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

ZENIT® W600 D SMD

OUTDOOR SMD LED WASH LIGHT
WITH SEGMENT CONTROL - DAYLIGHT VERSION
CLZW600DSMD

CONTENTS / INHALTSVERZEICHNIS / CONTENU / CONTENIDO / TREŚĆ / CONTENUTO

ENGLISH

DEUTSCH

CONTENTS / INHALTSVERZEICHNIS / CONTENU / CONTENIDO / TREŚĆ / CONTENUTO

FRANÇAIS

ESPAÑOL

CONTENTS / INHALTSVERZEICHNIS / CONTENU / CONTENIDO / TREŚĆ / CONTENUTO

POLSKI

ITALIANO

CONTENTS / INHALTSVERZEICHNIS / CONTENU / CONTENIDO / TREŚĆ / CONTENUTO

DMX

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.

APPROPRIATE 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 HAZARD, possibly in combination with a symbol, indicates situations in which there is an immediate danger or risk of potentially fatal injury.

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

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

This symbol identifies hazards that can cause electric shock.

This symbol identifies 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

Take the product out of 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 shows signs of damage.

With the package you purchased, you received:

- ▶ Spotlight
- ▶ Mains cable
- ▶ 2 Omega brackets
- ▶ User manual

INTRODUCTION

ZENIT W600 D SMD PROFESSIONAL OUTDOOR WASHLIGHT

CLZW600DSMD

CONTROL FUNCTIONS:

1-channel, 2-channel, 3-channel, 4-channel, 6-channel, 12-channel, 15-channel, 18-channel, 48-channel, 54-channel, 63-channel DMX control

Master / slave operation

Standalone operation

W-DMX™

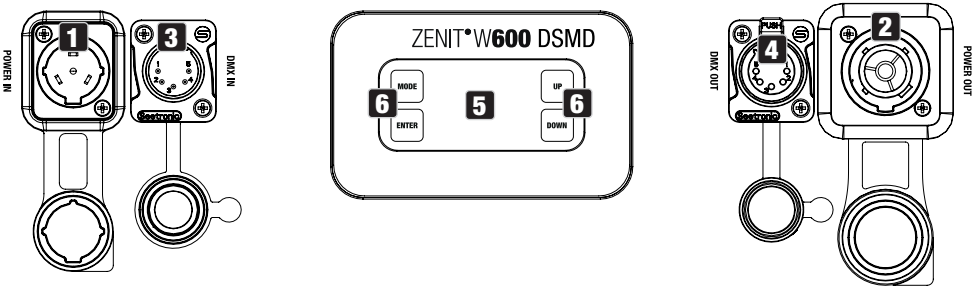
FEATURES:

576 Single SMD Daylight 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. 2x Omega mounting brackets included. Operating voltage 100–240 V AC.

Barn-door available as an option.

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

CONNECTIONS, OPERATING AND DISPLAY ELEMENTS



1 POWER IN

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

Female IP65 5-pin XLR socket for sending DMX control signal (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

Press ENTER to access the menu level to make value or status changes, and to access the sub-menus. Confirm value or status changes by pressing ENTER.

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.

PRESSURE EQUALISATION ELEMENT

The pressure equalisation element to prevent condensation inside the housing is in the device base, behind the cable feed for the LED unit. In order to ensure its proper function, the element must be protected from contamination.

HOUSING FAN

The 3 housing fans and the heat sink are on the back of the LED unit. In order to ensure good air circulation, do not cover the device and clean it regularly.

PLEASE NOTE

- As soon as the spotlight is connected is supplied with power, 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.
- Before changing device settings, ensure that the control panel is dry and free of dust in order not to impair its functionality.
- 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.

- 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).

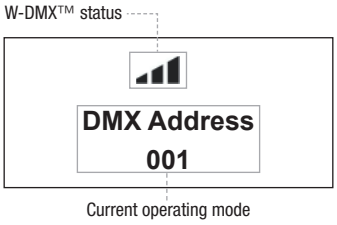
- The display can be rotated through 180° by pressing UP when the main display is visible.
- To quickly change a value (e.g. DMX start address), press and hold the UP or DOWN button.

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

OPERATION

MAIN DISPLAY

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



W-DMX™

1. To pair with W-DMX™ compatible transmitters, enable W-DMX™ in the device settings (Settings -> Wireless Setting -> W-DMX On Off -> On) and reset the W-DMX™ module (Receive Reset -> Yes). Start the pairing process as described in the operating instructions of the W-DMX™ transmitter. Pairing is then completed automatically.

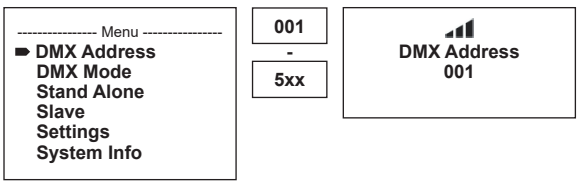
2. Pair a group of W-DMX™ devices to create a DMX universe with them. First decouple all devices that should form the group (Settings -> Wireless Setting -> Receive Reset). Then select a CLZW600 with a DMX controller via DMX cable and select "Transmit" in the settings (Settings -> Wireless Setting -> Operating Mode -> Transmit). Select "Receive" in the settings of the W-DMX™ device that you want to control via W-DMX™ (Settings -> Wireless Setting -> Operating Mode -> Receive), and pair it by selecting "Link" in the settings of the DMX cable controlled CLZW600, then confirm your selection (Settings -> Wireless Setting -> Link -> Link). Pairing is then completed automatically.
3. It is also possible to create a connected group of W-DMX™ devices via W-DMX™, and operate them in master/slave mode. First decouple all devices that should form the group (Settings -> Wireless Setting -> Receive Reset). In the settings (Settings -> Wireless Setting -> Operating Mode) of the master unit select "Transmit", and in the settings of the slave units select "Receive". On the master unit select "Link" (Settings -> Wireless Setting -> Link -> Link) and confirm your selection by pressing ENTER. Pairing of the devices is then completed automatically. Select standalone mode in the master unit and use this to control the slave units (same model).

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

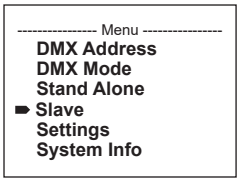
SETTING DMX START ADDRESS (DMX ADDRESS)

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").



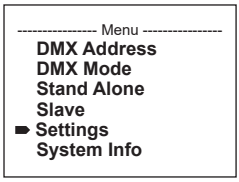
SLAVE MODE CONFIGURATION

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 (Static, Pixel) on the master unit. 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.



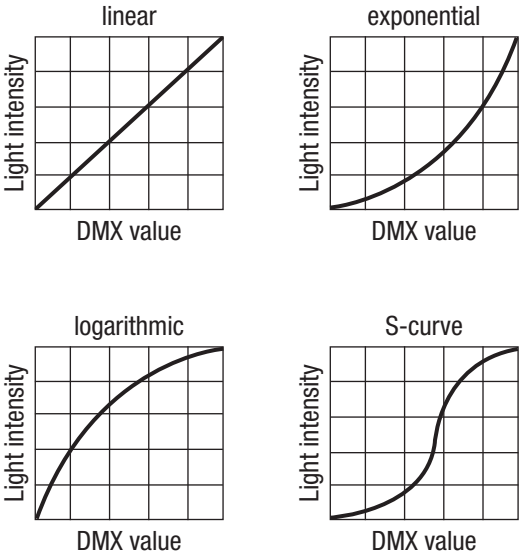
This will take you to the submenu for setting the following submenu items (selection with UP and DOWN, confirm with ENTER):

Settings				
Wireless Settings	=	W-DMX settings (wireless DMX)	W-DMX On/ Off	On = W-DMX activated
				Off = W-DMX disabled
			Operating Mode	Receive = W-DMX module as receiver
				Transmit = W-DMX module as transmitter
			Transmitting Mode	G3 = G3 transmission standard
				G4S = G4S transmission standard
			Link	Link = pair with W-DMX devices. W-DMX must be activated on all devices and the pairing must be picked up by a transmitter (Receive Reset).
				Unlink = unpair 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 overhead installation)
			Off	No rotation of the display
Display Back-light	=	Display lighting	On	permanently on
			Off	Deactivation after approximately 1 minute of inactivity
DMX Fail	=	Operating status when DMX signal fault occurs	Hold	last command is retained
			Blackout	Activates blackout
			Full On	Spotlight switches to full on
			Stand-alone	Spotlight switches to stand-alone 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
Power Mode	=	Operating mode	Normal	Constant brightness
			Boost	Brief maximum brightness (approx. 3 seconds)
Dimmer response	=	Dimmer response	LED	Lamp responds abruptly to changes in DMX value
			Halogen	Spotlight behaves like a halogen spotlight with soft brightness changes
Autolock	=	Automatic locking of controls	On	Automatic locking of the controls after approximately 1 minute of inactivity. After attempted input the display shows: "Locked!" Unlock: press and hold UP and DOWN simultaneously for approx. 5 seconds
			Off	Automatic locking of the controls is disabled
PWM Frequency	=	LED PWM frequency:	800 Hz/1200 Hz/2000 Hz/ 3600 Hz/12 kHz/25 kHz	Configuration of LED PWM frequency

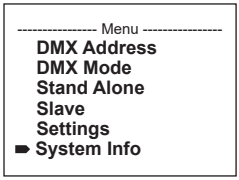
Mirror Pixel	=	Invert/mirror arrangement of pixel segments (function only for DMX operation)	Off	No reflection/inversion
			Invert	Background -> Pattern, Pattern -> Background
			Horizontal	Mirror horizontally
			Vertical	Mirror vertically
			Horizontal + Invert	Mirror and invert horizontally
			Vertical + Invert	Mirror and invert vertically
Fan	=	Adjust fan control	Auto	Automatic adjustment of the fan performance
			Max. Intensity	Maximum fan capacity for maximum brightness
			Low Noise	Extra-quiet fan with reduced brightness
Factory Reset	=	Resets to factory setting	Reset Now!	Reset to factory settings: ENTER -> "Reset Now!" -> ENTER Press MODE to stop.

Dimmer curves



SYSTEM INFORMATION (SYSTEM INFO)

Press MODE to access the main menu (--- Menu ---). Using the arrow keys, 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	=	Displays temperature of 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

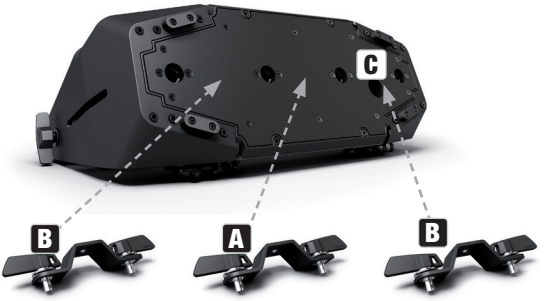
MANUAL LOCKING FUNCTION

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.

SET-UP AND INSTALLATION

Thanks to its integrated plastic feet, the lamp can be positioned in a suitable location on a level surface. Mounting to a traverse is possible using an Omega bracket which is attached at the centre of the device base (A) or else by means of two Omega bracket, which are mounted at the outer attachment positions (B). 2 x Omega brackets are included. Suitable beam clamps are available as an option. Ensure firm connections and secure the spotlight to the designated location (C) with a suitable safety cable. The beam direction of the LED unit is set using the wing nuts on the side independently of the device base.

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 of incorrectly mounted and secured devices coming loose and falling down. This can cause serious injury or death.



CARE, MAINTENANCE AND REPAIR

In order to ensure the faultless functioning of the device in the long term, it must be maintained and serviced regularly, at least every 3,000 operating hours or at the latest after one year.

CARE (CAN BE CARRIED OUT BY THE 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 to remove dust and soiling. 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 to remove dust and soiling.
4. In general, no cleaning agents or abrasive agents may be used for maintenance, otherwise the surface finish may be impaired.
5. Devices must generally be stored in a dry place 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.

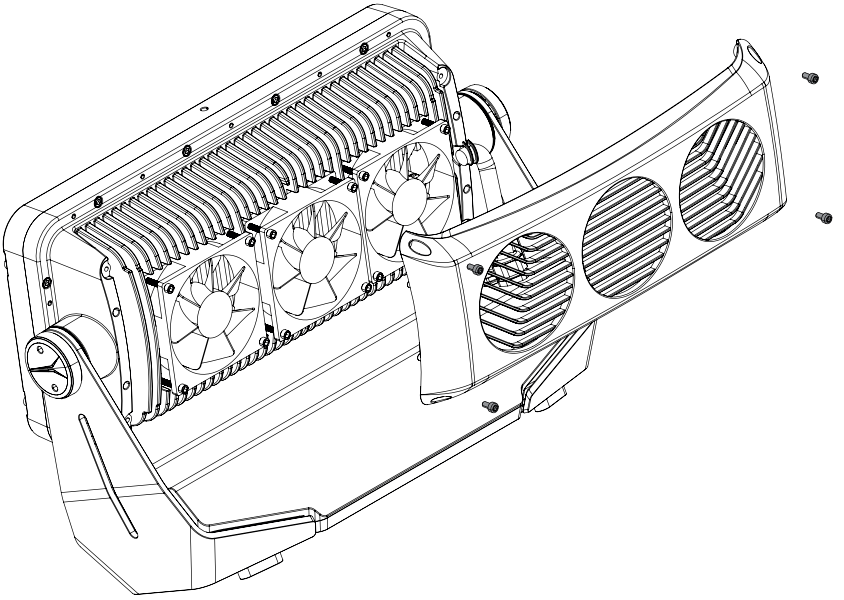
PLEASE NOTE!Improperly performed maintenance work may affect warranty claims.

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

CLEAN FAN

The three fans on the back of the LED unit of the spotlight 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, 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). Clean the ventilation openings of the fan cover and fasten the cover again with the previously loosened screws.

If a fan should become blocked despite cleaning, take the spotlight out of operation and contact an authorised service centre.



OPTIONAL ACCESSORIES

CLZW6004B

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

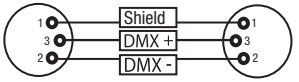
An extensive selection of suitable DMX cables can be found in the Adam Hall product lines 3 STAR, 4 STAR and 5 STAR.

DMX CABLE:

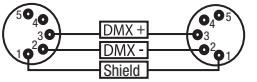
When preparing your own leads, it is essential to follow the diagrams on this page. Do not connect the shielding of the cable to the ground pin of the connector, and make sure that the shield does not come into contact with the XLR connector housing. If the shield has contact to ground it may lead to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

CONNECTOR ASSIGNMENT:

DMX cable with 3-pin XLR connectors:
(pins 4 and 5 are not used.)



DMX cable with 5-pin XLR connectors



DMX TERMINATOR:

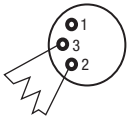
To avoid system failures, the last device in a DMX chain must be equipped with a terminating resistor (120 ohms, 1/4 watt).

3-pin XLR with terminating resistor: K3DMXT3

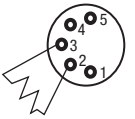
5-pin XLR with terminating resistor: K3DMXT5

CONNECTOR ASSIGNMENT:

3-pin XLR connector:



5-pin XLR connector:



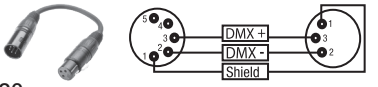
DMX ADAPTER:

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

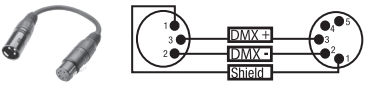
Pins 4 and 5 are not used.



CONNECTOR ASSIGNMENT

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

Pins 4 and 5 are not used.



TECHNICAL DATA

Product number:	CLZW600DSMD
Product type:	LED wash light
Type:	Outdoor spotlight
Colour spectrum LED:	Cool white (5700K)
Number of LEDs:	576
LED type:	Single SMD
LED PWM frequency:	800 Hz, 1200 Hz, 2000 Hz, 3600 Hz, 12 kHz, 25 kHz (adjustable)
Beam angle:	104° (145° Field)
Interfaces:	5-pin XLR In and Out
DMX mode:	1CH, 2CH, 3CH, 4CH, 6CH 16bit Dim, 15CH Full Area Pattern 16 Bit Dim, 12CH Pixelcontrol, 48 Pixelcontrol 8bit, 18CH Pixelcontrol + Masterdim, 63CH Full Access Pixelcontrol & Pattern, 54CH Pixel+Dim
DMX functions:	Dimmer, dimmer fine, strobe, pixel control, pattern, pattern speed, system settings
Standalone functions:	Dimmer, Pixel Pattern, Timer, Strobe
System settings:	Rotate display by 180°, display lighting, DMX fail, dimmer curves, dimmer response, power mode, LED PWM frequency, fan control, factory reset
Control:	DMX512, W-DMX, RDM
Operating elements:	mode, enter, up, down
Display elements:	OLED display
Operating voltage:	100–240 V AC / 50–60 Hz
Power supply connection:	TrueCon In + Out (Out max. 5A)
Electrical protection class:	1
Maximum power consumption:	Boost Mode: 1050 W Normal Mode: 550 W
Illuminance (@ 1m, without diffuser):	Boost Mode: 34,000 lx Normal Mode: 18,500 lx
Luminous flux:	Boost Mode: > 90,000 lm Normal Mode: 46,000 lm
Ambient temperature (in operation):	–15°C to +40°C
Housing material:	die-cast aluminium
Housing colour:	Black
Housing cooling:	Fan cooled
Protection class:	IP65
Tilt Rotation	158° (manual)
Operating situation:	As required

Minimum distance to illuminated surface:	0.5 m
Minimum distance to normal flammable materials:	0.3 m
Dimensions (W x H x D, without bracket):	463 x 291 x 161 mm.
Weight (not including accessories):	11.9 kg
Accessories supplied:	2 Omega brackets + power cable
Optional accessories:	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

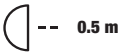
3. The second identification digit indicates protection from water:

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).

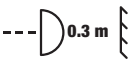
The IP rating of the product can be found in the technical data and is printed on the device.

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.

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 0.3 m.

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.

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

1CH	2CH	3CH	Function	Values			
1	1	1	Dimmer	000	-	255	0% to 100%
-	2	2	Multifunctional Strobe	000	-	005	Strobe open
				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 Effekt, 5s…..1s (short burst with break)
				128	-	250	Strobe slow -> fast <1Hz - 20Hz
				251	-	255	Strobe open
	-	3	Duration	000	-	255	Flash duration (0ms to 510ms)

4CH	6CH 16bit dim	Function	Values			
1	1	Dimmer	000	-	v	0% to 100%
-	2	Dimmer fine	000	-	255	0% to 100%
2	3	Multifunctional Strobe	000	-	005	Strobe open
			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 Effekt, 5s…..1s (short burst with break)
			128	-	250	Strobe slow -> fast <1Hz - 20Hz
			251	-	255	Strobe open
-	4	Duration	000	-	255	Flash duration (0ms to 510ms)
3	5	Dimmer Curve	000		005	no function
			006	-	063	Linear Dimmer Curve
			064	-	127	Exponential Dimmer Curve
			128	-	191	Logarithmic Dimmer Curve
			192	-	255	S-Curve Dimmer Curve

4	6	Device Settings (please read remark 1*)	000	-	057	no function
			058	-	059	Pixel Mirroring Off (hold 3s)
			060	-	061	Pixel Mirroring Vertical (hold 3s)
			062	-	063	Pixel Mirroring Horizontal (hold 3s)
			064	-	065	Pixel Mirroring Vertical + Horizontal (hold 3s)
			066	-	077	no function
			078	-	079	Dimmer Response LED (hold 1,5s)
			080	-	081	Dimmer Response Halogen (hold 1,5s)
			082	-	085	No function
			086	-	087	Power Mode - Normal
			088	-	089	No function
			090	-	091	Power Mode - Boost
			092	-	097	No function
			098	-	099	Silent Fan (Hold 3s)
			100	-	100	Auto Fan (Hold 3s)
			101	-	101	Fan Off (Hold 1,5s)
			102	-	119	No function
			120	-	121	LED Frequency 800Hz (hold 3s)
			122	-	123	LED Frequency 1200Hz (hold 3s)
			124	-	125	LED Frequency 2000Hz (hold 3s)
			126	-	127	LED Frequency 3600Hz (hold 3s)
			128	-	129	LED Frequency 12kHz (hold 3s)
			130	-	131	LED Frequency 25kHz (hold 3s)
			132	-	133	No function
			134	-	135	Display on (hold 3s)
			136	-	137	Display off (hold 3s)
			144	-	255	No function

12CH (12 Segments) Pixel Control	48CH (48 Segments) Pixel Control 8bit	Function	Values			
-	-	Dimmer	000	-	255	0% to 100%
		Dimmer fine	000	-	255	0% to 100%
		Multifunctional Strobe	000	-	005	Strobe open
			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 Effekt, 5s…..1s (short burst with break)
			128	-	250	Strobe slow -> fast <1Hz - 20Hz
			251	-	255	Strobe open
		Duration	000	-	255	Flash duration (0ms to 510ms)
1	1	Pixel 1	000	-	255	0% to 100%
2	2	Pixel 2	000	-	255	0% to 100%
3	3	Pixel 3	000	-	255	0% to 100%
…..	.....	…..	…..	-	…..	Pixel 4 to 11 / 47
12	48	Pixel 12 / 48	000	-	255	0% to 100%

15CH Full Pattern 16 Bit dim	63CH Full Access Pixel Control & Pattern	Function	Values				Sub Group
1	1	Dimmer	000	-	255	0% to 100%	Dimmer
2	2	Dimmer fine	000	-	255	0% to 100%	
3	3	Multifunctional Strobe	000	-	005	Strobe open	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 Effekt, 5s…..1s (short burst with break)	
			128	-	250	Strobe slow -> fast <1Hz - 20Hz	
			251	-	255	Strobe open	
4	4	Duration	000	-	255	Flash duration (0ms to 510ms)	
-	5	Pixel 1	000	-	255	0% to 100%	Pixel
	6	Pixel 2	000	-	255	0% to 100%	
	7	Pixel 3	000	-	255	0% to 100%	
	…..	…..	…..	-	…..	Pixel 4 to 47	
	52	Pixel 48	000	-	255	0% to 100%	

5	53	Pattern	000	-	005	Pattern off	All Background functions are enabled with enabled Pattern
			006	-	255	6-98 dynamic / 128-234 static	
6	54	Speed Dynamic Pattern	000	-	005	Effect Pattern Stop	
			006	-	126	Effect Pattern Speed, fast > slow, forward	
			127	-	127	Stop	
			128	-	255	Effect Pattern Speed, slow > fast, backward	
7	55	Step or Fade Dynamic Pattern	000	-	005	off	
			006	-	255	Fade Effect Pattern 1% - 100%	
8	56	Pattern Transition Time	000	-	005	0s	
			006	-	105	0,1s - 10s (0,1s Steps)	
			106	-	214	11s - 119s (1s Steps)	
			215	-	244	2m - 4m50s (10s Steps)	
			245	-	255	5m - 15m (1m Steps)	
9	57	Stop Dynamic Pattern	000	-	005	Stop dynamic Pattern off	
			006	-	255	Stop dynamic Pattern after x Steps	
10	58	Background Dimmer	000	-	255	0-100%	
11	59	Background Dimmer fine	000	-	255	0-100%	
12	60	Background Multifunctional Strobe	000	-	005	Strobe open	
			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 Effekt, 5s…..1s (short burst with break)	
			128	-	250	Strobe slow -> fast <1Hz - 20Hz	
			251	-	255	Strobe open	
13	61	Background Duration	000	-	255	Flash duration (0ms to 510ms)	

14	62	Dimmer Curve	000		005	no function	Dimmer Curve
			006	-	063	Linear Dimmer Curve	
			064	-	127	Exponential Dimmer Curve	
			128	-	191	Logarithmic Dimmer Curve	
			192	-	255	S-Curve Dimmer Curve	
15	63	Device Settings (please read remark 1*)	000	-	057	no function	Control
			058	-	059	Pixel Mirroring Off (hold 3s)	
			060	-	061	Pixel Mirroring Vertical (hold 3s)	
			062	-	063	Pixel Mirroring Horizontal (hold 3s)	
			064	-	065	Pixel Mirroring Vertical + Horizontal (hold 3s)	
			066	-	077	no function	
			078	-	079	Dimmer Response LED (hold 1,5s)	
			080	-	081	Dimmer Response Halogen (hold 1,5s)	
			082	-	085	No function	
			086	-	087	Power Mode - Normal	
			088	-	089	No function	
			090	-	091	Power Mode - Boost	
			092	-	097	No function	
			098	-	099	Silent Fan (Hold 3s)	
			100	-	100	Auto Fan (Hold 3s)	
			101	-	101	Fan Off (Hold 1,5s)	
			102	-	119	No function	
			120	-	121	LED Frequency 800Hz (hold 3s)	
			122	-	123	LED Frequency 1200Hz (hold 3s)	
			124	-	125	LED Frequency 2000Hz (hold 3s)	
			126	-	127	LED Frequency 3600Hz (hold 3s)	
			128	-	129	LED Frequency 12kHz (hold 3s)	
			130	-	131	LED Frequency 25kHz (hold 3s)	
			132	-	133	No function	
			134	-	135	Display on (hold 3s)	
			136	-	137	Display off (hold 3s)	
			144	-	255	No function	

18CH (12 Segments) Pixel Control & Master Dim	54CH (48 Segments) Pixel Control & Master Dim	Function	Values			
1	1	Dimmer	000	-	255	0% to 100%
2	2	Dimmer fine	000	-	255	0% to 100%
3	3	Multifunctional Strobe	000	-	005	Strobe open
			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 Effekt, 5s…..1s (short burst with break)
			128	-	250	Strobe slow -> fast <1Hz - 20Hz
			251	-	255	Strobe open
4	4	Duration	000	-	255	Flash duration (0ms to 510ms)
5	5	Pixel 1	000	-	255	0% to 100%
6	6	Pixel 2	000	-	255	0% to 100%
7	7	Pixel 3	000	-	255	0% to 100%
…..	.....	…..	…..	-	…..	Pixel 4 to 11 / 47
16	52	Pixel 12 / 48	000	-	255	0% to 100%
17	53	Dimmer Curve	000		005	no function
			006	-	063	Linear Dimmer Curve
			064	-	127	Exponential Dimmer Curve
			128	-	191	Logarithmic Dimmer Curve
			192	-	255	S-Curve Dimmer Curve

18	54	Device Settings (please read remark 1*)	000	-	057	no function
			058	-	059	Pixel Mirroring Off (hold 3s)
			060	-	061	Pixel Mirroring Vertical (hold 3s)
			062	-	063	Pixel Mirroring Horizontal (hold 3s)
			064	-	065	Pixel Mirroring Vertical + Horizontal (hold 3s)
			066	-	077	no function
			078	-	079	Dimmer Response LED (hold 1,5s)
			080	-	081	Dimmer Response Halogen (hold 1,5s)
			082	-	085	No function
			086	-	087	Power Mode - Normal
			088	-	089	No function
			090	-	091	Power Mode - Boost
			092	-	097	No function
			098	-	099	Silent Fan (Hold 3s)
			100	-	100	Auto Fan (Hold 3s)
			101	-	101	Fan Off (Hold 1,5s)
			102	-	119	No function
			120	-	121	LED Frequency 800Hz (hold 3s)
			122	-	123	LED Frequency 1200Hz (hold 3s)
			124	-	125	LED Frequency 2000Hz (hold 3s)
			126	-	127	LED Frequency 3600Hz (hold 3s)
			128	-	129	LED Frequency 12kHz (hold 3s)
			130	-	131	LED Frequency 25kHz (hold 3s)
			132	-	133	No function
			134	-	135	Display on (hold 3s)
			136	-	137	Display off (hold 3s)
			144	-	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.

PIXEL SEGMENTS / PIXEL SEGMENTE

48 Pixel Segments

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	46	47	48

12 Pixel Segments

1	2	3	4	5	6
7	8	9	10	11	12

cameo®

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