3-pin XLR connectors:



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



DMX TERMINATOR:

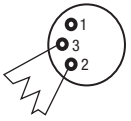
To avoid system failures, the last device in a DMX chain must be equipped with a terminating resistor (120 ohms, 1/4 watt).

3-pin XLR with terminating resistor: K3DMXT3

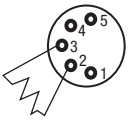
5-pin XLR with terminating resistor: K3DMXT5

CONNECTOR ASSIGNMENT:

3-pin XLR connector:



5-pin XLR connector:



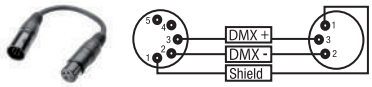
DMX ADAPTER:

The combination of DMX devices with 3-pin connectors and DMX devices with 5-pin ports in a DMX chain is also possible by using adapters.

CONNECTOR ASSIGNMENT:

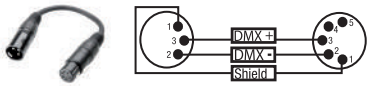
DMX adapter 5-pin male XLR to 3-pin female XLR: K3DGF0020

Pins 4 and 5 are not used.

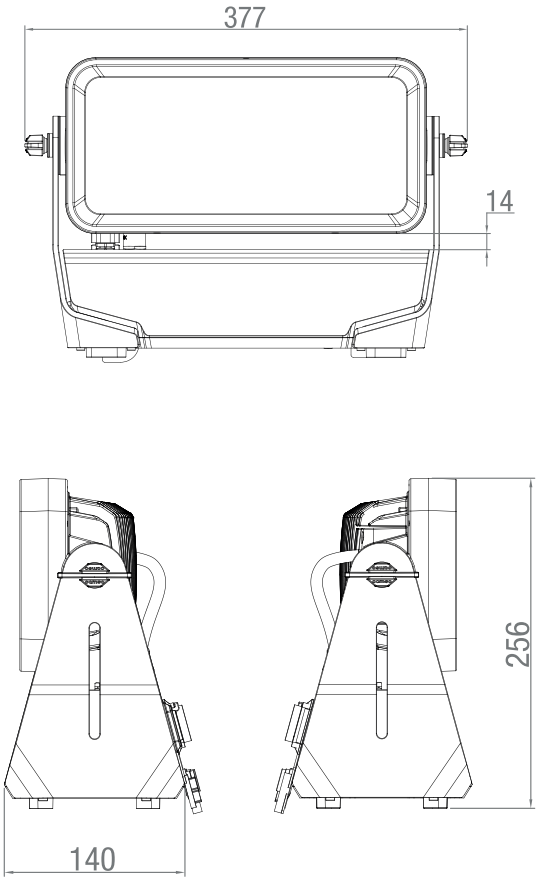


DMX adapter 3-pin male XLR to 5-pin female XLR: K3DHM0020

Pins 4 and 5 are not used.



DIMENSIONS (mm)



TECHNICAL DATA

Item number:	CLZW300TW
Product type:	LED Wash Light
Type:	Outdoor washlight
Color spectrum LED:	WW+CW (2600K-6500K)
CRI:	93 @ 4000K
LED quantity	21
LED Typ:	2in1 SMD with collimator lenses
LED Power:	12 W
LED PWM frequency:	650 Hz; 1530 Hz; 3600 Hz; 12 kHz; 18,9kHz; 25 kHz (adjustable)
Beam angle:	18° (35° field)
Interfaces:	5-pin XLR In and Out
DMX mode:	1CH, 2CH-1, 2CH-2, 3CH, 4CH, 7CH-Full Access
DMX functions:	Dimmer, Dimmer Fine, Strobe, Warm white, Cold white, Color temperature, Device settings
Standalone functions:	Warm White/Cold White Dimmer, Timer, Strobe, Color temperature
System settings:	Rotate Display 180°, Display backlight, DMX Fail, Dimmer curve, Dimmer response, LED PWM Frequency, Fan-Modes, Factory Reset
Control:	DMX512, W-DMX, RDM
Display controls:	Mode, Enter, Up, Down
Display elements:	OLED-Display
Operating voltage:	100 - 240V AC / 50 - 60Hz
Power supply connection:	TrueCon In + Out (Out max. 8A)
Electricial protection class:	1
Max Power consumption:	300 W
Inrush current:	65 A @ 0.054 ms
Luminous flux:	20000 lm
Efficiency:	66.67 lm/W
Ambient temperature (in operation):	-15°C - +40°C
Housing material:	Aluminum die casting
Housing color:	Black
Cooling:	Fan cooled
IP protection:	IP65
Tilt rotation:	158° (manually)
Usage direction:	Any
Minimum distance to illuminated surface:	0.5 m
Minimum distance to normally flammable materials:	0.5 m

Dimensions (B x H x T, without mounting bracket):	377 x 256 x 140 mm
Weight (without accessories):	8 kg
Accessories included:	1 x Omega bracket + power cable
Optional available accessories:	Snapmag filter (25°, 45°, 100°, 60°x10°,90°x10°, 10°x90°), Barndoor

EXPLANATION OF IP PROTECTION CLASS

1. An IP rating only reflects protection from solid objects and water. It does not describe general weather resistance, such as protection from UV radiation and temperature, etc.
2. The first identification digit indicates protection from dust, solid objects and contact:

IP2X	Protected against solid foreign bodies ≥ 12.5 mm in diameter
IP3X	Protected against solid foreign bodies ≥ 2.5 mm in diameter
IP4X	Protected against solid foreign bodies ≥ 1.0 mm in diameter
IP5X	Protected against dust in harmful quantities and completely protected against contact
IP6X	Are dust-tight and completely protected against contact

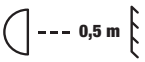
3. The second identification digit indicates protection from water:

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

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

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

MINIMUM DISTANCE TO ILLUMINATED SURFACE



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

MINIMUM DISTANCE TO NORMALLY FLAMMABLE MATERIALS

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

DISPOSAL

PACKAGING:

1. Packaging can be fed into the reusable material cycle using the usual disposal methods.
2. Please separate the packaging in accordance with the disposal laws and recycling regulations in your country.

DEVICE:

1. This device is subject to the European Directive on Waste Electrical and Electronic Equipment, as amended. WEEE Directive Waste Electrical and Electronic Equipment. Old appliances do not belong in household waste. The old device must be disposed of via an approved disposal company or a municipal disposal facility. Please observe the applicable regulations in your country!
2. Observe all disposal laws applicable in your country.
3. As a private customer, you can obtain information on environmentally-friendly disposal options from the seller of the product or the appropriate regional authorities.

MANUFACTURER'S DECLARATIONS

MANUFACTURER'S WARRANTY & LIMITATION OF LIABILITY

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

E-mail Info@adamhall.com / +49 (0)6081 / 9419-0

Our current warranty conditions and limitation of liability can be found at:

https://cdn-shop.adamhall.com/media/pdf/Manufacturers-Declarations-CAMEO_DE_EN_ES_FR.pdf

Contact your sales partner for service.

ISED Statement

English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-5 (B)/NMB-5(B).

French : Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'exploitation est soumise aux deux conditions suivantes :
(1) Cet appareil ne doit pas provoquer d'interférences.
(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.
l'appareil numérique du ciem conforme canadien peut - 5 (b) / nmb - 5(b).
This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance. Cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.
This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé.

RF EXPOSURE STATEMENT

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

RF EXPOSURE INFORMATION

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

UKCA- CONFORMITY

Hereby, Adam Hall Ltd. declares that this product meets the following guidelines (where applicable)

Electrical Equipment (Safety) Regulations 2016

Electromagnetic Compatibility Regulations 2016 (SI 2016/1091)

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulation 2012 (SI 2012/3032)

Radio Equipment Regulations 201 7(SI 2016/2015)

UKCA- DECLARATION OF CONFORMITY

Products that are subject to Electrical Equipment(Safety)Regulation 2016, EMC Regulation 2016 or RoHS Regulation can be requested at info@adamhall.com

Products that are subject to the Radio Equipments Regulations 2017 (SI2017/1206) can be downloaded from www.adamhall.com/compliance/

SUBJECT TO MISPRINTS AND ERRORS, AS WELL AS TECHNICAL OR OTHER MODIFICATIONS!

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

1 CH Mode						
Ch.	Function	Values				Sub-Group
1	Dimmer	000	-	255	0% to 100% (preselection Stand Alone -> CCT value required)	Intensity

2 CH Mode 1						
Ch.	Function	Values				Sub-Group
1	Dimmer	000	-	255	0% to 100%	Intensity
2	Color Temperature	000	-	046	Warm white -> 2700K	CCT
		047	-	047	Bulb White (2700K)	
		048	-	087	2700K -> 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	-	254	6500K -> cold Daylight	
		255	-	255	Cold Daylight	

2 CH Mode 2						
Ch.	Function	Values				Sub-Group
1	Warm White	000	-	255	0%to 100%	Intensity
2	Cold White	000	-	005	0% to100%	Intensity

3 CH Mode						
Ch.	Function	Values				Sub-Group
1	Dimmer	0	-	255	0% to 100%	Intensity
2	Strobe functions	000	-	005	Strobe open	Multifunc-tional Strobe
		006	-	010	Strobe closed	
		011	-	033	Pulse random, slow -> fast	
		034	-	056	Ramp up random, slow -> fast	
		057	-	079	Ramp down random, slow -> fast	
		080	-	102	Random Strobe effect, slow -> fast	

2	Strobe functions	103	-	127	Strobe Break effect, 5s…..1s (short burst with break)	Multifunc-tional Strobe
		128	-	250	Strobe slow -> fast <1Hz - 20Hz	
		251	-	255	Strobe open	
3	Color Temperature	000	-	046	Warm white -> 2700K	CCT
		047	-	047	Bulb White (2700K)	
		048	-	087	2700K -> 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	-	254	6500K -> cold Daylight	
		255	-	255	Cold Daylight	

4 CH Mode						
Ch.	Function	Values				Sub-Group
1	Dimmer	000	-	255	0% to 100%	Intensity
2	Strobe functions	000	-	005	Strobe open	Multifunc-tional Strobe
		006	-	010	Strobe closed	
		011	-	033	Pulse random, slow -> fast	
		034	-	056	Ramp up random, slow -> fast	
		057	-	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	Warm White	000	-	255	0%to 100%	Intensity
4	Cold White	000	-	255	0% to100%	Intensity

7 CH Mode						
Ch.	Function	Values				Sub-Group
1	Dimmer	000	-	255	0% to 100%	Intensity
2	Dimmer fine	000	-	255	0% to 100%	

3	Strobe functions	000	-	005	Strobe open	Multifunc-tional Strobe
		006	-	010	Strobe closed	
		011	-	033	Pulse random, slow -> fast	
		034	-	056	Ramp up random, slow -> fast	
		057	-	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	Warm White	000	-	255	0%to 100%	Intensity
5	Cold White	000	-	255	0% to100%	
6	Color Temperature (overrides Warm White + Cold White Channel)	000	-	005	off	CCT
		006	-	006	Warm white	
		007	-	046	Warm white -> 2700K	
		047	-	047	Bulb White (2700K)	
		048	-	087	2700K -> 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	-	254	6500K -> cold Daylight	
		255	-	255	Cold Daylight	
7	Device settings (please read remark 1*)	000	-	073	No function	Control
		074	-	075	Dimmer Response LED (hold 1,5 s)	
		076	-	077	Dimmer Response Halogen (hold 1,5 s)	
		078	-	097	No function	
		098	-	099	Auto Fan (hold 3s)	
		100	-	101	Fan Off (hold 3s)	
		102	-	103	Silent Fan (hold 1,5s)	
		104	-	119	No function	
		120	-	121	PWM 1 (650 Hz) (hold 3s)	
		122	-	123	PWM 2 (1530 Hz) (hold 3s)	
		124	-	125	PWM 3 (3600 Hz) (hold 3s)	

7	Device settings (please read remark 1*)	126	-	127	PWM 4 (12000 Hz) (hold 3s)	Control
		128	-	129	PWM 5 (18900 Hz) (hold 3s)	
		130	-	131	PWM 6 (25000 Hz) (hold 3s)	
		132	-	133	RAW (hold 3s)	
		134	-	135	No function	
		136	-	137	User Calibrated (hold 3s)	
		138	-	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 exp (hold 3s)	
		168	-	169	Dimmer Curve log (hold 3s)	
		170	-	171	Dimmer Curve S-Curve (hold 3s)	
		172	-	173	CCT fade constant brightness on (hold 3s)	
		174	-	175	CCT fade constant brightness off (hold 3s)	
		176	-	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.

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