USER MANUAL

cameo





ZENIT® W1200 G2

IP65 LED WASH LIGHT

CLZW1200G2;

en-GB

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1 DOCUMENT VERSION AND REVISIONS

Version	Date	Implemented changes
v1.0	08/2026	Original version

2 INTRODUCTION

2.1 YOU MADE THE RIGHT CHOICE!

This product has been developed and manufactured to the highest quality standards to ensure many years of problem-free operation. Find further information about Cameo on our website: www.cameolight.com

2.2 CONTACTS

	Adam Hall GmbH Headquarter	Customer Service
E-mail	info@adamhall.com	customerservice@adamhall.com
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Street	Adam-Hall-Str. 1	Adam-Hall-Str. 1
Postal code / city	61267 Neu-Anspach	61267 Neu-Anspach
Website	*www.adamhall.com*	*www.adamhall.com*

2.3 QR CODE TO ACCESS THE DOWNLOAD CENTRE

The Download Centre provides additional information, such as CAD data and technical documentation. You can access the Download Centre via the product page. Scan the QR code to open the product page.

2.4 VISUALISATION CONVENTIONS IN THIS USER MANUAL

In this manual we use graphical symbols and icons in certain contexts. Find below a table with explanations and use cases of the graphical symbols and icons.

Icon / Symbol	Designation	Context	Explanation / Example
↙	**Prerequisite**	Tasks	Used in task topics to indicate a prerequisite that must be met before beginning the task.
⇨	**Result / Intermediate Result**	Tasks	Used in task topics to indicate a result or intermediate result of an action step.
1 Step **a)** Substep	**1 Action Step** **a) Substep**	Tasks	Used in task topics to indicate action steps and substeps.
1	**Callout**	Graphics; tasks	Text-image reference or labeling of certain functions on the device
[...]	**Value range indicator**	Technical data; paragraphs; lists	Indicates the range of a value, such as "Compressor ratio: **1:1...20:1**". Mostly used in tables or callouts.
*	**Asterisk**	Paragraphs; tables	Indicates additional information in a footnote.
The **LIM** LED lights up	**General User Interface element**	Paragraphs; tasks; tables; lists	The words presented in this way represent graphic user interface elements on the device.
PAGE button	**Key / Button**	Paragraphs; tasks; tables; lists	The words presented in this way represent user interface controls on the device.
`<name>`	**User input**	Paragraphs; tasks; tables; lists	The words presented in this way represent required user inputs.
https://adamhall.com	**Weblink**	Paragraphs; tables; lists	External link to a website

3 PRODUCT COMPLIANCE

3.1 MANUFACTURER'S DECLARATION

Adam Hall offers a voluntary, EU-wide manufacturer's guarantee of 2 years. The statutory warranty period is not affected by this voluntary guarantee.

Visit the Adam Hall Service Portal to access the **Download Centre**:

https://portal.adamhall.com/

Under the **Service & Regulations** section, you find our current detailed manufacturer's declarations, warranty conditions, and limitation of liability.

To request warranty for a product, please contact:

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

customerservice@adamhall.com

0049 (0)6081 / 9419-1000

3.2 DECLARATION OF 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 2017 (SI 2016/2015)

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 at *http://www.adamhall.com/compliance*.

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

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

⚠ CAUTION! Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

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

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

ISED STATEMENT

The digital apparatus complies with Canadian CAN ICES-005 (B) / NMB-005 (B).
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.
This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.
This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

3.3 FIRST PARTY TRADEMARKS

CAMEO®, **ZENIT®**, **UNICON®**, **UNISENS®** and **XColour®** are registered trademarks of Adam Hall GmbH.

3.4 THIRD PARTY TRADEMARKS

Art-Net™ is a trademark of Artistic Licence Engineering Ltd.
CRMX™ is a trademark of LumenRadio AB.
powerCON® is a trademark of Neutrik AG.
TRUE1® is a registered trademark of Neutrik AG.
W-DMX™ is a trademark of LumenRadio AB.
All other trademarks and trade names are the property of their respective owners.

4 SAFETY INSTRUCTIONS

4.1 INTENDED USE

The **ZENIT® W1200 G2** is intended for use as a motorised lighting device to generate controllable light output and movement in event and entertainment environments.
This product has been developed for the professional use in the field of event technology, studio, TV, and broadcast.
This product is intended for mobile applications and not for fixed installations.
This product is intended for temporary outdoor use only.
This product is not suitable for domestic use.
Do not use the product outside the operating conditions as stated in the user manual under Technical Data. Liability for damage and third-party damage to persons and property due to inappropriate use is excluded.
This product is not suitable for children and persons with limited physical, sensory, or mental capabilities or lack of experience and knowledge.

4.2 EXPLANATION OF SAFETY AND WARNING SYMBOLS

Find the following safety and warning symbols on the device, the user manual, or the packaging:


This symbol indicates that you must read the complete user manual before using the product.


This symbol indicates a general hazardous situation.


This symbol indicates hazards that can cause electric shock.


This symbol indicates hazards caused by hot surfaces.


This symbol indicates tripping hazards.

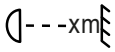

This symbol indicates pinching hazards.


This symbol indicates hazards due to overhead loads.



This symbol indicates hazards due to optical radiation


This symbol indicates that looking or staring into the light source must be avoided.



This symbol indicates the minimum distance in meters (m) between the light head and the illuminated surface. Find the corresponding value for this device under Technical Data in the complete user manual and as imprint on the housing of the device.


This symbol indicates that the product is not suitable for household use.

This symbol indicates helpful hints or additional information.

4.3 STRUCTURE OF WARNING MESSAGES

In this user manual, warning messages are structured with a safety symbol, a signal word, a hazard description, and instructions on how to avoid injuries or death.

 DANGER	**Indicates a hazardous situation which will result in death or serious injury.**
 WARNING	**Indicates a hazardous situation which could result in death or serious injury**
 CAUTION	**Indicates a hazardous situation which could result in minor or moderate injury.**
 NOTICE	**Indicates situations or conditions that could result in damage to property and/or the environment.**

4.4 GENERAL SAFETY





- Read this document carefully.
- Keep this document for later reference.
- Follow closely the instructions in this document.
- This document is an integral part of the product. If you sell or pass on the product, you must include this document.
- Only use this product according to its intended use.
- Risk of choking. Keep small parts away from children and individuals with impaired physical, sensory, or mental capabilities.
- Risk of suffocation. Keep plastic bags away from children and individuals with impaired physical, sensory, or mental capabilities.
- Observe all safety instructions and warning messages in this document, on the device, and on the packaging.
- Products are subject to continuous further development. If you find discrepancies between this document and the product labeling, the information on the product always takes priority.
- Do not remove safety instructions or warning messages from the product.
- Do not open the device.
- Do not modify the product.
- If the product shows any sign of damage, do not use it.
- Do not operate the product with removed or missing covers.

- Do not expose the product to direct sunlight.
- If not further specified in the user manual under Technical Data, do not use the product in ambient temperatures that exceed 45 °C / 113 °F or fall below -15 °C / 4 °F
- Do not use the product in tropical climate.
- Do not use the product above 2000 metres of altitude.
- This device is not suitable for use in marine environments, including ships, offshore applications, or areas exposed to salt-laden air, seawater, or corrosive atmospheres. Use in such environments is at the user's own risk. Any damage or malfunction resulting from such use is excluded from the manufacturer's warranty.
- Use only accessories specified by the manufacturer.
- Maintenance and repairs may only be carried out by authorized service personnel.
- Store and transport the product in a dry and safe environment.
- Clean the product on a regular basis. If applicable, see the user manual for maintenance intervals.
- If the device was exposed to strong temperature changes, such as during transport, do not switch it on immediately. Wait until the device has reached ambient temperature.

4.5 ELECTRICAL SAFETY



- This is an electrical device in protection class I. Make sure that the protective conductor is connected to electrical earth. Do not disconnect the protective conductor.
- Do not bypass the mains fuse.
- Use only mains fuses as specified by the manufacturer.
- Do not use kinked or otherwise damaged power cables.
- Only operate the device on compliant, tested and intact mains power outlets.
- Make sure that the voltage and frequency of the mains power match the values specified by the manufacturer.
- Take suitable measures against overvoltage, such as lightning strikes.
- For devices with a power out connector, make sure the total current consumption of all connected devices does not exceed the value specified by the manufacturer.
- This device is not suitable for continuous current.
- Disconnect the device from all poles before maintenance, repair or extend periods of non-use.
- Permanently connected power cables may only be replaced by a qualified service technician.

4.6 PHYSICAL SAFETY



- Make sure that all mounting connections are adequately dimensioned. Observe the relevant regional safety guidelines when mounting the device.



- Make sure that the device and any accessories are securely positioned. Secure against unintentional movement.
- Check all load-bearing screw connections regularly and replace them if necessary.



- Check all cable routes to prevent tripping accidents.
- Moving components, such as mounting brackets, pose a risk of pinching injuries.



4.7 PHOTOBIOLOGICAL SAFETY



- Risk of eye damage. This device is a risk group 2 device. Do not look directly into the light outlet. Do not stare into the light beam. Do not look directly into the lamp with any optical instrument, such as magnifiers or binoculars.



- Risk of seizures. Stroboscopic effects may cause epileptic seizures in susceptible persons.

4.8 THERMAL SAFETY



- Do not install the device near heat sources, such as radiators or ovens.
- Do not block any ventilation openings.
- Unless otherwise stated, keep a minimum clearance of at least 20 centimetres around the device.
- Unless otherwise stated, keep flammable materials, such as paper or wood, at least 50 centimetres away from the device
- Risk of burning. The device housing can become very hot during normal operation. Make sure that the housing cannot be touched accidentally. Allow the device to cool down sufficiently before dismantling, maintenance work, transport, or charging.
- Always adhere to the minimum distance to the illuminated surface, as stated on the device.

4.9 WIRELESS SAFETY



Risk of injury and damage to devices. Do not use W-DMX™ transmissions for safety-relevant applications, such as DMX-controlled motors, DMX-controlled hydraulic systems, or comparable moving components. Do not use W-DMX™ transmissions for pyrotechnic devices, gas effects, or liquid effects. This includes CO2 cannons, confetti shooters, and similar effects.

Radio transmitter operation is subject to official regulations. Make sure you adhere to regional guidelines before commissioning.

Radio operation can lead to potentially dangerous effects. Do not use this device in sensitive areas such as:

- Hospitals, health centres or other healthcare facilities that provide patient treatment with skilled personnel and equipment
- Explosive atmospheres, including:
  - ATEX zones (Zone 0, 1, 2, 20, 21, 22) (EU)
  - Hazardous Locations Class I, II and III (US/Canada)
- Restricted areas
- Military facilities
- Areas where the use of mobile phones is prohibited, such as aircrafts.



Quality and performance of wireless signal transmissions is dependent on the environmental conditions. All range specifications refer to free-field application with visual contact without interference. Range and signal stability may be influenced by:

- Shielding, such as masonry, metal buildings, or water
- Interference
- High radio traffic, such as strong W-LAN networks
- Electromagnetic radiation, such as LED video walls or dimmers

4.10 DEVICE SAFETY



- Do not switch the device on and off in quick succession, because this will shorten the device lifetime.
- Do not expose the device to direct sunlight, laser radiation, and bundled light beams from other spotlights to prevent damage to the housing and internal components.

5 PRODUCT DESCRIPTION

5.1 PRODUCT OVERVIEW

The **ZENIT® W1200 G2** is an IP65 LED Wash Light.

FEATURES:

- 60 × 50 W RGBALC LEDs
- Luminous flux: 45,000 lm
- Power consumption: 1,200 W
- CRI: > 98
- TLCI: 95
- **XColour®** colour mixing and vertical segment control
- Compact, IP65-rated die-cast magnesium housing
- Cooling system with selectable fan modes
- Setup and maintenance via the **CAMEO CONNECT** App: NFC setup, wireless configuration, firmware updates and direct service access
- Ergonomic handles and safety eyelets for installation and handling
- Legacy Mode ensuring consistent colours, output and dimming behaviour with **ZENIT®** G1 models
- Optional **Cameo SnapMag** FX Filter with DMX-controllable electronic frost

5.2 OPTIONAL ACCESSORIES

Find various accessories for your product in the Adam Hall Shop:
https://www.adamhall.com/shop

Accessory	Article Number
ZENIT® W1200 G2 BD 4-leaf Barndoor for **ZENIT® W1200 G2**	CLZW1200G2BD
ZENIT® W1200 G2 12B 12-leaf Barndoor for **ZENIT® W1200 G2**	CLZW1200G212B
SNAPMAG DIFFUSOR W1200 G2 - 9010 Light Shaping Diffusor 90° × 10°	CLZW1200SMLSD9010G2
SNAPMAG DIFFUSOR W1200 G2 - 1090 Light Shaping Diffusor 10° × 90°	CLZW1200SMLSD1090G2
SNAPMAG DIFFUSOR W1200 G2- 6010 Light Shaping Diffusor 60° × 10°	CLZW1200SMLSD6010G2
SNAPMAG DIFFUSOR W1200 G2- 45 Light Shaping Diffusor 45°	CLZW1200SMLSD45G2
SNAPMAG DIFFUSOR W1200 G2- 25 Light Shaping Diffusor 25°	CLZW1200SMLSD25G2
SNAPMAG DIFFUSOR W1200 G2- 100 Light Shaping Diffusor 100°	CLZW1200SMLSD100G2

Accessory	Article Number
SNAPMAG FX W1200 G2 Electronic Frost Filter	CLZW1200G2EFROST
SNAPBAG SOFTBOX W1200 G2 Foldable Softbox	CLZW1200G2SBSB

5.3 TECHNICAL DATA

PHOTOMETRIC VALUES

Parameter	Value
Illuminant type	RGBALC LED
LED data	60 × 50 W RGBALC LED (12 × 5)
Luminous flux	45000 lm
Illuminance	3,200 lx (10 m / 0.0)
Beam/Field angle	Beam: 18° / Field: 34°
LED PWM frequency	400 Hz, 650 Hz, 1,530 Hz, 3,600 Hz, 12 kHz, 18.9 kHz, 25 kHz, 6,000 Hz
Dimmer resolution	16 Bit
Dimmer curves	Linear, Exponential, Logarithmic, S curve, Halogen

COLOURS

Parameter	Value
Colour mix functions	RGB, HSI, CCT + Tint, x-y
LED colours	Red, Green, Blue, Amber, Lime, Cyan
Correlated colour temperature (CCT)	1800 K ... 10000 K
Halogen simulation redshift/DTW	Yes
Calibration	Smart calibration
Colour rendering index (CRI)	> 98
Minimum TLCI	95

CONTROL

Parameter	Value
Controller protocols	DMX512, RDM, W-DMX™ (Transceiver), CRMX
Number of DMX control modes	17
Stand-alone operating modes	Master/Slave, Stand-alone
Data in connector	XLR 5-pole male
Data out connector	XLR 5-pole female

MAINS OPERATION

Parameter	Value
Operation voltage	100 V AC … 240V AC / 50 Hz … 60 Hz
Rated power	1200 W
Minimum Cos Phi power factor (230 V)	0.99
Inrush current	56 A / 1.7 ms
Mains connector	Mains plug device outdoor female & TRUE1®
Mains fuse	T10AL/250 V
Power out connector	Mains plug device outdoor male & TRUE1®

HOUSING

Parameter	Value
Cabinet material	Magnesium
Colour	Black

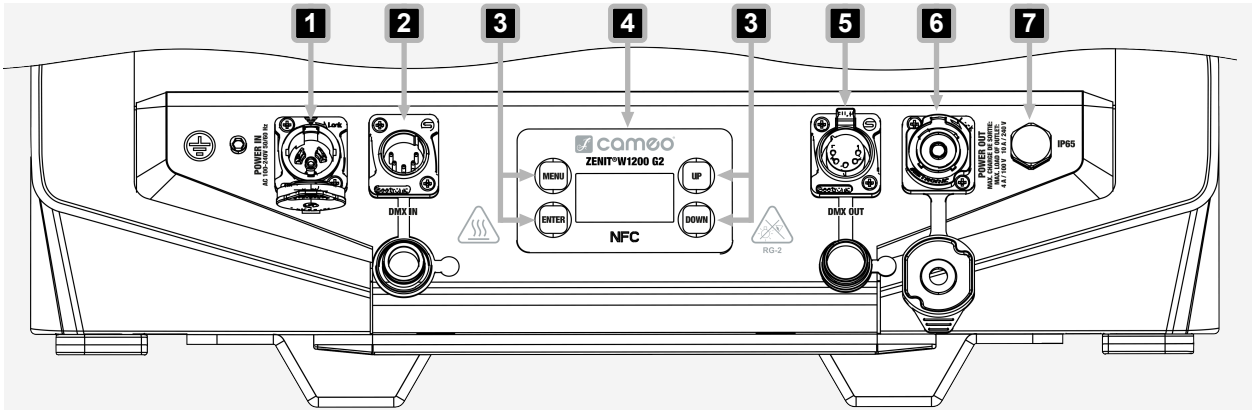
ENVIRONMENTAL

Parameter	Value
Protection class	IP65
Risk group	2
Ambient temperature	-15 °C ... 45 °C

DIMENSIONS & WEIGHT

Parameter	Value
Width	480 mm
Height	360 mm
Depth	230 mm
Weight	21 kg

5.4 USER INTERFACE



1 **POWER IN** - IP65 mains power socket. When not in use, seal with rubber sealing cap.

2 **DMX IN** - Male IP65 5-pin XLR socket for connection of an DMX control device. When not in use, seal with rubber sealing cap.

3 **Touch-sensitive controls** - Opens the menu structure and navigates the device

4 **OLED display** - Main graphic display

5 **DMX OUT** - Female IP65 5-pin XLR socket for relay of DMX control signal. When not in use, seal with rubber sealing cap.

6 **POWER OUT** - IP65 mains power output socket. Enables power supply to other **CAMEO®** devices. Make sure that the total current consumption of all connected devices does not exceed the value specified on the device. When not in use, seal with rubber sealing cap.

7 **Pressure equalisation element** - Prevents condensation inside the device housing. Keep clean and do not cover.

6 GENERAL INFORMATION

6.1 ABOUT DMX TECHNOLOGY

6.1.1 DMX STANDARD

DMX (Digital Multiplex) is a universal transmission protocol for sending a serial data stream from controllers to fixtures. DMX is the common 'language' used to control a large number of fixture types and models from different manufacturers. Fixtures can be connected with one another and controlled via a central controller.

6.1.2 DMX CONNECTION

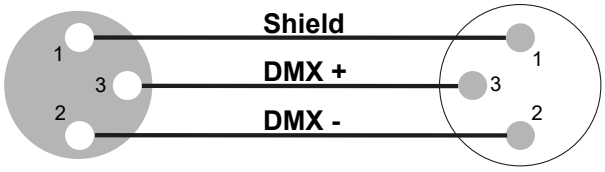
The DMX data stream is forwarded from one connected fixture to the next via the DMX input and DMX output connectors (3-pin XLR or 5-pin XLR). The maximum number of fixtures in the chain must not exceed 32 units. The last fixture in the chain must be equipped with a terminating resistor (terminator).
For optimum data transmission, it is necessary to keep the connecting cables between the individual fixtures as short as possible. The order in which the devices are integrated in the DMX network has no influence on the addresses.

6.1.2.1 CONNECTING MULTIPLE FIXTURES

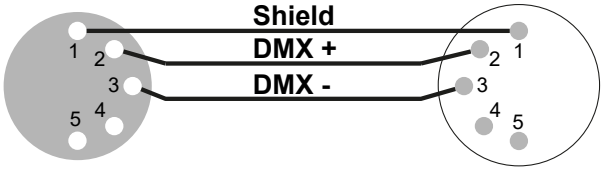
1. Connect the male XLR connector (3-pin or 5-pin) of the DMX cable to the DMX output (female XLR socket) of the DMX controller.
2. Connect the female XLR connector (3-pin or 5-pin) of the DMX cable to the DMX input (male XLR socket) of the first fixture.
3. Daisy chain all other fixtures in the same way by connecting the DMX output (female XLR socket) to the DMX input (male XLR socket) of the next fixture.

> The maximum number of fixtures in the chain must not exceed 32 units.

6.1.3 PIN ASSIGNMENT



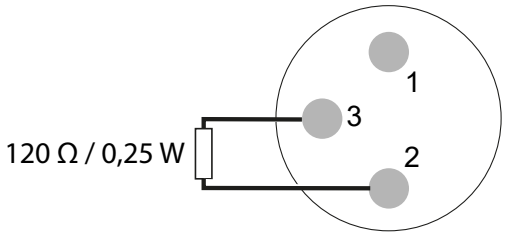
DMX cable with 3-pin XLR connectors



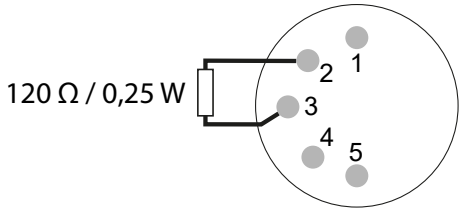
DMX cable with 5-pin XLR connectors (pin 4 and 5 are not used)

6.1.4 DMX TERMINATORS

The last fixture in a DMX chain needs to be equipped with a terminating resistor (120 Ω, 0,25 W) to prevent system errors.



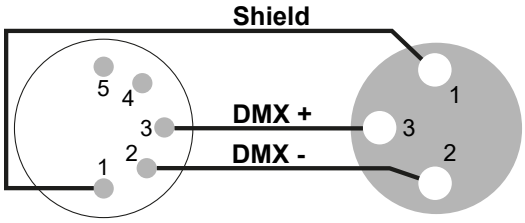
DMX Terminator 3-pin



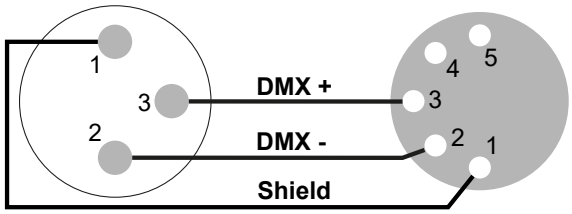
DMX Terminator 5-pin

6.1.5 DMX ADAPTERS

The combination of DMX fixtures with 3-pin connections and DMX fixtures with 5-pin connections in a DMX chain is possible with suitable adapters.



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



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

6.2 EXPLANATION OF THE IP RATING

The IP rating or ingress protection code indicates how well a device is protected against water, dust, solid foreign objects, and contact with hazardous parts.

IP Rating does not describe general bad weather resistance.

The first identification digit indicates the level of protection against the ingress from dust, solid foreign bodies and contact with hazardous parts:

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

Table 1: IP Rating - First identification digit

The second identification digit indicates the level of protection against the ingress 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 and ingress of water in harmful quantity

Table 2: IP Rating - Second identification digit

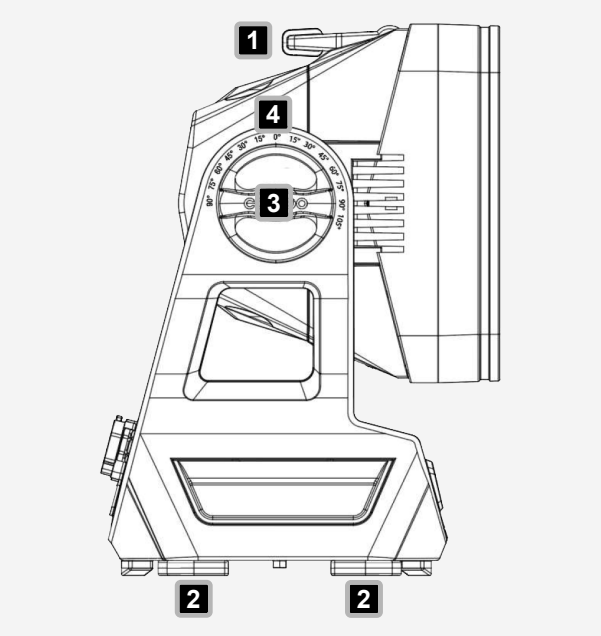
7 PREPARATION

7.1 SCOPE OF DELIVERY

Item Description	Quantity
Device	1
Mains power cable	1
Omega bracket(s)	2
Safety Compliance Information	1

8 INSTALLATION

8.1 SETTING UP AND MOUNTING THE FIXTURE



1 Fold out the carrying handle on the top of the fixture 1.
2 Carry the fixture using the handle.
3 Place the fixture on a level and stable surface.
4 Make sure that all rubber feet on the bottom of the fixture 2 are positioned securely on the surface.
5 Loosen the handle screw 3.
6 Adjust the fixture to the required beam angle.
7 Use the angle scale 4 for precise adjustment.
8 Tighten the handle screw 3.

8.2 OMEGA BRACKET MOUNTING MECHANISM OVERVIEW



1 **Mounting bolt lever**

2 **Mounting bolt**

3 **Protrusion**

8.3 ATTACHING ONE OMEGA BRACKET

WARNING

Falling object

Risk of serious injury

a. Observe all regional safety regulations concerning overhead loads.
b. Make sure that the device is securely mounted.
c. Make sure that the mounting accessory supports the weight of the device.
d. Before any assembly, check that all mounting bracket components are complete, undamaged and work correctly.

CAUTION

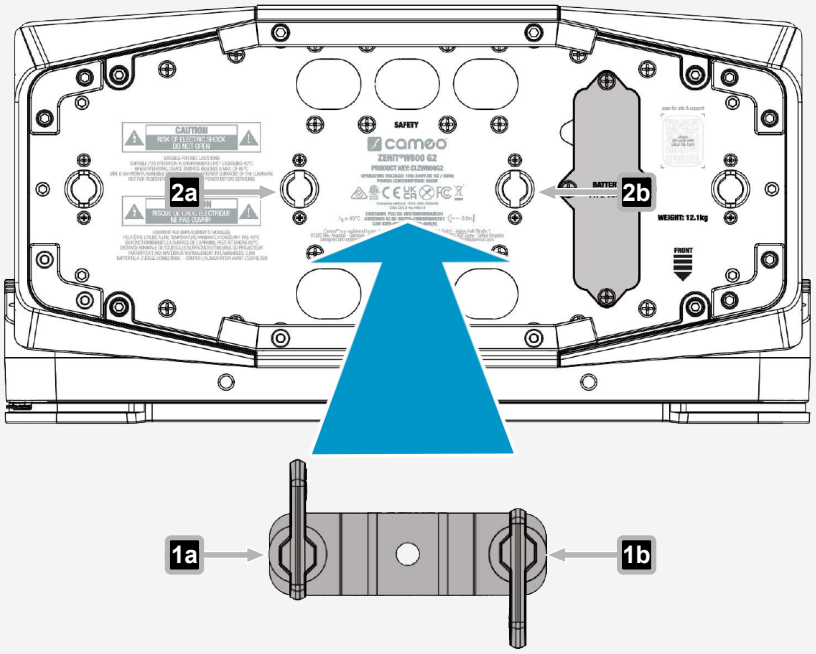
Pinching Hazard

Risk of Injury

a. Be cautious while attaching the brackets. Handle with care to avoid injury.

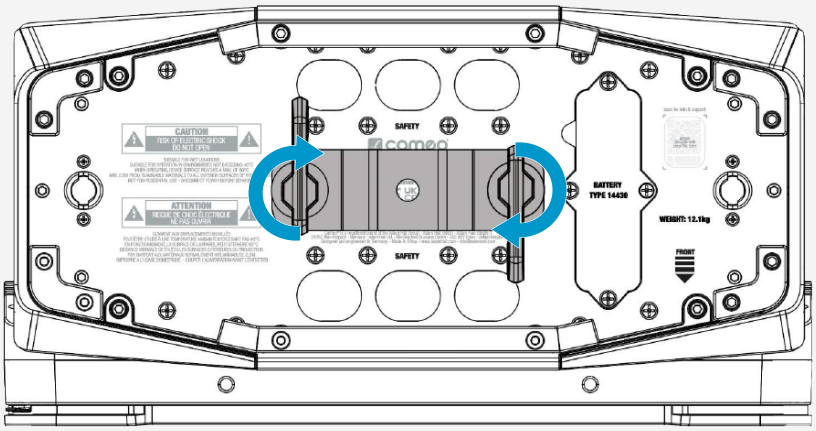
✓ The device is powered off.

1 Place the device on its side.

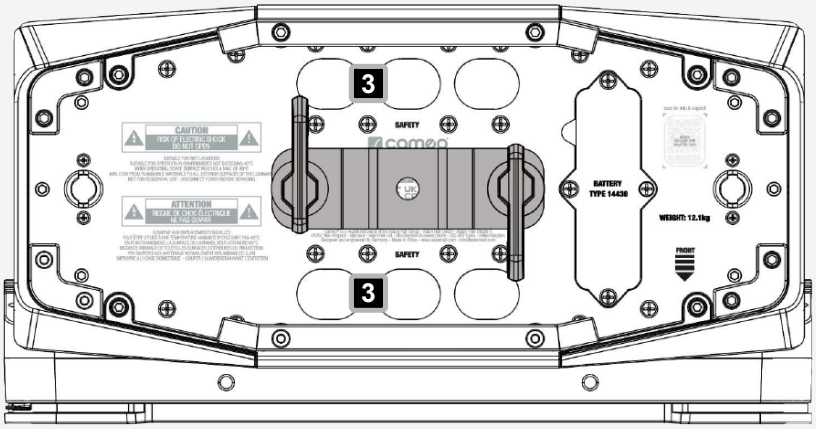


2 Align the mounting bolts of the omega bracket with the mounting points on the bottom of the device.

3 Make sure that the protrusions on the bolts **1** fit into the recesses of the mounting points **2**.



4 Turn the mounting bolt levers clockwise until they are tight.



5 Attach the safety cable to the securing lug **3**.

Suitable truss clamps are sold separately.

See also:
Optional Accessories [▷ 16]

8.4 ATTACHING TWO OMEGA BRACKETS

WARNING

Falling object

Risk of serious injury

a. Observe all regional safety regulations concerning overhead loads.
b. Make sure that the device is securely mounted.
c. Make sure that the mounting accessory supports the weight of the device.
d. Before any assembly, check that all mounting bracket components are complete, undamaged and work correctly.

CAUTION

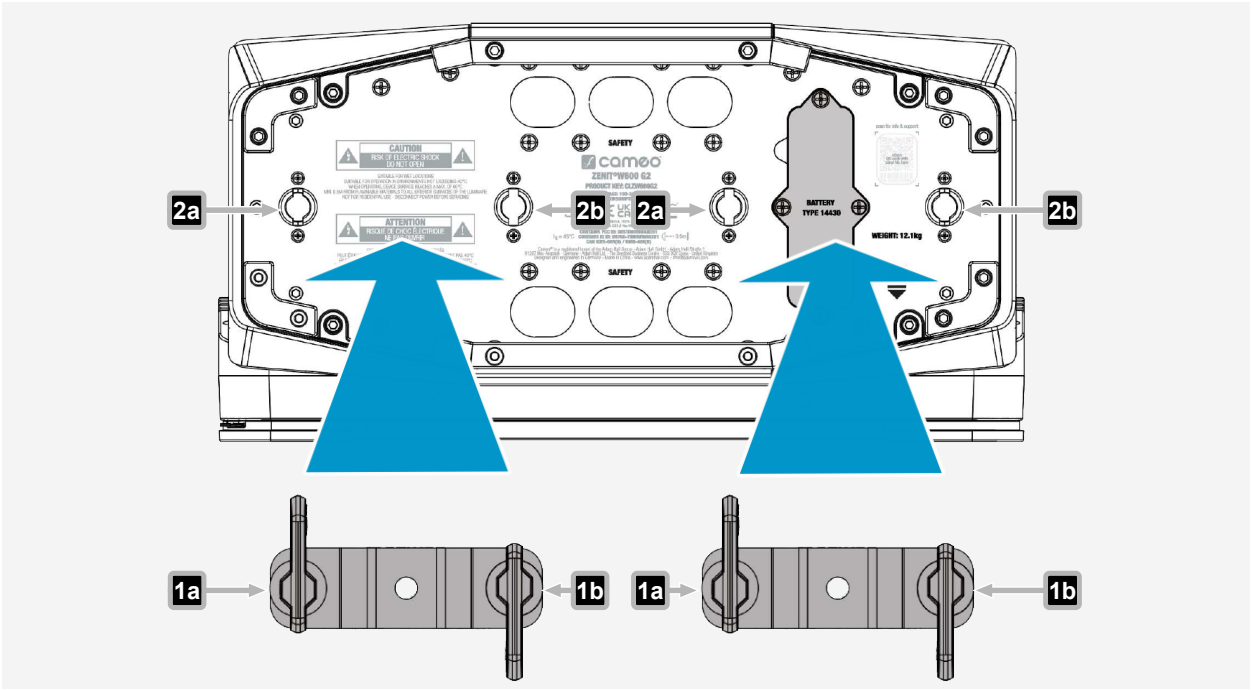
Pinching Hazard

Risk of Injury

a. Be cautious while attaching the brackets. Handle with care to avoid injury.

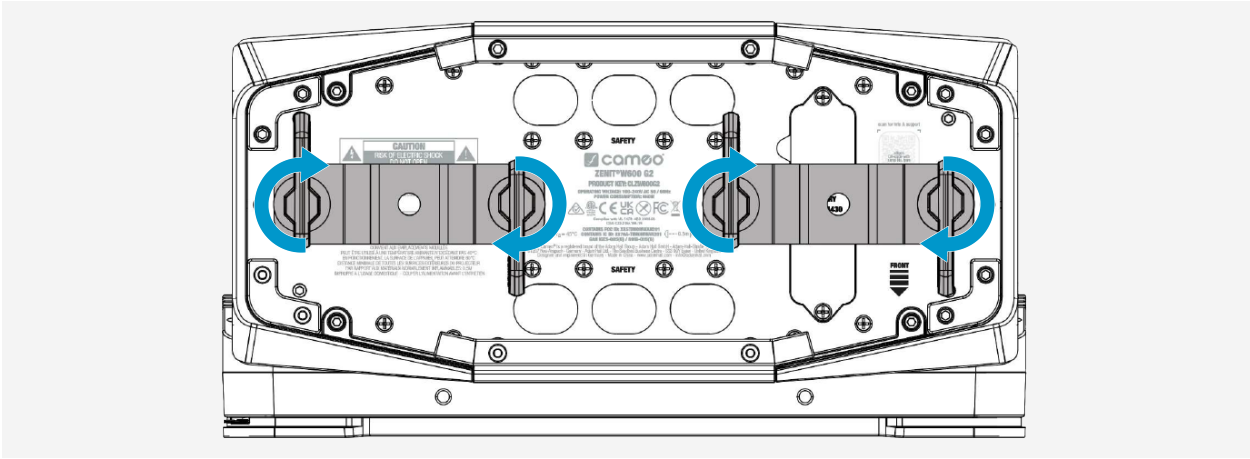
✓ The device is powered off.

1 Place the device on its side.

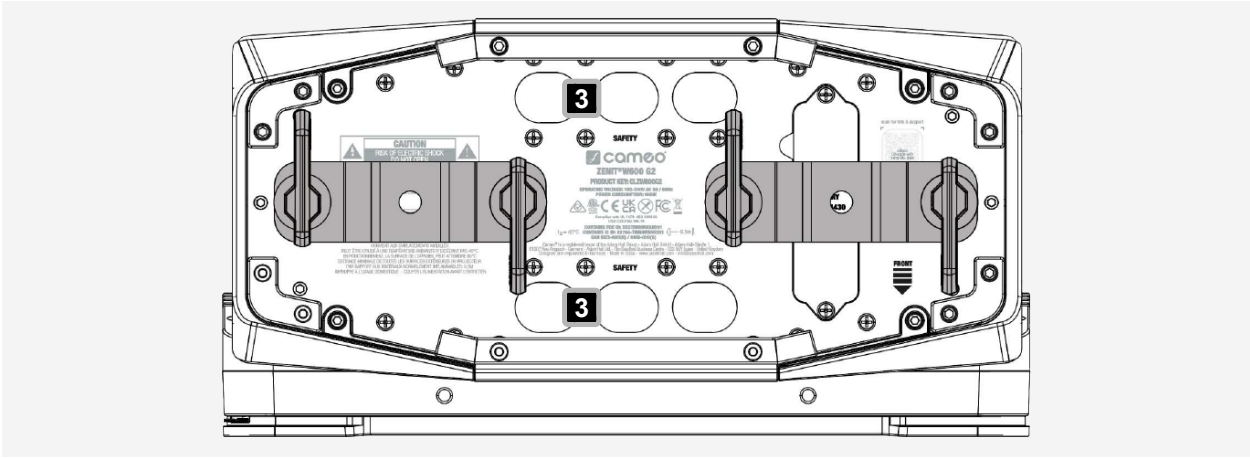


2 Align the mounting bolts of the omega brackets with the mounting points on the bottom of the device.

3 Make sure that the protrusions on the bolts **1** fit into the recesses of the mounting points **2**.



4 Turn the mounting bolt levers clockwise until they are tight.



5 Attach the safety cable to the securing lug **3**.

Suitable truss clamps are sold separately.

See also:
Optional Accessories [▷ 16]

8.5 SECURING WITH SAFETY CABLES

WARNING

Falling object

Risk of serious injury

a. Observe all regional safety regulations concerning overhead loads.
b. Make sure that the device is securely mounted.
c. Secure the luminaire 1 and each additional component that may fall independently, such as the filter frame 2 and the barndoor 3, with separate safety cables.
d. Make sure that all safety cables and mounting accessories are rated for the respective load.

If the luminaire is operated without filter frame and barndoor, one safety cable for the luminaire is sufficient.

8.6 MOUNTING THE BARNDOOR

CAUTION

Hot surface

Risk of burns

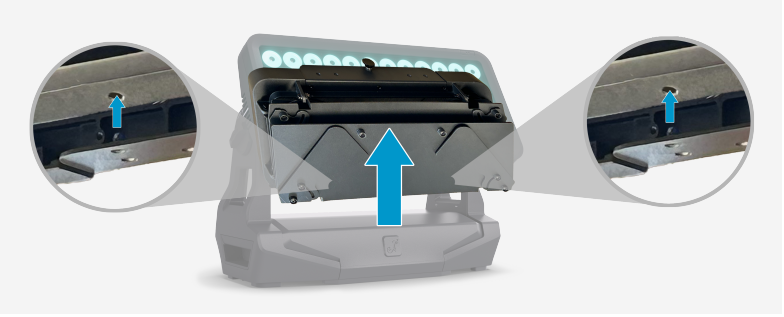
a. Switch off the fixture and allow it to cool completely before installing or removing the barndoor.

✓ If required, install a compatible filter in the filter frame of the fixture before mounting the barndoor. The use of a filter is optional and not required for barndoor installation.

Both barndoor models (CLZW1200G212B and CLZW1200G2BD) are compatible with **SnapMag** filters and electronic frost filters.

For use with CLZW1200G2EFROST, the recommended barndoor model is CLZW1200G212B. When using barndoor model CLZW1200G2BD, contact issues may occur.

For barndoor model CLZW2100G2BD, follow steps 1 to 8. Step 9 applies exclusively to barndoor model CLZW1200G212B.



1 Hold the barndoor in front of the fixture and align the two mounting pins on the barndoor with the corresponding mounting slots on the fixture housing.
2 Slide the barndoor into the mounting slots until it is fully seated.



3 Pull up the spring-loaded locking pin and slide the barndoor fully onto the fixture.
4 Release the locking pin to lock the barndoor in place.
5 Ensure that the barndoor is securely attached.

WARNING

Falling object
Risk of serious injury
a. Always secure the mounted barndoor with the integrated safety cable.



6 Attach the integrated safety cable of the barndoor to the fixture.
7 Ensure that the safety cable is properly secured.



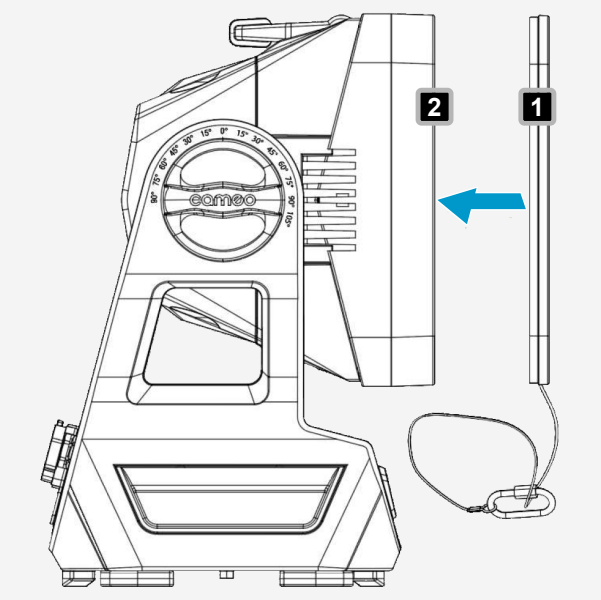
8 Fold out the four barndoor leaves as required to shape and control the light beam.



9 Pull out and position the extension flaps on the barndoor leaves as required for additional beam shaping and glare control.

See also:
Optional Accessories [▷ 16]

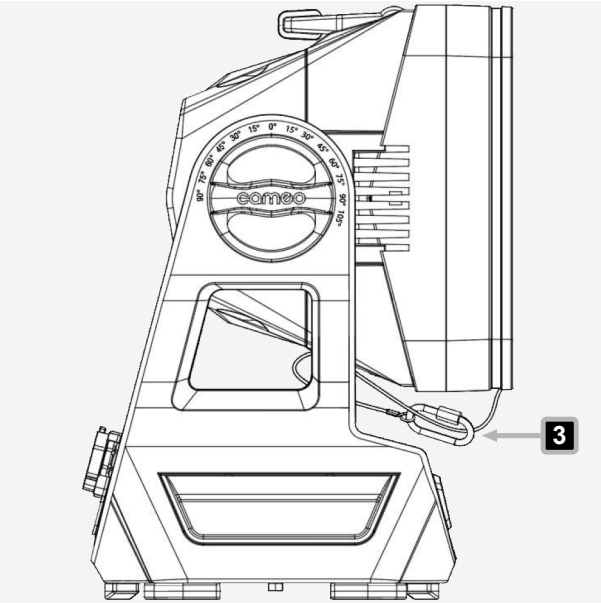
8.7 ATTACHING A FILTER



✓ The filter's electrical contacts face the fixture.

1 Place the filter 1 on the fixture's frame 2.

2 Align the gold-plated contacts of the filter with the gold-plated contacts of the fixture.



⇨ Strong magnets hold the filter in place.

3 Attach the safety cable 3 to the securing lug.

See also:
Optional Accessories [▷ 16]

9 OPERATION

9.1 POWER SUPPLY

9.1.1 CONNECTING A MAINS POWER CABLE

WARNING

Mains voltage

Risk of electric shock

a. Do not use kinked or damaged mains power cables.

NOTICE

Damage to the Device

a. Make sure that the voltage of the mains power socket matches the device operating voltage.

b. Use only supplied power cables or original Neutrik powerCON® TRUE1 cables. Otherwise you must not plug or unplug the device under load.

1 Plug the device power connector into the device. Make sure the bayonet connector is positioned correctly.

2 Turn the bayonet connector clockwise to lock it.

3 Plug the mains power connector into the mains power socket.

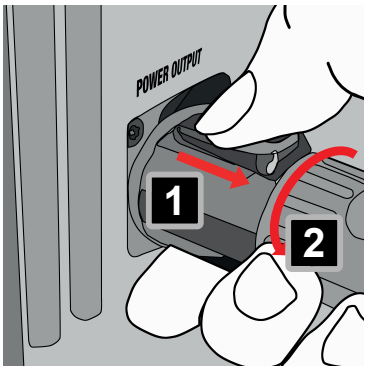
9.1.2 DISCONNECTING A MAINS POWER CABLE

NOTICE

Damage to the Device

a. Make sure that the voltage of the mains power socket matches the device operating voltage.

b. Use only supplied power cables or original Neutrik powerCON® TRUE1 cables. Otherwise you must not plug or unplug the device under load.



1 Disconnect the mains power connector of the mains power cable from the mains power socket.

2 Pull the locking lever of the bayonet connector backwards and hold it. 1

3 Turn the bayonet connector anticlockwise. 2

4 Pull the bayonet connector out of the socket.

9.2 DEVICE NAVIGATION

9.2.1 USING THE CONTROL PANEL

NOTICE

Control panel dirty or damp

Functionality impaired

a. Make sure that the control panel is dry and clean.

b. After configuring the device, activate the **Autolock** function in the settings.

OPERATION WITH ACTIVATED AUTOLOCK FUNCTION

Tap and hold **UP** and **DOWN** simultaneously for approximately 5 seconds to operate the device.

1 Tap **MENU** to access the main menu.

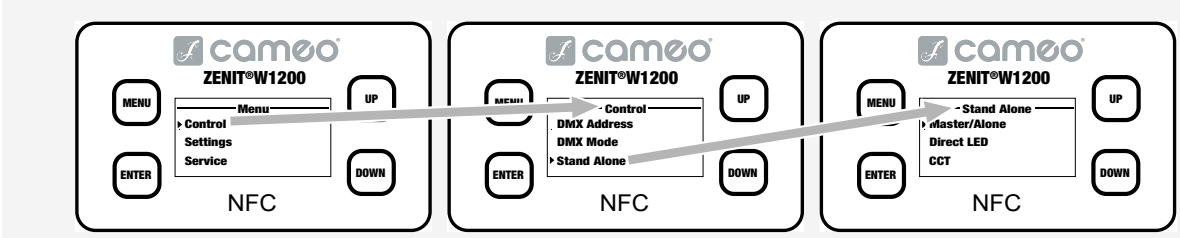
2 Tap **UP** or **DOWN** to navigate through the menu items.

3 Tap **ENTER** to access a submenu or to change the value of a menu item.

4 Tap **UP** or **DOWN** to change the value of a menu item.

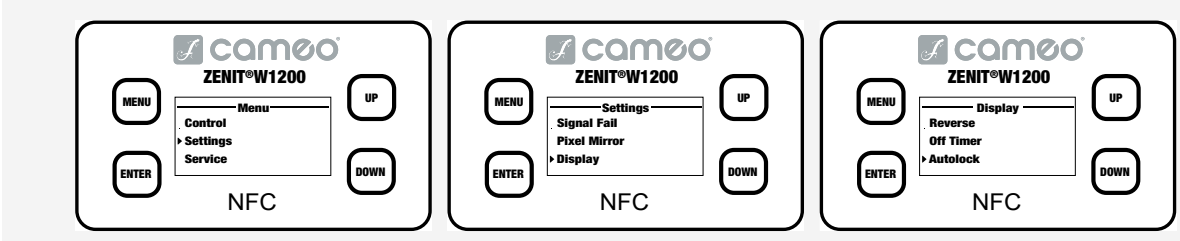
5 Tap **MENU** to return to the next higher menu layer or the main display.

The selected menu item appears as the header of the new view, as shown in this example.



9.2.2 ACTIVATING / DEACTIVATING AUTOLOCK

The **Autolock** function prevents malfunctions caused by moisture or dirt on the control panel. Find below instructions for activating the **Autolock** function.



1 In the main menu, choose **Settings**>**Display**>**Autolock**.

2 Use the control panel to adjust the settings.

a) Choose **On after 60s** to automatically lock the controls if there is no input for 60 seconds.

b) Choose **Off** to deactivate the **Autolock** function.

3 Tap **ENTER** to confirm.

9.2.3 USING THE BATTERY-POWERED DISPLAY

The device has a battery-powered display. The battery-powered display allows to access and change settings without a power supply.

When using the battery-powered display, all external device controls are deactivated. The main display indicates that there is no control signal.

1 Tap and hold **MENU** for approximately 10 seconds.
   ⇨ The display turns on.
2 Make the required settings.

9.2.3.1 INSTALLING THE DISPLAY BATTERY

The battery-powered display requires a rechargeable Li-ion battery to operate when the unit is not connected to mains power.

BATTERY REQUIREMENTS

- Battery type: Li-ion rechargeable battery
- Size: 14430
- Voltage: 3.7 V
- Connector type: Flat head
- Capacity: Any compatible capacity can be used. Higher capacities increase the operating time of the battery-powered display.

The battery is not included in the scope of delivery.

NOTICE

Use only a rechargeable Li-ion battery of type 14430 (3.7 V, flat head). Using an incompatible battery may damage the device or prevent correct operation of the battery-powered display.

INSTALLING THE BATTERY



✓ The unit is disconnected from the mains power supply.

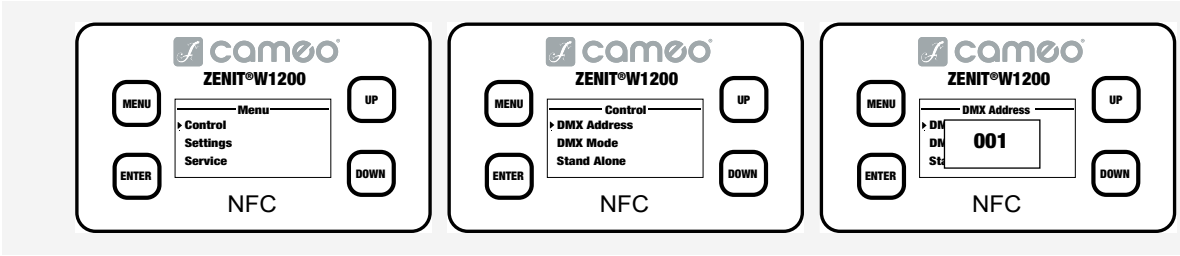
1 Place the unit on a stable, soft surface with the underside facing up.
2 Remove the screws from the battery compartment cover.
3 Open the battery compartment cover.
4 Insert the battery, observing the correct polarity.
5 Close the battery compartment cover.
6 Reinstall and tighten the screws.
   ⇨ The battery-powered display is ready for use.

The battery is charged automatically when the unit is connected to the mains power supply.

9.3 DEVICE CONFIGURATION

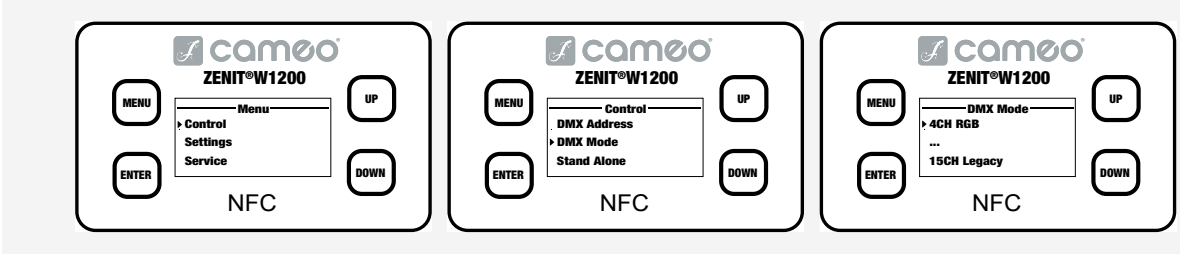
9.3.1 SETTING THE DMX START ADDRESS

⚠ **WARNING!** Risk of eye damage. As soon as the DMX start address is entered, the device may immediately activate if a DMX signal is present and may cause glare.



1 In the main menu, choose **Control**>**DMX Address**.
2 Use the control panel to adjust the desired DMX start address.
3 Tap **ENTER** to confirm.

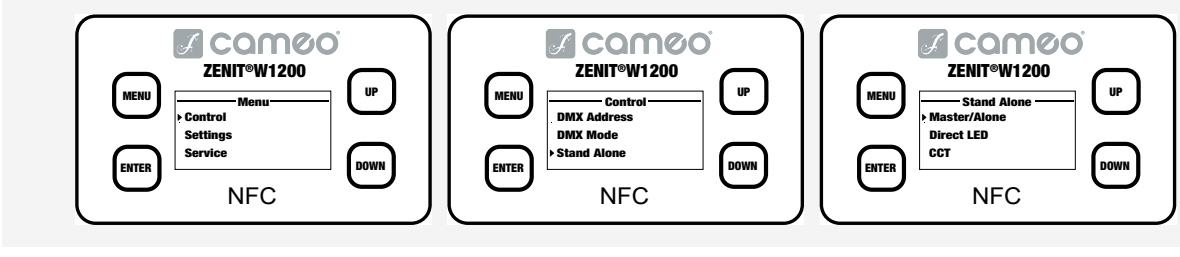
9.3.2 SETTING THE DMX MODE



1 In the main menu, choose **Control**>**DMX Mode**.
2 Use the control panel to adjust the settings.
3 Tap **ENTER** to confirm.

Find DMX tables with the channel assignments in the DMX CONTROL section of this user manual.

9.3.3 SETTING THE STAND-ALONE MODE



1 In the main menu, choose **Control**>**Stand Alone**.
2 Use the control panel to adjust the settings.
   a) Choose **Master/Alone**>**Master** to output the control signal to slave fixtures via XLR.
   b) Choose **Master/Alone**>**Alone** to deactivate the control signal output.

c) Choose **Direct LED** to create a custom scene without an additional DMX controller.

d) Choose **CCT** to adjust the colour temperature, tint, brightness, and frost filter.

e) Choose **Color Preset** to select a colour preset.

f) Choose **HSI** to adjust the hue, saturation, intensity, and frost filter.

g) Choose **Color Coordinates**>**By User** to adjust the brightness and set the colour via the x coordinate and y coordinate.

h) Choose **Color Coordinates**>**By UNISENS** to control the colour with a connected **UNISENS®** and set the brightness.

i) Choose **Pattern** to select one of the twelve pre-programmed patterns.

j) Choose **Play Loop** to activate one of the eight available loops (Loop 1–8).

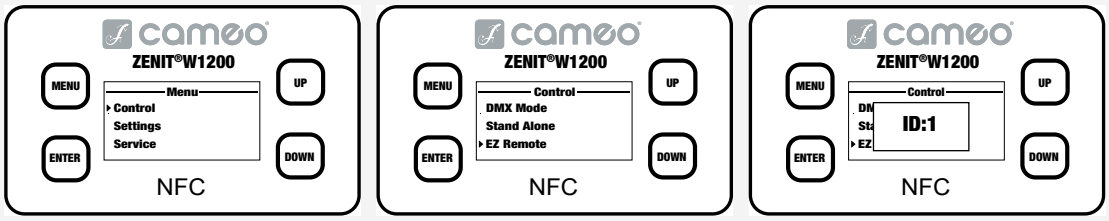
k) Choose **Edit User Color** to customise the colour presets.

l) Choose **Edit Loop** to customise a pre-programmed loop.

m) Choose **Timer** to activate and set a timer.

3 Tap **ENTER** to confirm.

9.3.4 SETTING THE EZ REMOTE



1 In the main menu, choose **Control**>**EZ Remote**.

2 Use the control panel to set the **Fixture ID**.

3 Tap **ENTER** to confirm.

9.3.4.1 CONTROLLING THE DEVICE VIA CAMEO UNICON®

✓ You have set a **Fixture ID** on the device.

1 Connect the device and the **UNICON®** with a DMX cable.

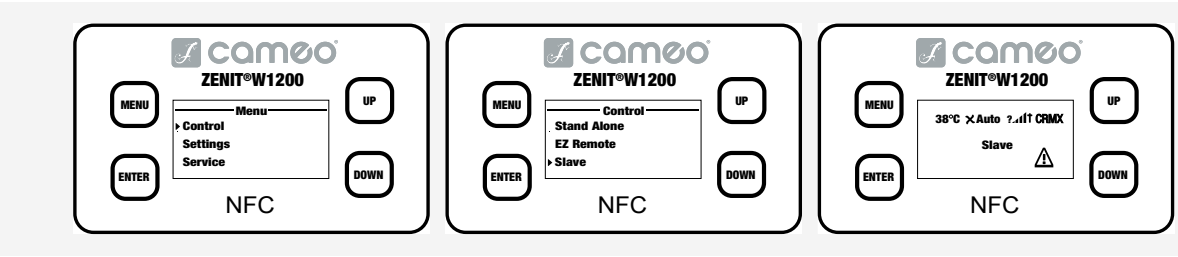
2 In the **UNICON®**'s menu, choose **DMX Control**>**EZ Remote**.

3 Set the same ID as on the device.

⇨ With the **UNICON®**, you can control up to 8 devices or device groups with different unit IDs via RGB, GEL, CCT, or HSI.

9.3.5 SETTING THE SLAVE MODE

✓ You have activated the control signal output in the master unit by navigating to: **Control**>**Stand Alone**>**Master/Alone**>**Master**.



1 In the main menu, choose **Control**>**Slave**.
2 Tap **ENTER** to confirm.
3 Connect the slave and master units (same model, same software version) with a DMX cable or via wireless DMX.
4 Activate one of the stand-alone modes in the master unit.
⇨ The slave unit follows the master unit exactly.

9.3.6 ABOUT LINKING KEY

A **Linking Key** is an eight-digit numerical code used to pair wireless DMX transmitters and receivers in lighting fixtures. The key always consists of exactly eight characters, and all eight positions must be filled. Each position can contain any digit from 0 to 9.

9.3.7 PAIRING A WIRELESS DMX RECEIVER WITH A TRANSMITTER

✓ The transmitter and the receiver are located within the same wireless operating range.

1 In the receiver's menu, select **Settings**>**Wireless**>**Operation mode**>**Receive**.
2 In the receiver's menu, select **Settings**>**Wireless**>**Linking**>**Receive Reset**.
⇨ The receiver is now ready to pair and waiting for a pairing request.
3 In the transmitter's menu, select **Settings**>**Wireless**>**Operation mode**>**Transmit CRMX/G4/G3**.
4 In the transmitter`s menu select **Settings**>**Wireless**>**Linking**>**Link**.
⇨ The receiver and transmitter will pair automatically.
⇨ The wireless DMX link between fixtures remains active until it is manually disconnected.

ⓘ Repeat steps 1 and 2 for each receiver you want to connect to a single transmitter.

9.3.8 UNLINKING A WIRELESS DMX RECEIVER FROM A TRANSMITTER

There are two ways to disconnect the wireless DMX link:

UNLINK FROM THE RECEIVER

1 On the device configured as the receiver, select **Reset** to remove the existing pairing.
⇨ The receiver is now unlinked and ready for a new pairing if needed.

UNLINK FROM THE TRANSMITTER

2 On the device configured as the transmitter, select **Unlink** to disconnect all paired receivers from the transmitter.

> After performing either option, the wireless DMX connection is fully disconnected. The devices will not reconnect automatically unless paired again.

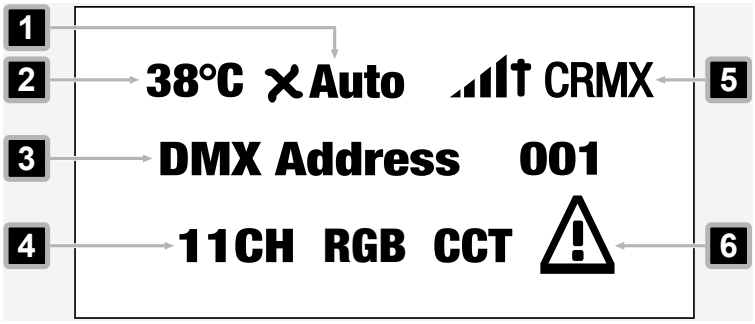
9.4 MAIN SCREEN OVERVIEW

9.4.1 WIRELESS DMX STATUS

The display uses a set of icons to indicate the current status of the W-DMX functionality. The following legend explains the different states represented by these icons.

	W-DMX deactivated
	W-DMX activated as receiver; not paired
	W-DMX activated as receiver and paired; transmitter is switched off or out of range
	W-DMX activated as receiver and paired; no DMX signal
	W-DMX activated as receiver and paired; DMX signal present
	W-DMX activated as transmitter with G3 standard; DMX signal present
	W-DMX activated as transmitter with G4S standard; DMX signal present
	W-DMX activated as transmitter with G3 standard; no DMX signal
	W-DMX activated as transmitter with G4S standard; no DMX signal
	W-DMX activated as transmitter with CRMX standard; DMX signal present
	W-DMX activated as transmitter with CRMX standard; no DMX signal

9.4.2 MAIN SCREEN DMX MODES / W-DMX MODES



1 - Displays the selected fan mode (**Auto**, **Off**, **Constant Low**, **Constant Mid**, **Constant High**, **Stage**).

2 **°C** - Indicates the illuminant temperature in °C.

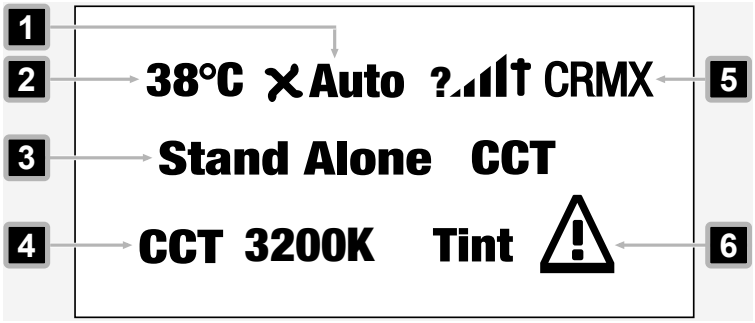
3 **DMX Address** - Indicates the set DMX start address.

4 Indicates the set values of the current mode.

5 **W-DMX settings** - Indicates the status of the wireless DMX connection (?↓ , ↯↓ , ×↓ , ↓ , ×, ↑G3, ↑G4S, ×↑G3, ×↑G4S, ↑CRMX, ×↑CRMX).

6 ⚠ - Indicates an error in one or more device component(s). Find details on current errors under **System Info**>**Error Info**.

9.4.3 MAIN SCREEN STAND-ALONE MODES



1 - Displays the selected fan mode (**Auto**, **Off**, **Constant Low**, **Constant Mid**, **Constant High**, **Stage**).

2 **°C** - Indicates the illuminant temperature in °C.

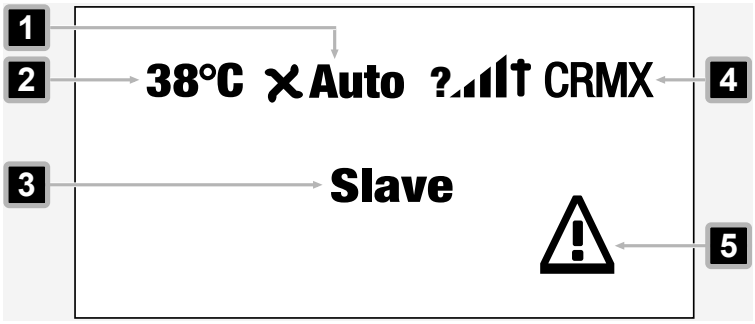
3 **Stand Alone Operating Mode** - Indicates the set stand-alone mode (**Direct**, **CCT**, **Color Preset**, **HSI**, **x y Coordinates**, **UNISENS**, **Loop X**).

4 Indicates the set values of the current mode.

5 **W-DMX settings** - Indicates the status of the wireless DMX connection (?↓ , ↯↓ , ×↓ , ↓ , ×, ↑G3, ↑G4S, ×↑G3, ×↑G4S, ↑CRMX, ×↑CRMX).

6 ⚠ - Indicates an error in one or more device component(s). Find details on current errors under **System Info**>**Error Info**.

9.4.4 MAIN SCREEN SLAVE MODE



1 ✕ - Displays the selected fan mode (**Auto**, **Off**, **Constant Low**, **Constant Mid**, **Constant High**, **Stage**).

2 **°C** - Indicates the illuminant temperature in °C.

3 **Slave** - Indicates the **Slave** operating mode.

4 **W-DMX settings** - Indicates the status of the wireless DMX connection (?↓ , ↓ , ✕↓ , ↓ , ✕, ↑G3, ↑G4S, ✕↑G3, ✕↑G4S, ↑CRMX, ✕↑CRMX).

5 ⚠ - Indicates an error in one or more device component(s). Find details on current errors under **System Info**>**Error Info**.

9.5 SUBMENUS

9.5.1 ABOUT THE SUBMENUS

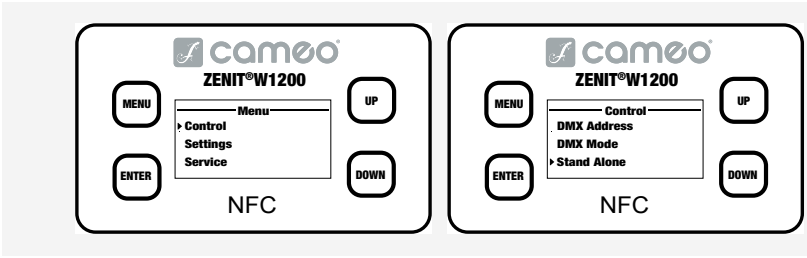
Find detailed explanations of all submenu layers in the submenu visual guide. Each section begins with a graphic showing its exact position within the menu structure, followed by tables listing the available submenu items.

- *Functional descriptions of the menu items are shown in italics* **1** .
  (This applies to the final selectable menu item in each layer.)
- Factory settings are highlighted in **bold** **2** .

Example:

Layer 3	Layer 4	Function Description
State	On	*Activates the wireless module* **1**
	Off **2**	*Deactivates the wireless module* **1**

9.5.2 CONTROL MENU



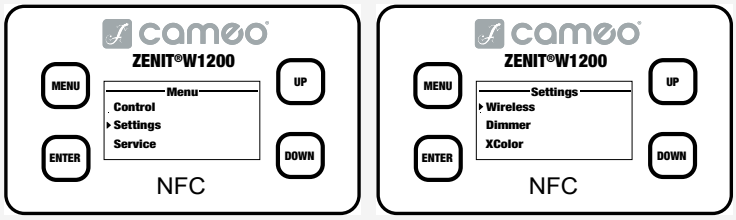
9.5.2.1 STAND-ALONE SUBMENU LAYERS

Layer 3	Layer 4	Layer 5 / Layer 6 / *Function Description*
Master/Alone	Master	*Relays the control signal via* DMX OUT
	Alone	*Does not relay the control signal*
Direct LED	Dimmer	*Sets the brightness*
	Red Green Blue …	*Sets the colour. The number and type of colours are defined by the fixture's colour mixing.*
	Frost	*Sets the frost filter*
CCT	Dimmer 0% … 100%	*Sets the brightness*
	CCT 1800K - 10000K	*Sets the colour temperature*
	Tint -10 … +10	*Sets the tint*
	Frost 0% … 100%	*Sets the frost filter*
Color Preset	Dimmer 0% … 100%	*Sets one of the three pre-programmed colour presets. The brightness (*Dimmer*) and frost filter (*Frost*) are set at a higher level.*
	Preset Yellow	
	GEL 100 Spring Yellow	
	User Color User 1 …8	
	Frost 0% … 100%	
HSI	Dimmer 0% … 100%	*Sets the brightness*
	Hue 0° … 360°	*Sets the tint*
	Saturation 0% … 100%	*Sets the saturation*
	Frost 0% … 100%	*Sets the frost filter*

Layer 3	Layer 4	Layer 5 / Layer 6 / *Function Description*		
Color Coordinates	By User	Dimmer 0% … 100%	*Sets the brightness*	
		x Coordinate 0.0000 … 0.8500	*Sets the colour via x coordinate*	
		y Coordinate 0.0000 … 0.8500	*Sets the colour via y coordinate*	
	By UNISENS	Dimmer 0% … 100%	*Sets the brightness. The colour coordinates are controlled via* **UNISENS®***.*	
	Frost 0% … 100%	*Sets the frost filter*		
Pattern	Selection Off / 1 … 12	*Activates one of the twelve pre-programmed patterns or deactivates the pattern mode (*Off*)*		
	Speed	Chase 1 … 64	*Sets the travel direction of the pattern to forward and adjusts the speed*	
		Chase backwards 1 … 64	*Sets the travel direction of the pattern to backward and adjusts the speed*	
		Fade 1 … 64	*Activates the colour fade with forward travel direction and adjusts the speed*	
		Fade backwards 1 … 64	*Activates the colour fade with backward travel direction and adjusts the speed*	
Play Loop	Loop 1 … 8	*Selects and activates the desired loop*		
Edit User Color	User Color 1 … 8	Set via Direct	*Sets the user colour presets according to the instructions for the respective mode*	
		Set via CCT		
		Set via Preset		
		Set via HSI		
		Set via Coordinates		
Edit Loop	Loop 1 … 8	Step 1 … 8	*Selects step 1 … 8*	
		t-Step 0s … 20min	*Sets the step time*	
		t-Fade 0s … 20min	*Sets the fade time*	
		User Color 1 … 8	*Selects user colour 1 … 8, blackout, or skip step from step 3 onwards*	
		Pattern Selection Off / 1 … 12	*Selects pattern 1 … 12 or turns off the pattern*	
		Pattern Speed	Chase 1 … 64	*Sets the travel direction of the pattern to forward and adjusts the speed*

Layer 3	Layer 4	Layer 5 / Layer 6 / *Function Description*		
			Chase backwards 1 … 64	*Sets the travel direction of the pattern to backward and adjusts the speed*
			Fade 1 … 64	*Activates the colour fade with forward travel direction and adjusts the speed*
			Fade backwards 1 … 64	*Activates the colour fade with backward travel direction and adjusts the speed*
Timer	State On / Off	*Activates or deactivates the timer*		
	Fade In 0 … 60min	*Sets the fade-in time*		
	Dwell Time 1 … 24h	*Sets the dwell time*		
	Fade Out 0 … 60min	*Sets the fade-out time*		

9.5.3 SETTINGS MENU



9.5.3.1 WIRELESS SUBMENU LAYERS

Factory settings are highlighted in **bold** in the table below.

Layer 3	Layer 4	Layer 5 / *Function Description*	
State	On	*Activates the wireless module*	
	Off	*Deactivates the wireless module*	
Operation Mode	**Receive**	*Wireless module = receiver*	
	Transmit CRMX	*Wireless module = transmitter with* CRMX *transmitter standard*	
	Transmit G4s	*Wireless module = transmitter with* G4s *transmitter standard*	
	Transmit G3	*Wireless module = transmitter with* G3 *transmitter standard*	
Linking	Mode Receive: Receive Reset	*Resets the receiver and puts it in pairing standby mode*	
	Mode Transmit: Link	*Pairs with compatible, ready-to-pair wireless devices*	
	Mode Transmit: Unlink	*Disconnects wireless* DMX *connections and places in pairing standby mode*	
Linking Key	Linking Key	*Sets the connection key*	
	CRMX Mode (only available with operating mode = Receive)	**CRMX**	*Receiver standard* = CRMX
		CRMX2	*Receiver standard* = CRMX2
	CRMX Universe (only available with operating mode = Receive)	**A** … H	*Selects* CRMX *universe A to H*
Universe Metadata	RGB Color Code	Red Orange Yellow Green Cyan Blue Purple White	RGB *code for colour display of the universe*
	Universe Name	*A 16-character string with a customisable name that identifies the universe*	

9.5.3.2 DIMMER SUBMENU LAYERS

Factory settings are highlighted in **bold** in the table below.

Layer 3	Layer 4	*Function Description*
Curve (Dimmer Curve)	**Linear**	*Light intensity increases linearly with* DMX *value*
	Exponential	*Adjusts the light intensity finely at lower* DMX *values and broadly at higher* DMX *values*
	Logarithmic	*Adjusts the light intensity broadly at lower* DMX *values and finely at higher* DMX *values*
	S-Curve	*Adjusts the light intensity finely at lower and higher* DMX *values and broadly at medium* DMX *values*
	Halogen	*Tungsten dimmer curve*
PMW Frequency	400Hz 650Hz **1500Hz** 3600Hz 12kHz 18.9kHz 25kHz	*Selects the* LED PWM *frequency*
Response	**LED**	*The device responds immediately to changes of the* DMX *value*
	Halogen 1kW	*The light behaves in a similar way to a 1 kW halogen light*
	Halogen 2kW	*The light behaves in a similar way to a 2 kW halogen light*
	Halogen 5kW	*The light behaves in a similar way to a 5 kW halogen light*
Redshift	Dim to Warm	*Simulates the colour drift when dimming a halogen light. When dimming the light, the colour temperature changes automatically to increasingly warm white tones and amber (and vice versa).*
	Off	*Disables the function*

9.5.3.3 XCOLOR SUBMENU LAYERS

Factory settings are highlighted in **bold** in the table below.

Layer 3	Layer 4	*Function Description*
Optimization Mode	**Brightness**	*Calibrated colour mixing for all colours*
	Quality	*Optimised for CRI*
	Disabled	*Direct control at all colours, no calibration*
Color Space	**Native**	*Full colour space with calibrated white (smart calibration)*

Layer 3	Layer 4	*Function Description*
	sRGB	*sRGB standard preset*
	DCI P3	*DCI P3 standard preset*
	Adobe RGB	*Adobe RGB standard preset*
	REC2020	*REC2020 standard preset*
White Point	**By Color Space**	*Standard by colour space preset*
	6500K	*User-defined white point*
	5600K	
	4000K	
	3200K	
	2700K	
CCT Brightness	Constant	*Constant brightness at all CCT values (reference is 2700 K)*
	Maximum	*Maximum brightness at all CCT values*

9.5.3.4 FAN SUBMENU LAYERS

Factory settings are highlighted in **bold** in the table below.

Layer 3	*Function Description*
Auto	*Automatic fan control (controls fans by dimmer value and the device temperature)*
Off	*Deactivates the fans*
Constant Low	*Constant low fan speed with reduced brightness, if necessary*
Constant Mid	*Constant average fan speed with reduced brightness, if necessary*
Constant High	*Constant high fan speed*
Stage	*Maximum fan speed*

9.5.3.5 SIGNAL FAIL SUBMENU LAYERS

Factory settings are highlighted in **bold** in the table below.

Layer 3	*Function Description*
Hold	*Retains the last command*
Blackout	*Activates blackout*
Fade to Black (10s)	*10-second fade to blackout*
Last Stand Alone	*Activates the last selected stand-alone operating mode*
Full	*Switches to full output if signal is lost*

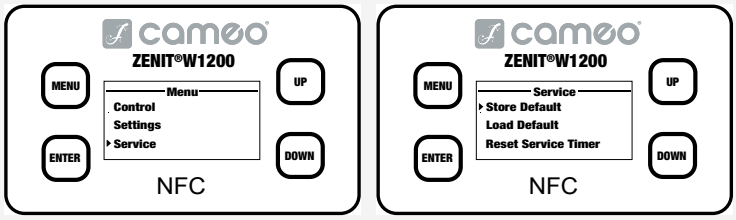
9.5.3.6 PIXEL MIRROR SUBMENU LAYERS

Layer 3	*Function Description*
Off	*Disables the function*
On	*Mirror pixels*

9.5.3.7 DISPLAY SUBMENU LAYERS

Layer 3	Layer 4	*Function Description*
Reverse	On	*180° display rotation (for example, for overhead installation)*
	Off (if Auto is not available)	*No display rotation*
	Auto	*Automatic position detection (upright/ overhead mounting)*
Off Timer	Always On	*Permanently on*
	Off after 20s	*Deactivates after approximately 20 seconds of inactivity*
Autolock	On after 60s	*Controls locked after approximately 60 seconds without input (*LOCKED*). Unlock: Tap* UP *and* DOWN *simultaneously for approximately 5 seconds.*
	Off	*Deactivates* Autolock

9.5.4 SERVICE MENU

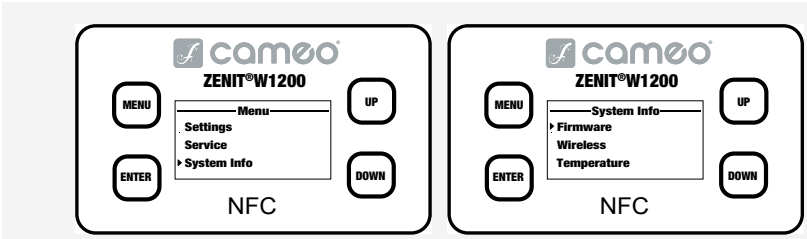


9.5.4.1 SERVICE SUBMENU LAYERS

Layer 3	Layer 4	Layer 5 / *Function Description*
Store Default	User A	*Saves all current settings as user preset A*
	User B	*Saves all current settings as user preset B*
	User C	*Saves all current settings as user preset C*
Load Default	Factory	*Resets to factory setting*
	User A	*Resets to user A values*
	User B	*Resets to user B values*
	User C	*Resets to user C values*

Layer 3	Layer 4	Layer 5 / *Function Description*	
Reset Service Timer	No	*Does not reset the service operation time*	
	Yes	Reset Now	*Resets the service operating time*
Password	*For service purposes only.*		

9.5.5 SYSTEM INFO MENU



9.5.5.1 SYSTEM INFO SUBMENU LAYERS

Factory settings are highlighted in **bold** in the table below.

Layer 2	Layer 3 / Layer 4 / Layer 5 / *Function Description*			
Firmware	DISP	vx.x.x	*Displays the firmware version of the corresponding component*	
	NET	vx.x.x		
	DRV	vx.x.x		
	...			
Wireless	Module		*Displays the wireless module model*	
	Device Name		Zenit W1200 G2-xxxx	*Displays the device name*
	Version		Hardware	*Hardware version number*
			Software	*Software version number*
	Link Quality		%	*Connection quality in per cent*
	Status		Operational	*Status information*
			DMX Data	
			RDM Identify	
			RF Link	
			Link State	
Temperature	LED		xxx° C / ° F	*Displays the temperature of the corresponding component*
	Base		xxx° C / ° F	
	...		...	
	Temperature Unit		**° C**	*Sets the temperature unit*
			° F	

Layer 2	**Layer 3 / Layer 4 / Layer 5 /** ***Function Description***			
Fan Speed	Fan X		*Displays the speed of the corresponding fan*	
	Fan Y			
	...			
Humidity	Head		x %	*Displays the relative humidity in per cent*
	Base		X %	
Runtime	Total		xxxx h : xx m	*Total operating time*
	Operation		xxxx h : xx m	*Time in use*
	LED	Total	xxxx h : xx m	*Lamp operating time*
		Red		
		Green		
		Blue		
		...		
	Service		xxxx h : xx m	*Operating time after resetting the service operating time*
Serial Number	*Displays the serial number*			
RDM UID	*RDM Unique Identifier*			
Error Info	*Displays an error in case of malfunction*			

10 FIRMWARE UPDATE

10.1 FIRMWARE UPDATES VIA DMX-INTERFACE

You can update the firmware of the device via the DMX interface using supported update methods.

10.1.1 UPDATING THE FIRMWARE WITH THE GENERATION 1 UPDATE TOOL

✓ You have the **Light Uploader V1.5** update software and the corresponding interface CLUPDATER2.

1 Download the latest firmware from: *Adam Hall Service Portal*
2 Change the firmware file extension to **.ekl**.
3 Upload the firmware update using the Light Uploader V1.5 software.
4 Complete the update as described in the updater documentation.

NOTICE

Contact the Adam Hall customer service to order the updater device. The device includes detailed instructions for the firmware update process.

10.1.2 UPDATING THE FIRMWARE VIA RDM FILE TRANSFER

1 Use third-party software that supports the ESTA Standard E1.37-4.

Verified tools include ChamSys MagicQ (PC) and DMX Workshop.

10.2 FIRMWARE UPDATES WITH THE CAMEO CONNECT APP

The **Cameo CONNECT** app communicates with **CAMEO** devices via RDM-enabled Art-Net nodes. The app supports firmware updates and additional RDM-based functions.
Use the Windows version to update newer devices.
Download the latest version from: *Adam Hall Service Portal*.
The mobile version, available on Google Play Store and Apple App Store, is primarily intended for device configuration. From July 2026, the mobile version also supports RDM functionality.

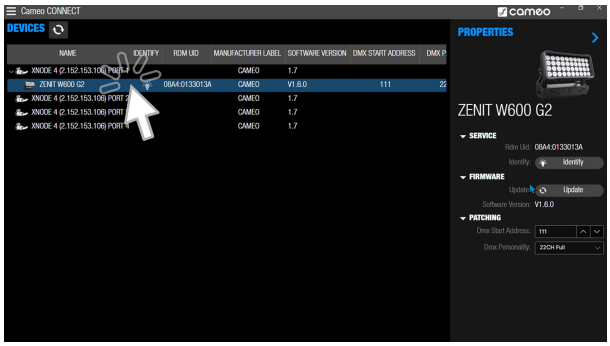
10.2.1 CAMEO CONNECT UPDATE REQUIREMENTS (WINDOWS)

- Windows PC
- Compatible network configuration for Art-Net communication
- Art-Net node with Art-Net 4 support (RDM enabled on the ports in use)

SUPPORTED ARTICLE NUMBERS:
CLNODE1; *CLXNODE4*; *CLXNODE8*

10.2.2 UPDATING THE FIRMWARE WITH CAMEO CONNECT (WINDOWS)

✓ You have downloaded the latest version of the app from the *Adam Hall Service Portal*.



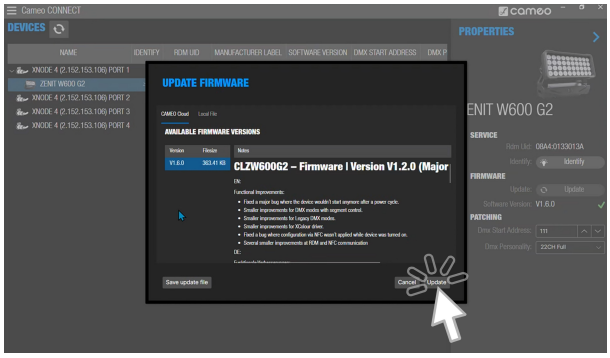
1 Open the Cameo CONNECT App on your Windows PC.

⇨ The application opens in the **DEVICES** list.

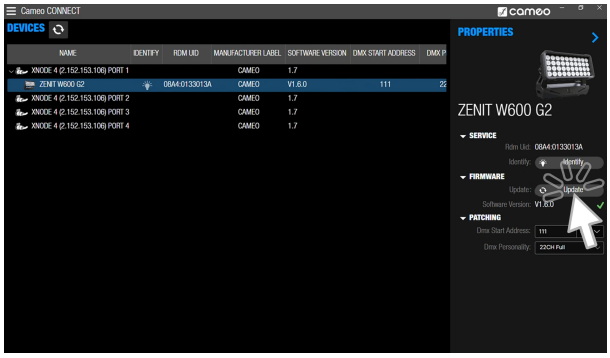
2 In the **DEVICES** list, identify the available Art-Net nodes and their ports.

⇨ The app detects all connected RDM devices.

3 Select an Art-Net node or RDM device to display its properties.

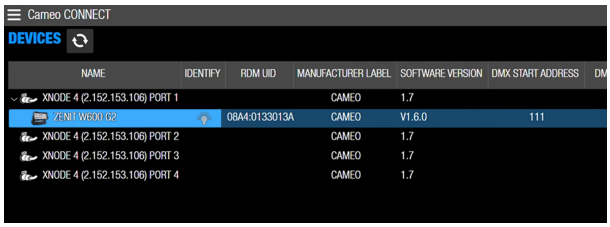


4 In the **FIRMWARE** section, click **Update**.



⇨ The **UPDATE FIRMWARE** dialogue opens and displays the available firmware versions with their release notes.

5 To start the update, click **Update**.



⇨ The required update files download and install automatically.

NOTICE

Interrupting the update process can damage the device firmware.

a. Do not disconnect the power supply.
b. Do not disconnect DMX cables.
c. Do not disconnect network connections.
d. Wait until the firmware update finishes successfully.

11 MAINTENANCE

11.1 PRODUCT MAINTENANCE



CAUTION

Mains Voltage

Risk of electric shock

a. Before you perform maintenance work on the device, disconnect the device from all poles.



NOTICE

Damage to the device and void of warranty

a. Do not use cleaning agents, disinfectants, alcohol, or agents with abrasive effect for cleaning.

Carry out the maintenance measures listed below on a regular basis. The frequency of cleaning depends on the environment in which you use the product. Damp or dirty environments may cause increased soiling and wear.

VISUAL INSPECTION

Check the following points before operating the device.

- ⚠ **WARNING! Risk of electric shock.** Check mains power cables for damage or material fatigue.
- Check all air inlets and outlets for damage, dust, or dirt deposits.
- Check all outside screws and covers for corrosion, damage or excessive wear.
- Check all connectors and rubber sealing caps for damage, dust, or dirt deposits.
- ⚠ **WARNING! Risk of falling objects.** Check that all screws, fasteners, and rigging points are securely tightened.

CLEANING

- Clean the surface with a clean and damp lint-free cotton cloth. Wipe off all excess moisture.
- **NOTICE! Do not use compressed air.** Clean any air inlets and outlets of dust and dirt deposits with a clean and damp lint-free cotton cloth.
- Clean all plug contacts from dust and dirt with a dry lint-free cotton cloth.
- Clean the front glass of your Cameo Lighting device on a monthly basis with a clean and damp lint-free cotton cloth dampened with a 1:1 solution of water and mild detergent. Do not use alcohol, solvents or abrasives.

REPLACING GOBOS

⚠ **CAUTION! Gobos may only be replaced by skilled service personnel.**

11.2 STORING THE DEVICE

Store the device only in a dry and clean environment. If you are storing the individual components of the device, use special protective covers, bags, and cases. Find such accessories for your product in the Adam Hall Shop (https://www.adamhall.com/shop).

12 REPAIR



CAUTION

Do not repair the device.

a. Repairs may only be carried out by specialist personnel authorised by the manufacturer.
b. If your device is damaged or requires service, contact the Adam Hall Customer Service.

13 DISPOSAL

13.1 PACKAGING DISPOSAL



1. You can feed the packaging into the reusable material cycle using the usual disposal methods.
2. Separate the packaging in accordance with the applicable disposal laws and recycling regulations in your country

13.2 DEVICE DISPOSAL



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 the household waste. The old device must be disposed of via an approved disposal company or a municipal disposal facility. 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.
4. Retailers are often legally obliged to take back items free of charge.
5. Old appliances that contain harmful substances are labelled with the symbol of a crossed-out dustbin.
6. Current information on the collection rate can be found at the following website: *https://environment.ec.europa.eu/*. Search for the following term: waste-electrical-and-electronic-equipment-weee.

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IP65 LED Wash Light
DMX CONTROL TABLE



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

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

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

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

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

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

4CH RGB	5CH CCT	11CH RGB CCT			
Channel	**Channel**	**Channel**	**Function**	**Values**	
	1	1	Dimmer	000 - 255	0 % ... 100 %
	2	2	Dimmer fine	000 - 255	
		3	Strobe Functions	000 - 005	Open
				006 - 010	Closed
				011 - 022	Ramp up/down slow to fast
				023 - 033	Ramp up/down random slow to fast
				034 - 045	Ramp up slow to fast
				046 - 056	Ramp up random slow to fast
				057 - 068	Ramp down slow to fast
				069 - 079	Ramp down random slow to fast
				080 - 102	Random strobe effect slow to fast
				103 - 127	Strobe break effect 5 s ... 1 s (short burst with break)
				128 - 250	Strobe slow to fast (< 1 Hz ... 20 Hz)
				251 - 255	Open
1		4	Red	000 - 255	0 % ... 100 %
2		5	Green	000 - 255	0 % ... 100 %
3		6	Blue	000 - 255	0 % ... 100 %
				000 - 005	Off
				006 - 006	Warm White
				007 - 046	Warm White to 2700 K
				047 - 047	Bulb White (2700 K)
			Color Temperature	048 - 087	2700 K ... 3200 K
	3	7	(affects Color Mixing)	088 - 088	Halogen White (3200 K)

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				089	-	128	3200 K ... 4000 K
				129	-	129	Neutral White (4000 K)
				130	-	169	4000 K ... 5600 K
				170	-	170	Studio White (5600 K)
				171	-	210	5600 K ... 6500 K
				211	-	211	Daylight White (6500 K)
				212	-	251	6500 K to Cold White
				252	-	255	Cold White
	4	8	Tint (affects Color Temperature)	000	-	000	Off
				001	-	127	Magenta -> neutral
				128	-	128	Neutral
				129	-	255	Neutral -> green
4	5	9	Frost	000	-	255	Electronic frost 0 % ... 100 %
				000	-	005	No function
				006	-	006	No function
				007	-	007	Dimmer curve linear
				008	-	008	Dimmer curve exponential
				009	-	009	Dimmer curve logarithmic
				010	-	010	Dimmer curve S-curve
				011	-	011	Dimmer curve halogen
				012	-	014	Spare
				015	-	015	PWM 400 Hz
				016	-	016	PWM 650 Hz
				017	-	017	PWM 1500 Hz
				018	-	018	PWM 3600 Hz
				019	-	019	PWM 12 kHz
				020	-	020	PWM 18.9 kHz
				021	-	021	PWM 25 kHz
				022	-	034	Spare
				035	-	035	Dimmer response LED
				036	-	036	Dimmer response halogen 1 kW
				037	-	037	Dimmer response halogen 2 kW
				038	-	038	Dimmer response halogen 5 kW
				039	-	041	Spare
				042	-	042	DTW (redshift) on
				043	-	043	DTW (redshift) off
				044	-	048	Spare
				049	-	049	No function
				050	-	050	Brightness optimisation mode
				051	-	051	Quality optimisation mode
				052	-	054	Spare
				055	-	055	Disable optimisation
				056	-	058	Spare
				059	-	059	Native colour space
				060	-	060	sRGB colour space

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DMX CONTROL TABLE

					061	-	061	DCI P§ colour space
					062	-	062	Adobe RGB colour space
					063	-	063	REC2020 colour space
					064	-	066	Spare
					067	-	067	White point by colour space
					068	-	068	White point 6500 K
					069	-	069	White point 5600 K
					070	-	070	White point 4000 K
					071	-	071	White point 3200 K
					072	-	072	White point 2700 K
				Device settings (hold value for 3 seconds)	073	-	075	Spare
			10		076	-	076	CCT fade constant brightness
					077	-	077	CCT fade maximum brightness
					078	-	082	Spare
					083	-	083	No function
					084	-	084	Fan auto
					085	-	085	Fan off
					086	-	086	Fan constant low
					087	-	087	Fan constant medium
					088	-	088	Fan constant high
					089	-	089	M.I.L. fan
					090	-	140	Spare
					150	-	150	No function
					151	-	151	Pixel mirroring off
					152	-	152	Pixel mirroring on
					153	-	159	Spare
					160	-	160	No function
					161	-	161	Display always on
					162	-	162	Display off after 20 s
					163	-	163	Display lock on
					164	-	164	Display lock off
					165	-	190	Spare
					191	-	191	No function
					192	-	192	Store user default A
					193	-	193	Store user default B
					194	-	194	Store user default C
					195	-	195	Load factory defaults
					196	-	196	Load user default A
					197	-	197	Load user default B
					198	-	198	Load user default C
					199	-	217	Spare
					218	-	218	No function
					219	-	219	Record user colour 1
					220	-	220	Record user colour 2
					221	-	221	Record user colour 3

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DMX CONTROL TABLE

				222	-	222	Record user colour 4
				223	-	223	Record user colour 5
				224	-	224	Record user colour 6
				225	-	225	Record user colour 7
				226	-	226	Record user colour 8
				227	-	229	Spare
				230	-	230	Spare
				231	-	235	Spare
				236	-	255	No function
		11	Fan Control	000	-	005	Read from menu
				006	-	011	Auto
				012	-	017	Off
				018	-	023	Constant low
				024	-	029	Constant medium
				030	-	035	Constant high
				036	-	041	Stage
				042	-	154	Spare - read from menu
				155	-	255	Manual mode from 0 % ... 100 %

4CH Presets	15CH Effect	41CH Pattern					
Channel	**Channel**	**Channel**	**Function**	**Values**			
1	1	1	Dimmer	000	-	255	0 % ... 100 %
	2	2	Dimmer fine	000	-	255	
2	3	3	Strobe Functions	000	-	005	Open
				006	-	010	Closed
				011	-	022	Ramp up/down slow to fast
				023	-	033	Ramp up/down random slow to fast
				034	-	045	Ramp up slow to fast
				046	-	056	Ramp up random slow to fast
				057	-	068	Ramp down slow to fast
				069	-	079	Ramp down random slow to fast
				080	-	102	Random strobe effect slow to fast
				103	-	127	Strobe break effect 5 s ... 1 s (short burst with break)
				128	-	250	Strobe slow to fast (< 1 Hz ... 20 Hz)
				251	-	255	Open
	4	4	Red	000	-	255	0 % ... 100 %
		5	Red fine	000	-	255	
	5	6	Green	000	-	255	0 % ... 100 %
		7	Green fine	000	-	255	

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DMX CONTROL TABLE

	6	8	Blue	000 - 255	0 % ... 100 %
		9	Blue fine	000 - 255	
	7	10	Amber	000 - 255	0 % ... 100 %
		11	Amber fine	000 - 255	
	8	12	Lime	000 - 255	0 % ... 100 %
		13	Lime fine	000 - 255	
	9	14	Cyan	000 - 255	0 % ... 100 %
		15	Cyan fine	000 - 255	
		16	Color Temperature (affects Color Mixing)	000 - 005	Off
				006 - 006	Warm White
				007 - 046	Warm White to 2700 K
				047 - 047	Bulb White (2700 K)
				048 - 087	2700 K ... 3200 K
				088 - 088	Halogen White (3200 K)
				089 - 128	3200 K ... 4000 K
				129 - 129	Neutral White (4000 K)
				130 - 169	4000 K ... 5600 K
				170 - 170	Studio White (5600 K)
				171 - 210	5600 K ... 6500 K
				211 - 211	Daylight White (6500 K)
				212 - 251	6500 K to Cold White
				252 - 255	Cold White
		17	Tint (affects Color Temperature)	000 - 000	Off
				001 - 127	Magenta -> neutral
				128 - 128	Neutral
				129 - 255	Neutral -> green
				000 - 005	No function
				006 - 009	46 Dark Magenta
				010 - 013	29 Plasa Red
				014 - 017	26 Bright Red
				018 - 021	127 Smokey Pink
				022 - 025	36 Medium Pink
				026 - 029	19 Fire
				030 - 033	135 Deep Golden Amber
				034 - 037	778 Millennium Gold
				038 - 041	21 Gold Amber
				042 - 045	157 Pink
				046 - 049	110 Middle Rose
				050 - 053	109 Light Salmon
				054 - 057	35 Light Pink
				058 - 061	134 Golden Amber
				062 - 065	17 Surprise Peach
				066 - 069	746 Brown
				070 - 073	105 Orange
				074 - 077	20 Medium Amber

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IP65 LED Wash Light

DMX CONTROL TABLE

3	**10**	**18**	Color Presets (override Color Mixing & Color Temperature)	078	- 081	768 Egg Yolk Yellow
				082	- 085	15 Deep Straw
				086	- 089	767 Nectarine
				090	- 093	101 Yellow
				094	- 097	100 Spring Yellow
				098	- 101	88 Lime Green
				102	- 105	121 LEE Green
				106	- 109	738 Jas Green
				110	- 113	89 Moss Green
				114	- 117	139 Primary Green
				118	- 121	124 Dark Green
				122	- 125	323 Jade
				126	- 129	354 Special Steel Blue
				130	- 133	116 Medium Blue-Green
				134	- 137	183 Moonlight Blue
				138	- 141	132 Medium Blue
				142	- 145	119 Dark Blue
				146	- 149	716 Mikkel Blue
				150	- 153	71 Tokyo Blue
				154	- 157	181 Congo Blue
				158	- 161	799 Special KH Lavender
				162	- 165	707 Ultimate Violet
				166	- 169	343 Special Medium Lavender
				170	- 173	798 Chrysalis Pink
				174	- 177	701 Provence
				178	- 181	797 Deep Purple
				182	- 185	48 Rose Purple
				186	- 189	345 Fuchsia Pink
				190	- 193	795 Magical Magenta
				194	- 197	128 Bright Pink
				198	- 201	2 Rose Pink
				202	- 255	No function
	11	**19**	Pattern Selection	000	- 005	Off
				006	- 026	1
				027	- 047	2
				048	- 068	3
				069	- 089	4
				090	- 110	5
				111	- 131	6
				132	- 152	7
				153	- 173	8
				174	- 194	9
				195	- 215	10
				216	- 236	11
				237	- 255	12

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DMX CONTROL TABLE

	12	20	Pattern Speed	000	-	000	Off
				001	-	064	Pattern speed fast to slow (chase)
				065	-	065	Pattern speed stop
				064	-	127	Pattern speed slow to fast (chase) (backwards)
				128	-	191	Pattern speed fast to slow (fade)
				192	-	192	Pattern speed stop
				193	-	255	Pattern speed slow to fast (fade) (backwards)
		21	Background Dimmer	000	-	255	0 % ... 100 %
		22	Background Dimmer fine	000	-	255	
		23	Background Strobe	000	-	005	Open
				006	-	010	Closed
				011	-	022	Ramp up/down slow to fast
				023	-	033	Ramp up/down random slow to fast
				034	-	045	Ramp up slow to fast
				046	-	056	Ramp up random slow to fast
				057	-	068	Ramp down slow to fast
				069	-	079	Ramp down random slow to fast
				080	-	102	Random strobe effect slow to fast
				103	-	127	Strobe break effect 5 s ... 1 s (short burst with break)
				128	-	250	Strobe slow to fast (< 1 Hz ... 20 Hz)
				251	-	255	Open
		24	Background Red	000	-	255	0 % ... 100 %
		25	Background Red fine	000	-	255	
		26	Background Green	000	-	255	0 % ... 100 %
		27	Background Green fine	000	-	255	
		28	Background Blue	000	-	255	0 % ... 100 %
		29	Background Blue fine	000	-	255	
		30	Background Amber	000	-	255	0 % ... 100 %
		31	Background Amber fine	000	-	255	
		32	Background Lime	000	-	255	0 % ... 100 %
		33	Background Lime fine	000	-	255	
		34	Background Cyan	000	-	255	0 % ... 100 %
		35	Background Cyan fine	000	-	255	
		36	Background Color Temperature (affects Background Color Mixing)	000	-	005	Off
				006	-	006	Warm White
				007	-	046	Warm White to 2700 K
				047	-	047	Bulb White (2700 K)
				048	-	087	2700 K ... 3200 K
				088	-	088	Halogen White (3200 K)
				089	-	128	3200 K ... 4000 K
				129	-	129	Neutral White (4000 K)

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DMX CONTROL TABLE

				130	-	169	4000 K ... 5600 K
				170	-	170	Studio White (5600 K)
				171	-	210	5600 K ... 6500 K
				211	-	211	Daylight White (6500 K)
				212	-	251	6500 K to Cold White
				252	-	255	Cold White
		37	Background Tint (affects Background Color Temperature)	000	-	000	Off
				001	-	127	Magenta -> neutral
				128	-	128	Neutral
				129	-	255	Neutral -> green
		38	Background Color Presets (override Background Color Mixing & Color Temperature)	000	-	005	No function
				006	-	009	46 Dark Magenta
				010	-	013	29 Plasa Red
				014	-	017	26 Bright Red
				018	-	021	127 Smokey Pink
				022	-	025	36 Medium Pink
				026	-	029	19 Fire
				030	-	033	135 Deep Golden Amber
				034	-	037	778 Millennium Gold
				038	-	041	21 Gold Amber
				042	-	045	157 Pink
				046	-	049	110 Middle Rose
				050	-	053	109 Light Salmon
				054	-	057	35 Light Pink
				058	-	061	134 Golden Amber
				062	-	065	17 Surprise Peach
				066	-	069	746 Brown
				070	-	073	105 Orange
				074	-	077	20 Medium Amber
				078	-	081	768 Egg Yolk Yellow
				082	-	085	15 Deep Straw
				086	-	089	767 Nectarine
				090	-	093	101 Yellow
				094	-	097	100 Spring Yellow
				098	-	101	88 Lime Green
				102	-	105	121 LEE Green
				106	-	109	738 Jas Green
				110	-	113	89 Moss Green
				114	-	117	139 Primary Green
				118	-	121	124 Dark Green
				122	-	125	323 Jade
				126	-	129	354 Special Steel Blue
				130	-	133	116 Medium Blue-Green
				134	-	137	183 Moonlight Blue
				138	-	141	132 Medium Blue

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DMX CONTROL TABLE

				142	-	145	119 Dark Blue
				146	-	149	716 Mikkel Blue
				150	-	153	71 Tokyo Blue
				154	-	157	181 Congo Blue
				158	-	161	799 Special KH Lavender
				162	-	165	707 Ultimate Violet
				166	-	169	343 Special Medium Lavender
				170	-	173	798 Chrysalis Pink
				174	-	177	701 Provence
				178	-	181	797 Deep Purple
				182	-	185	48 Rose Purple
				186	-	189	345 Fuchsia Pink
				190	-	193	795 Magical Magenta
				194	-	197	128 Bright Pink
				198	-	201	2 Rose Pink
				202	-	255	No function
4	**13**	**39**	Frost	000	-	255	Electronic frost 0 % ... 100 %
				000	-	005	No function
				006	-	006	No function
				007	-	007	Dimmer curve linear
				008	-	008	Dimmer curve exponential
				009	-	009	Dimmer curve logarithmic
				010	-	010	Dimmer curve S-curve
				011	-	011	Dimmer curve halogen
				012	-	014	Spare
				015	-	015	PWM 400 Hz
				016	-	016	PWM 650 Hz
				017	-	017	PWM 1500 Hz
				018	-	018	PWM 3600 Hz
				019	-	019	PWM 12 kHz
				020	-	020	PWM 18.9 kHz
				021	-	021	PWM 25 kHz
				022	-	034	Spare
				035	-	035	Dimmer response LED
				036	-	036	Dimmer response halogen 1 kW
				037	-	037	Dimmer response halogen 2 kW
				038	-	038	Dimmer response halogen 5 kW
				039	-	041	Spare
				042	-	042	DTW (redshift) on
				043	-	043	DTW (redshift) off
				044	-	048	Spare
				049	-	049	No function
				050	-	050	Brightness optimisation mode
				051	-	051	Quality optimisation mode
				052	-	054	Spare

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DMX CONTROL TABLE

					055	-	055	Disable optimisation
					056	-	058	Spare
					059	-	059	Native colour space
					060	-	060	sRGB colour space
					061	-	061	DCI P§ colour space
					062	-	062	Adobe RGB colour space
					063	-	063	REC2020 colour space
					064	-	066	Spare
					067	-	067	White point by colour space
					068	-	068	White point 6500 K
					069	-	069	White point 5600 K
					070	-	070	White point 4000 K
					071	-	071	White point 3200 K
					072	-	072	White point 2700 K
		14	**40**	Device settings (hold value for 3 seconds)	073	-	075	Spare
					076	-	076	CCT fade constant brightness
					077	-	077	CCT fade maximum brightness
					078	-	082	Spare
					083	-	083	No function
					084	-	084	Fan auto
					085	-	085	Fan off
					086	-	086	Fan constant low
					087	-	087	Fan constant medium
					088	-	088	Fan constant high
					089	-	089	M.I.L. fan
					090	-	140	Spare
					150	-	150	No function
					151	-	151	Pixel mirroring off
					152	-	152	Pixel mirroring on
					153	-	159	Spare
					160	-	160	No function
					161	-	161	Display always on
					162	-	162	Display off after 20 s
					163	-	163	Display lock on
					164	-	164	Display lock off
					165	-	190	Spare
					191	-	191	No function
					192	-	192	Store user default A
					193	-	193	Store user default B
					194	-	194	Store user default C
					195	-	195	Load factory defaults
					196	-	196	Load user default A
					197	-	197	Load user default B
					198	-	198	Load user default C
					199	-	217	Spare

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DMX CONTROL TABLE

				218 - 218	No function
				219 - 219	Record user colour 1
				220 - 220	Record user colour 2
				221 - 221	Record user colour 3
				222 - 222	Record user colour 4
				223 - 223	Record user colour 5
				224 - 224	Record user colour 6
				225 - 225	Record user colour 7
				226 - 226	Record user colour 8
				227 - 229	Spare
				230 - 230	Spare
				231 - 235	Spare
				236 - 255	No function
	15	41	Fan Control	000 - 005	Read from menu
				006 - 011	Auto
				012 - 017	Off
				018 - 023	Constant low
				024 - 029	Constant medium
				030 - 035	Constant high
				036 - 041	Stage
				042 - 154	Spare - read from menu
				155 - 255	Manual mode from 0 % ... 100 %

7CH Direct	13CH Direct 16Bit	14CH Direct CCT	22CH Full			
Channel	**Channel**	**Channel**	**Channel**	**Function**	**Values**	
		1	1	Dimmer	000 - 255	0 % ... 100 %
		2	2	Dimmer fine	000 - 255	
		3	3	Strobe Functions	000 - 005	Open
					006 - 010	Closed
					011 - 022	Ramp up/down slow to fast
					023 - 033	Ramp up/down random slow to fast
					034 - 045	Ramp up slow to fast
					046 - 056	Ramp up random slow to fast
					057 - 068	Ramp down slow to fast
					069 - 079	Ramp down random slow to fast
					080 - 102	Random strobe effect slow to fast
					103 - 127	Strobe break effect 5 s ... 1 s (short burst with break)
					128 - 250	Strobe slow to fast (< 1 Hz ... 20 Hz)
					251 - 255	Open
1	1	4	4	Red	000 - 255	0 % ... 100 %
	2		5	Red fine	000 - 255	

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DMX CONTROL TABLE

2	3	5	6	Green	000 - 255	0 % ... 100 %
	4		7	Green fine	000 - 255	
3	5	6	8	Blue	000 - 255	0 % ... 100 %
	6		9	Blue fine	000 - 255	
4	7	7	10	Amber	000 - 255	0 % ... 100 %
	8		11	Amber fine	000 - 255	
5	9	8	12	Lime	000 - 255	0 % ... 100 %
	10		13	Lime fine	000 - 255	
6	11	9	14	Cyan	000 - 255	0 % ... 100 %
	12		15	Cyan fine	000 - 255	
		10	16	Color Temperature (affects Color Mixing)	000 - 005	Off
					006 - 006	Warm White
					007 - 046	Warm White to 2700 K
					047 - 047	Bulb White (2700 K)
					048 - 087	2700 K ... 3200 K
					088 - 088	Halogen White (3200 K)
					089 - 128	3200 K ... 4000 K
					129 - 129	Neutral White (4000 K)
					130 - 169	4000 K ... 5600 K
					170 - 170	Studio White (5600 K)
					171 - 210	5600 K ... 6500 K
					211 - 211	Daylight White (6500 K)
					212 - 251	6500 K to Cold White
					252 - 255	Cold White
		11	17	Tint (affects Color Temperature)	000 - 000	Off
					001 - 127	Magenta -> neutral
					128 - 128	Neutral
					129 - 255	Neutral -> green
					000 - 005	No function
					006 - 009	46 Dark Magenta
					010 - 013	29 Plasa Red
					014 - 017	26 Bright Red
					018 - 021	127 Smokey Pink
					022 - 025	36 Medium Pink
					026 - 029	19 Fire
					030 - 033	135 Deep Golden Amber
					034 - 037	778 Millennium Gold
					038 - 041	21 Gold Amber
					042 - 045	157 Pink
					046 - 049	110 Middle Rose
					050 - 053	109 Light Salmon
					054 - 057	35 Light Pink
					058 - 061	134 Golden Amber
					062 - 065	17 Surprise Peach
					066 - 069	746 Brown

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DMX CONTROL TABLE

					070	- 073	105 Orange
					074	- 077	20 Medium Amber
					078	- 081	768 Egg Yolk Yellow
					082	- 085	15 Deep Straw
					086	- 089	767 Nectarine
					090	- 093	101 Yellow
					094	- 097	100 Spring Yellow
				Color Presets	098	- 101	88 Lime Green
			18	(override Color Mixing &	102	- 105	121 LEE Green
				Color Temperature)	106	- 109	738 Jas Green
					110	- 113	89 Moss Green
					114	- 117	139 Primary Green
					118	- 121	124 Dark Green
					122	- 125	323 Jade
					126	- 129	354 Special Steel Blue
					130	- 133	116 Medium Blue-Green
					134	- 137	183 Moonlight Blue
					138	- 141	132 Medium Blue
					142	- 145	119 Dark Blue
					146	- 149	716 Mikkel Blue
					150	- 153	71 Tokyo Blue
					154	- 157	181 Congo Blue
					158	- 161	799 Special KH Lavender
					162	- 165	707 Ultimate Violet
					166	- 169	343 Special Medium Lavender
					170	- 173	798 Chrysalis Pink
					174	- 177	701 Provence
					178	- 181	797 Deep Purple
					182	- 185	48 Rose Purple
					186	- 189	345 Fuchsia Pink
					190	- 193	795 Magical Magenta
					194	- 197	128 Bright Pink
					198	- 201	2 Rose Pink
					202	- 255	No function
					000	- 005	0 s (Off)
					006	- 105	0.1 s ... 10 s (0.1 s steps)
			19	Color Preset Crossfade	106	- 214	11 s ... 119 s (1 s steps)
					215	- 244	2 m ... 4 m 50 s (10 s steps)
					245	- 255	5 m ... 15 m (1 m steps)
7	**13**	**12**	**20**	Frost	000	- 255	Electronic frost 0 % ... 100 %
					000	- 005	No function
					006	- 006	No function
					007	- 007	Dimmer curve linear
					008	- 008	Dimmer curve exponential
					009	- 009	Dimmer curve logarithmic

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IP65 LED Wash Light

DMX CONTROL TABLE

					010	-	010	Dimmer curve S-curve
					011	-	011	Dimmer curve halogen
					012	-	014	Spare
					015	-	015	PWM 400 Hz
					016	-	016	PWM 650 Hz
					017	-	017	PWM 1500 Hz
					018	-	018	PWM 3600 Hz
					019	-	019	PWM 12 kHz
					020	-	020	PWM 18.9 kHz
					021	-	021	PWM 25 kHz
					022	-	034	Spare
					035	-	035	Dimmer response LED
					036	-	036	Dimmer response halogen 1 kW
					037	-	037	Dimmer response halogen 2 kW
					038	-	038	Dimmer response halogen 5 kW
					039	-	041	Spare
					042	-	042	DTW (redshift) on
					043	-	043	DTW (redshift) off
					044	-	048	Spare
					049	-	049	No function
					050	-	050	Brightness optimisation mode
					051	-	051	Quality optimisation mode
					052	-	054	Spare
					055	-	055	Disable optimisation
					056	-	058	Spare
					059	-	059	Native colour space
					060	-	060	sRGB colour space
					061	-	061	DCI P§ colour space
					062	-	062	Adobe RGB colour space
					063	-	063	REC2020 colour space
					064	-	066	Spare
					067	-	067	White point by colour space
					068	-	068	White point 6500 K
					069	-	069	White point 5600 K
					070	-	070	White point 4000 K
					071	-	071	White point 3200 K
					072	-	072	White point 2700 K
				Device settings (hold value for 3 seconds)	073	-	075	Spare
		13	**21**		076	-	076	CCT fade constant brightness
					077	-	077	CCT fade maximum brightness
					078	-	082	Spare
					083	-	083	No function
					084	-	084	Fan auto
					085	-	085	Fan off
					086	-	086	Fan constant low

					087	-	087	Fan constant medium
					088	-	088	Fan constant high
					089	-	089	M.I.L. fan
					090	-	140	Spare
					150	-	150	No function
					151	-	151	Pixel mirroring off
					152	-	152	Pixel mirroring on
					153	-	159	Spare
					160	-	160	No function
					161	-	161	Display always on
					162	-	162	Display off after 20 s
					163	-	163	Display lock on
					164	-	164	Display lock off
					165	-	190	Spare
					191	-	191	No function
					192	-	192	Store user default A
					193	-	193	Store user default B
					194	-	194	Store user default C
					195	-	195	Load factory defaults
					196	-	196	Load user default A
					197	-	197	Load user default B
					198	-	198	Load user default C
					199	-	217	Spare
					218	-	218	No function
					219	-	219	Record user colour 1
					220	-	220	Record user colour 2
					221	-	221	Record user colour 3
					222	-	222	Record user colour 4
					223	-	223	Record user colour 5
					224	-	224	Record user colour 6
					225	-	225	Record user colour 7
					226	-	226	Record user colour 8
					227	-	229	Spare
					230	-	230	Spare
					231	-	235	Spare
					236	-	255	No function
		14	**22**	Fan Control	000	-	005	Read from menu
					006	-	011	Auto
					012	-	017	Off
					018	-	023	Constant low
					024	-	029	Constant medium
					030	-	035	Constant high
					036	-	041	Stage
					042	-	154	Spare - read from menu
					155	-	255	Manual mode from 0 % ... 100 %

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IP65 LED Wash Light

DMX CONTROL TABLE

34CH Pixel RGB	77CH Pixel	91CH Pixel Full			
Channel	**Channel**	**Channel**	**Function**	**Values**	
	1	1	Dimmer	000 - 255	0 % ... 100 %
	2	2	Dimmer fine	000 - 255	
		3	Strobe Functions	000 - 005	Open
				006 - 010	Closed
				011 - 022	Ramp up/down slow to fast
				023 - 033	Ramp up/down random slow to fast
				034 - 045	Ramp up slow to fast
				046 - 056	Ramp up random slow to fast
				057 - 068	Ramp down slow to fast
				069 - 079	Ramp down random slow to fast
				080 - 102	Random strobe effect slow to fast
				103 - 127	Strobe break effect 5 s ... 1 s (short burst with break)
				128 - 250	Strobe slow to fast (< 1 Hz ... 20 Hz)
				251 - 255	Open
		4	Red	000 - 255	0 % ... 100 %
		5	Red fine	000 - 255	
		6	Green	000 - 255	0 % ... 100 %
		7	Green fine	000 - 255	
		8	Blue	000 - 255	0 % ... 100 %
		9	Blue fine	000 - 255	
		10	Amber	000 - 255	0 % ... 100 %
		11	Amber fine	000 - 255	
		12	Lime	000 - 255	0 % ... 100 %
		13	Lime fine	000 - 255	
		14	Cyan	000 - 255	0 % ... 100 %
		15	Cyan fine	000 - 255	
		16	Color Temperature (affects Color Mixing)	000 - 005	Off
				006 - 006	Warm White
				007 - 046	Warm White to 2700 K
				047 - 047	Bulb White (2700 K)
				048 - 087	2700 K ... 3200 K
				088 - 088	Halogen White (3200 K)
				089 - 128	3200 K ... 4000 K
				129 - 129	Neutral White (4000 K)
				130 - 169	4000 K ... 5600 K
				170 - 170	Studio White (5600 K)
				171 - 210	5600 K ... 6500 K
				211 - 211	Daylight White (6500 K)

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DMX CONTROL TABLE

				212	-	251	6500 K to Cold White
				252	-	255	Cold White
		17	Tint (affects Color Temperature)	000	-	000	Off
				001	-	127	Magenta -> neutral
				128	-	128	Neutral
				129	-	255	Neutral -> green
1	3	18	Frost	000	-	255	Electronic frost 0 % ... 100 %
				000	-	005	No function
				006	-	006	No function
				007	-	007	Dimmer curve linear
				008	-	008	Dimmer curve exponential
				009	-	009	Dimmer curve logarithmic
				010	-	010	Dimmer curve S-curve
				011	-	011	Dimmer curve halogen
				012	-	014	Spare
				015	-	015	PWM 400 Hz
				016	-	016	PWM 650 Hz
				017	-	017	PWM 1500 Hz
				018	-	018	PWM 3600 Hz
				019	-	019	PWM 12 kHz
				020	-	020	PWM 18.9 kHz
				021	-	021	PWM 25 kHz
				022	-	034	Spare
				035	-	035	Dimmer response LED
				036	-	036	Dimmer response halogen 1 kW
				037	-	037	Dimmer response halogen 2 kW
				038	-	038	Dimmer response halogen 5 kW
				039	-	041	Spare
				042	-	042	DTW (redshift) on
				043	-	043	DTW (redshift) off
				044	-	048	Spare
				049	-	049	No function
				050	-	050	Brightness optimisation mode
				051	-	051	Quality optimisation mode
				052	-	054	Spare
				055	-	055	Disable optimisation
				056	-	058	Spare
				059	-	059	Native colour space
				060	-	060	sRGB colour space
				061	-	061	DCI P§ colour space
				062	-	062	Adobe RGB colour space
				063	-	063	REC2020 colour space
				064	-	066	Spare
				067	-	067	White point by colour space
				068	-	068	White point 6500 K

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DMX CONTROL TABLE

		4	19	Device settings (hold value for 3 seconds)	069	-	069	White point 5600 K
					070	-	070	White point 4000 K
					071	-	071	White point 3200 K
					072	-	072	White point 2700 K
					073	-	075	Spare
					076	-	076	CCT fade constant brightness
					077	-	077	CCT fade maximum brightness
					078	-	082	Spare
					083	-	083	No function
					084	-	084	Fan auto
					085	-	085	Fan off
					086	-	086	Fan constant low
					087	-	087	Fan constant medium
					088	-	088	Fan constant high
					089	-	089	M.I.L. fan
					090	-	140	Spare
					150	-	150	No function
					151	-	151	Pixel mirroring off
					152	-	152	Pixel mirroring on
					153	-	159	Spare
					160	-	160	No function
					161	-	161	Display always on
					162	-	162	Display off after 20 s
					163	-	163	Display lock on
					164	-	164	Display lock off
					165	-	190	Spare
					191	-	191	No function
					192	-	192	Store user default A
					193	-	193	Store user default B
					194	-	194	Store user default C
					195	-	195	Load factory defaults
					196	-	196	Load user default A
					197	-	197	Load user default B
					198	-	198	Load user default C
					199	-	217	Spare
					218	-	218	No function
					219	-	219	Record user colour 1
					220	-	220	Record user colour 2
					221	-	221	Record user colour 3
					222	-	222	Record user colour 4
					223	-	223	Record user colour 5
					224	-	224	Record user colour 6
					225	-	225	Record user colour 7
					226	-	226	Record user colour 8
					227	-	229	Spare

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DMX CONTROL TABLE

				230	-	230	Spare
				231	-	235	Spare
				236	-	255	No function
	5		Fan Control	000	-	005	Read from menu
				006	-	011	Auto
				012	-	017	Off
				018	-	023	Constant low
				024	-	029	Constant medium
				030	-	035	Constant high
				036	-	041	Stage
				042	-	154	Spare - read from menu
				155	-	255	Manual mode from 0 % ... 100 %
2	6	20	Red 1	000	-	255	0 % ... 100 %
3	7	21	Green 1	000	-	255	0 % ... 100 %
4	8	22	Blue 1	000	-	255	0 % ... 100 %
	9	23	Amber 1	000	-	255	0 % ... 100 %
	10	24	Lime 1	000	-	255	0 % ... 100 %
	11	25	Cyan 1	000	-	255	0 % ... 100 %
5	12	26	Red 2	000	-	255	0 % ... 100 %
6	13	27	Green 2	000	-	255	0 % ... 100 %
7	14	28	Blue 2	000	-	255	0 % ... 100 %
	15	29	Amber 2	000	-	255	0 % ... 100 %
	16	30	Lime 2	000	-	255	0 % ... 100 %
	17	31	Cyan 2	000	-	255	0 % ... 100 %
8	18	32	Red 3	000	-	255	0 % ... 100 %
9	19	33	Green 3	000	-	255	0 % ... 100 %
10	20	34	Blue 3	000	-	255	0 % ... 100 %
	21	35	Amber 3	000	-	255	0 % ... 100 %
	22	36	Lime 3	000	-	255	0 % ... 100 %
	23	37	Cyan 3	000	-	255	0 % ... 100 %
11	24	38	Red 4	000	-	255	0 % ... 100 %
12	25	39	Green 4	000	-	255	0 % ... 100 %
13	26	40	Blue 4	000	-	255	0 % ... 100 %
	27	41	Amber 4	000	-	255	0 % ... 100 %
	28	42	Lime 4	000	-	255	0 % ... 100 %
	29	43	Cyan 4	000	-	255	0 % ... 100 %
14	30	44	Red 5	000	-	255	0 % ... 100 %
15	31	45	Green 5	000	-	255	0 % ... 100 %
16	32	46	Blue 5	000	-	255	0 % ... 100 %
	33	47	Amber 5	000	-	255	0 % ... 100 %
	34	48	Lime 5	000	-	255	0 % ... 100 %
	35	49	Cyan 5	000	-	255	0 % ... 100 %
17	36	50	Red 6	000	-	255	0 % ... 100 %
18	37	51	Green 6	000	-	255	0 % ... 100 %
19	38	52	Blue 6	000	-	255	0 % ... 100 %

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DMX CONTROL TABLE

	39	53	Amber 6	000 - 255	0 % ... 100 %
	40	54	Lime 6	000 - 255	0 % ... 100 %
	41	55	Cyan 6	000 - 255	0 % ... 100 %
20	42	56	Red 7	000 - 255	0 % ... 100 %
21	43	57	Green 7	000 - 255	0 % ... 100 %
22	44	58	Blue 7	000 - 255	0 % ... 100 %
	45	59	Amber 7	000 - 255	0 % ... 100 %
	46	60	Lime 7	000 - 255	0 % ... 100 %
	47	61	Cyan 7	000 - 255	0 % ... 100 %
23	48	62	Red 8	000 - 255	0 % ... 100 %
24	49	63	Green 8	000 - 255	0 % ... 100 %
25	50	64	Blue 8	000 - 255	0 % ... 100 %
	51	65	Amber 8	000 - 255	0 % ... 100 %
	52	66	Lime 8	000 - 255	0 % ... 100 %
	53	67	Cyan 8	000 - 255	0 % ... 100 %
26	54	68	Red 9	000 - 255	0 % ... 100 %
27	55	69	Green 9	000 - 255	0 % ... 100 %
28	56	70	Blue 9	000 - 255	0 % ... 100 %
	57	71	Amber 9	000 - 255	0 % ... 100 %
	58	72	Lime 9	000 - 255	0 % ... 100 %
	59	73	Cyan 9	000 - 255	0 % ... 100 %
29	60	74	Red 10	000 - 255	0 % ... 100 %
30	61	75	Green 10	000 - 255	0 % ... 100 %
31	62	76	Blue 10	000 - 255	0 % ... 100 %
	63	77	Amber 10	000 - 255	0 % ... 100 %
	64	78	Lime 10	000 - 255	0 % ... 100 %
	65	79	Cyan 10	000 - 255	0 % ... 100 %
	66	80	Red 11	000 - 255	0 % ... 100 %
	67	81	Green 11	000 - 255	0 % ... 100 %
	68	82	Blue 11	000 - 255	0 % ... 100 %
	69	83	Amber 11	000 - 255	0 % ... 100 %
	70	84	Lime 11	000 - 255	0 % ... 100 %
	71	85	Cyan 11	000 - 255	0 % ... 100 %
32	72	86	Red 12	000 - 255	0 % ... 100 %
33	73	87	Green 12	000 - 255	0 % ... 100 %
34	74	88	Blue 12	000 - 255	0 % ... 100 %
	75	89	Amber 12	000 - 255	0 % ... 100 %
	76	90	Lime 12	000 - 255	0 % ... 100 %
	77	91	Cyan 12	000 - 255	0 % ... 100 %

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DMX CONTROL TABLE

3CH UNISENS			
Channel	**Function**	**Values**	
1	Dimmer	000 - 255	0 % ... 100 %
2	Dimmer fine	000 - 255	
3	Frost	000 - 255	Electronic frost 0 % ... 100 %

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