

Software version V1.0.00

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GLP® Fusion EXO Wash User Manual – Revision B

This document covers fixture software version V1.0.00

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Table of Contents

1.	Safety	5
	Key to symbols	5
	General safety information	5
	Electrical safety	6
	Fire safety and protection from burns	
	Eye safety	
	Strobe safety	
	Installation safety and protection from personal injury	9
2.	Avoiding damage to the fixture	
	General precautions	
	Avoiding damage from light sources and heat	
	IP rating	
	Avoiding damage from water and humidity	
	Avoiding damage from dust and airborne particles	
	Transportation and storage	
	GLP Service and Support	
3.	EXO Wash 30 overview	
4.	Installation	
	Permitted mounting options	
	Securing fixtures with a safety cable	
	Installing on a rigging truss or similar structure	
	Standing on a horizontal surface	
5.	AC mains power	
	Included items	
	Connecting to power	
	Installing power connectors	
	Connecting multiple fixtures to power in a chain	
6.	Connecting to DMX data	
7.	Starting and stopping operation	21
8.	Features	
	Position	
	Color	
	Dimming	
	Strobe / shutter	
	Zoom	
	Behavior when the fixture is not receiving a DMX signal	
9.	Control menus and onboard display	
	Display options	
	Display Locking	
	Manual Control	
	LED PWM frequency	25

	Fan control	. 25
	Fixture information	. 25
	Pan disable / Tilt disable	. 26
	Preset settings and factory defaults	. 26
10.	Control menu layout	. 27
	Service Advanced menu	. 29
11.	DMX control modes overview	. 30
12.	DMX control channel layout tables	. 33
	DMX Mode 1: Compact	. 33
	DMX Mode 2: Standard	. 35
	DMX Mode 3: Extended	. 39
13.	Service	. 48
	Cleaning	. 48
	GLP Service and Support	. 48
14.	Technical specifications	. 49
	Optics	. 49
	Control	. 49
	Installation	. 49
	Electrical	. 49
	Connections	. 49
	Construction	. 49
	Thermal	. 49
	Included items	. 50
	Dimensions and weight	. 50
15.	Dimensions	. 51

1. Safety

Key to symbols

The following symbols are used in the Fusion EXO Wash 30 lighting fixture's user documentation:



Warning! Safety hazard. Risk of severe injury or death.



Warning! See user manual for important safety information.



Warning! Risk of eye injury.



Warning! Hazardous voltage. Risk of lethal or severe electric shock.



Warning! Fire hazard.



General safety information

Read this manual carefully before installing, using or servicing the Fusion EXO Wash 30 lighting fixture.

If you have any doubts or questions about how to use the fixture safely, contact your GLP® supplier for assistance. Your GLP supplier will be happy to help.

The user documentation for GLP Fusion EXO Wash 30 lighting fixtures consists of:

- This document, the **EXO Wash 30 User Manual**, supplied with the fixture and available for download from www.glp.de. The User Manual contains important safety information and installation instructions that the installer and user must read.
- The **EXO Wash 30 DMX Channel Index**, available for download from www.glp.de. The Channel Index is a separate guide to the DMX control channel layout and DMX commands available.

All documents are available for download from www.glp.de.

The Fusion EXO Wash 30 is intended for use by experienced professionals with the knowledge and skills to set up, operate, and maintain high-powered, remotely controlled lighting equipment safely and efficiently. These operations require expertise that may not be provided in this Manual or in the User Manual.

• Respect all warnings and directions given in the fixture's user documentation and on the fixture. Read the user documentation and familiarize yourself with the safety precautions it contains before installing or using the fixture. GLP and affiliated



companies will take no responsibility for damage or injury resulting from disregard for the information in the user documentation.

- Check the GLP website at www.glp.de and make sure that you have the latest version of this manual. Check the fixture software version indicated on page 2 of this manual and then use the fixture's control panel to check the version installed in the fixture. If the versions are not the same, this manual may still cover the fixture, because software updates do not always affect the way you use the fixture. However, it is possible that this manual does not match the fixture perfectly. Software release notes can help clarify this question. You can consult software release notes and download the correct version of this manual on the GLP website if necessary.
- Make all user documentation available to all installers and operators. Save this document for future reference.
- If you have any questions about the safe operation of the fixture, please contact an authorized GLP distributor (see list of distributors at www.glp.de).
- Use the fixture only as directed in this manual. Observe all markings in this manual and on the fixture.
- Refer all repairs and any service operation not described in this manual to a technician authorized by GLP.
- The light source in this fixture must not be changed by the end user.
- Read and follow the user documentation for all additional equipment.



Electrical safety

- Do not allow the fixture to become immersed. Do not expose the fixture to highpressure water projections.
- Keep any unused connectors on the fixture sealed with their protective caps at all times, both when the fixture is in use and when not in use.
- Use only a source of AC mains power that complies with local building and electrical codes and has both overload and ground fault (earth fault) protection.
- Ensure that the fixture is electrically connected to ground (earth).
- Disconnect the fixture from AC mains power before carrying out any installation or maintenance work and when the fixture is not in use.
- Disconnect the fixture from power immediately if any seal, cover, cable, connector or other component is damaged, defective, deformed or showing signs of overheating. Do not reapply power until the fixture has been repaired and made safe by a technician authorized by GLP.
- Check that all power distribution equipment, cables and connectors are in perfect condition, rated for the electrical requirements of all connected devices, suitable for their application and suitable for the installation environment.



- Use only Neutrik PowerCON TRUE1 cable connectors for AC mains power input at the fixture's Mains IN connector and for relaying AC mains power from one fixture's Mains OUT (Thru) connector to another fixture's Mains IN connector.
- Use minimum 14 AWG or 1.5 mm² power input and relay cables that are minimum 16 A-rated and temperature-rated to suit the application. In the USA and Canada the cables must be UL-listed, type SJT or equivalent. In the EU the cables must be type H05VV-F or equivalent.
- Do not connect devices to power in a chain if the total maximum current draw of all the devices in the chain when added together will exceed the current rating of any cable or connector used at any point in the chain. The supplied power input cable is rated as follows:
 - US power cable: 16 A, 14 AWG, UL-listed, E304117, SJT, 4.9 ft.
 - EU power cable: 16 A, 1.5 mm², H07RN-F, 1.5 m.

Do not connect more than four (4) Fusion EXO Wash 30 fixtures to power in a chain at 100-120 V, 60 Hz.

Do not connect more than eight (8) Fusion EXO Wash 30 fixtures to power in a chain at 200-240 V, 50 Hz.

- The voltage and frequency at the Mains OUT socket are the same as the voltage and frequency applied to the Mains IN socket. Only connect devices to the Mains Out socket that accept this voltage and frequency.
- Fusion EXO Wash 30 fixtures do not have a user-replaceable fuse. If you suspect that a fuse has blown, disconnect the fixture from power and send it to a technician authorized by GLP for repair.



Fire safety and protection from burns

- Do not operate the fixture if the ambient temperature (Ta) exceeds 40° C / 104° F.
- The surface of the fixture's casing can reach up to 90° C / 194° F during operation. Avoid contact by persons and materials. Do not install the fixture in a location where there is a risk of accidental contact. Allow the fixture to cool for at least 20 minutes before handling
- Keep the fixture well away from flammable materials.
- Keep all combustible materials (e.g. fabric, wood, paper) at least 0.5 m / 20 in. away from the fixture.
- Ensure that there is free and unobstructed airflow around the fixture.
- Do not illuminate surfaces within 0.5 m / 20 in. of the fixture. The light output from the fixture is powerful enough to cause burns or fire in illuminated objects at very close range.
- Do not stick filters, masks or other materials onto the fixture. Do not block the light output in any way. The front surface becomes hot during operation and can melt or



ignite objects that are in contact with the surface. Ensure that the front surface Is clean and unobstructed at all times in order to prevent a fire hazard and damage to the fixture.

• The fixture's optical components can focus the sun's rays, creating a risk of fire and damage. Do not expose the front of the fixture to sunlight or any other intense light source, even from an angle.



Eye safety

- The EXO Wash 30 is classified as a Risk Group 3 lighting fixture according to EN 62471. Possibly hazardous radiation emitted. Do not stare into the light output from the fixture. May be harmful to the eyes.
- Do not look at the fixture's light output with optical instruments or any device that may concentrate the light output.
- Make sure that persons near to or working on the fixture are not looking directly into the light output when the fixture lights up suddenly. This can happen when power is applied, when the fixture receives a DMX signal, or when certain control menu items are selected.
- The warning below is printed on the fixture. If the warning becomes impossible to read, replace it with a label reproduced from this illustration:

Risk Gr	oup 3	- W	/ARNING
			optical
			product.
			ing lamp.
Eye injur	y may r	result!	

• Provide well-lit conditions to reduce the pupil diameter of anyone working on or near the fixture.



Strobe safety

- Flashing light, particularly at 5 30 Hz, may cause seizures in persons with photosensitive epilepsy. Do not use strobe effects for extended periods.
- Comply with local regulations on the use of strobe lighting and notify the public in advance with highly visible warning signs when strobe effects are used.
- If a seizure occurs, stop using strobe effects. Seek professional medical help. Note the time that the seizure starts and finishes. Call emergency medical help urgently if

the seizure lasts more than five minutes, if it is the person's first seizure, or if the person is injured. While waiting for help to arrive, protect the affected person from injuring themselves on hard or sharp objects. If necessary, move the person to a safe place. Lay them on their side with their head supported to prevent it from hitting the floor. Loosen any tight clothing around their neck. Do not use force to hold the person or restrict their movements. Do not put anything in their mouth, including your fingers.



Installation safety and protection from personal injury

- Installation must be performed by qualified personnel only and carried out in accordance with all locally applicable regulations such as DIN VDE 0711-217.
- The fixture is not portable when installed.
- Ensure that the supporting structure and installation hardware used can hold at least ten times the weight of the load that they support.
- Fasten the fixture to a structure or surface only as directed in this manual and only with hardware that is specifically designed and rated for its purpose. Do not use a safety cable as the primary means of support. Check that installation hardware is in perfect condition. Fasteners must be steel grade 8.8 strength or better. Rigging clamps must be half-coupler type that completely encircle the rigging truss chord.
- If the fixture is installed in a location where it may cause injury or damage if it falls, install as directed in this manual a safety cable or similar secondary attachment that will hold the fixture if a primary attachment fails. The secondary attachment must be approved by an official body such as TÜV as a safety attachment for the weight that it secures, it must comply with EN 60598-2-17 Section 17.6.6, and it must be able to support a static suspended load that is ten times the weight that it secures.
- If the fixture is installed in a location where it may be exposed to forces such as wind pressure, vibration or movement, make sure that the installation can withstand these forces. Monitor weather forecasts constantly. Take down the installation immediately if there is any risk of weather conditions that could destabilize the installation.
- Check that all covers and items of rigging hardware are secure before using the fixture. Do not operate the fixture with missing or damaged covers, shields or any optical component.
- Restrict access below the work area and work from a stable platform whenever installing, servicing or moving the fixture.
- If the fixture becomes damaged, stop using it immediately and disconnect it from power. Do not attempt to use a fixture that is obviously damaged.
- Do not modify the fixture in any way not described in its user documentation.
- Install genuine GLP parts only.

2. Avoiding damage to the fixture

Important! Follow the directions in this section carefully, or the fixture may suffer damage that is not covered by the product warranty.

General precautions

Do not drop the fixture or expose it to mechanical stress.

Protect the onboard LCD display and control panel from shocks, or they may suffer damage that is not covered by the product warranty.

Do not expose the fixture to heat (from other lighting fixtures for example).

Clean optical components only as directed. Oils, solvents, and other chemicals commonly used for cleaning can damage the lens coatings and surfaces.

Use only original spare parts. Do not make any structural modifications to the fixture or you will void the product warranty.

Avoiding damage from light sources and heat

Do not point the front of the fixture towards the sun or other strong light sources. Strong light can cause internal damage to the fixture, melting components or starting an internal fire within seconds.

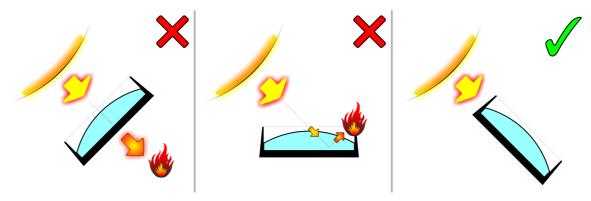


Figure 1. Avoiding damage from light sources

Damage can occur whether the fixture is powered on or off. See Figure 1. Damage can also occur if the light hits the front of the fixture at an angle: the fixture does not need to be pointing *directly* at the sun or other light source.

To avoid problems from strong light sources:

- Do not expose the front of the fixture to sunlight or any other strong light source.
- In outdoor applications during daylight, make sure that the front face of the fixture is shielded or points away from the sun, even when not in use.
- Do not aim other high-powered beam lights directly at the fixture.

Do not operate the fixture in ambient temperatures above 40° C / 104° F. Allow free airflow around the fixture.

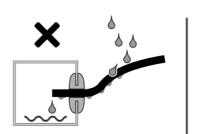
IP rating

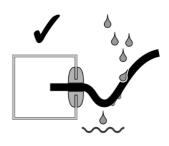
EXO Wash 30 fixtures are IP65-rated:

- IP stands for Ingress (entry into the fixture) Protection.
- The first figure **6** in the rating means that fixtures are protected against the entry of dust and airborne particles.
- The second figure **5** in the rating means that fixtures are protected against the entry of rain and water projections from all angles. Fixtures are not protected against immersion in water and they are not protected against high-pressure water jets.

Avoiding damage from water and humidity

- Do not install EXO Wash 30 fixtures in a location where water can pool around the fixture or allow EXO Wash 30 fixtures to become submerged in any other way. Do not aim low- or high-pressure water jets at fixtures.
- Keep all unused connectors on the fixture sealed with their protective caps, both when the fixture is being used and when it is not in use.
- In outdoor and high-humidity environments, use IP65-rated power and data connectors and cable (an IP65 rating means that the item is protected against the entry of water from rain, projections and low-pressure jets as well as the entry of dust). When assembling connectors and installing them on cable, follow the manufacturer's instructions (see www.neutrik.com) and ensure that an IP65 rating is maintained for the complete assembly. Use only the following cable connectors:
 - IP65-rated 5-pin XLR connectors for data IN and OUT (THRU)
 - Neutrik powerCON TRUE1 NAC3FX-W for Power IN
 - Neutrik powerCON TRUE1 NAC3MX-W for Power OUT (THRU).
- Apply a dielectric grease (available from electrical suppliers) to connector terminals and caps to prevent corrosion and/or electrical short circuits.
- Make sure that cables open into dry areas or sealed junction boxes. Moisture can be drawn along cables by capillary action or pressure variations resulting from thermal expansion.
- See drawing on right. Arrange cables so that they arrive at connectors from below. Make sure that it is impossible for water to flow down cables and accumulate at connectors. If necessary, provide extra





cable slack and create 'drip loops' before connectors.

• Create loose cable bends only. Do not subject connections to bending forces or allow connections to bear the weight of long lengths of cable.

Avoiding damage from dust and airborne particles

- Carry out regular visual inspections of the fixture to make sure that there is no accumulation of dirt, especially on the front of the fixture.
- If cleaning is necessary, follow the instructions in 'Service' on page 48.

Transportation and storage

- Transport the fixture in its original packaging or a suitably designed flight case to protect it from damage caused by shocks during transportation.
- Release the tilt lock and support the fixture's head with the original packaging inserts or flight case inserts during transportation.
- Store the fixture in a dry location when not in use.

GLP Service and Support

Contact information for the nearest GLP Service and Support is available online at www.glp.de/en/service, by email at info@glp.de, or by telephone at the following numbers:

- GLP Germany: +49 (7248) 927 19-55
- GLP N. America: +1 818 767-8899
- GLP UK: +44 1392 690140
- GLP Asia: +852 (3151) 7730
- GLP Nordic: +46 737 57 11 40

3. EXO Wash 30 overview

The Fusion EXO Wash 30 from GLP is a powerful LED-based wash light fixture with fast pan and tilt, 4 to 54 degree variable zoom and seven independently controllable RGBW zones.

The fixture can be controlled by DMX or by settings on its built in color LCD control panel. An optional wireless DMX module can be fitted to enable LumenRadio wireless control. The fixture has a built-in battery to allow the display to be operated for setup before mains power is connected.

The EXO Wash 30 can be used indoors in permanent and temporary installations. Its rugged construction and IP65 rating mean that it can also be used outdoors in temporary installations if precautions are taken to prevent immersion in water and damage from direct sunlight. It can stand on a horizontal surface or be suspended from a suitable structure as described in Section 4.

The EXO Wash 30 is not suitable for household use, for use in any location where unattended children have access to it, or for use in permanent outdoor installations.

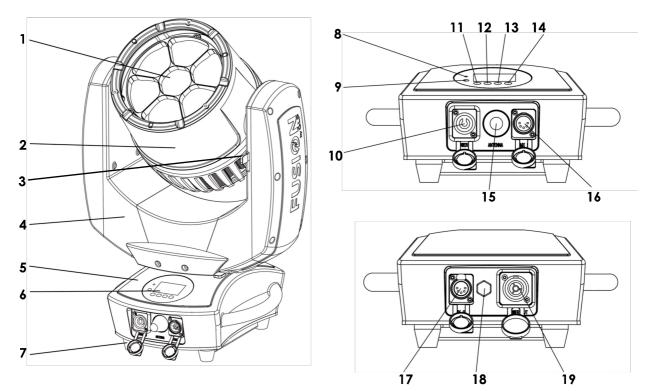


Figure 2. EXO Wash 30 overview

- 1 Output lens
- 2 Head
- 3 Tilt lock
- 4 Yoke
- 5 Base
- 6 Control panel
- 7 Rubber feet

- 8 Wireless indicator
- 9 Battery button
- 10 PowerCON TRUE1 input
- 11 Mode / Esc button
- 12 Up button
- 13 Down button
- 14 Enter button
- 15 Optional wireless antenna
- 16 5 pin XLR DMX input
- 17 5 pin XLR DMX link out
- 18 Vent valve
- 19 PowerCON TRUE1 link out

4. Installation



Warning! Read 'Safety' starting on page 5 for important safety information that you must understand before you install or operate the fixture. Install EXO Wash 30 fixtures only as described in this chapter, or you may create an installation that is unsafe.

Install the fixture at least 0.5 m / 20 in. away from combustible materials (wood, textiles, paper, etc.), 0.5 m / 20 in. away from any surface that will be illuminated, and a safe distance away from any flammable materials (volatile spirits, etc.).

It is the installer's responsibility to provide a stable, secure supporting structure that is suitable for the environment and application and that meets all applicable codes and legal requirements. Note the requirement to secure lighting fixtures with safety cables in temporary installations.

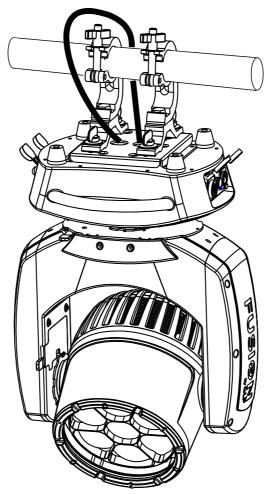
Permitted mounting options

An EXO Wash 30 fixture may be installed in one of the following ways:

- 1. Fastened to a rigging truss or similar structure at any angle by means of truss couplers or other clamps fixed to the two Omega brackets which attach to the half-turn couplers on the underside of the base.
- 2. Standing upright on the base on a horizontal surface.

Securing fixtures with a safety cable

In temporary installations, if a fixture can cause injury or damage if it falls you must secure it with a secondary attachment such as a safety cable that will hold it if the primary means of attachment fails. The safety cable must be approved for the weight that it secures. In multiple installations, each fixture must have its own safety cable.



To secure an EXO Wash 30 fixture with a safety cable:

Figure 3. Safety cable attachment

1. Loop a safety cable around a secure anchoring point such as a truss beam or fixed structure so that it will catch the fixture if a rigging clamp fails. Take up as much slack as possible in the safety cable (by looping it more than once around the bar, for example).

2. See Figure 3 and Figure 4. Fasten the safety cable through the slot "B" on the underside of the fixture base. Check that the fixture is now secured.

Installing on a rigging truss or similar structure

You can suspend an EXO Wash 30 fixture from a rigging truss or pipe using suitable clamps attached to the Omega Brackets supplied with the EXO Wash 30.

If you are going to install the fixture hanging vertically downwards from a horizontal rigging truss or pipe, you can fasten it to the truss using G-clamps. If you are going to install the fixture in any other orientation, you must use half-coupler clamps that completely surround the truss chord or pipe.

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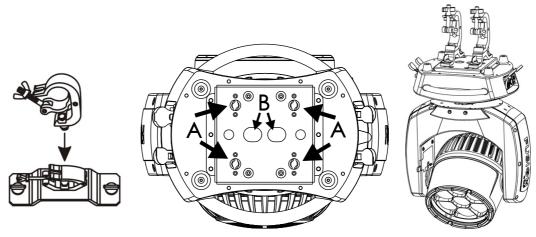


Figure 4. Omega bracket fasteners

1. Attach suitable clamps to the Omega brackets.

2. Line up the fasteners of the Omega bracket with the holes "A" in the base of the EXO Wash 30 as shown in Figure 4. The brackets may be installed either way round so the cabling is in line with the bar or at right angles to it.

3. Lock the Omega brackets onto the EXO Wash 30 by turning the fasteners through 90 degrees.

4. Attach the clamp to the truss or structure. Ensure that the head and yoke of the fixture will not collide with any fixed objects as the fixture moves. Ensure that the fixture has sufficient clearance to any adjacent surfaces or objects.

5. Secure the fixture with a safety cable through slots "B" as described in the previous section.

Standing on a horizontal surface

To install an EXO Wash 30 fixture on a horizontal surface:

1. Check that the surface is secure and can safely hold the weight of the fixture plus all hardware and cables.

2. Stand the fixture firmly on the rubber feet fitted to the base of the unit. Ensure that the head and yoke of the fixture will not collide with any fixed objects as the fixture moves. Ensure that the fixture has sufficient clearance to any adjacent surfaces or objects.

5. AC mains power



Warning! Read 'Safety' starting on page 5 for important safety information that you must understand before you install or operate the fixture.

Check that all cables and connectors are suitable for the installation environment and application (see recommendations in 'Avoiding damage to the fixture' on page 10).

Use H07 RN-F 3 x 2.5mm / SJT 12 AWG cables with original Neutrik powerCON TRUE1 connectors to supply power to fixtures.

Line up the keyways in connectors carefully. Do not try to insert or twist a connector if it feels excessively stiff. Resistance to insertion or twisting is a sign that connectors may be incorrectly lined up.

Keep connectors sealed with their rubber caps at all times when not in use.

Included items

The EXO Wash 30 is supplied with a power cord with Neutrik powerCON TRUE1 connector.

Connecting to power

The AC mains power supply must include a connection to ground / protective earth. It must be protected against ground / earth leakage and overload. The fixture's internal auto-sensing power supply accepts AC power at 100-240 V, 50/60 Hz. Do not connect the fixture to power at any other voltage or to an external dimmer.

The EXO Wash 30 does not have a power ON/OFF switch. Power is applied to the fixture as soon as the power cable becomes live.

The EXO Wash 30 has a 3-conductor Neutrik powerCON TRUE1 Mains IN power input socket that accepts AC power from a TRUE1 female cable connector. Although TRUE1 connectors support hot plugging, it is still good practice to shut down power to power cables before connecting them to fixtures.

To connect the fixture to power:

1. If convenient, shut down power to the power input cable.

2. Note the position of the keys and keyways on the TRUE1 power cable connector and Mains IN socket and align them with each other. Insert the cable connector into the socket and twist clockwise to lock. Do not use force. If the connector feels excessively stiff, remove it and check again that it is lined up correctly.

3. Before applying power to the power cable, check that nobody is looking directly into the front of the fixture.

To disconnect the fixture from power, pull the latch on the cable connector outwards to release it, then twist the connector counterclockwise and pull to remove it from the socket.

Installing power connectors

If you intend to draw power from convenience receptacles / consumer mains power sockets, it is possible to install a suitable cord cap / power plug on the supplied power cord / input cable. If you do this, check that the cord cap / plug is rated minimum 250 V, 16 A, that it has a connection to ground / earth and that it has an integral cable grip. Follow the cord cap / plug manufacturer's assembly instructions.

If you need to install a Neutrik powerCON TRUE1 connector on a power cable, follow the instructions given in the Support area of the Neutrik website at www.neutrik.com.

Respect the color coding used in the supplied power cable and in your local mains power wiring system. US and EU systems use the color coding shown below:

	Live or L	Neutral or N	Ground / Earth or 🕀
US system	Black	White	Green
EU system	Brown	Blue	Yellow/green

Connecting multiple fixtures to power in a chain

You can connect fixtures to power in a daisy-chain to simplify your power circuit layout.

EXO Wash 30 fixtures have 2.5 mm² internal wiring from Power IN to Power THRU connectors.



Warning! Do not connect more than four (4) EXO Wash 30 fixtures in total to power in one chain at 100-120 V, 60 Hz. Do not connect more than eight (8) EXO Wash 30 fixtures in total to power in one chain at 200-240 V, 50 Hz.

The power input cable supplied with the fixture is rated 16 A maximum. Add together the maximum current draw ratings of all the devices that you intend to connect to power in a daisy chain and do not create a chain with a total maximum current draw of more than 16 A, or you will create a risk of fire and electric shock.

To connect fixtures to power in a chain:

1. Obtain power relay cables that have male and female Neutrik powerCON TRUE1 connectors. Cables must be minimum 14 AWG or 1.5mm², rated minimum 16 A and suitable for the environment and application.

2. Connect the power input cable to the Mains IN socket of the first fixture as described under 'Connecting to power' on page 18.

3. Connect a relay cable to the Mains OUT / THRU socket of the first fixture and to the Mains IN socket of the second fixture.

4. If you are using 100-120 V, 60 Hz AC mains power you can continue connecting EXO Wash 30 fixtures Mains OUT / THRU socket to Mains IN socket until the chain contains a maximum of four (4) fixtures in total. If you are using 200-240 V, 50 Hz AC mains power you can continue connecting fixtures Mains OUT to Mains IN until the chain contains a maximum of eight (8) fixtures total.

6. Connecting to DMX data

Check that all cables and connectors are suitable for the installation environment and application (see recommendations in 'Avoiding damage to the fixture' on page 10).

Use digital 110 Ohm DMX cable with IP65 5-pin XLR connectors to supply DMX data to fixtures.

Keep connectors sealed with their rubber caps at all times when not in use.

The EXO Wash 30 has two 5-pin XLR sockets for IN and THRU connections to a DMX data link. EXO Wash 30 fixtures support the USITT DMX 512A signal protocol. They also support RDM (Remote Device Management).

The 5-pin XLR connectors use standard pin allocations:

1	Signal Ground
2	Data –
3	Data +
4	Not used
5	Not used

The DMX cable should start at the console and be daisy-chained through each fixture to be controlled using the DMX input and DMX link out connectors. If you need to split the DMX cable, use a powered DMX splitter.

If you would like advice with planning and installing a DMX link, your GLP supplier will be happy to provide assistance.

7. Starting and stopping operation



Warning! Before you apply power to the fixture or operate it after a blackout, make sure that nobody is looking directly into the front of the fixture.

The EXO Wash 30's TRUE1 mains power input connector supports hot-plugging, and connecting and disconnecting a live power cable is an option, especially if you need to shut down power urgently, but it is still good practice to shut down power to the AC mains power circuit before connecting and disconnecting power cables.

To start operation, check that nobody is looking into the front of the fixture, then apply power to the AC mains power circuit.

To stop operation, shut down power to the AC mains power circuit.



8. Features

The EXO Wash 30 unit has the following features:

Position

Pan rotation 630°(3.9 sec) or 540°(4.3 sec), Tilt rotation 267°(2.2 sec) with 16 bit resolution. The fixture will automatically reposition if knocked – this option can be disabled from the menu. The Pan and Tilt movements can be inverted using the menu.

Color

The fixture has seven zones of Red/Green/Blue/White (RGBW) color mixing LEDs. Depending on the DMX mode these have up to 16-bit dimming and can be controlled independently, or using macro patterns.

The zones/pixels are arranged as shown in the diagram below.

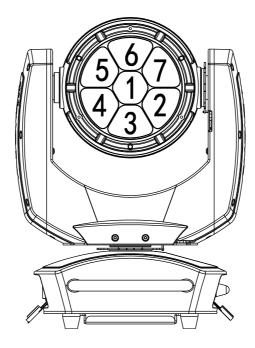


Figure 5. Pixel order

Dimming

See Figure 6. You can select from two dimming curves using the control panel or the *Control / Settings DMX* channel:

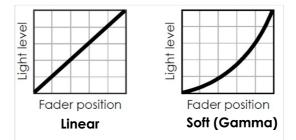


Figure 6. Dimming curves

- Linear sets dimming so that it appears to increase and decrease evenly throughout the dimming range.
- Soft gives finer control at low light levels and coarser control at high light levels.

The default setting is Soft.

Strobe / shutter

A variety of strobing and fading effects can be produced by the fixture.

Zoom

The beam angle of the fixture can be adjusted (zoom) from 4° to 54°. The zoom operation can be inverted using the menu.

Behavior when the fixture is not receiving a DMX signal

You can set the fixture to react in three different ways if no DMX signal is present (if the fixture is being controlled by DMX but the DMX signal stops, or if you apply power to the fixture when no DMX signal is present):

- Blackout sets the fixture to black out. This is the default setting.
- Hold sets the fixture to continue obeying the last DMX values it received. If no DMX signal was being received, the fixture will black out.
- **Preset Scene** sets the fixture to output a preset scene which you have previously captured from an incoming DMX state using the Manual Control > Capture Scene menu option. You can also manually set the control values (or edit the captured values) using the attribute settings in the Manual Control menu.

All these settings are available via DMX on the *Control / Settings* channel and in the fixture's control panel.

9. Control menus and onboard display



Warning! DMX control is disabled when the control menus are active. Be prepared for the fixture to emit strong light as soon as you exit the control menus.

The control panel and onboard LCD display provide access to user settings, readouts and utilities.

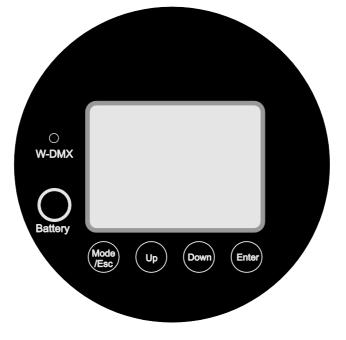


Figure 7. Onboard display

The four control buttons have the following functions:

MODE/ESC: Activate the menus or go back one level towards the top of the menu.

UP: Scroll up or increase a number.

DOWN: Scroll down or reduce a number.

ENTER: Activate the control panel if it is in sleep mode. Then enter a menu, select a setting or implement a command.

When you apply power to the fixture, it boots up. After it has booted, the panel displays the default screen.

The **Battery** button is used to power up the control panel for setup before mains is connected to the unit. Battery mode can be disabled in the menu.

The **W-DMX** indicator shows when wireless DMX is being received, if the optional wireless module has been fitted.

DMX control is disabled when the control menus are active.

Display options

The illuminated LCD display lets you change fixture settings. The display has a battery backup so that you can change the settings before mains is connected to the fixture. See Chapter 9 for more details.

Using the Control / Settings DMX channel or the fixture's control panel you can:

Set **display modes** using the Fixture Settings > Display Mode option:

- **On**: The display stays on constantly. This setting can be useful when you are configuring or servicing the fixture.
- **Auto**: The display will automatically switch off after a few seconds even if the fixture is not receiving a valid control signal or if it has detected an error.

Invert the display using the Fixture Settings > Display Orientation option, so it is easier to read if the fixture is hanging upside down.

Display Locking

On the Fixture Settings > Lock menu, you can configure the display to lock after a period of time to prevent accidental changes to the options.

You can set a custom lock code using the Fixture Settings > Lock > Set Passcode option. If you do not set a custom code, the default code is 0000.

Manual Control

Using the Manual Control menu you can set fixed values to the fixture's control channels, as if it was in DMX control mode 1. This is useful when testing.

LED PWM frequency

The LEDs in the unit are dimmed using Pulse Width Modulation (PWM) which can sometimes cause flickering on cameras. The *Fixture Settings > PWM* option allows you to select different frequencies for the PWM to fix such issues. The higher frequencies may cause reduced dimming performance.

Fan control

The fixture has internal cooling fans. In a noise critical situation you can slow these down using the *Fixture Settings > Fan Mode* option. The normal setting is *Regulated* which will adjust the fan speed automatically. If you set the option to *Low* the fan speed is kept slow but this may result in the fixture overheating and reducing its output.

The fixture has an additional fan near the lens to clear condensation. You can control how this fan works using the *Fixture Settings > Defog* option.

Fixture information

The **Information** menu in the control panel gives access to items of information from the fixture's sensors and memory. You can check temperature sensor readouts, see total operating hours counters, and see software version number, for example.

Pan disable / Tilt disable

These options allow you to disable the startup reset movements or disable the drive of the pan and/or tilt motors. The options are

- Off: Normal motor control
- **Reset Disabled**: The fixture will not do its power on reset sequence on this motor but the motor is still controlled. This can be used when a fixture is mounted in a confined space and would collide with an obstruction if it did the reset sequence.
- **Current Disabled**: The motor drive function is completely disabled. This is mostly used for service or diagnostics.

Preset settings and factory defaults

You can store three different versions of option settings using the Service > Service Advanced > Save Settings menu and load them using the Load Settings > Preset 1-2-3 options. These allow you to quickly set up the fixture in a particular configuration. Settings are stored after a power off/on cycle and after a reset.

Two options are available in the fixture's control panel for deleting multiple custom settings and restoring defaults:

- Service > Default Settings reloads all the fixture's factory default settings except DMX address, DMX mode, captured scene, preset settings and offset values. This option returns the fixture to baseline settings without affecting its basic configuration in an installation.
- Service > Service Advanced > Factory Backup reloads all the fixture's factory default settings including DMX address, DMX mode, and erases all storage. This option reinitializes the fixture completely and returns to its state when it left the factory.

10. Control menu layout

Menus			Notes
DMX ADDRESS	1 - 512		Enter DMX address
	Compressed – 13 channels		
CONTROL	Standard – 22 channels		Select DMX control mode
MODE	Extended – 37 channels		
	Pixel – 50 channels		
CONTROL	DMX		Wired DMX control
PROTOCOL	WIRELESS		Wireless DMX control (optional module)
	Pan Invert	Off / On	Invert Pan movement
	Tilt Invert	Off / On	Invert Tilt movement
	Position Feedback	Off / On	If On, fixture repositions if knocked
	Pan Disabled	Off / Reset Disabled / Current Disabled Off / Reset Disabled /	Disable motor drive for service
	Tilt Disabled	Current Disabled	service
	Zoom Invert	Off / On	Inverts Zoom movement
	Dimmer Curve	Soft (Gamma) / Linear	Dimming curve
	No Signal	Blackout / Hold / run Captured Scene	Action when no DMX signal
	Capture Scene	Press ENTER to capture scene	Store scene for no signal
fixture settings	PWM	600 Hz / 2200 Hz / 3000 Hz / 4800 Hz / 9600 Hz / 25000 Hz	Frequency of LED dimming
SETTINGS	Display Mode	Auto / On / Off	Display blanking
	Display Orientation	Normal / Upside Down	Display reversing
	Max Temperature	60 – 90C / 140-194F	Sets overheat temperature where shutdown will occur
	Fan Mode	Regulated / High / Medium / Low	Set fan speed control
	Load Settings	Preset 1 / Preset 2 / Preset 3	Press ENTER for 3 sec to confirm
	Lock	Off / On /. Set Passcode	Lock the control panel
	Defog	Off / On / Quick	Settings for lens defogging fan
	Battery	On / Off	Disable the battery operation of the control panel
	Reboot		Press ENTER for 3 sec to confirm
		Pan Coarse 0-255	
	Manual function control	Pan Fine 0-255]
MANUAL		Tilt Coarse 0-255	These values can be set
CONTROL		Tilt Fine 0-255	manually or from a DMX
	(DMX Mode 1)	Dimmer 0-255	state using Capture Scene
		Shutter 0-255	
		Virtual color wheel 0-255	-

		Red 0-255	
		Green 0-255	
		Blue 0-255	
		White 0-255	
		Zoom 0-255	
		Control 0-255	
	Capture Scene		Press ENTER for 3 sec to capture incoming DMX state
	Firmware Version	ver x.x	Fixture firmware version
	Fixture Details	Serial xx / RDM xx	Show fixture serial, RDM unique ID
INFORMATIO	Device Life	Total / User	Shows power cycles, Power Hours, LED Hours
N	DMX Link Status	Refresh Rate (Hz) / Frame Length / Mode Length	Details of DMX signal
	Temperatures	XXX	Unit temperatures
	Fan Speeds	Fan1	
	Error Log	Ххх	
	Test All	Running	Press Enter to start test, Menu or Enter to stop
	Test Pan only	Running	
	Test Tilt only	Running	
SERVICE	Test LED only	Running	
	Test Zoom only	Running	
	Default Settings		See Note 1 below
	Service Advanced	See below for menu	Hold Enter for 6 sec to enter this menu
FACTORY MENU	This menu is for use by au	thorized service technicians only	

Note 1: Default Setting will return all options to default except DMX address, Control Mode. It does not erase captured scene, preset settings or offset values

Default settings are written in **BOLD type.**

Service Advanced menu

Hold down Enter for 6 seconds to access this menu.

Menus

Notes

Pan Disable	Off/On		
Tilt Disable	Off/On		
Units	°C / °F		
Offsets	Tilt	XXX	
Oliseis	Zoom	XXX	
	Power Hours		
	Power Cycles		
Reset Counter	LED Hours		
Coomer	Max Temperature		
	Temperature Unit		
	Preset 1		
Save Settings	Preset 2		
	Preset 3		
Factory Backup			See Note 2 below

Note 2: Factory backup will reset all options to default, erase captured scene, erase preset settings, erase offset values. User Hour counter and Temperature Unit will not be affected.

11. DMX control modes overview

The following DMX control modes are available in the EXO Wash 30.

DMX Mode 1: Compact

Compact Mode uses 13 DMX channels.

It provides 16-bit control of pan and tilt, dimming and a shutter with strobe and ramp up/down effects. It has a virtual color wheel effect (color presets with rotation effects) and RGBW color mixing.

Compact Mode also provides control of zoom and a control / settings channel that lets you configure the feature and adjust settings remotely via DMX.

Mode 1 Compact

1	Pan
2	Pan fine
3	Tilt
4	Tilt fine
5	Dimmer
6	Shutter
7	Virtual color wheel
8	Red
9	Green
10	Blue
11	White
12	Zoom
13	Control / Settings

DMX Mode 2: Standard

Standard Mode uses 22 DMX channels.

It provides 16-bit control of pan and tilt, 16-bit control of dimming and a shutter with strobe and ramp up/down effects. It has a virtual color wheel effect (color presets with rotation effects), color temperature control and 16-bit RGBW color mixing.

Standard Mode also gives access to a range of Pattern FX with variable speed and crossfading parameters, control of zoom and a control / settings channel that lets you configure the feature and adjust settings remotely via DMX.

Mode 2 Standard

1	Pan		
2	Pan fine		
2 3	Tilt		
4	Tilt fine		
5	Dimmer		
6	Dimmer fine		
7	Shutter		
8	Virtual color wheel		
9	CTC		
10	Red		
11	Red fine		
12	Green		
13	Green fine		
14	Blue		
15	Blue fine		
16	White		
17	White fine		
18	Pattern		
19	Pattern Speed		
20	Pattern Fading		
21	Zoom		
22	Control / Settings		

DMX Mode 3: Extended

Extended Mode uses 37 DMX channels.

It provides 16-bit control of pan and tilt, 16-bit control of dimming and a shutter with strobe and ramp up/down effects. It has a virtual color wheel effect (color presets with rotation effects), color temperature control and 16-bit RGBW color mixing.

Extended Mode also has two layers:

- Layer 1, the background layer, has 16-bit color dimming and a shutter effect that includes a random pixel strobe.
- Layer 2, the top layer, has a range of Pattern FX with 16-bit dimming, shutter effects and color control via a virtual color wheel (color presets) and 16-bit RGBW color mixing. Layer 2 also has variable speed and crossfading parameters

Extended Mode also provides control of zoom and a control / settings channel that lets you configure the feature and adjust settings remotely via DMX.

Mode 3 Extended

1	Pan		
2	Pan fine		
3	Tilt		
4	Tilt fine		
5	Dimmer		
6	Dimmer fine		
7	Shutter		
8	Virtual color wheel		
9	CTC		
10	Red		
11	Red fine		
12	Green		
13	Green fine		
14	Blue		
15	Blue fine		
16	White		
17	White fine		
18	Layer 1 Color dimmer		
19	Layer 1 Color dimmer fine		
20	Layer 1 Shutter		
21	Layer 2 Pattern dimmer		
22	Layer 2 Pattern dimmer fine		
23	Layer 2 Pattern shutter		
24	Layer 2 Pattern color wheel		
25	Layer 2 Pattern red		
26	Layer 2 Pattern red fine		
27	Layer 2 Pattern green		
28	Layer 2 Pattern green fine		
29	Layer 2 Pattern blue		
30	Layer 2 Pattern blue fine		
31	Layer 2 Pattern white		
32	Layer 2 Pattern white fine		
33	Layer 2 Pattern		
34	Layer 2 Pattern speed		
35	Layer 2 Pattern fading		
36	Zoom		
37	Control / Settings		

DMX Mode 4: Pix

Pix Mode uses 50 DMX channels.

It provides 16-bit control of pan and tilt, 16-bit control of dimming and a shutter with strobe and ramp up/down effects. It has a virtual color wheel effect (color presets with rotation effects), color temperature control and 16-bit RGBW color mixing.

Pix Mode also gives access to a range of Pattern FX with variable speed and crossfading parameters, control of zoom and a control / settings channel that lets you configure the feature and adjust settings remotely via DMX.

Finally, Pix Mode provides independent RGBW color mixing on each of the fixture's seven pixels.

Mode 4 Pix

1	Pan
2	Pan fine
3	Tilt
3 4	Tilt fine
5	Dimmer
6	Dimmer fine
7	Shutter
8	Virtual color wheel
9	СТС
10	Red
11	Red fine
12	Green
13	Green fine
14	Blue
15	Blue fine
16	White
17	White fine
18	Pattern
19	Pattern Speed
20	Pattern Fading
21	Zoom
22	Control / Settings
23	Pixel 1 Red
24	Pixel 1 Green
25	Pixel 1 Blue
26	Pixel 1 White
27	Pixel 2 Red
28	Pixel 2 Green
29	Pixel 2 Blue
30	Pixel 2 White
31	Pixel 3 Red
32	Pixel 3 Green
33	Pixel 3 Blue
34	Pixel 3 White
35	Pixel 4 Red
36	Pixel 4 Green
37	Pixel 4 Blue
38	Pixel 4 White
39	Pixel 5 Red
40	Pixel 5 Green
41	Pixel 5 Blue
42	Pixel 5 White
43	Pixel 6 Red
44	Pixel 6 Green
44	Pixel 6 Blue
46	Pixel 6 White
40	Pixel 7 Red
47	
40	Pixel 7 Green Pixel 7 Blue
49 50	Pixel 7 White
50	

12. DMX control channel layout tables

DMX Mode 1: Compact

11 DMX Channels

11	DMX Channe	215					Default	
Channel		Command	DMX range P			Defa		-
1				ige	Percent		DMX	Fade
1	Pan Pan fine	– Pan left–right	0	65535	0	100	32767	Fade
2	Tilt							
4	Tilt fine	— Tilt up–down	0	65535	0	100	32767	Fade
5	Dimmer	Intensity 0–100%	0	255	0	100	0	Fade
-	Binnie	Shutter closed	0	4	0	1.6	0	1000
		Single flash when change on dimmer channel	5	9	2.0	3.5		
		Sync ramp up slow-fast	10	39	3.9	15.3		
		Sync ramp down slow-fast	40	69	15.7	27.1		
6	Shutter	Sync ramp up-down slow-fast	70	99	27.5	38.8	0	Snap
		Sync double flash (slow–fast)	100	129	39.2	50.6		Shap
		Random strobe pixel (slow-fast)	130	159	51.0	62.4		
		Random strobe all (slow–fast)	160	199	62.7	78.0		
		Sync strobe (1 Hz–10 Hz)	200	250	78.4	98.0	-	
		Shutter open	251	255	98.4	100		
		Off (RGBW)	0	7	0	2.7	0	Snap
		Color 01 - Red	8	15	3.1	5.9		Snap
		Color 02 - Amber	16	23	6.3	9.0		Snap
		Color 03 - Warm Yellow	24	31	9.4	12.2		Snap
		Color 04 - Yellow	32	39	12.5	15.3		Snap
		Color 05 - Green	40	47	15.7	18.4		Snap
		Color 06 - Turquoise	48	55	18.8	21.6		Snap
		Color 07 - Cyan	56	63	22.0	24.7		Snap
	Color wheel	Color 08 - Blue	64	71	25.1	27.8		Snap
7	effect	Color 09 - Lavender	72	79	28.2	31.0		Snap
	ellect	Color 10 - Mauve	80	87	31.4	34.1		Snap
		Color 11 - Magenta	88	95	34.5	37.3		Snap
		Color 12 - Pink	96	103	37.6	40.4		Snap
		Color 13 - White 3200K	104	111	40.8	43.5		Snap
		Color 14 - White 5600K	112	119	43.9	46.7		Snap
		Color 15 - White 7200K	120	127	47.1	49.8	-	Snap
		Stop	128	128	50.2	50.2		Snap
		Rainbow colors crossfade slow > fast	129	223	50.6	87.5		Fade
		Random colors crossfade slow > fast	224	255	87.8	100		Fade
8	Red	Red intensity 0-100%	0	255	0	100	0	Fade
9	Green	Green intensity 0-100%	0	255	0	100	0	Fade
10	Blue	Blue intensity 0-100%	0	255	0	100	0	Fade
11 12	White Zoom	White intensity 0-100%	0	255 255	0	100	0	Fade
12	200m	Wide-narrow	U	200	U	100	U	Fade

DMX MODE 1

|--|

		No function	0	9	0.0	3.5		
		Dimmer curve: Extra-soft (3s hold)	10	15	3.9	5.9		
		Dimmer curve: Linear (3s hold)	16	21	6.3	8.2		
		Display mode: Auto (3s hold)	22	27	8.6	10.6		
		Display mode: On (3s hold)	28	33	11.0	12.9		
		Display mode: Off (3s hold)	34	39	13.3	15.3		
		Display orientation: Normal (3s hold)	40	45	15.7	17.6		
		Display orientation: Inverted (3s hold)	46	51	18.0	20.0		
		No DMX: Blackout (3s hold)	52	57	20.4	22.4		
		No DMX: Hold (3s hold)	58	63	22.7	24.7		
		No DMX: Stand-alone (3s hold)	64	69	25.1	27.1		
		Fan mode: Regulated (3s hold)	70	75	27.5	29.4		
		Fan mode: High (3s hold)	76	81	29.8	31.8		
		Fan mode: Medium (3s hold)	82	87	32.2	34.1		
		Fan mode: Low (3s hold)	88	93	34.5	36.5		
		Position feedback: Off (3s hold)	94	99	36.9	38.8		
		Position feedback: On (3s hold)	100	105	39.2	41.2		
		No function	106	117	41.6	45.9		
		Tilt inversion: Off (3s hold)	118	123	46.3	48.2		
	Control /	Tilt inversion: On (3s hold)	124	129	48.6	50.6		
13	Settings	Pan inversion: Off (3s hold)	130	135	51.0	52.9	0	Snap
	Jennigs	Pan inversion: On (3s hold)	136	141	53.3	55.3		
		Zoom inversion: Off (3s hold)	142	147	55.7	57.6		
		Zoom inversion: On (3s hold)	148	153	58.0	60.0		
		Defog: Off	154	159	60.4	62.4		
		Defog: On	160	165	62.7	64.7		
		Defog: Quick	166	171	65.1	67.1		
		Load Settings Preset1	172	177	67.5	69.4		
		Load Settings Preset2	178	183	69.8	71.8		
		Load Settings Preset3	184	189	72.2	74.1		
		PWM 600 Hz (5s hold)	190	195	74.5	76.5		
		PWM: 2200 Hz (5s hold)	196	201	76.9	78.8		
		PWM: 3000 Hz (5s hold)	202	207	79.2	81.2		
		PWM: 4800 Hz (5s hold)	208	213	81.6	83.5		
		PWM: 9600 Hz (5s hold)	214	219	83.9	85.9		
		PWM: 25 kHz (5s hold)	220	225	86.3	88.2		
		No function	226	231	88.6	90.6		
		Return to default settings	232	237	91.0	92.9		
		Reset Pan/Tilt (3s hold)	238	243	93.3	95.3		
		Reset Head (3s hold)	244	249	95.7	97.6		
		Reset All (3s hold)	250	255	98.0	100		

DMX Mode 2: Standard

22 DMX Channels

1 Pan Pan leff-right 0 65535 0 100 32767 Fc 3 Tilt Tilt up-down 0 65535 0 100 32767 Fc 5 Dimmer Intensity 0-100% 0 65535 0 100 32767 Fc 6 Dimmer Intensity 0-100% 0 65535 0 100 32767 Fc 6 Dimmer Intensity 0-100% 0 4 0 1.6 Single flash when change on dimmer 5 9 2.0 3.5 3.5 7 Shufter Sync ramp up-down slow-fast 40 69 15.7 27.1 8 Sync ramp up-down slow-fast 100 129 32.2 50.6 88.8 80 51.0 62.4 80.0 Sync ramp up-down slow-fast 130 159 51.0 62.4 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0<	Channel		Command		DMX range		Percent		Fade
2 Pon fine Pon fine Pon fine O 65535 0 100 32/67 Prof. 3 Tilt Tilt up-down 0 65535 0 100 32767 Fc 5 Dimmer Intensity 0-100% 0 45535 0 100 32767 Fc 6 Dimmer fine Shutter closed 0 4 0 1.6 Signer comp up slow-fost 10 39 3.9 15.3 7 Shufter Sync romp up clown slow-fost 100 122 3.8 0 Sr 8 Sync romp up-clown slow-fost 130 159 51.0 62.4 Random strobe pikel (slow-fost) 130 159 51.0 62.4 Random strobe pikel (slow-fost) 160 197 62.7 78.0 8 Off (RGBW) 0 7 0 2.7 78.0 Sr	1			Tur					Tuuc
3 Tilt 4 Tilt up-down 0 65335 0 100 32767 Fc 6 Dimmer binmer Intensity 0-100% 0 65335 0 100 32767 Fc 6 Dimmer fine Intensity 0-100% 0 45335 0 100 32767 Fc 7 Shufter Single fish when change on dimmer channel 5 9 2.0 3.5 3.5 9 Color comp up slow-fast 40 69 15.7 27.1 8.8 0 Sr 9 Shufter Sync ramp up-down slow-fast 100 129 92.2 50.6 62.4 Ra 9 Color double fidsh (slow-fast) 130 159 51.0 62.4 Ra 63.0 9 Color 01 - Red 8 15 31.1 57 51.0 62.4 Ra 9 Color 03 - Warm Yellow 24 31 9.4 12.2 63.7 55 55 55 55			Pan left-right	0	65535	0	100	32767	Fade
4 11H fine 11H fine 11H fine 11U p-30Wn 0 65335 0 100 32/67 Fc 5 Dimmer fine Intensity 0-100% 0 65535 0 100 32/67 Fc 6 Dimmer fine Shutter closed 0 4 0 1.6 3.5 7 Shutter Single flash when change on dimmer channel 5 9 2.0 3.5 9 Sync ramp up slow-fast 100 39 3.9 15.3 3.7 7 Shutter Sync ramp up-down slow-fast 100 129 39.2 50.6 8 Color dom strobe pixel (slow-fast) 130 159 51.0 62.7 78.0 9 Color 01 - Red 8 15 3.1 5.9 50.6 62.7 78.0 9 Off (RG8W) 0 7 0 2.7 78.4 79.5 100 12.2 12.5 15.3 12.5 15.3 75.7 <									
5 Dimmer fine Dimmer fine Intensity 0-100% 0 65535 0 100 32767 Fc 6 Dimmer fine Shutter closed 0 4 0 1.6 5 9 2.0 3.5 5 7 7 Shutter closed 0 4 0 1.6 5 9 2.0 3.5 5 7 7 Snot for cramp up slow-fast 10 39 3.9 15.3 5 5 7 7 3.5 5 Sync ramp up-down slow-fast 40 69 15.7 27.1 5 3.8 0 Sr Sync ramp up-down slow-fast 100 129 32.2 50.6 8 8 60 Sr Sr Sr Sr Sr Color 62.0 7 78.0 Sync strobe (1 Hz-10 Hz) 200 250 78.4 100 122 78.0 Sr Sr <th></th> <th></th> <th>Tilt up-down</th> <th>0</th> <th>65535</th> <th>0</th> <th>100</th> <th>32767</th> <th>Fade</th>			Tilt up-down	0	65535	0	100	32767	Fade
6 Dimmer fine Internstry U-100% 0 65333 0 100 32/6/ rc Shutter closed 0 4 0 1.6 0 0 7 0 2.7 78.0 0 0 7 0 2.7 78.0 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 </th <th></th> <th></th> <th></th> <th>•</th> <th>15505</th> <th>•</th> <th>100</th> <th>007/7</th> <th>- I</th>				•	15505	•	100	007/7	- I
Shutter closed 0 4 0 1.6 Single flash when change on dimmer channel 5 9 2.0 3.5 Sync ramp up slow-fast 10 39 3.9 15.3 Sync ramp down slow-fast 40 69 15.7 27.1 Sync ramp up down slow-fast 70 97 27.5 38.8 0 5 Sync double flash (slow-fast) 100 129 39.2 50.6 6 Random strobe pixel (slow-fast) 130 159 51.0 62.4 8 Random strobe oll (slow-fast) 130 159 51.0 62.4 8 15 3.1 5.9 Color 01 - Red 8 15 3.1 5.9 5.7 </th <th></th> <th></th> <th>Intensity 0–100%</th> <th>0</th> <th>65535</th> <th>0</th> <th>100</th> <th>32/6/</th> <th>Fade</th>			Intensity 0–100%	0	65535	0	100	32/6/	Fade
8 Color wheel effect Single flash when change on dimmer channel 5 9 2.0 3.5 7 Shutter Sync ramp up slow-fast 10 39 3.9 15.3 Sync ramp up slow-fast 40 69 15.7 27.1 3.8.8 Sync double flash (slow-fast) 100 129 39.2 50.6 Random strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe oll (slow-fast) 130 159 51.0 62.4 Random strobe oll (slow-fast) 160 199 62.7 78.0 Sync strobe (1 Hz-10 Hz) 200 255 98.4 100 Off (RGBW) 0 7 0 2.7 Color 03 - Nam Yellow 24 31 9.4 12.2 Color 04 - Yellow 32 39 12.5 38.4 100 100 12.4 31 9.4 12.2 12.2 12.4 31 9.4 12.2 12.2 12.5 38.3 16.5 31.4 34.1			Shutter closed	0	4	0	1.6		
Shutter Sync ramp down slow-fast 40 69 15.7 27.1 Sync ramp up-down slow-fast 70 99 27.5 38.8 0 Sr Sync double flash (slow-fast) 100 129 39.2 50.6 30.6 Random strobe pixel (slow-fast) 130 159 51.0 62.4 62.4 Random strobe oli (slow-fast) 160 199 62.7 78.0 5 Sync strobe (1 Hz-10 Hz) 200 255 78.4 98.0 5 5 Shutter open 251 255 84.4 100 5			•	5	9	2.0	3.5		
7 Shutter Sync ramp up-down slow-fast Sync double flash (slow-fast) 70 99 27.5 38.8 0 Sr Random strobe pixel (slow-fast) 130 129 39.2 50.6 Signe double flash (slow-fast) 130 159 51.0 62.4 Random strobe all (slow-fast) 130 159 51.0 62.4 Random strobe all (slow-fast) 130 159 51.0 62.4 Random strobe all (slow-fast) 130 159 62.7 78.0 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 51.1 5.7 57.7 56.4 100 70 0 2.7 75.0 55.7 57.7			Sync ramp up slow-fast	10	39	3.9	15.3		
8 Color wheel effect Sync double flash (slow-fast) 100 129 39.2 50.6 Random strobe pikel (slow-fast) 130 159 51.0 62.4 Random strobe pikel (slow-fast) 160 199 62.7 78.0 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 Shutter open 251 255 98.4 100 Off (RGBW) 0 7 0 2.7 Color 02 - Amber 16 23 6.3 9.0 Color 03 - Warm Yellow 24 31 9.4 12.2 Color 04 - Yellow 32 39 12.5 15.3 Color 05 - Green 40 47 15.7 18.4 Color 06 - Turquoise 48 55 18.8 21.6 Color 07 - Cyan 56 63 22.0 24.7 Color 10 - Mauve 80 87 31.4 34.1 Color 12 - Pink 96 103 37.6 40.4 <td< th=""><th></th><th></th><td>Sync ramp down slow-fast</td><td>40</td><td>69</td><td>15.7</td><td>27.1</td><td></td><td></td></td<>			Sync ramp down slow-fast	40	69	15.7	27.1		
Sync double flash (slow-fast) 100 129 39.2 50.4 Random strobe pikel (slow-fast) 130 159 51.0 62.4 Random strobe pikel (slow-fast) 160 199 62.7 78.0 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 Shutter open 251 255 98.4 100 Color 01- Red 8 15 3.1 5.9 Color 02 - Amber 16 23 6.3 9.0 Color 03 - Warm Yellow 24 31 9.4 12.5 Color 04 - Yellow 32 39 12.5 18.4 Color 05 - Green 40 47 15.7 18.4 Color 07 - Cyan 56 63 22.0 24.7 Color 08 - Blue 64 71 25.1 27.8 Color 10 - Mauve 80 87 31.4 34.1 Color 12 - Pink 96 103 37.6 40.4 Color 13 - White 3200K 104	7	Shutter	Sync ramp up-down slow-fast	70	99	27.5	38.8	0	Snap
Random strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe all (slow-fast) 160 199 62.7 78.0 Sync strobe (1 Hz-10 Hz) 200 255 78.4 98.0 Shutter open 251 255 78.4 98.0 Off (RGBW) 0 7 0 2.7 Color 01 - Red 8 15 3.1 5.9 Color 02 - Amber 16 23 6.3 9.0 Color 04 - Yellow 32 39 12.5 15.3 Color 05 - Green 40 47 15.7 18.4 Color 07 - Cyan 56 63 22.0 24.7 Color 08 - Blue 64 71 25.1 27.8 Color 01 - Mauve 80 87 31.4 34.1 Color 11 - Magenta 88 95 34.5 37.3 Color 12 - Pink 96 103 37.6 40.4 Color 13 - White 3200K 111 40.8				100	129		50.6		
Random strobe all (slow-fast) 160 199 62.7 78.0 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 Shutter open 251 255 98.4 100 Shutter open 251 255 98.4 100 Color 01 - Red 8 15 3.1 5.9 Color 02 - Amber 16 23 6.3 9.0 Color 03 - Warm Yellow 24 31 9.4 12.2 Color 04 - Yellow 32 39 12.5 15.3 Color 05 - Green 40 47 15.7 18.4 Color 06 - Turquoise 48 55 18.8 21.6 Color 07 - Cyan 56 63 22.0 24.7 Color 10 - Mauve 80 87 31.4 34.1 Color 11 - Magenta 72 79 28.2 31.0 Color 13 - White 3200K 104 111 40.8 43.5 Color 13 - White 3200K 102 127									
Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 Shutter open 251 255 98.4 100 0 7 0 2.7 Sr Color 01- Red 8 15 3.1 5.9 Sr Sr Color 02- Amber 16 23 6.3 9.0 Color 02- Amber 16 23 6.3 9.0 Sr Color 03- Warm Yellow 24 31 9.4 12.2 Sr Color 03- Warm Yellow 32 39 12.5 15.3 Sr Sr Color 05- Green 40 47 15.7 18.4 Sr Sr Color 07- Cyan 56 6.3 22.0 24.7 Sr Sr Color 06- Turquoise 48 55 18.8 21.6 Sr Sr <th></th> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Shutter open 251 255 98.4 100 Image: Shutter open 0 7 0 2.7 Sr Color 01 - Red 8 15 3.1 5.9 Sr Color 02 - Amber 16 2.3 6.3 9.0 Sr Color 03 - Warm Yellow 24 31 9.4 12.2 Sr Color 04 - Yellow 32 39 12.5 15.3 Sr Color 05 - Green 40 47 15.7 18.4 Sr Color 07 - Cyan 56 63 22.0 24.7 Color 10 - Mauve 80 87 31.4 34.1 Color 11 - Magenta 88 95 34.5 37.3 Color 12 - Pink 96 103 37.6 40.4									
8 Color wheel effect Off (RGBW) Color 02 - Amber 0 7 0 2.7 Sr Color 02 - Amber Sr Color 02 - Amber 16 23 6.3 9.0 Color 03 - Warm Yellow 24 31 9.4 112.2 15.3 Sr Color 03 - Warm Yellow 32 39 12.5 15.3 Color 04 - Yellow 32 39 12.5 15.3 Sr Sr Color 05 - Green 40 47 15.7 18.4 Sr Sr Color 06 - Turquoise 48 55 18.8 21.6 Sr Sr Color 07 - Cyan 56 63 22.0 24.7 Sr Sr Color 09 - Lavender 72 79 28.2 31.0 Sr Sr Color 11 - Magenta 88 95 34.5 37.3 Sr Sr Color 13 - White 3200K 104 111 40.8 43.5 Sr Sr Color 15 - White 7200K 120 127 47.1 44.8								-	
8 Color 01 - Red 8 15 3.1 5.9 Color 02 - Amber 16 23 6.3 9.0 Color 03 - Warm Yellow 24 31 9.4 12.2 Color 04 - Yellow 32 39 12.5 15.3 Color 05 - Green 40 47 15.7 18.4 Color 07 - Cyan 56 63 22.0 24.7 Color 08 Blue 64 71 25.1 27.8 Color 10 - Mauve 80 87 31.4 34.1 Color 11 - Magenta 88 95 34.5 37.3 Color 12 - Pink 96 103 37.6 40.4 Color 13 - White 3200K 104 111 40.8 45.5 Color 14 - White 5600K 112 129									Snap
8 Color 02 - Amber Color 03 - Warm Yellow 24 31 9.4 12.2 (3) Sr Color 04 - Yellow 32 39 12.5 15.3 (5) Sr Color 05 - Green 40 47 15.7 18.4 (2) Sr Color 06 - Turquoise 48 55 18.8 21.6 Sr Color 07 - Cyan 56 63 22.0 24.7 Color 07 - Cyan 56 63 22.0 24.7 Color 07 - Lavencier 72 79 28.2 31.0 Color 10 - Mauve 80 87 31.4 34.1 Color 10 - Mauve 80 87 31.4 34.1 Color 11 - Magenta 88 95 34.5 37.3 Color 12 - Pink 96 103 37.6 40.4 Color 13 - White 3200K 104 111 40.8 43.5 Stop 120 127 47.1 48.7 Stop 120 127 7.1 48.6 <th></th> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Snap</td>									Snap
B Color 03 - Warm Yellow 24 31 9.4 12.2 Color 04 - Yellow 32 39 12.5 15.3 Sr Color 05 - Green 40 47 15.7 18.4 Sr Color 06 - Turquoise 48 55 18.8 21.6 Sr Color 06 - Turquoise 48 55 18.8 21.6 Sr Color 07 - Cyan 56 63 22.0 24.7 Sr Color 07 - Cyan 56 64 71 25.1 27.8 Color 07 - Lavender 72 79 28.2 31.0 O Sr Color 11 - Magenta 88 95 34.5 37.3 Color 12 - Pink Sd 104 111 40.8 43.5 Color 13 - White 3200K 104 111 40.8 43.5 Sr Sr Color 14 - White 5600K 112 119 43.9 46.7 Sr Color 15 - White 7200K 120 127 47.1 49									Snap
B Color wheel effect Color 04 - Yellow 32 39 12.5 15.3 8 Color 05 - Green 40 47 15.7 18.4 Sr Color 06 - Turquoise 48 55 18.8 21.6 Sr Sr Color 08 - Blue 64 71 25.1 27.8 Sr Sr Color 09 - Lavender 72 79 28.2 31.0 Sr Sr Color 10 - Mauve 80 87 31.4 34.1 Sr Sr Color 11 - Magenta 88 95 34.5 37.3 Sr Sr Color 12 - Pink 96 103 37.6 40.4 Sr Sr Color 14 - White 3200K 112 119 43.9 46.7 Sr Sr Color 15 - White 7200K 120 127 47.1 49.8 Sr Sr Stop 128 128 50.2 50.2 Sr Sr Random colors crossfade slow > fast								0	Snap
8 Color wheel effect Color 05 - Green 40 47 15.7 18.4 8 Color 06 - Turquoise 48 55 18.8 21.6 Sr Color 07 - Cyan 56 63 22.0 24.7 Sr Sr Color 08 - Blue 64 71 25.1 27.8 31.0 Sr Color 10 - Mauve 80 87 31.4 34.1 Sr Sr Color 11 - Magenta 88 95 34.5 37.3 Sr Sr Color 12 - Pink 96 103 37.6 40.4 Sr Sr Color 13 - White 3200K 104 111 40.8 43.5 Sr Sr Color 15 - White 7200K 120 127 47.1 49.8 Sr Sr Stop 128 128 50.2 50.2 Sr Sr Rainbow colors crossfade slow > fast 129 223 50.6 87.5 Random colors crossfade slow > fast 128									Snap
8 Color wheel effect Color 06 - Turquoise 48 55 18.8 21.6 Sr 0 Sr Color 07 - Cyan 56 63 22.0 24.7 Sr Sr Color 08 - Blue 64 71 25.1 27.8 Sr Sr Color 09 - Lavender 72 79 28.2 31.0 Sr Sr Color 11 - Magenta 88 95 34.5 37.3 Sr Sr Color 12 - Pink 96 103 37.6 40.4 Sr Sr Color 13 - White 3200K 104 111 40.8 43.5 Sr Color 14 - White 5600K 112 119 43.9 46.7 Sr Color 15 - White 7200K 120 127 47.1 49.8 Sr Stop 128 50.2 50.2 Sr Sr Sr Rainbow colors crossfade slow > fast 129 223 50.6 87.5 Random colors crossfade slow > fast 224 <th></th> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Snap</td>									Snap
8 Color wheel effect Color 07 - Cyan 56 63 22.0 24.7 Color 08 - Blue 64 71 25.1 27.8 5r Color 09 - Lavender 72 79 28.2 31.0 5r Color 10 - Mauve 80 87 31.4 34.1 3r.1 3r.1 3r.1 3r.1 3r.1 3r.1 3r.1 Color 10 - Mauve 80 87 31.4 3r.1 Sr Sr Color 11 - Magenta 88 95 34.5 37.3 Color 12 - Pink 96 103 37.6 40.4 Sr Sr Color 13 - White 3200K 104 111 40.8 43.5 Sr Sr Sr Color 14 - White 5600K 112 119 43.9 46.7 Sr <									Snap
8 Color wheel effect Color 08 - Blue 64 71 25.1 27.8 Sr Color 09 - Lavender 72 79 28.2 31.0 Sr Sr Color 10 - Mauve 80 87 31.4 34.1 Sr Sr Color 11 - Magenta 88 95 34.5 37.3 Sr Sr Color 12 - Pink 96 103 37.6 40.4 Sr Sr Color 13 - White 3200K 104 111 40.8 43.5 Sr Sr Color 13 - White 3200K 102 127 47.1 49.8 Sr Sr Color 15 - White 7200K 120 127 47.1 49.8 Sr Sr Stop 128 128 50.2 50.2 Sr Sr Sr Ramdom colors crossfade slow > fast 129 223 50.6 87.5 R 10000 16 18 6.3 7.1 990 990 970 22									Snap
8 Color wheel effect Color 09 - Lavender 72 79 28.2 31.0 0 Sr Color 10 - Mauve 80 87 31.4 34.1 34.1 Sr Sr Color 11 - Magenta 88 95 34.5 37.3 Color 12 - Pink 96 103 37.6 40.4 Color 13 - White 3200K 104 111 40.8 43.5 Sr Sr Sr Sr Color 15 - White 3200K 104 111 40.8 46.7 Sr				64					Snap
P Color 10 - Mauve 80 87 31.4 34.1 Sr Color 11 - Magenta 88 95 34.5 37.3 Sr Color 12 - Pink 96 103 37.6 40.4 Sr Color 13 - White 3200K 104 111 40.8 43.5 Sr Color 14 - White 5600K 112 119 43.9 46.7 Sr Color 15 - White 7200K 120 127 47.1 49.8 Sr Stop 128 128 50.2 50.2 Sr R Rainbow colors crossfade slow > fast 129 223 50.6 87.5 Fc Random colors crossfade slow > fast 129 223 50.6 87.5 Fc 10000 16 18 6.3 7.1 990 Fc 9900 22 24 8.6 9.4 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 93.1	8		Color 09 - Lavender	72	79	28.2	31.0		Snap
Color 12 - Pink 96 103 37.6 40.4 Color 13 - White 3200K 104 111 40.8 43.5 Color 14 - White 3200K 112 119 43.9 46.7 Color 15 - White 7200K 120 127 47.1 49.8 Stop 128 128 50.2 50.2 Rainbow colors crossfade slow > fast 129 223 50.6 87.5 Random colors crossfade slow > fast 224 255 87.8 100 RAW 0 15 0 5.9 10000 16 18 6.3 7.1 9900 19 21 7.5 8.2 9800 22 24 8.6 9.4 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 9600 28 30 11.0 11.8 9600 34 36 13.3 14.1 9300 <t< th=""><th></th><td rowspan="5">епест</td><td>Color 10 - Mauve</td><td>80</td><td>87</td><td>31.4</td><td>34.1</td><td>Snap</td></t<>		епест	Color 10 - Mauve	80	87	31.4	34.1		Snap
Color 13 - White 3200K 104 111 40.8 43.5 Color 14 - White 5600K 112 119 43.9 46.7 Color 15 - White 7200K 120 127 47.1 49.8 Stop 128 128 50.2 50.2 Rainbow colors crossfade slow > fast 129 223 50.6 87.5 Random colors crossfade slow > fast 224 255 87.8 100 Fc RAW 0 15 0 5.9 10000 16 18 6.3 7.1 9900 19 21 7.5 8.2 9800 22 24 8.6 9.4 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 9500 31 33 12.2 12.9 9400 34 36 13.3 14.1 9300 37 39 14.5 15.3 9200			Color 11 - Magenta	88	95	34.5	37.3		Snap
Color 14 - White 5600K 112 119 43.9 46.7 Color 15 - White 7200K 120 127 47.1 49.8 Stop 128 128 50.2 50.2 Rainbow colors crossfade slow > fast 129 223 50.6 87.5 Random colors crossfade slow > fast 129 223 50.6 87.5 Random colors crossfade slow > fast 224 255 87.8 100 RAW 0 15 0 5.9 10000 16 18 6.3 7.1 9900 19 21 7.5 8.2 9800 22 24 8.6 9.4 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 9500 31 33 12.2 12.9 92.0 9400 34 36 13.3 14.1 9300 37 39 14.5 15.3 9200 40 42 15.7 16.5 <th></th> <td>Color 12 - Pink</td> <td>96</td> <td>103</td> <td>37.6</td> <td>40.4</td> <td>Snap</td>			Color 12 - Pink	96	103	37.6	40.4		Snap
Color 15 - White 7200K 120 127 47.1 49.8 Sr Stop 128 128 50.2 50.2 Sr Sr Rainbow colors crossfade slow > fast 129 223 50.6 87.5 Fc Random colors crossfade slow > fast 224 255 87.8 100 Fc RAW 0 15 0 5.9 10000 16 18 6.3 7.1 9900 19 21 7.5 8.2 9800 22 24 8.6 9.4 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 9500 31 33 12.2 12.9 9400 34 36 13.3 14.1 9300 37 39 14.5 15.3 9200 40 42 15.7 16.5 9100 43 45 16.9 17.6 9000 46 48 18.0 18			Color 13 - White 3200K	104	111	40.8	43.5		Snap
Stop 128 128 50.2 50.2 Rainbow colors crossfade slow > fast 129 223 50.6 87.5 Random colors crossfade slow > fast 224 255 87.8 100 RAW 0 15 0 5.9 50.6 87.5 10000 16 18 6.3 7.1 9900 19 21 7.5 8.2 9800 22 24 8.6 9.4 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 9500 31 33 12.2 12.9 9400 34 36 13.3 14.1 9300 37 39 14.5 15.3 9200 40 42 15.7 16.5 9100 43 45 16.9 17.6 9000 46 48 18.0 18.8									Snap
Rainbow colors crossfade slow > fast 129 223 50.6 87.5 Fc Random colors crossfade slow > fast 224 255 87.8 100 Fc RAW 0 15 0 5.9 10000 16 18 6.3 7.1 9900 19 21 7.5 8.2 9800 222 24 8.6 9.4 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 9500 31 33 12.2 12.9 9300 37 39 14.5 15.3 9200 40 42 15.7 16.5 9100 43 45 16.9 17.6 9000 46 48 18.0 18.8 18.8 18.8									Snap
Random colors crossfade slow > fast 224 255 87.8 100 Fc RAW 0 15 0 5.9 10000 16 18 6.3 7.1 9900 19 21 7.5 8.2 9800 22 24 8.6 9.4 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 9500 31 33 12.2 12.9 92.9 14.5 15.3 9200 37 39 14.5 15.3 92.0 40 42 15.7 16.5 9100 43 45 16.9 17.6 9000 46 48 18.0 18.8									Snap
RAW 0 15 0 5.9 10000 16 18 6.3 7.1 9900 19 21 7.5 8.2 9800 22 24 8.6 9.4 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 9500 31 33 12.2 12.9 9400 34 36 13.3 14.1 9300 37 39 14.5 15.3 9200 40 42 15.7 16.5 9100 43 45 16.9 17.6 9000 46 48 18.0 18.8									Fade
P 10000 16 18 6.3 7.1 9900 19 21 7.5 8.2 9800 22 24 8.6 9.4 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 9500 31 33 12.2 12.9 9400 34 36 13.3 14.1 9300 37 39 14.5 15.3 9200 40 42 15.7 16.5 9100 43 45 16.9 17.6 9000 46 48 18.0 18.8									Fade
9900 19 21 7.5 8.2 9800 22 24 8.6 9.4 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 9500 31 33 12.2 12.9 9400 34 36 13.3 14.1 9300 37 39 14.5 15.3 9200 40 42 15.7 16.5 9100 43 45 16.9 17.6 9000 46 48 18.0 18.8						-			
9 9800 22 24 8.6 9.4 9700 25 27 9.8 10.6 9600 28 30 11.0 11.8 9500 31 33 12.2 12.9 9400 34 36 13.3 14.1 9300 37 39 14.5 15.3 9200 40 42 15.7 16.5 9100 43 45 16.9 17.6 9000 46 48 18.0 18.8								-	
9 Color Temperature (Kelvin) 9700 25 27 9.8 10.6 9 9600 28 30 11.0 11.8 9500 31 33 12.2 12.9 9400 34 36 13.3 14.1 9300 37 39 14.5 15.3 9200 40 42 15.7 16.5 9100 43 45 16.9 17.6 9000 46 48 18.0 18.8								_	
9 Color Temperature (Kelvin) 9600 28 30 11.0 11.8 9500 31 33 12.2 12.9 9400 34 36 13.3 14.1 9300 37 39 14.5 15.3 9200 40 42 15.7 16.5 9100 43 45 16.9 17.6 9000 46 48 18.0 18.8									
P Color Temperature (Kelvin) 9500 31 33 12.2 12.9 </th <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
9 Temperature (Kelvin) 9400 34 36 13.3 14.1 9300 37 39 14.5 15.3 9200 40 42 15.7 16.5 9100 43 45 16.9 17.6 9000 46 48 18.0 18.8		Calar						-	
(Kelvin) 9300 37 39 14.5 15.3 9200 40 42 15.7 16.5 9100 43 45 16.9 17.6 9000 46 48 18.0 18.8	0	Temperature						-	Spap
9200404215.716.59100434516.917.69000464818.018.8	7								Snap
9100434516.917.69000464818.018.8									
9000 46 48 18.0 18.8									
								1	
			8900	40	51	19.2	20.0	1	
8800 52 54 20.4 21.2								1	
8700 55 57 21.6 22.4								1	

	1	1	T	1	
	8600	58	60	22.7	23.5
	8500	61	63	23.9	24.7
	8400	64	66	25.1	25.9
	8300	67	69	26.3	27.1
	8200	70	72	27.5	28.2
	8100	73	75	28.6	29.4
	8000	76	78	29.8	30.6
	7900	79	81	31.0	31.8
	7800	82	84	32.2	32.9
	7700	85	87	33.3	34.1
	7600	88	90	34.5	35.3
	7500	91	93	35.7	36.5
	7400	94	96	36.9	37.6
	7300	97	99	38.0	38.8
	7200	100	102	39.2	40.0
	7100	103	105	40.4	41.2
	7000	106	108	41.6	42.4
	6900	109	111	42.7	43.5
	6800	112	114	43.9	44.7
	6700	112	117	45.1	45.9
	6600	118	120	46.3	47.1
	6500	121	120	47.5	48.2
	6400	121	125	47.5	49.4
	6300	124	120	40.0	50.6
	6200		132		
		130		51.0	51.8
	6100	133	135	52.2	52.9
	6000	136	138	53.3	54.1
	5900	139	141	54.5	55.3
	5800	142	144	55.7	56.5
	5700	145	147	56.9	57.6
	5600	148	150	58.0	58.8
	5500	151	153	59.2	60.0
	5400	154	156	60.4	61.2
	5300	157	159	61.6	62.4
	5200	160	162	62.7	63.5
	5100	163	165	63.9	64.7
	5000	166	168	65.1	65.9
	4900	169	171	66.3	67.1
	4800	172	174	67.5	68.2
	4700	175	177	68.6	69.4
	4600	178	180	69.8	70.6
	4500	181	183	71.0	71.8
	4400	184	186	72.2	72.9
	4300	187	189	73.3	74.1
	4200	190	192	74.5	75.3
	4100	193	195	75.7	76.5
	4000	196	198	76.9	77.6
1	2000	199	201	78.0	78.8
	3900	177			
	3800	202	201	79.2	80.0
	3800	202	204	79.2	80.0
	3800 3700	202 205 208	204 207 210	79.2 80.4	80.0 81.2
	3800 3700 3600	202 205 208 211	204 207 210 213	79.2 80.4 81.6 82.7	80.0 81.2 82.4 83.5
	3800 3700 3600 3500 3400	202 205 208 211 214	204 207 210 213 216	79.2 80.4 81.6 82.7 83.9	80.0 81.2 82.4 83.5 84.7
	3800 3700 3600 3500 3400 3300	202 205 208 211 214 217	204 207 210 213 216 219	79.2 80.4 81.6 82.7 83.9 85.1	80.0 81.2 82.4 83.5 84.7 85.9
	3800 3700 3600 3500 3400 3300 3200	202 205 208 211 214 217 220	204 207 210 213 216 219 222	79.2 80.4 81.6 82.7 83.9 85.1 86.3	80.0 81.2 82.4 83.5 84.7 85.9 87.1
	3800 3700 3600 3500 3400 3300	202 205 208 211 214 217	204 207 210 213 216 219	79.2 80.4 81.6 82.7 83.9 85.1	80.0 81.2 82.4 83.5 84.7 85.9

36





		2800	232	234	91.0	91.8		
		2700	235	237	92.2	92.9		
		2600	238	240	93.3	94.1		
		2500	241	255	94.5	100		
10 11	Red Red fine	Red intensity 0–100%	0	65535	0	100	32767	Fade
12 13	Green Green fine	Green intensity 0–100%	0	65535	0	100	32767	Fade
14 15	Blue Blue fine	Blue intensity 0–100%	0	65535	0	100	32767	Fade
16 17	White White fine	White intensity 0–100%	0	65535	0	100	32767	Fade
17	Wille lille	Static pattern	0	51	0	20.0		
		Chase animation	52	131	20.4	51.4	-	
18	Pattern	Fade animation	132	211	51.8	82.7	0	Snap
		Random	212	255	83.1	100		
19	Pattern speed	Slow-fast	0	255	0	100	0	Fade
20	Pattern fade	Slow crossfade-snap	0	255	0	100	0	Fade
21	Zoom	Wide-narrow	0	255	0	100	0	Fade
		No function	0	9	0.0	3.5		
		Dimmer curve: Extra-soft (3s hold)	10	15	3.9	5.9		
		Dimmer curve: Linear (3s hold)	16	21	6.3	8.2		
		Display mode: Auto (3s hold)	22	27	8.6	10.6		
		Display mode: On (3s hold)	28	33	11.0	12.9	-	
		Display mode: Off (3s hold)	34	39	13.3	15.3		
		Display orientation: Normal (3s hold)	40	45	15.7	17.6		
		Display orientation: Inverted (3s hold)	40	51	18.0	20.0		
		No DMX: Blackout (3s hold)	52	57	20.4	20.0		
		No DMX: Hold (3s hold)	58	63	20.4	24.7		
		No DMX: Stand-alone (3s hold)	64	69	25.1	27.1		
		Fan mode: Regulated (3s hold)	70	75	27.5	27.1		
		Fan mode: High (3s hold)	76	81	27.3	31.8		
		Fan mode: Medium (3s hold)	82	87	32.2	34.1		
		Fan mode: Low (3s hold)	88	93	34.5	36.5		
		Position feedback: Off (3s hold)	94	99	36.9	38.8		
		Position feedback: On (3s hold)	100	105	39.2	41.2		
	Control /	No function	100	117	41.6	45.9		
22	Settings	Tilt inversion: Off (3s hold)	118	123	46.3	48.2	0	Snap
	oenings	Tilt inversion: On (3s hold)	124	129	48.6	50.6		
		Pan inversion: Off (3s hold)	130	135	51.0	52.9	-	
		Pan inversion: On (3s hold)	136	141	53.3	55.3		
		Zoom inversion: Off (3s hold)	142	147	55.7	57.6		
		Zoom inversion: On (3s hold)	148	153	58.0	60.0	-	
		Defog: Off	154	159	60.4	62.4		
		Defog: On	160	165	62.7	64.7		
		Defog: Quick	166	171	65.1	67.1		
		Load Settings Preset1	172	177	67.5	69.4		
		Load Settings Preset2	172	183	69.8	71.8	1	
		Load Settings Preset3	184	189	72.2	74.1	1	
		PWM: 600 Hz (5s hold)	190	195	74.5	76.5	1	
		PWM: 2200 Hz (5s hold)	196	201	76.9	78.8	1	
		PWM: 3000 Hz (5s hold)	202	201	79.2	81.2	1	
		PWM: 4800 Hz (5s hold)	202	213	81.6	83.5	1	
		PWM: 9600 Hz (5s hold)	208	213	83.9	85.9	1	
		PWM: 25 kHz (5s hold)	214	217	86.3	88.2	-	
		1 WWW. ZJ KAZ (JS HUIU)	220	223	00.3	00.Z		

No function	226	231	88.6	90.6	
Return to default settings	232	237	91.0	92.9	
Reset Pan/Tilt (3s hold)	238	243	93.3	95.3	
Reset Head (3s hold)	244	249	95.7	97.6	
Reset All (3s hold)	250	255	98.0	100	

DMX Mode 3: Extended

37 DMX Channels

		Command	DA ran	٨X	Perc	ent	Default DMX	Fade
1	Pan	Command		Ĭ			DINK	Tuuc
2	Pan fine	Pan left-right	0	65535	0	100	32767	Fade
3	Tillt							
4	Tilt fine	Tilt up-down	0	65535	0	100	32767	Fade
5	Dimmer							
6	Dimmer fine	Intensity 0–100%	0	65535	0	100	32767	Fade
		Shutter closed	0	4	0	1.6		
		Single flash when change on dimmer						
		channel	5	9	2.0	3.5		
		Sync ramp up slow-fast	10	39	3.9	15.3		
		Sync ramp down slow-fast	40	69	15.7	27.1		
7	Shutter	Sync ramp up-down slow-fast	70	99	27.5	38.8	0	Snap
		Sync double flash (slow-fast)	100	129	39.2	50.6	-	1-
		Random strobe pixel (slow-fast)	130	159	51.0	62.4		
		Random strobe all (slow-fast)	160	199	62.7	78.0		
		Sync strobe (1 Hz–10 Hz)	200	250	78.4	98.0		
		Shutter open	251	255	98.4	100		
		Off (RGBW)	0	7	0	2.7		Snap
		Color 01 - Red	8	15	3.1	5.9		Snap
		Color 02 - Amber	16	23	6.3	9.0		Snap
		Color 03 - Warm Yellow	24	31	9.4	12.2		Snap
		Color 04 - Yellow	32	39	12.5	15.3		Snap
	Color wheel effect	Color 05 - Green	40	47	15.7	18.4	0	Snap
		Color 06 - Turquoise	48	55	18.8	21.6		Snap
		Color 07 - Cyan	56	63	22.0	24.7		Snap
		Color 08 - Blue	64	71	25.1	27.8		Snap
8		Color 09 - Lavender	72	79	28.2	31.0		Snap
		Color 10 - Mauve	80	87	31.4	34.1		Snap
		Color 11 - Magenta	88	95	34.5	37.3		Snap
		Color 12 - Pink	96	103	37.6	40.4		Snap
		Color 13 - White 3200K	104	111	40.8	43.5		Snap
		Color 14 - White 5600K	112	119	43.9	46.7		Snap
		Color 15 - White 7200K	120	127	47.1	49.8		Snap
		Stop	128	128	50.2	50.2		Snap
		Rainbow colors crossfade slow > fast	129	223	50.6	87.5		Fade
		Random colors crossfade slow > fast	224	255	87.8	100		Fade
		RAW 10000	0 16	15 18	0 6.3	5.9 7.1		
		9900	18	21	6.3 7.5	8.2		
		9800	22	24	8.6	9.4		
		9700	25	24	9.8	10.6		
		9600	28	30	11.0	11.8		
		9500	31	33	12.2	12.9		
		9400	34	36	13.3	14.1		
	Color	9300	37	39	14.5	15.3		<u> </u>
9	Temperature	9200	40	42	15.7	16.5		Snap
	(Kelvin)	9100	43	45	16.9	17.6		
		9000	46	48	18.0	18.8		
		8900	49	51	19.2	20.0		
		8800	52	54	20.4	21.2		
		8700	55	57	21.6	22.4		
		8600	58	60	22.7	23.5		
		8500	61	63	23.9	24.7		
		8400	64	66	25.1	25.9		



10			0	65535	0	100	32767	Fade
	Red	2500	241	255	94.5	100		
		2600	238	240	93.3	94.1		
		2700	235	237	92.2	92.9		
		2800	232	234	91.0	91.8		
		2900	229	231	89.8	90.6		
		3000	226	228	88.6	89.4		
		3100	223	225	87.5	88.2		
		3200	220	222	86.3	87.1		
		3300	214	210	85.1	85.9		
		3400	211	213	83.9	84.7		
		3500	208	210	82.7	83.5		
		3600	205 208	207 210	80.4 81.6	81.2 82.4		
		3800 3700	202	204	79.2	80.0		
		3900	199	201	78.0	78.8		
		4000	196	198	76.9	77.6		
		4100	193	195	75.7	76.5		
		4200	190	192	74.5	75.3		
		4300	187	189	73.3	74.1		
		4400	184	186	72.2	72.9		
		4500	181	183	71.0	71.8		
		4600	178	180	69.8	70.6		
		4700	175	177	68.6	69.4		
		4800	172	174	67.5	68.2		
		4900	169	171	66.3	67.1		
		5000	166	168	65.1	65.9		
		5100	163	165	63.9	64.7		
		5200	160	162	62.7	63.5		
		5300	154	156	60.4 61.6	61.2		
		5400	151	153	<u> </u>	60.0		
		5600 5500	148 151	150	58.0 59.2	58.8 60.0		
		5700	145	147 150	56.9	57.6		
		5800	142	144	55.7	56.5		
		5900	139	141	54.5	55.3		
		6000	136	138	53.3	54.1		
		6100	133	135	52.2	52.9		
		6200	130	132	51.0	51.8		
		6300	127	129	49.8	50.6		
		6400	124	126	48.6	49.4		
		6500	121	123	47.5	48.2		
		6600	118	120	46.3	47.1		
		6700	112	114	45.1	45.9		
		6800	112	114	43.9	43.3		
		7000 6900	106 109	108 111	41.6 42.7	42.4 43.5		
		7100	103	105	40.4	41.2		
		7200	100	102	39.2	40.0		
		7300	97	99	38.0	38.8		
		7400	94	96	36.9	37.6		
		7500	91	93	35.7	36.5		
		7600	88	90	34.5	35.3		
		7700	85	87	33.3	34.1		
		7800	82	84	32.2	32.9		
		7900	70	81	31.0	31.8		
		8000	76	73	20.0	30.6		
		8100	70	72	27.5	20.2		
		8300 8200	<u>67</u> 70	69 72	26.3 27.5	27.1 28.2		

13 Green fine Biue fine Green fine Biue intensity 0-100% 0 65335 0 100 32767 F 16 Minite Mine White intensity 0-100% 0 65335 0 100 32767 F 18 Layer 1 Dimmer fine Layer 1 Dimmer fine Layer 1 Dimmer fine Layer 1 (background) intensity 0-100% 0 65535 0 100 32767 F 20 Layer 1 Dimmer fine Layer 1 (background) shufter closed 0 4 0 1.6 Sync ramp up slow-fast 10 39 3.9 15.3 3.7 2.7 3.8 Sync ramp up slow-fast 100 129 39.2 5.0 0 2.4 20 Layer 2 Dimmer fine Sync ramp up down slow-fast 100 129 39.2 5.0 0 5 21 Layer 2 Dimmer fine Sync ramp up dow-fast 100 125 5 8.4 100 23 Layer 2 Dimmer fine Sync ramp up dow-fast 10 39 3.9	10	Creen							
14 Blue Blue intensity 0-100% 0 65335 0 100 32767 F 15 Blue fine White intensity 0-100% 0 65335 0 100 32767 F 18 Layer 1 Dimmering Layer 1 (background) intensity 0-100% 0 65535 0 100 32767 F 19 Layer 1 Dimmering Layer 1 (background) stuffer closed 0 4 0 1.6 30 Carger 1 (background) stuffer closed 0 4 0 1.6 39.7 7.7 6 30 Carger 1 Shutter Sync ramp up-down slow-fast 40 69 15.7 27.1 38.8 0 5 5 9 2.0 3.6 3.7 5 5 7 100 129 39.2 50.6 6.2.4 88.0 0 5 5 7 100 32767 F 5 9 2.0 3.6 3.7 5 5 7 10 3.2.5 5 <th>12</th> <th>Green Green fine</th> <th>Green intensity 0–100%</th> <th>0</th> <th>65535</th> <th>0</th> <th>100</th> <th>32767</th> <th>Fade</th>	12	Green Green fine	Green intensity 0–100%	0	65535	0	100	32767	Fade
15 Blue fine Blue									
16 White IT White intensity 0-100% 0 65335 0 100 32767 F 19 Layer 1 Dimmer fine Layer 1 Dimmer fine Layer 1 (background) intensity 0-100% 0 65335 0 100 32767 F 20 Layer 1 Dimmer fine Layer 1 (background) shufter closed 0 4 0 1.6 Sync ramp up slow-fast 40 69 15.7 27.1 38.8 0 0 65335 0 100 32767 F 20 Layer 1 Shufter Sync ramp up slow-fast 10 10 12 32.7 53.8 0 100 32.767 F 21 Layer 1 Shufter Sync ramp up-down slow-fast 10 12 32.767 F 6 6 6 7 7.10 8 7			Blue intensity 0–100%	0	65535	0	100	32767	Fade
17 Write intensity 0-100% 0 6333 0 100 22/6 r 18 Layer 1 Dimmering fine Layer 1 (background) intensity 0-100% 0 65335 0 100 32767 f 20 Layer 1 Dimmering fine Layer 1 (background) shufter closed 0 4 0 1.6 5 9 2.0 3.5 20 Layer 1 Shufter Sync ramp up slow-fast 10 39 3.9 15.3 Sync ramp up slow-fast 100 129 39.2 50.6 66.6 Sync ramp up slow-fast 100 129 39.2 50.6 66.6 Random strobe pixel (slow-fast) 160 199 62.7 78.6 66.6 Sync strobe [1 Hz-10 Hz] 200 250 78.4 98.0 0 32767 f 21 Layer 2 Othmering Layer 2 (top layer) 0 65535 0 100 32767 f 23 Layer 2 Potterming Intensity 0-100% 0 45535					15505		100	007/7	
18 Loyer 1 Dimmer fine Loyer 1 (background) intensity 0-100% 0 65535 0 100 32767 F 20 Layer 1 Jimmer fine Layer 1 (background) shufter closed 0 4 0 1.6 32767 F 20 Layer 1 Shufter Single flash when change on dimmer channel 5 9 2.0 3.5 3.5 20 Layer 1 Shufter Sinc ramp up slow-fast 100 39 15.3 39.2 15.3 20 Layer 1 Shufter Sinc ramp up slow-fast 100 129 39.2 5.6.6 8.8 0 5 21 Layer 2 Dimmer Since ramp up-down slow-fast 100 129 39.2 5.6.6 8.8 98.0 32767 F 21 Layer 2 Dimmer Isouer 2 (top loyer) 100 129 39.2 5.0.6 8.8 98.0 32767 F 23 Layer 2 Patien Single flash when change on dimmer channel 5 9 2.0 3.5.1 5.9 5.0 6.			White intensity 0–100%	0	65535	0	100	32/6/	Fade
19 Layer 1 (brackground) shuffer closed 0 6333 0 100 32/6/ 1 20 Layer 1 (background) shuffer closed 0 4 0 1.6 3.5 3.5 3.5 3.5 3.5 3.5 20 Layer 1 (background) shuffer closed 0 4 0 1.6 3.5	18	Layer 1 Dimmer							
Ime Layer 1 (background) shufter closed 0 4 0 1.6 20 Layer 1 (background) shufter closed 0 4 0 1.6 3.5 20 Layer 1 Shufter Sync ramp up slow-fast 10 39 3.9 15.3 Sync ramp up slow-fast 10 39 3.9 15.3 27.5 38.8 Sync ramp up down slow-fast 100 129 39.2 50.6 62.4 Random strobe pikel (slow-fast) 130 159 51.0 62.4 62.7 Sync strobe (1 H2-10 Hz) 200 250 78.4 98.0 32767 I tayer 2 (top layer) 0 65535 0 100 32767 F I tayer 2 pattern Shutter closed 0 4 0 1.6 5 Sync ramp up slow-fast 10 39 3.9 15.3 5 5 9 2.0 3.5 Sync ramp up slow-fast 10 39 3.9 15.3 5 5	10	Layer 1 Dimmer		0	65535	0	100	32767	Fade
20 Layer 1 Shutter (channel) Single flosh when change on dimmer (channel) 10 39 3.9 15.3 Sync ramp up slow-fast 10 39 3.9 15.3 Sync ramp up slow-fast 40 69 15.7 27.1 Sync ramp up odown slow-fast 70 99 25.5 38.8 Sync double flash (slow-fast) 100 129 39.2 50.6 Random strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe oll (slow-fast) 130 159 51.0 62.4 Random strobe oll (slow-fast) 0 65535 0 100 32767 Itayer 2 binmer fine Layer 2 (top layer) 0 65535 0 100 32767 Sync ramp up slow-fast 10 39 3.9 15.3 5 5 9 2.0 3.5 Sync ramp up-down slow-fast 70 99 2.7.5 38.8 5 5 9 2.0 3.5 Sync ramp up-down slow-fast	17	fine	,						
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20 Layer 1 Shutter Sync ramp up slow-fast 10 39 3.9 15.3 20 Layer 1 Shutter Sync ramp up-down slow-fast 40 69 15.7 27.1 30 Layer 1 Shutter Sync ramp up-down slow-fast 70 99 27.5 38.8 0 5 20 Layer 1 Shutter Sync couble fields (slow-fast) 130 159 51.0 62.4 Random strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe olid (slow-fast) 160 199 62.7 78.0 Structer open 251 255 98.4 100 32767 F 21 Layer 2 Dimmer Layer 2 (top layer) 0 65535 0 100 32767 F 23 Layer 2 Pottern Sync ramp up-down slow-fast 10 39 3.9 15.3 Sync ramp up-down slow-fast 100 129 3.2 50.6 R Sync ramp up-down slow-fast 100 29 7.2				5	9	2.0	3.5		
20 Layer 1 Shutter Sync ramp up-down slow-fast 40 69 15.7 27.1 20 Layer 1 Shutter Sync ramp up-down slow-fast 70 99 27.5 38.8 0 8 21 Layer 2 Dimmer Random strobe pixel (slow-fast) 130 159 51.0 62.4 21 Layer 2 Dimmer Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 21 Layer 2 Dimmer Layer 2 (top layer) 0 65535 0 100 32767 F 23 Layer 2 Pattern Shutter closed 0 4 0 1.6 Single flash when change on dimmer change 5 9 2.00 3.5 Sync ramp up-down slow-fast 100 39 3.9 15.3 Sync ramp up-down slow-fast 100 129 32.2 50.6 Sync ramp up-down slow-fast 100 129 3.2 50.6 Random strobe pixel (slow-fast) 100 129 3.2 50.6 S S Color S				_					
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22 Dimmer fine Internation 0-100% 0 4 0 1.6 23 Shutter closed 0 4 0 1.6 Single flash when change on dimmer channel 5 9 2.0 3.5 23 Layer 2 Pathern Shutter Sync ramp up slow-fast 10 39 3.9 15.3 Sync ramp up-down slow-fast 40 69 15.7 27.1 38.8 Sync ramp up-down slow-fast 70 99 2.2 50.6 Random strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe all (slow-fast) 160 199 62.7 78.0 Sync strobe (1 Hz-10 Hz) 200 255 98.4 100 100 Color 02 - Amber 16 23 6.3 9.0 2.7 2.5 15.3 5.7 Color 03 - Warm Yellow 24 31 9.4 12.5 15.3 5.5 18.8 <				0	65535	0	100	32767	Fade
23 Shutter closed Single flash when change on dimmer channel 0 4 0 1.6 23 Layer 2 Pattern Shutter Single flash when change on dimmer channel 5 9 2.0 3.5 24 Layer 2 Pattern Shutter Sync ramp up slow-fast 40 69 15.7 27.1 24 Layer 2 Pattern Shutter Sync ramp up-down slow-fast Sync double flash (slow-fast) 100 129 39.2 50.6 25 Sync strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe pixel (slow-fast) 160 199 62.7 78.0 59.0 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 59.0 62.4 Shutter open 251 255 98.4 100 2.7 78.0 59.0 </th <th>22</th> <th></th> <th>intensity 0–100%</th> <th>Ŭ</th> <th>00000</th> <th>0</th> <th>100</th> <th>02/0/</th> <th>1000</th>	22		intensity 0–100%	Ŭ	00000	0	100	02/0/	1000
23 Layer 2 Pattern Shutter Single flash when change on dimmer channel 5 9 2.0 3.5 23 Layer 2 Pattern Shutter Sync ramp up slow-fast 10 39 3.9 15.3 Sync ramp up down slow-fast 10 69 15.7 27.1 38.8 Sync ramp up-down slow-fast 70 99 27.5 38.8 0 5 Sync double flash (slow-fast) 100 129 39.2 50.6 6 Random strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe oill (slow-fast) 100 129 39.2 50.6 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 Shutter open 251 255 98.4 100 Layer 2 (top layer) pattern off (RGBW) 0 7 0 2.7 Color 03 - Warm Yellow 24 31 9.4 12.5 15.3 Color 04 - Fulgowise 48 55 18.8 21.6 5.3 Color			Shutter closed	0	4	0	1.6		
23 Layer 2 Pattern Shutter Channel 5 Y 2.0 3.3 23 Layer 2 Pattern Shutter Sync ramp down slow-fast 10 39 3.9 15.3 Sync ramp down slow-fast 40 69 15.7 27.1 38.8 Sync ramp down slow-fast 100 129 39.2 50.6 Random strobe pixel (slow-fast) 100 129 39.2 50.6 Random strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe pixel (slow-fast) 160 199 62.7 78.0 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 Shutter open 251 255 98.4 100 Color 01 - Red 8 15 3.1 5.9 Color 02 - Amber 16 23 6.3 9.0 Color 03 - Green 40 47 15.7 18.4 Color 04 - Yellow 32 39 12.5 15.3 Color 05 - Green <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>									
23 Layer 2 Pattern Shutter Sync ramp down slow-fast 40 69 15.7 27.1 30 Sync ramp up-down slow-fast 70 99 27.5 38.8 0 8 30 Item 10 Item 10 129 39.2 50.6 8 8 130 159 51.0 62.4 Random strobe pixel (slow-fast) 130 159 51.0 62.4 78.0 98.0 5 98.4 100 100 129 32.5 98.4 100 100 129 32.5 98.4 100 100 120 200 250 78.4 98.0 98.0 5 13.3 5.9 15.7 27.1 20.0 20.0 27.0 7.0 2.7 7.0 2.7 2.0 Color 0.1 Red 6.8 15.3 3.1 5.9 2.5 2.0 24.7 2.0 20.0 24.0 11.7 18.4 2.0 2.0 24.7 2.0 2.0 24.7 2.0 2.0				5	9	2.0	3.5		
23 Layer 2 Pattern Shutter Sync ramp up-down slow-fast 70 99 27.5 38.8 0 S Shutter Sync adouble flash (slow-fast) 100 129 39.2 50.6 Random strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe all (slow-fast) 160 199 62.7 78.0 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 Shutter open 251 255 98.4 100 Color 01 - Red 8 15 3.1 5.9 Color 02 - Amber 16 23 6.3 9.0 5 Color 03 - Warm Yellow 24 31 9.4 12.2 5 5.3 Color 04 - Yellow 32 32.5 15.3 5 5 5 Color 05 - Green 40 47 15.7 18.4 5 5 5 5 5 5 5 5 5 5 5 5 5 5<			Sync ramp up slow-fast	10	39	3.9	15.3		
23 Shutter Sync failing up-down slow-fast) 100 129 38.8 0 8 A Sync double flash (slow-fast) 100 129 39.2 50.6 8 62.4 8 62.4 8 62.4 8 98.0 5 5 98.4 100 129 39.2 50.6 8 150 62.4 8 150 62.4 8 150 5 98.4 100 129 39.2 50.6 8 150 5 160 5 160 129 2250 78.4 98.0 5 5 160 150 15.3 15.3 5 160 150 16 23 6.3 9.0 2.0 24.7 2.5 15.3 15.3 2.0 24.7 2.15 15.3 2.0 24.7 2.5 15.3 2.0 24.7 2.5 15.3 2.0 24.7 2.2 2.0 24.7 2.2 2.0 24.7 2.2 2.0			Sync ramp down slow-fast	40	69	15.7	27.1		
24 Sync double tash (slow-fast) 100 129 39.2 50.6 Random strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe pixel (slow-fast) 160 199 62.7 78.0 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 Shutter open 251 255 98.4 100 Shutter open 251 255 98.4 100 Color 01 - Red 8 15 3.1 5.9 Color 03 - Warm Yellow 24 31 9.4 12.2 Color 04 - Yellow 32 39 12.5 15.3 Color 07 - Cyan 56 63 22.0 24.7 Color 08 - Blue 64 71 25.1 27.8 Color 10 - Mauve 80 87 31.4 34.1 Color 10 - Mauve 80 87 31.4 34.1 Color 12 - Pink 96 103 37.6 40.4 Color 13 - White 3200K	23		Sync ramp up-down slow-fast	70	99	27.5	38.8	0	Snap
24 Random strobe all (slow-fast) 160 199 62.7 78.0 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 Shutter open 251 255 98.4 100 Layer 2 (top layer) pattern off (RGBW) 0 7 0 2.7 Color 01 - Red 8 15 3.1 5.9 Color 02 - Amber 16 23 6.3 9.0 Color 03 - Warm Yellow 24 31 9.4 12.2 Color 04 - Yellow 32 39 12.5 15.3 Color 05 - Green 40 47 15.7 18.4 Color 07 - Cyan 56 63 22.0 24.7 Color 08 - Blue 64 71 25.1 27.8 Color 10 - Mauve 80 87 31.4 34.1 Color 11 - Magenta 88 95 34.5 37.3 Color 12 - Pink 96 103 37.6 40.4 Color 13 - White 3200K 114 111 40.8 43.5 Color 14 - White 5600K 112		Snutter	Sync double flash (slow–fast)	100	129	39.2	50.6		
24 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 251 255 98.4 100 100 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0 0 7 0 2.7 0 2.7 0 2.7 0 2.7 0 2.7 0			Random strobe pixel (slow–fast)	130	159	51.0	62.4		
Shutter open 251 255 98.4 100 Layer 2 (top layer) pattern off (RGBW) 0 7 0 2.7 5 Color 01 - Red 8 15 3.1 5.9 5 6.3 9.0 5 Color 02 - Amber 16 23 6.3 9.0 5<			Random strobe all (slow-fast)	160	199	62.7	78.0		
24 Layer 2 (top layer) pattern off (RGBW) 0 7 0 2.7 5 Color 01 - Red 8 15 3.1 5.9 5 5 Color 02 - Amber 16 23 6.3 9.0 5			Sync strobe (1 Hz–10 Hz)	200	250	78.4	98.0		
24 Color 01 - Red 8 15 3.1 5.9 Color 02 - Amber 16 23 6.3 9.0 Color 03 - Warm Yellow 24 31 9.4 12.2 Color 04 - Yellow 32 39 12.5 15.3 Color 05 - Green 40 47 15.7 18.4 Color 06 - Turquoise 48 55 18.8 21.6 Color 07 - Cyan 56 63 22.0 24.7 Color 09 - Lavender 72 79 28.2 31.0 Color 10 - Mauve 80 87 31.4 34.1 Color 11 - Magenta 88 95 34.5 37.3 Color 12 - Pink 96 103 37.6 40.4 Color 13 - White 3200K 104 111 40.8 43.5 Color 14 - White 5600K 112 119 43.9 46.7 Color 15 - White 7200K 120 127 47.1 49.8 Stop 128 128						98.4			
24 Color 02 - Amber 16 23 6.3 9.0 Color 03 - Warm Yellow 24 31 9.4 12.2 Color 04 - Yellow 32 39 12.5 15.3 Color 05 - Green 40 47 15.7 18.4 Color 07 - Cyan 56 63 22.0 24.7 Color 08 - Blue 64 71 25.1 27.8 Color 09 - Lavender 72 79 28.2 31.0 Color 10 - Mauve 80 87 31.4 34.1 Color 11 - Magenta 88 95 34.5 37.3 Color 12 - Pink 96 103 37.6 40.4 Color 13 - White 3200K 104 111 40.8 43.5 Color 14 - White 5600K 112 119 43.9 46.7 Color 15 - White 7200K 120 127 47.1 49.8 Stop 128 128 50.2 50.2 Rainbow colors crossfade slow > fast 129						-			Snap
24 Color 03 - Warm Yellow 24 31 9.4 12.2 Color 04 - Yellow 32 39 12.5 15.3 Color 05 - Green 40 47 15.7 18.4 Color 06 - Turquoise 48 55 18.8 21.6 Color 07 - Cyan 56 63 22.0 24.7 Color 08 - Blue 64 71 25.1 27.8 Color 09 - Lavender 72 79 28.2 31.0 Color 10 - Mauve 80 87 31.4 34.1 Color 12 - Pink 96 103 37.6 40.4 Color 13 - White 3200K 104 111 40.8 43.5 Color 13 - White 3200K 104 111 40.8 43.5 Color 15 - White 7200K 120 127 47.1 49.8 Stop 128 128 50.2 50.2 Rainbow colors crossfade slow > fast 129 223 50.6 87.5 Random colors crossfade slow > fast </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Snap</th>									Snap
24 Color 04 - Yellow 32 39 12.5 15.3 Color 05 - Green 40 47 15.7 18.4 55 18.8 21.6 55 15.3 55 15.3 55 15.3 55 15.3 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 15.3 55 55 15.3 55 15.3 55									Snap
24 Color 05 - Green 40 47 15.7 18.4 5 24 Color 06 - Turquoise 48 55 18.8 21.6 5									Snap
24 Color 06 - Turquoise 48 55 18.8 21.6 5 24 Color 07 - Cyan 56 63 22.0 24.7 5 5 18.8 21.6 5 5 18.8 21.6 5 5 18.8 21.6 5 5 5 18.8 21.6 5 5 5 5 5 5 5 3 5									Snap
24 Color 07 - Cyan 56 63 22.0 24.7 24 Color 08 - Blue 64 71 25.1 27.8 55 Color 09 - Lavender 72 79 28.2 31.0 55 55 Color 10 - Mauve 80 87 31.4 34.1 55 55 Color 11 - Magenta 88 95 34.5 37.3 55 55 Color 12 - Pink 96 103 37.6 40.4 55 55 Color 13 - White 3200K 104 111 40.8 43.5 55 55 Color 14 - White 5600K 112 119 43.9 46.7 55									Snap Snap
Layer 2 Pattern color wheel effect Color 08 - Blue 64 71 25.1 27.8 55 24 Color 09 - Lavender 72 79 28.2 31.0 0 55 color wheel effect Color 10 - Mauve 80 87 31.4 34.1 55 Color 11 - Magenta 88 95 34.5 37.3 55 55 Color 12 - Pink 96 103 37.6 40.4 55 55 Color 13 - White 3200K 104 111 40.8 43.5 55 55 Color 15 - White 7200K 120 127 47.1 49.8 55 55 Stop 128 128 50.2 50.2 55 57 Rainbow colors crossfade slow > fast 129 223 50.6 87.5 5 25 Raindom colors crossfade slow > fast 224 255 87.8 100 7 26 Layer 2 (top layer) pattern 0 65535 0 100 32767 </th <th></th> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Snap</td>									Snap
24 Color wheel effect Color 09 - Lavender 72 79 28.2 31.0 0 5 Color 10 - Mauve 80 87 31.4 34.1 34.1 5 5 5 5 37.3 5 5 5 37.3 5		Laver 2 Pattern							Snap
effect Color 10 - Mauve 80 87 31.4 34.1 Color 11 - Magenta 88 95 34.5 37.3 Color 12 - Pink 96 103 37.6 40.4 Color 13 - White 3200K 104 111 40.8 43.5 Color 14 - White 5600K 112 119 43.9 46.7 Color 15 - White 7200K 120 127 47.1 49.8 Stop 128 128 50.2 50.2 Rainbow colors crossfade slow > fast 129 223 50.6 87.5 Random colors crossfade slow > fast 224 255 87.8 100 F Layer 2 (top layer) pattern 0 65535 0 100 32767	24							0	Snap
25 Layer 2 Pattern Red Color 11 - Magenta 88 95 34.5 37.3 5 5 26 Layer 2 Rationa 96 103 37.6 40.4 5 <t< th=""><th></th><th>effect</th><th></th><th>80</th><th>87</th><th>31.4</th><th></th><th></th><th>Snap</th></t<>		effect		80	87	31.4			Snap
Color 13 - White 3200K 104 111 40.8 43.5 Color 14 - White 5600K 112 119 43.9 46.7 Color 15 - White 7200K 120 127 47.1 49.8 Stop 128 128 50.2 50.2 Rainbow colors crossfade slow > fast 129 223 50.6 87.5 Random colors crossfade slow > fast 224 255 87.8 100 25 Layer 2 Pattern Red Layer 2 (top layer) pattern 0 65535 0 100 32767				88	95	34.5	37.3		Snap
Color 14 - White 5600K 112 119 43.9 46.7 Color 15 - White 7200K 120 127 47.1 49.8 55 Stop 128 128 50.2 50.2 55 55 Rainbow colors crossfade slow > fast 129 223 50.6 87.5 F Random colors crossfade slow > fast 224 255 87.8 100 F Red Layer 2 (top layer) pattern 0 65535 0 100 32767 F									Snap
Color 15 - White 7200K 120 127 47.1 49.8 55 Stop 128 128 50.2									Snap
Stop 128 128 50.2 5									Snap
Rainbow colors crossfade slow > fast 129 223 50.6 87.5 F Random colors crossfade slow > fast 224 255 87.8 100 F 25 Layer 2 Pattern Red Layer 2 (top layer) pattern 0 65535 0 100 32767 F									Snap
Layer 2 Pattern Red Layer 2 (top layer) pattern 0 65535 0 100 32767 F									Snap
25 Layer 2 Pattern Red Layer 2 (top layer) pattern 0 65535 0 100 32767 F									Fade
23 Red Layer 2 (top layer) pattern 0 65535 0 100 32767 F		Laver 2 Pattern	Nanaom colois crossidae siow > last	224	233	0/.ð	100		Fade
Univer 2 Pattern red intensity 0, 100%	25		Laver 2 (top laver) pattern	_		_			
				0	65535	0	100	32767	Fade
²⁶ Red fine	26								
Laver 2 Pattern Laver 2 (top laver) pattern	27		Layer 2 (top layer) pattern	0	45525	0	100	30717	Fade
Green green intensity 0–100%	21	Green	green intensity 0–100%	0	60000	U	100	32/0/	Fuue

DMX control channel layout tables

	Lawar 2 Pattorn							
28	Layer 2 Pattern Green fine							
	Layer 2 Pattern							
29	Blue	Layer 2 (top layer) pattern	0	15505	0	100	207/7	F acala
30	Layer 2 Pattern	blue intensity 0–100%	0	65535	0	100	32767	Fade
30	Blue fine							
31	Layer 2 Pattern							
	White	Layer 2 (top layer) pattern	0	65535	0	100	32767	Fade
32	Layer 2 Pattern White fine	white intensity 0–100%						
	White line	Layer 2 (top layer) static pattern	0	51	0	20.0		
		Chase animation	52	131	20.4	51.4		
33	Layer 2 Pattern	Fade animation	132	211	51.8	82.7	0	Snap
		Random	212	255	83.1	100		
34	Layer 2 Pattern		1				0	Faida
34	speed	Slow-fast	0	255	0	100	0	Fade
35	Layer 2 Pattern	Slow crossfade-snap	0	255	0	100	0	Fade
	fade	'						
36	Zoom	Wide-narrow	0	255 9	0	100	0	Fade
		No function			0.0	3.5	-	
		Dimmer curve: Extra-soft (3s hold) Dimmer curve: Linear (3s hold)	10 16	15 21	3.9 6.3	5.9 8.2	1	
		· · · · · · · · · · · · · · · · · · ·	22	27	8.6	10.6	-	
		Display mode: Auto (3s hold) Display mode: On (3s hold)	22	33	11.0	10.6	1	
		Display mode: Off (3s hold)	34	39	13.3	15.3	1	
		Display orientation: Normal (3s hold)	40	45	15.7	17.6		
		Display orientation: Inverted (3s hold)	46	51	18.0	20.0		
		No DMX: Blackout (3s hold)	52	57	20.4	22.4		
		No DMX: Hold (3s hold)	58	63	22.7	24.7		
		No DMX: Stand-alone (3s hold)	64	69	25.1	27.1		
		Fan mode: Regulated (3s hold)	70	75	27.5	29.4		
		Fan mode: High (3s hold)	76	81	29.8	31.8		
		Fan mode: Medium (3s hold)	82	87	32.2	34.1		
		Fan mode: Low (3s hold)	88	93	34.5	36.5		
		Position feedback: Off (3s hold)	94	99	36.9	38.8		
		Position feedback: On (3s hold)	100	105	39.2	41.2		
		No function	106	117	41.6	45.9		
	Control /	Tilt inversion: Off (3s hold)	118	123	46.3	48.2		
37	Settings	Tilt inversion: On (3s hold)	124	129	48.6	50.6	0	Snap
	.	Pan inversion: Off (3s hold)	130	135	51.0	52.9		
		Pan inversion: On (3s hold)	136	141	53.3	55.3	4	
		Zoom inversion: Off (3s hold)	142	147	55.7	57.6	-	
		Zoom inversion: On (3s hold)	148	153	58.0	60.0	-	
		Defog: Off	154	159	60.4	62.4	-	
		Defog: On Defog: Quick	160	165	62.7	64.7	1	
		Load Settings Preset1	166 172	171 177	65.1 67.5	67.1 69.4	-	
		Load Settings Preset2	172	183	69.8	71.8	1	
		Load Settings Preset3	178	189	72.2	74.1	1	
		PWM: 600 Hz (5s hold)	190	195	74.5	74.1	1	
		PWM: 2200 Hz (5s hold)	196	201	76.9	78.8	1	
		PWM: 3000 Hz (5s hold)	202	207	79.2	81.2	1	
		PWM: 4800 Hz (5s hold)	208	213	81.6	83.5	1	
		PWM: 9600 Hz (5s hold)	214	219	83.9	85.9	1	
	F	PWM: 25 kHz (5s hold)	220	225	86.3	88.2	1	
		· · ·						1
		No function	226	231	88.6	90.6		
		No function Return to default settings	226 232	231 237	88.6 91.0	90.6 92.9		



Reset Head (3s ho	old) 244	249	95.7	97.6
Reset All (3s hold)	250	255	98.0	100

DMX Mode 4: Pix

50 DMX Channels

Channel Command ronge Per DMX Rode 1 Pen Pan	50	DMX Channe	ls						
1 Pen Pan Pan left-right 0 65535 0 100 32767 Fode 3 Itil 4 Itil friee Itil up-down 0 65535 0 100 32767 Fode 6 Dimmer 5 Dimmer 0 Intensity 0-100% 0 65535 0 100 32767 Fode 8 Simulation of the sity 0-100% 0 65535 0 100 32767 Fode 9 Shutter Sinulation of the sity 0-100% 0 4 0 1.6 9 Shutter Sinulation of the sity 0-100% 0 4 0 1.6 9 2.0 3.5 Sinulation of the sity 0-100% 100 120 3.5 15.3 9 2.0 3.5 Sinulation of the sity 0-100% 100 129 2.0 3.5 9 2.0 2.5 8.4 100 2.7 78.0 9 0 Off (FGW) 0 7 0 2.7<		Channal				Percent			Fuels
2 Pan fine IIII Pan fine Pan fine IIII Pan fine IIIII Pan fine IIIII Pan fine IIIII Pan fine IIIIIII Pan fine IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1		Commana	rar	ige	Per	cent	DMX	raae
3 Titl Ti			– Pan left–right	0	65535	0	100	32767	Fade
4 101 100 000 6333 0 1000 32/6/ rode 5 Dimmer fine Intensity 0-100% 0 65335 0 1000 32/6/ Fode 6 Dimmer fine Intensity 0-100% 0 4 0 1.6 3 7 Shufter fine Shutter closed 0 4 0 1.6 3 3 8 Shufter comp up down slow-fast 100 39 1.5.3 3 3 9 Shufter comp up down slow-fast 100 129 2.20 3.8.8 3 3 3 9 Sync ramp up down slow-fast 100 129 2.20 7.8.4 98.0 9 Off (RGW) 0 7 0 2.7.7 3.8.8 9 9 Color (Gr Q - Amber fine) 160 17.2 3.0 9.0 2.7.7 8.8 9.0 10 Gr (Gr Q - Amber fine) 64 7.1 2.5.1 2.7.8									
6 Dimmer Intensity 0-100% 0 65533 0 100 32767 Fode 6 Dimmer fine Shutter closed 0 4 0 1.6 Single flosh when change on dimmer channel 5 9 2.0 3.5 7 Shutter Single flosh when change on dimmer change on			Tilt up-down	0	65535	0	100	32767	Fade
6 Dimmer fine Intensity U-100% 0 4 0 10.0 32/6/ Field 8 Shutter closed 0 4 0 1.6 Single flash when change on dimmer channel 5 9 2.0 3.5 Shutter closed 10 39 3.9 15.3 Single flash when change on dimmer channel 5 9 2.0 3.5 Sync ramp up down slow-fast 40 69 15.7 27.1 38.8 Single flash when change on dimmer chandom slow-fast 70 99 27.5 38.8 Single flash when change on dimmer chandom slow-fast 130 159 51.0 6.2 6.2 78.4 78.0 Sync ramp up down slow-fast 100 129 39.2 50.6 78.4 78.0 78.4 78.0 78.4 78.0 Sync ramp up slow-fast 100 129 27.7 78.4 78.0 78.0 78.0 78.0 78.0 78.0 78.0 78.0 78.0 78.0 78.0 78.0 78.0 <									
8 Color wheel effect Shutter closed Single flash when change on dimmer channel 0 4 0 1.6 0 9 2.0 3.5 3.5 7 Shutter Single flash when change on dimmer channel 10 39 3.9 15.3 3.5 5 Sync ramp up slow-fast 10 46 69 15.7 27.1 Sync double flash (glow-fast) 100 129 39.2 50.6 27.5 38.8 0 8 Color double flash (glow-fast) 100 129 39.2 50.6 27.7 78.0 9 Color 01 - Red 8 15 31 5.9 20.6 31.5 5.9 30.0 Color 01 - Red 8 15 31.5 5.7 7.4 12.2 15.3 5.0			Intensity 0–100%	0	65535	0	100	32767	Fade
8 Color 01- Color 02- effect Single flash when change on dimmer channel 5 9 2.0 3.5 5 Sync ramp up slow-fast 10 39 3.9 15.3 Sync ramp up slow-fast 40 69 15.7 27.1 38.8 Sync ramp up-down slow-fast 70 99 22.7 38.8 39.6 Sync double flash (slow-fast) 100 129 39.2 50.6 8.0 Sync strobe (1 Hz-10 Hz) 200 220 78.4 98.0 90.0 Sync strobe (1 Hz-10 Hz) 200 220 78.4 98.0 31.5 31.1 5.9 Color 01- Red 8 15 3.1 5.9 20.0 220 24.3 90.0 Color 02- Amber 16 23 6.3 9.0 2.5 15.3 31.6 39.0 Color 03- Warm Yellow 24 31 9.4 12.2 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0			Shutter closed	0	4	0	1.6		
P Color mape			Single flash when change on dimmer			0.0	<u>а г</u>		
Shutter Sync ramp down slow-fast 40 69 15.7 27.1 Sync ramp up-down slow-fast 70 99 27.5 38.8 9.0 Sync ramp up-down slow-fast 100 129 39.2 50.6 6.24 Random strobe pixel (slow-fast) 130 159 51.0 62.4 9.0 Sync tramp (h-10 Hz) 00 7 0 2.7 8.0 9.0 Shutter open 251 255 98.4 100 0 7.7 9.0 2.7 5.0 Shutter open 251 255 98.4 100 0 7.0 2.7 5.0 5.0 9.0 5.00 5.0				5	9	2.0	3.5		
8 Sync ramp up-down slow-fast 70 99 27.5 38.8 0 Snap 9 Sync double flash (slow-fast) 100 127 39.2 50.6 Random strobe oll (slow-fast) 160 199 62.7 78.0 Sync throbe (1 Hz-10 Hz) 200 250 78.4 98.0 Shufter open 251 255 98.4 100 Shufter open 251 255 98.4 100 Color 01 - Red 8 15 3.1 5.9 5nap Color 02 - Amber 164 23 6.3 9.0 5nap Color 04 - Yellow 32 39 12.5 15.3 5nap Color 05 - Green 40 47 15.7 18.4 2.6 5nap Color 06 - Iraquoise 48 55 18.8 2.16 5nap Color 07 - Cyan 56 63 12.0 7.7 9.8 3.1.3 Color 10 - Mauve 80 87 31.4 <th></th> <th></th> <td>Sync ramp up slow-fast</td> <td>10</td> <td>39</td> <td>3.9</td> <td>15.3</td> <td></td> <td></td>			Sync ramp up slow-fast	10	39	3.9	15.3		
8 Color wheel effect Sync double flash (slow-fast) Random strobe pixel (slow-fast) Sync strobe (1 Hz-10 Hz) 100 129 39.2 50.6 8 Color Wheel effect Off (RGBW) 0 7 0 2.7 78.0 8 Color Off (RGBW) 0 7 0 2.7 78.0 Color O1 - Red 8 15 3.1 5.9 5.0 78.4 98.0 Color O2 - Amber 16 23 6.3 9.0 7 0 2.7 Color O2 - Amber 16 23 6.3 9.0 5.3 5.3 5.3 Color O5 - Green 40 47 15.7 18.4 5.3 <th></th> <th></th> <td>Sync ramp down slow-fast</td> <td>40</td> <td>69</td> <td>15.7</td> <td>27.1</td> <td></td> <td></td>			Sync ramp down slow-fast	40	69	15.7	27.1		
8 Sync double flash (dow-fast) 100 129 39.2 50.6 Random strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe pixel (slow-fast) 130 159 51.0 62.4 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 Shutter open 251 255 98.4 100 Color 01 - Red 8 15 3.1 5.9 Color 02 - Amber 16 23 6.3 9.0 Color 03 - Warm Yellow 24 31 9.4 12.2 Color 04 - Yellow 32 39 12.5 15.3 Color 05 - Green 40 47 15.7 18.4 Color 06 - Turquoise 48 55 18.8 21.6 Color 07 - Cycn 56 63 22.0 24.7 Color 10 - Mauve 80 87 31.4 34.1 Color 11 - Magenta 88 95 34.5 37.3 Color 13 - White 2200K	7	Shutter	Sync ramp up-down slow-fast	70	99	27.5	38.8	0	Snap
8 Color wheel effect Random strobe pixel (slow-fast) 130 159 51.0 62.4 Random strobe all (slow-fast) 140 199 62.27 78.0 Sync strobe (I Hz-10 Hz) 200 250 78.4 78.0 78.0 Shutter open 251 255 98.4 100 0 7 0 2.7 Color 01 - Red 8 15 3.1 5.7 0.5 Snap Color 02 - Amber 16 23 6.3 9.0 Snap Color 03 - Varm Yellow 24 31 9.4 12.2 Snap Color 04 - Yellow 32 39 12.5 15.3 Snap Color 05 - Green 40 47 15.7 18.4 Snap Color 06 - Lavender 72 79 28.8 21.6 Snap Color 10 - Mauve 80 87 34.5 37.3 Snap Color 13 - While 3200K 104 111 40.4 Snap Color 13 - While 3200K			Sync double flash (slow-fast)	100	129	39.2	50.6		
8 Sync strobe (1 Hz-10 Hz) 200 250 78.4 98.0 Shutter open 251 255 98.4 100 Color (RGBW) 0 7 0 2.7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 3 0 5 5 5 5 3 0 5 5 5 3 0 5 5 3 0 5 5 3 2 9 12.5 15.3 5 3 3 0 5 3 3 1 2 12.5 15.3 3 3 0 5 3 3 1 3 3 1 3 3 1 3 3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3									
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			2500	241	255	94.5	100		
11 Red fine 100 min. (0 100 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0			Red intensity 0–100%	0	65535	0	100	32767	Fade
	11	Red fine		,		~		,	

DMX control channel layout tables

12	Green							
13	Green fine	Green intensity 0–100%	0	65535	0	100	32767	Fade
14	Blue							
15	Blue fine	Blue intensity 0–100%	0	65535	0	100	32767	Fade
16	White		0	15505	0	100	207/7	F avala
17	White fine	White intensity 0–100%	0	65535	0	100	32767	Fade
		Static pattern	0	51	0	20.0		
10	Dattern	Chase animation	52	131	20.4	51.4	0	Sin our
18	Pattern	Fade animation	132	211	51.8	82.7	0	Snap
		Random	212	255	83.1	100		
19	Pattern speed	Slow-fast	0	255	0	100	0	Fade
20	Pattern fade	Slow crossfade-snap	0	255	0	100	0	Fade
21	Zoom	Wide-narrow	0	255	0	100	0	Fade
		No function	0	9	0.0	3.5		
		Dimmer curve: Extra-soft (3s hold)	10	15	3.9	5.9		
		Dimmer curve: Linear (3s hold)	16	21	6.3	8.2		
		Display mode: Auto (3s hold)	22	27	8.6	10.6		
		Display mode: On (3s hold)	28	33	11.0	12.9		
		Display mode: Off (3s hold)	34	39	13.3	15.3		
		Display orientation: Normal (3s hold)	40	45	15.7	17.6		
		Display orientation: Inverted (3s hold)	46	51	18.0	20.0		
		No DMX: Blackout (3s hold)	52	57	20.4	22.4		
		No DMX: Hold (3s hold)	58	63	22.7	24.7		
		No DMX: Stand-alone (3s hold)	64	69	25.1	27.1		
		Fan mode: Regulated (3s hold)	70	75	27.5	29.4		
		Fan mode: High (3s hold)	76	81	29.8	31.8	0	
		Fan mode: Medium (3s hold)	82	87	32.2	34.1		
		Fan mode: Low (3s hold)	88	93	34.5	36.5		
		Position feedback: Off (3s hold)	94	99	36.9	38.8		
		Position feedback: On (3s hold)	100	105	39.2	41.2		
		No function	106	117	41.6	45.9		
		Tilt inversion: Off (3s hold)	118	123	46.3	48.2		
		Tilt inversion: On (3s hold)	124	129	48.6	50.6		
22	Control /	Pan inversion: Off (3s hold)	130	135	51.0	52.9		Snap
	Settings	Pan inversion: On (3s hold)	136	141	53.3	55.3		-
		Zoom inversion: Off (3s hold)	142	147	55.7	57.6		
		Zoom inversion: On (3s hold)	148	153	58.0	60.0		
		Defog: Off	154	159	60.4	62.4		
		Defog: On	160	165	62.7	64.7		
		Defog: Quick	166	171	65.1	67.1		
		Load Settings Preset1	172	177	67.5	69.4		
		Load Settings Preset2	178	183	69.8	71.8		
		Load Settings Preset3	184	189	72.2	74.1		
		PWM: 600 Hz (5s hold)	190	195	74.5	76.5		
		PWM: 2200 Hz (5s hold)	196	201	76.9	78.8		
		PWM: 3000 Hz (5s hold)	202	207	79.2	81.2		
		PWM: 4800 Hz (5s hold)	208	213	81.6	83.5		
		PWM: 9600 Hz (5s hold)	214	219	83.9	85.9		
		PWM: 25 kHz (5s hold)	220	225	86.3	88.2		
		No function	226	231	88.6	90.6		
		Return to default settings	232	237	91.0	92.9	1	
		Reset Pan/Tilt (3s hold)	238	243	93.3	95.3	1	
	ł	Reset Head (3s hold)	244	249	95.7	97.6	1	
		Reset All (3s hold)	250	255	98.0	100		
23	Pixel 1 Red	Intensity 0-100%	0	255	0.0	100	0	Fade
23 24	Pixel 1 Green	Intensity 0-100%	0	255	0	100	0	Fade
25	Pixel 1 Blue	Intensity 0-100%	0	255	0	100	0	Fade
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26	Pixel 1 White	Intensity 0-100%	0	255	0	100	0	Fade
27	Pixel 2 Red	Intensity 0-100%	0	255	0	100	0	Fade
28	Pixel 2 Green	Intensity 0-100%	0	255	0	100	0	Fade
29	Pixel 2 Blue	Intensity 0-100%	0	255	0	100	0	Fade
30	Pixel 2 White	Intensity 0-100%	0	255	0	100	0	Fade
31	Pixel 3 Red	Intensity 0-100%	0	255	0	100	0	Fade
32	Pixel 3 Green	Intensity 0-100%	0	255	0	100	0	Fade
33	Pixel 3 Blue	Intensity 0-100%	0	255	0	100	0	Fade
34	Pixel 3 White	Intensity 0-100%	0	255	0	100	0	Fade
35	Pixel 4 Red	Intensity 0-100%	0	255	0	100	0	Fade
36	Pixel 4 Green	Intensity 0-100%	0	255	0	100	0	Fade
37	Pixel 4 Blue	Intensity 0-100%	0	255	0	100	0	Fade
38	Pixel 4 White	Intensity 0-100%	0	255	0	100	0	Fade
39	Pixel 5 Red	Intensity 0-100%	0	255	0	100	0	Fade
40	Pixel 5 Green	Intensity 0-100%	0	255	0	100	0	Fade
41	Pixel 5 Blue	Intensity 0-100%	0	255	0	100	0	Fade
42	Pixel 5 White	Intensity 0-100%	0	255	0	100	0	Fade
43	Pixel 6 Red	Intensity 0-100%	0	255	0	100	0	Fade
44	Pixel 6 Green	Intensity 0-100%	0	255	0	100	0	Fade
45	Pixel 6 Blue	Intensity 0-100%	0	255	0	100	0	Fade
46	Pixel 6 White	Intensity 0-100%	0	255	0	100	0	Fade
47	Pixel 7 Red	Intensity 0-100%	0	255	0	100	0	Fade
48	Pixel 7 Green	Intensity 0-100%	0	255	0	100	0	Fade
49	Pixel 7 Blue	Intensity 0-100%	0	255	0	100	0	Fade
50	Pixel 7 White	Intensity 0-100%	0	255	0	100	0	Fade

13. Service



Warning! There are no user-serviceable parts inside the fixture. Opening the fixture can compromise its IP65 rating and cause damage that is not covered by the product warranty. Any service operation that requires removal of a cover must be performed by a professional service technician with the tools, skills, and personal protective equipment to maintain high-powered lighting equipment safely and efficiently.

Cleaning

EXO Wash 30 fixtures require occasional cleaning to prevent the buildup of dust, dirt, and residue from atmospheric effects. Failure to keep the fixture clean will significantly reduce light output and may cause heat buildup and damage that is not covered by the product warranty. Regular cleaning will ensure maximum performance and reliable operation.

The cleaning schedule depends on the operating environment. Check fixtures regularly for signs of dirt buildup.

You can clean the fixture using a soft cloth slightly dampened with a household or automotive glass cleaning product. Do not apply pressure to the clear front or display on the back of the fixture, as you may scratch these surfaces.

Use the tilt lock mechanism to hold the head in a vertical position for easier cleaning.

GLP Service and Support

Contact information for the nearest GLP Service and Support is available online at www.glp.de/en/service, by email at info@glp.de, or by telephone at the following numbers:

- GLP Germany: +49 (7248) 927 19-55
- GLP N. America: +1 818 767-8899
- GLP UK: +44 1392 690140
- GLP Asia: +852 (3151) 7730
- GLP Nordic: +46 737 57 11 40

FUSION

14. Technical specifications

Optics

Light source: 7x 40W Osram RGBW LEDs Lifetime: 20 000 hrs. approx. to > 70% luminous output Luminous flux: 40995 lux @ 3 m, 14758 lux @ 5 m Beam angle (half peak): 4° to 54°

Control

Control systems: DMX, RDM, Manual setting DMX channel footprint: 13 / 22 / 37 / 50 depending on mode Setting and addressing: Onboard control panel with LCD display, RDM DMX compliance: USITT DMX512 RDM compliance: ANSI/ESTA E1.20 Pan range: 630°, 16 bit resolution Tilt range: 267°, 16 bit resolution

Installation

Options: Stand on horizontal surface, suspended using truss mount brackets Operating position: Any Minimum distance to combustible materials: 0.5 m (20 in.) Minimum distance to illuminated surfaces: 0.5 m (20 in.) Installation environment: Temporary or permanent indoor installation, temporary outdoor installation Secondary attachment: Slot for safety cable attachment

Electrical

AC mains power: 100-240 V nominal, 50/60 Hz Power supply unit: Auto-ranging electronic switch mode Maximum power consumption, all LEDs at 100% output: 300 W

Maximum permitted number of fixtures daisy-chained to power

4 x EXO Wash 30 total @ 100-120 V, 60 Hz 8 x EXO Wash 30 total @ 200-240 V, 50 Hz

Connections

AC mains power in and thru (out): Neutrik powerCON TRUE1 with sealing cap Control data in and thru (out): Neutrik 5-pin XLR with sealing cap

Construction

Ingress protection rating: IP65 Fixture housing: Aluminum, plastic Color: Black

Thermal

Cooling: Fan, Convection Minimum ambient temperature: -10° C (14° F) Maximum ambient temperature: 40° C (104° F)

Included items

Power cable with Neutrik powerCON TRUE1 mains input plug

Dimensions and weight

Length: 279mm / 11.0 ins. Width: 380 mm / 15.0 ins. Height: 521 mm / 20.5 ins. Weight: 19.7 kg (43.4 lbs.) Dimensions

15. Dimensions

All dimensions are in millimeters

