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

cameo®

GREEN SOLUTION

LED TECHNOLOGY

RGB W

DMX 512

W-DMX™

RDM

STAND ALONE MODE

MASTER/SLAVE

SEGMENT PIXEL CONTROL

STROBE EFFECT

FLICKER FREE

CALIBRATION CHIP

SNAPMAG® TECHNOLOGY

IP65

ZENIT® W600 SMD
PROFESSIONAL OUTDOOR WASHLIGHT
CLZW600SMD

CONTENTS / INHALTSVERZEICHNIS / CONTENU / CONTENIDO / TREŚĆ / CONTENUTO

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DMX

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.

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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.

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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!

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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!

i 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.

i **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

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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:

▶ Spotlight
▶ Power cable
▶ 2 Omega brackets
▶ User manual

INTRODUCTION

ZENIT W600 SMD PROFESSIONAL OUTDOOR WASHLIGHT

CLZW600SMD

CONTROL FUNCTIONS:

2-, 3-1, 3-2-, 4-, 6-, 8-, 10-, 15-, 36-, 39-, 42-, 48-, 54-, 87-channel DMX control

Master/slave operation

Standalone operation

W-DMX™

FEATURES:

504 4-in-1 SMD RGBW 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 the status and configuration of RDM terminals via an RDM-capable controller.

CONNECTIONS, OPERATING AND DISPLAY ELEMENTS
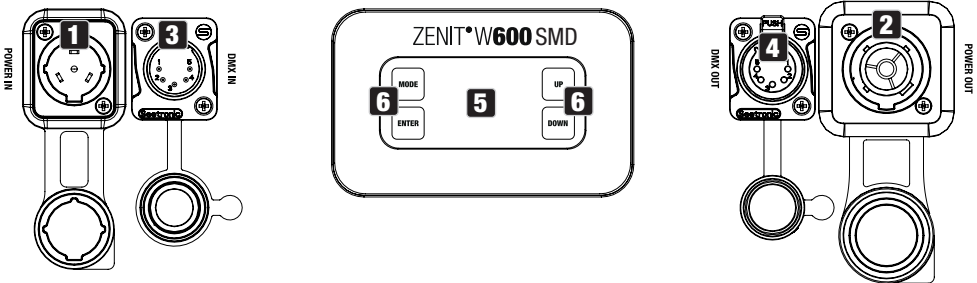
1 POWER IN

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).

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▸ 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

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.

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, 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 the device settings, ensure that the control panel is dry and free of dust in order not to impair its functionality.

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- 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 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 with start address 001) and W-DMX™ status.

W-DMX™ status ┄┄┄

DMX Address
001

Current operating mode

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DMX
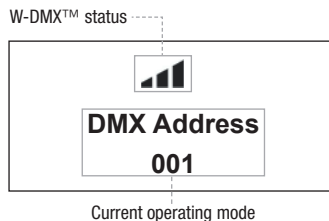
W-DMX™

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

					G3	G4S
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").
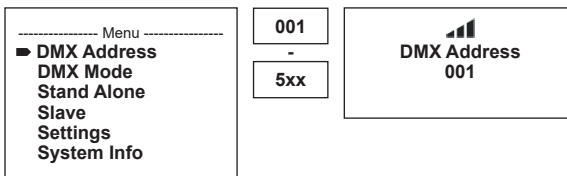
CONFIGURING DMX MODE (DMX MODE)

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.

```
---------- Menu ----------          --------- DMX Mode -----
   DMX Address                    ➡ 2CH CCT Fac.-Calib.
 ➡ DMX Mode                         3CH Color Macro
   Stand Alone                      3CH Factory-Calib.
   Slave                            4CH User-Calib.
   Settings                         6CH Factory-Calib.
   System Info                      8CH User-Calib.
                                    10CH Full Access
                                    15CH Full Access
                                    39CH Full Pattern
                                    36CH Pixel
                                    42CH Pixel+Dim
                                    48CH Pixel
                                    54CH Pixel+Dim
                                    87CH Full Access
```

CONFIGURE STANDALONE MODE

Press MODE to access the main menu (--- Menu ---). Using UP and DOWN, select the menu item **Stand Alone** (observe arrow) and confirm with ENTER. In the submenu you can now use UP and DOWN to select the standalone modes **Auto**, **Color Macro**, **Static**, **Tunable White**, **User Color**, **Pixel** and the **Timer** function. Confirm your selection with ENTER.

```
-------- Menu --------          -------- Stand Alone --------
   DMX Address                  ➡ Auto
   DMX Mode                        Color Macro
 ➡ Stand Alone                     Static
   Slave                           Tunable White
   Settings                        User Color
   System Info                     Pixel
                                   Timer
```

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AUTO MODE (Auto Program 1 – 6)

The 6 different auto programs each comprise non-editable color-change sequences. Brightness and speed are independently adjustable. Select auto mode as described above under „CONFI-GURE STANDALONE MODE" and confirm 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.

```
-------- Stand Alone --------        --------- Auto ---------        -------- Program x --------                ▱
➭ Auto                              ➭ Program 1                    ➭ Dim        <000 - 255>              Mode
  Color Macro                         Program 2                      Speed      <000 - 100>              Auto
  Static                              Program 3
  Tunable White                       Program 4
  User Color                          Program 5                          Dim      Speed
  Pixel                               Program 6
  Timer                                                                 000        001
                                                                         -          -
                                                                        255        100
```

COLOR MACROS (Color Macro)

15 different preset color macros are available. Select **Color Macro** as described above under CONFIGURE STANDALONE MODE and confirm with ENTER. Using the UP and DOWN controls, now select the desired color preset (observe arrow) and confirm with ENTER (Color Off = blackout). A three-digit figure is shown on the display, and you can set the desired brightness on a scale from 000 to 100 using UP and DOWN. Confirm with ENTER.

```
-------- Stand Alone --------    -------- Color Macro --------    -------- Color Macro --------    000                ▱
  Auto                          ➭ Color Off      <100>    Blue          <100>       -           Mode
➭ Color Macro                     Red            <100>    Lavender      <100>      100          Color Macro
  Static                          Amber          <100>    Mauve         <100>
  Tunable White                   Yellow Warm    <100>    Magenta       <100>
  User Color                      Yellow         <100>    Pink          <100>
  Pixel                           Green          <100>    Warm White    <100>
  Timer                           Turquoise      <100>    White         <100>
                                  Cyan           <100>    Cold White    <100>
```

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. Select **Static** mode as per the procedure previously described in CONFIGURE STANDALONE MODE and confirm 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 with ENTER.

```
-------- Stand Alone --------        --------- Static ---------        000          
   Auto                            ➡ Dimmer     <000 - 255>            -            ◢◢
   Color Macro                       Strobe     <000 - 255>           255        Mode
 ➡ Static                            Red        <000 - 255>                      Static
   Tunable White                     Green      <000 - 255>
   User Color                        Blue       <000 - 255>
   Pixel                             White      <000 - 255>
   Timer
```

COLOR TEMPERATURE (Tunable White)

The color temperature mode enables you to configure the color temperature from cold white to warm white (CCT) and the brightness (Dim) of the light directly on the device. Select the color temperature mode **Tunable White** mode as per the procedure previously described in CONFIG-URE STANDALONE MODE and confirm 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. Confirm with ENTER.

```
-------- Stand Alone --------        -------- Tunable White -------        ◢◢
   Auto                            ➡ Dim       <000 - 100>             Mode
   Color Macro                       CCT       <000 - 255>          Tunable White
   Static
 ➡ Tunable White
   User Color                          Dim      CCT
   Pixel                              000      000
   Timer                              -        -
                                     100      255
```

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USER PRESETS (User Color)

The operating mode "User Presets" allows you to store five individual color presets of overall brightness, strobe and a color mix of R, G, B and W directly in the device. Select **User Color** mode as per the procedure previously described in CONFIGURE STAND ALONE MODE and confirm 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 (see arrows). 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 by pressing ENTER again.

```
-------- Stand Alone --------       -------- User Color ---------       ---------- Color1 ----------      000
    Auto                            ➦ Color1                            ➦ Dimmer    <000 - 255>            -        Mode
    Color Macro                       Color2                              Strobe    <000 - 255>           255      User Color
    Static                            Color3                              Red       <000 - 255>
    Tunable White                     Color4                              Green     <000 - 255>
➦ User Color                          Color5                              Blue      <000 - 255>
    Pixel                                                                 White     <000 - 255>
    Timer
```

PIXEL MODE (Pixels)

Pixel mode allows you to set dimmers, patterns and speed directly on the device with values from 000 to 255. Dynamic patterns can be found from value 006 to 098 and static patterns from 128 to 234. The speed of the dynamic patterns is set from 006 (fast) to 126 (slow) and in the reverse direction from 128 (slow) to 255 (fast) (000 – 005 and 127 = stop). Select **Pixel** mode as per the procedure previously described in CONFIGURE STANDALONE MODE and confirm 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 with ENTER.

```
-------- Stand Alone --------       ---------- Pixel -----------     000
    Auto                            ➦ Dimmer    <000 - 255>          -        Mode
    Color Macro                       Pattern   <000 - 255>         255       Pixel
    Static                            Speed     <000 - 255>
    Tunable White                     Red       <000 - 255>
    User Color                        Green     <000 - 255>
➦ Pixel                               Blue      <000 - 255>
    Timer                             White     <000 - 255>
```

TIMER FUNCTION (Timer)

The timer function allows the standalone modes **Color Macro**, **Static**, **Tunable White** 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. Time control 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.

Select **Timer** as per the procedure described above under CONFIGURE STANDALONE MODE and confirm with ENTER. For the individual timer control settings, select **Fade In**, **Dwell Time** or **Fade Out** 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).

```
-------- Stand Alone --------
   Auto
   Color Macro
   Static
   Tunable White
   User Color
   Pixel
 ➥ Timer
```

```
---------- Timer ----------
 ➥ Timer  On/Off
   Fade In        < 1min>
   Dwell Time     < 1h>
   Fade Out       < 1min>
```
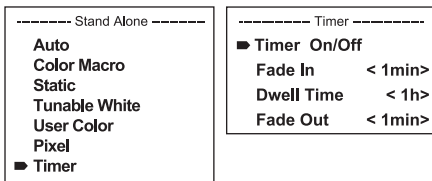
Please note: The timer function is suitable for use in master/slave mode via cable and W-D-MX™.

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 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.

```
--------------- Menu ---------------
   DMX Address
   DMX Mode
   Stand Alone
 ➥ Slave
   Settings
   System Info
```

```
      ▰▰▰
      Mode
      Slave
```

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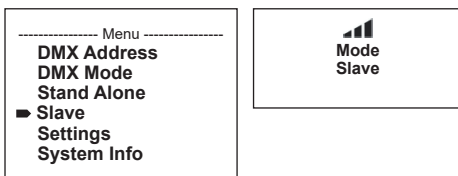
SYSTEM SETTINGS (Settings)

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

```
--------------- Menu ---------------
    DMX Address
    DMX Mode
    Stand Alone
    Slave
 ➡ Settings
    System Info
```

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 Settings	=	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
				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 = decoupling of all devices
			Receive Reset	No = Do not retain transmitter pairing
				Yes = Retain transmitter pairing
Display Reverse	=	flip display	On	Rotate display by 180° (e.g. for overhead installation)
			Off	No display rotation
Display Backlight	=	Display lighting	On	Permanently on
			Off	Deactivation after approximately 1 minute of inactivity
DMX Fail	=	Operating status when DMX signal is interrupted	Hold	Last command is retained
			Blackout	Activates blackout
			Full	All the LEDs are 100%
			Stand Alone	Spotlight switches to the Static 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
Power Mode	=	Operating mode	Normal	Constant brightness
			Boost	Brief maximum brightness (Blinder function, approx. 3 seconds)
Dimmer response	=	Dimmer response	LED	Light responds abruptly to changes in DMX value
			Halogen	Light behaves like a halogen spotlight with slight brightness changes
Color Calibration	=	Color calibration	RAW	R, G, B and W with maximum value 255
			User Calibration	Individual color calibration. Cross-mode brightness setting of R, G, B, A and L with values from 000 - 255.
			Factory Calibration	Factory calibration of R, G, B and W (across all modes)
			Smart Calibration	Merging factory and RAW calibration
Autolock	=	Automatic locking of the 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
Fan	=	Adjust fan control	Auto Fan	Automatic fan speed control
			Silent Fan	Constant fan speed with adjusted brightness
			Off	Disabled fans at adjusted brightness

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Mirror Pixel	=	Mirror arrangement of pixel segments	Off	No mirroring
			Vertical	Mirror vertically
			Horizontal	Mirror horizontally
			Vertical + Horizontal	Mirror vertically and horizontally
Factory Reset	=	Restore factory settings	Reset Now?	Restore factory settings: Confirm with ENTER. Cancel with MODE

Dimmer curves

linear

exponential

Light intensity

DMX value

logarithmic

S-curve

Light intensity

DMX value
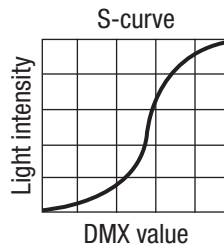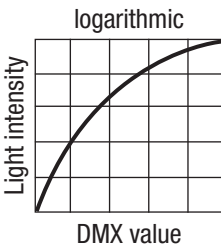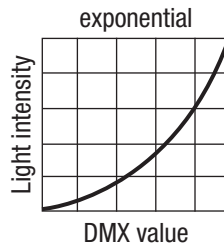
SYSTEM INFORMATION (System Info)

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

```
--------------- Menu ---------------
   DMX Address
   DMX Mode
   Stand Alone
   Slave
   Settings
➡ System Info
```
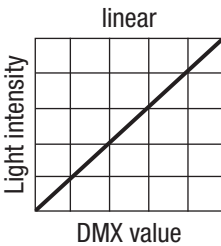
Use the UP and DOWN controls to select the desired submenu item, and press ENTER to display the corresponding information.

System Info					
Firmware	=	Displays Device Firmware	Main CPU	Vx.xx	
			LED Driver1	Vx.xx	
			LED Driver2	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	Unit Operation Time	xx:xx h	Displays total operating time in hours and minutes
			LED Operation Time	xx:xx h	Separate display of operating time of R, G, B and W 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.

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SETUP AND INSTALLATION

Thanks to its integrated plastic feet, the light 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.
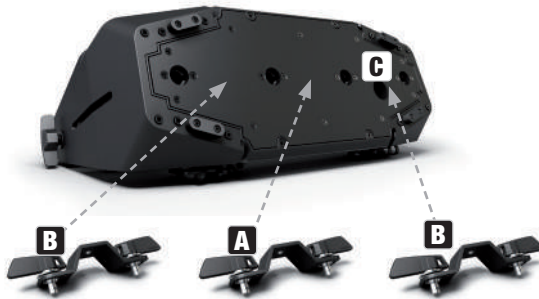
CARE, MAINTENANCE AND REPAIR

In order to ensure the 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 maintenance 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.

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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.
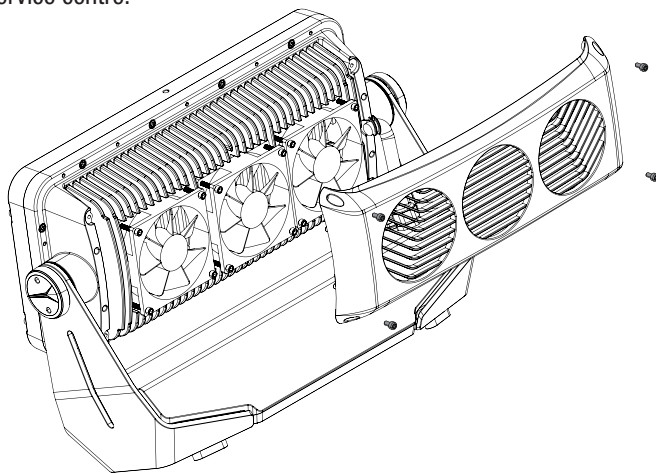
OPTIONAL ACCESSORIES

CLZW6004B

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

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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.)
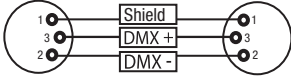
DMX cable with 5-pin XLR connectors
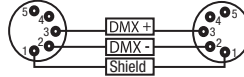
DMX TERMINATOR:

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:
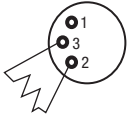
3-pin XLR connector: 5-pin XLR connector:
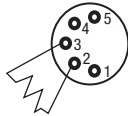
DMX ADAPTER:

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.
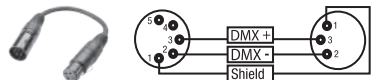
CONNECTOR ASSIGNMENT

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

Pins 4 and 5 are not used.

TECHNICAL DATA

Product number:	CLZW600SMD
Product type:	LED wash light
Type:	Outdoor spotlight
LED color spectrum:	RGBW
Number of LEDs:	504
LED type:	4-in-1 SMD
LED PWM frequency:	800 Hz, 1200 Hz, 2000 Hz, 3600 Hz, 12 kHz, 25 kHz (adjustable)
Beam angle:	118° (157° field) horizontal, 105° (146°) vertical
Ports:	5-pin XLR In and Out
DMX mode:	2CH CCT factory-calibrated, 3CH color macros, 3CH factory-calibrated 8bit, 4CH user-calibrated, 6CH factory-calibrated 16bit, 8CH user-calibrated 16bit, 10CH full area-access 8bit, 15CH full area-access 16bit, 39CH full area pattern 16bit, 36 RGB pixel control-calibrated, 42CH RGB pixel control calibrated & master dim, 48RGBW pixel control user-calibrated, 54CH RGBW pixel control user-calibrated & master dim, 87CH full access pixel control & pattern
DMX functions:	Dimmer, Dimmer Fine, RGBW, RGBW Fine, Stroboscope, Pixel Control, Color Macros, Color Temperature, Color Temperature Correction, Pattern, Pattern Speed, Color Crossfade, System Settings
Standalone functions:	Color mixing, color macros, master/slave operation, auto programs, static (RGBW), tunable white, user color, timer, strobe
System settings:	Rotate display by 180°, display lighting, DMX fail, dimmer curves, dimmer response, color calibration, 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: 1,100 W Normal Mode: 580 W
Light intensity (@ 1 m, without diffuser):	Boost Mode: 18,000 lx Normal Mode: 9,000 lx
Luminous flux:	Boost Mode: > 41,000 lm Normal Mode: 21,500 lm
Ambient temperature (in operation):	−15°C to +40°C
Housing material:	die-cast aluminium
Housing color:	Black
Housing cooling:	Fan cooled

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Protection class:	IP65
Tilt Rotation	158° (manual)
Use position:	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 mounting bracket):	463 x 291 x 161 mm.
Weight (not including accessories):	12.4 kg
Accessories supplied:	2 Omega brackets + power cable
Optional accessories:	Barn door

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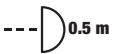
The IP rating of the product can be found in the technical data and is printed on the device.

MINIMUM DISTANCE TO ILLUMINATED SURFACE

0.5 m   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

0.5 m   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.

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.

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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!

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

2 CH CCT Factory-Calibrated	Function	Values			
1	Dimmer	000	-	255	0% to 100%
2	CCT	000	-	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	-	251	6500K -> cold Daylight
		252	-	255	Cold Daylight

3 CH Factory-Calibrated 8 Bit	4 CH User-Calibrated	6 CH Factory-Calibrated 16 Bit	8 CH User-Calibrated 16 Bit	Function	Values			
1	1	1	1	Red	000	-	255	0% to 100%
		2	2	Red fine	000	-	255	0% to 100%
2	2	3	3	Green	000	-	255	0% to 100%
		4	4	Green fine	000	-	255	0% to 100%
3	3	5	5	Blue	000	-	255	0% to 100%
		6	6	Blue fine	000	-	255	0% to 100%
	4		7	White	000	-	255	0% to 100%
			8	White fine	000	-	255	0% to 100%

3 CH Color Presets	Function	Values			
1	Dimmer	000	-	255	0% to 100%
2	Multi-functional 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	Color Presets	000	-	005	Color off
		006	-	013	Red
		014	-	021	Amber
		022	-	029	Yellow warm
		030	-	037	Yellow
		038	-	045	Green
		046	-	053	Turquoise
		054	-	061	Cyan
		062	-	069	Blue
		070	-	077	Lavender
		078	-	085	Mauve
		086	-	093	Magenta
		094	-	101	Pink
		102	-	109	Warm White
		110	-	117	White
		118	-	125	Cold White
		126	-	127	Color Jumping Stop
		128	-	191	Color Jumping Speed slow -> fast / Color 1 -> 12
		192	-	255	Color Fading Speed slow -> fast / Color 1 -> 12

10 CH Full Area-Access 8 Bit	15 CH Full Area-Access 16 Bit	Function	Values				Sub Group
1	1	Dimmer	000	-	255	0% to 100%	Dimmer
	2	Dimmer fine	000	-	255	0% to 100%	
2	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	
3	4	Red	000	-	255	0% to 100%	Red
	5	Red fine	000	-	255	0% to 100%	
4	6	Green	000	-	255	0% to 100%	Green
	7	Green fine	000	-	255	0% to 100%	
5	8	Blue	000	-	255	0% to 100%	Blue
	9	Blue fine	000	-	255	0% to 100%	
6	10	White	000	-	255	0% to 100%	White
	11	White fine	000	-	255	0% to 100%	

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7	12	Color Presets (override RGBW)	000	-	005	Color off	Color Presets
			006	-	013	Red	
			014	-	021	Amber	
			022	-	029	Yellow warm	
			030	-	037	Yellow	
			038	-	045	Green	
			046	-	053	Turquoise	
			054	-	061	Cyan	
			062	-	069	Blue	
			070	-	077	Lavender	
			078	-	085	Mauve	
			086	-	093	Magenta	
			094	-	101	Pink	
			102	-	109	Warm White	
			110	-	117	White	
			118	-	125	Cold White	
			126	-	127	Color Jumping Stop	
			128	-	191	Color Jumping Speed slow -> fast / Color 1 -> 12	
			192	-	255	Color Fading Speed slow -> fast / Color 1 -> 12	

8	13	Color Tempe-rature (works only if RGBW are set to 100%)	000	-	005	0ff	Color Tempera-ture
			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	-	251	6500K -> cold Daylight	
			252	-	255	Cold Daylight	
9	14	Dimmer Curve	000		005	no function	Dimmer Curve
			006	-	063	Linear Dimmer Curve	
			064	-	127	Exponential Dim-mer Curve	
			128	-	191	Logarithmic Dim-mer Curve	
			192	-	255	S-Curve Dimmer Curve	

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			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)	
10	15	Device Settings (please read remark 1*)	100	-	100	Auto Fan (hold 3s)	Control
			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	RAW (hold 3s)	
			134	-	135	Factory Calibration (hold 3s)	
			136	-	137	User Calibration (hold 3s)	
			138	-	139	Smart Calibration (hold 3s)	
			140	-	141	Display on (hold 3s)	
			142	-	143	Display off (hold 3s)	
			144	-	255	No function	

36 CH RGB Pixel-control calibrated	42 CH RGB Pixelcontrol calibrated & Master-dim	Function	Values				Sub Group
	1	Dimmer	000	-	255	0% to 100%	Dimmer
	2	Dimmer fine	000	-	255	0% to 100%	
	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	Duration	000	-	255	Flash duration (short -> long)	

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1	5	Pixel 1 R	000	-	255	0% to 100%	
2	6	Pixel 1 G	000	-	255	0% to 100%	
3	7	Pixel 1 B	000	-	255	0% to 100%	
-	-	Pixel 1 W	000	-	255	0% to 100%	
4	8	Pixel 2 R	000	-	255	0% to 100%	
5	9	Pixel 2 G	000	-	255	0% to 100%	
6	10	Pixel 2 B	000	-	255	0% to 100%	
-	-	Pixel 2 W	000	-	255	0% to 100%	
7	11	Pixel 3 R	000	-	255	0% to 100%	Single Pixel
8	12	Pixel 3 G	000	-	255	0% to 100%	Control
9	13	Pixel 3 B	000	-	255	0% to 100%	
-	-	Pixel 3 W	000	-	255	0% to 100%	
…..	…..	…..	…..	-	…..	….. In same order Pixel 4 to 11	
34	38	Pixel 12 R	000	-	255	0% to 100%	
35	39	Pixel 12 G	000	-	255	0% to 100%	
36	40	Pixel 12 B	000	-	255	0% to 100%	
-	-	Pixel 12 W	000	-	255	0% to 100%	

			000		005	no function	
	41	Dimmer Curve	006	-	063	Linear Dimmer Curve	Dimmer Curve
			064	-	127	Exponential Dimmer Curve	
			128	-	191	Logarithmic Dimmer Curve	
			192	-	255	S-Curve Dimmer Curve	
	42	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 Halo-gen (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	RAW (hold 3s)	
			134	-	135	No function	
			136	-	137	User Calibration (hold 3s)	
			138	-	139	No function	
			140	-	141	Display on (hold 3s)	
			142	-	143	Display off (hold 3s)	
			144	-	255	No function	

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39 CH Full Area Pattern 16 Bit	87 CH 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	Multi-functional 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 (short -> long)	
5	5	Red	000	-	255	0% to 100%	Red
6	6	Red fine	000	-	255	0% to 100%	
7	7	Green	000	-	255	0% to 100%	Green
8	8	Green fine	000	-	255	0% to 100%	
9	9	Blue	000	-	255	0% to 100%	Blue
10	10	Blue fine	000	-	255	0% to 100%	
11	11	White	000	-	255	0% to 100%	White
12	12	White fine	000	-	255	0% to 100%	

		13	Pixel 1 R	000	-	255	0% to 100%	Single Pixel Control
		14	Pixel 1 G	000	-	255	0% to 100%	
		15	Pixel 1 B	000	-	255	0% to 100%	
		16	Pixel 1 W	000	-	255	0% to 100%	
		17	Pixel 2 R	000	-	255	0% to 100%	
		18	Pixel 2 G	000	-	255	0% to 100%	
		19	Pixel 2 B	000	-	255	0% to 100%	
		20	Pixel 2 W	000	-	255	0% to 100%	
		21	Pixel 3 R	000	-	255	0% to 100%	
		22	Pixel 3 G	000	-	255	0% to 100%	
		23	Pixel 3 B	000	-	255	0% to 100%	
		24	Pixel 3 W	000	-	255	0% to 100%	
		…..	…..	…..	-	…..	….. In same order Pixel 4 to 11	
		57	Pixel 12 R	000	-	255	0% to 100%	
		58	Pixel 12 G	000	-	255	0% to 100%	
		59	Pixel 12 B	000	-	255	0% to 100%	
		60	Pixel 12 W	000	-	255	0% to 100%	
13	61	Color Presets (override RGBW + Pixel)		000	-	005	Color off	Color Presets
				006	-	013	Red	
				014	-	021	Amber	
				022	-	029	Yellow warm	
				030	-	037	Yellow	
				038	-	045	Green	
				046	-	053	Turquoise	
				054	-	061	Cyan	
				062	-	069	Blue	
				070	-	077	Lavender	
				078	-	085	Mauve	
				086	-	093	Magenta	
				094	-	101	Pink	
				102	-	109	Warm White	
				110	-	117	White	
				118	-	125	Cold White	
				126	-	127	Color Jumping Stop	
				128	-	191	Color Jumping Speed slow -> fast / Color 1 -> 12	
				192	-	255	Color Fading Speed slow -> fast / Color 1 -> 12	

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14	62	Color Temperature (works only correct if RGB + W are set to 100%)	000	-	005	0ff	Color Temperature
			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	-	251	6500K -> Cold Daylight	
			252	-	255	Cold Daylight	
15	63	Tint (affects Color Temperature)	000	-	005	0ff	Tint
			006	-	127	Magenta -> Neutral	
			128	-	128	neutral	
			129	-	255	Neutral -> Green	
16	64	Color Preset Crossfade	000	-	005	0s	Color Preset Crossfade
			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)	
17	65	Pattern	000	-	005	Pattern off	Pattern
			006	-	255	See Tab Pattern (006-098 dynamic/ 128-234 static)	
18	66	Speed dynamic Pattern	000	-	005	Effect Pattern Speed Stop	
			006	-	126	Effect Pattern Speed, fast -> slow, forward	
			127	-	127	Stop	
			128	-	255	Effect Pattern Speed, slow -> fast, back	
19	67	Step or Fade dynamic Pattern	000	-	005	off	
			006	-	255	Fade Effect Pattern little -> much	
20	68	Pattern Transition Crossfade	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)	
21	69	Stop dynamic Pattern	000	-	005	Stop dynamic Pattern off	
			006	-	255	Stop dynamic Pattern after x Steps are done	

22	70	Background Dimmer	000	-	255	0-100%	Backgro-und (all bac-kground functions are ena-bled with enabled pattern)
23	71	Background Dimmer fine	000		255	0-100%	
24	72	Background Multi-functional 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 Effect, 5s…..1s (short burst with break)	
			128	-	250	Strobe slow -> fast <1Hz -> 20Hz	
			251	-	255	Strobe open	
25	73	Duration	000	-	255	Flash duration (short -> long)	
26	74	Background Red	000	-	255	0% to 100%	
27	75	Background Red fine	000	-	255	0% to 100%	
28	76	Background Green	000	-	255	0% to 100%	
29	77	Background Green fine	000	-	255	0% to 100%	

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30	78	Background Blue	000	-	255	0% to 100%	
31	79	Background Blue fine	000	-	255	0% to 100%	
32	80	Background White	000	-	255	0% to 100%	
33	81	Background White fine	000	-	255	0% to 100%	
34	82	Background Color Presets (override Background RGBW)	000	-	005	Color off	Background (all background functions are enabled with enabled pattern)
			006	-	013	Red	
			014	-	021	Amber	
			022	-	029	Yellow warm	
			030	-	037	Yellow	
			038	-	045	Green	
			046	-	053	Turquoise	
			054	-	061	Cyan	
			062	-	069	Blue	
			070	-	077	Lavender	
			078	-	085	Mauve	
			086	-	093	Magenta	
			094	-	101	Pink	
			102	-	109	Warm White	
			110	-	117	White	
			118	-	125	Cold White	
			126	-	127	Color Jumping Stop	
			128	-	191	Color Jumping Speed slow -> fast / Color 1 -> 12	
			192	-	255	Color Fading Speed slow -> fast / Color 1 -> 12	
35	83	Background Color Temperature (works only correct if RGB + W are set to 100%)	000	-	005	Off	
			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	-	251	6500K -> Cold Daylight	
			252	-	255	Cold Daylight	

36	84	Background CCT Tint (affects Color Temperature)	000	-	005	Off	Background (all background functions are enabled with enabled pattern)
			006	-	127	Magenta -> Neutral	
			128	-	128	Neutral	
			129	-	255	Neutral -> Green	
37	85	Background Color Macro Crossfade	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)	
38	86	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	

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39	87	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	RAW (hold 3s)	
			134	-	135	Factory Calibration (hold 3s)	
			136	-	137	User Calibration (hold 3s)	
			138	-	139	Smart Calibration (hold 3s)	
			140	-	141	Display on (hold 3s)	
			142	-	143	Display off (hold 3s)	
			144	-	255	No function	

48 CH RGBW Pixelcontrol User-Calibrated	54 CH RGBW Pixelcontrol User-Calibrated & Masterdim	Function	Values				Sub Group
	1	Dimmer	000	-	255	0% to 100%	Dimmer
	2	Dimmer fine	000	-	255	0% to 100%	
	3	Multi-functional 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	Duration	000	-	255	Flash duration (short -> long)	

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1	5	Pixel 1 R	000	-	255	0% to 100%	
2	6	Pixel 1 G	000	-	255	0% to 100%	
3	7	Pixel 1 B	000	-	255	0% to 100%	
4	8	Pixel 1 W	000	-	255	0% to 100%	
5	9	Pixel 2 R	000	-	255	0% to 100%	
6	10	Pixel 2 G	000	-	255	0% to 100%	
7	11	Pixel 2 B	000	-	255	0% to 100%	
8	12	Pixel 2 W	000	-	255	0% to 100%	
9	13	Pixel 3 R	000	-	255	0% to 100%	Single Pixel Control
10	14	Pixel 3 G	000	-	255	0% to 100%	
11	15	Pixel 3 B	000	-	255	0% to 100%	
12	16	Pixel 3 W	000	-	255	0% to 100%	
…..	…..	…..	…..	-	…..	….. In same order Pixel 4 to 11	
45	49	Pixel 12 R	000	-	255	0% to 100%	
46	50	Pixel 12 G	000	-	255	0% to 100%	
47	51	Pixel 12 B	000	-	255	0% to 100%	
48	52	Pixel 12 W	000	-	255	0% to 100%	

	53	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	
	54	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 Halo-gen (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	RAW (hold 3s)	
			134	-	135	No function	
			136	-	137	User Calibration (hold 3s)	
			138	-	139	No function	
			140	-	141	Display on (hold 3s)	
			142	-	143	Display off (hold 3s)	
			144	-	255	No function	

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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

12 Pixel Segments

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