FALCON 540Z

36x15W RGBW LED ZOOM – IP65 Wall Wash

FALCON 540Z

36X15W RGBW LED ZOOM FLOOD IP65

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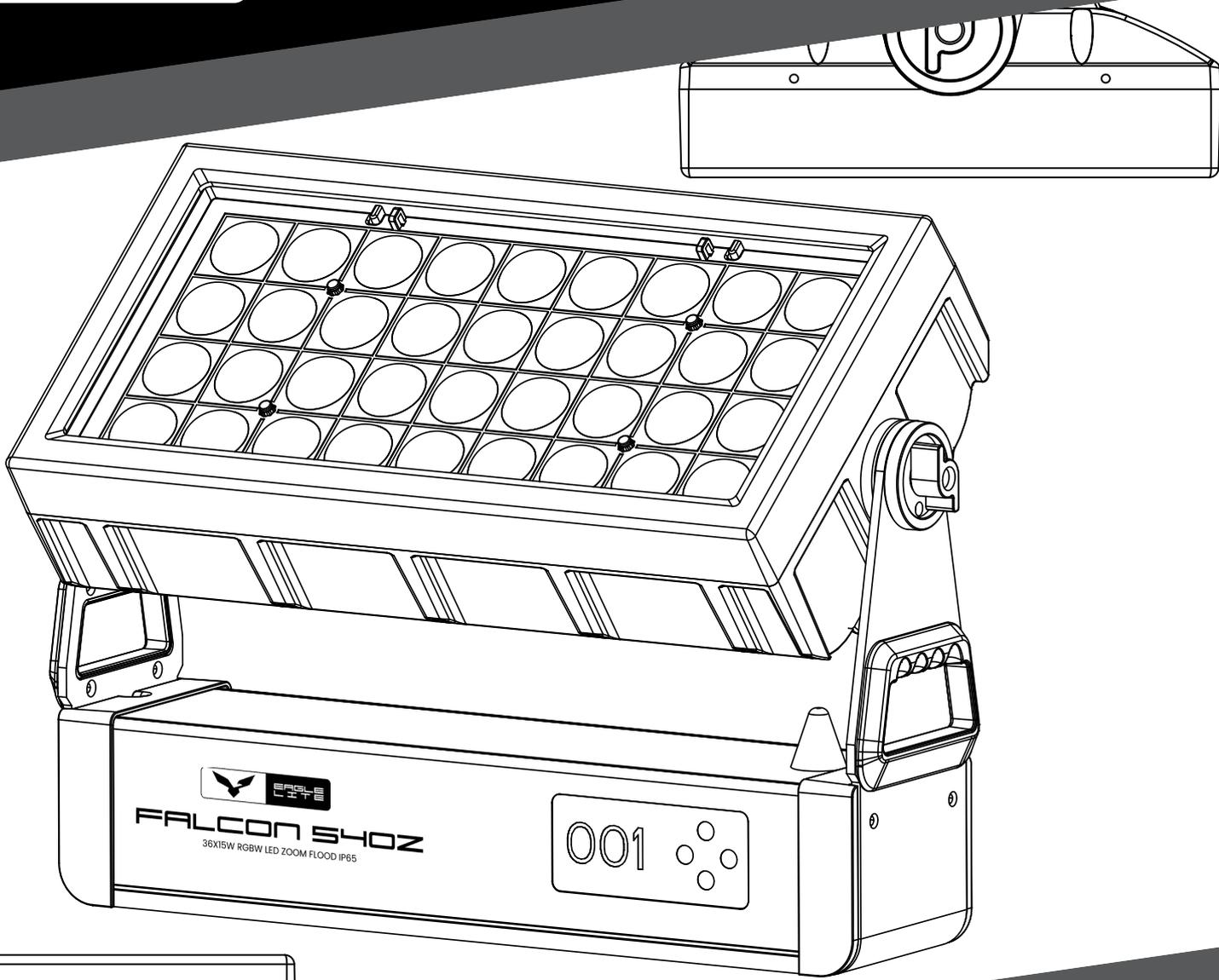
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Content

Info about the product

Thank you for purchasing our Eagle Lite FALCON 540Z. The manual below will review the product's features and functions.

Product Features

The Eagle Lite FALCON 540Z is a Wall wash of tour ready quality The Falcon series is made for high output, ready for any weather and easy connectivity.

- 36X15W RGBW Led
- 72X0.2W Background Led
- Zoom 7°- 58°
- Pixel control in the form of 4 separate rows
- Easy to set up and set up with the clear LCD screen.
- Built-in Auto shows for a neat standalone effect.
- Selectable dimmer curves, via Menu or DMX
- Master/Slave mode, med auto shows
- IP65 Rated so plenty of opportunity for outdoor use.
- W-DMX Wireless DMX Module
- Possibility of using barn doors and diffusers (45,60,90°)

General information before use

Accountability and attention are requested when using the device.
With high-voltage electricity, there is a danger of shock when touching exposed wires.

Risk of eye damage
Never look directly into the light source. Always wear protection if it is necessary to look directly into the light source.

Always check that you are using the product correctly!
Correct voltage in relation to the specifications specified on the device or manual. Be sure that the device is always grounded. Never open the unit until power is taken off! Check periodically that the cord is not pinched or damaged of any kind. Always check the device and cord time to time. When replacing a fuse, it must be replaced with the same type and rating.

For your own safety and understanding of the device, we strongly recommend that the manual be read through before using the product. Always read warnings and recommendations before use.

Warning: Hot surface
This symbol indicates that the device may become hot in certain places on the device. The device may become hot during use. Therefore, it is recommended to let the device cool for at least 10 minutes after use. In this way, injury is avoided and best cared for on the device.

Should only be operated by qualified persons.
We strongly recommend that all persons who will be using the device do the following, read the manual before using the device, are qualified to use the device, and can rig equipment properly.

Safety instructions

Uses

- This device is an LED projector for creating decorative lighting effects. The device is designed for professional use in event technology, such as on stage. It is not suitable for household lighting.
- Use the device only in accordance with the instructions herein. Damage resulting from failure to comply with this manual will void the warranty! We accept no liability for any resulting damages.
- We accept no liability for material and personal damage caused by improper use or non-compliance with safety instructions. In such cases, the warranty/warranty will be void.
- Unauthorized modifications or modifications to the device are not permitted for safety reasons and void the warranty.

Danger from electricity

- The unit is suitable for indoor & outdoor use. Can be used outdoors as the device is IP65 rated.
- To reduce the risk of electric shock, do not open any electrical parts.
- The unit must only be opened in extreme emergencies in connection with the removal of external objects or repairs, always consult with a workshop in this area.
- Just connect the device to a properly installed outlet. The outlet must be protected by a circuit breaker (RCD). If the wire is equipped with a grounding switch, then it must be connected to an outlet with a protective ground. Never remove the protective grounding of the wire. Removing the ground wire may result in damage to the device and possibly injure the user.
- Never touch the device with wet or damp hands. There is a risk of potentially fatal electric shock.
- Unplug the device during a thunderstorm, when it will not be used for an extended period or before cleaning.

Instructions for using the device.

- The specified working temperature of the device is 5 to +45°C. Do not operate the device outside this temperature range.
- The device can grow up to 65°C during use. Avoid contact with people and materials.
- The device should have at least 50 cm to the nearest surface.
- Do not use the device near flammable materials. Always place the device in a place where adequate air circulation is ensured. Leave 50 cm of free space around the device. Never cover the vents of the unit.
- Use the device only in a moderate climate, never use the device outside the specified working temperature.
- Do not look directly at the light source. People with photosensitive epilepsy may suffer from epilepsy attacks or incur other injuries.
- Make sure that the product is set up or installed safely and expertly and prevented from falling. Comply with the standards and regulations applicable in your country, especially EN 60598-2-17.
- Eagle Lite cannot be held liable for damage caused by incorrect installations or inadequate security.
- When using the unit overhead, the unit must always be secured with a safety weigher or safety net.
- Make sure the area below the installation site is blocked when rigging, derigging, or servicing the device.

Service and maintenance of the device.

- The device is not designed for permanent operation; therefore, it is important to the device for consistent operational breaks. This helps to ensure service life without defects.
- Never turn the device on and off at short intervals. This will significantly reduce the service life.
- If the device has been subjected to drastic temperature fluctuations, do not turn it on immediately. The arising condensation can destroy the device. Allow the device to reach ambient temperature before connecting. Wait until condensation has evaporated.
- After use, the unit must always be allowed to cool before it is derigged if this is not complied with, and the unit is subsequently defective. The warranty does not apply.
- Please use the original packaging to protect the device from vibration, dust and moisture during transport or storage.

- If a serial number label is affixed to the device, do not remove the label as this will void the warranty.

Cleaning and maintenance

The outside of the device should be cleaned periodically to remove contaminants such as dust, etc. Especially the lens must be clean to ensure maximum light output. In addition, it is also recommended to check for other foreign objects in the device.

1. Disconnect the power and allow the device to cool down before cleaning.
2. Clean the surface with a soft, lint-free and damp cloth. Never use alcohol or solvents, as these can damage the surface. Make sure that no liquid can get into the device.
3. The device must be dry before the power is reconnected.

There are no repairable parts inside. Do not open the housing. Do not attempt to repair the device, as this may result in damage. Maintenance and service operations may only be carried out by authorized repairers. If you need spare parts, please use original parts. Should you have any further questions, please contact your dealer.

Setup

Unpack and check carefully for any transport damage before using the device. Keep the packaging or use custom flight cases for it.

To fully secure the product against vibration, dust and moisture during transportation or storage, it is recommended to use the original packaging or your own packaging material suitable for transportation and storage, respectively.

Warning of the risk of overheating.

The distance between the Device and the illuminated surface must be more than 1.5 m (19.7 inches).

Adequate ventilation is very important.

The temperature around the device should never exceed 45 °C (113 °F).

When using stands, structures etc.

When mounting the device on a tripod, ensure that the stand is in a secure and stable position and that the weight of the device does not exceed the maximum allowable load capacity of the stand.

Possible source of error for data errors

To ensure flawless operation, use dedicated DMX cables and not regular XLR/microphone cables.

Never connect the DMX input or output to audio equipment such as mixers or amplifiers. As this can cause great damage!

Possible damage to the device associated with moisture.

Moisture that can enter open (plugs and couplings) by DMX or power cables can cause short circuits. Therefore, it is very important that the lid is closed if the plug is not being used, and only use IP65 rated connectors Cables etc. Available as an accessory at (www.eaglelite.dk)

Mounting options

The quick lock brackets on the underside of the unit are intended for use with the associated Omega 1/4 bracket, on which a clamp or bolt should be mounted for suspension or fastening. Safety weighers must also always be used, the safety weigher must go through the two holes that are also indicated in the drawing below.

The unit can be mounted/used hanging or standing on with the feet available as an accessory.
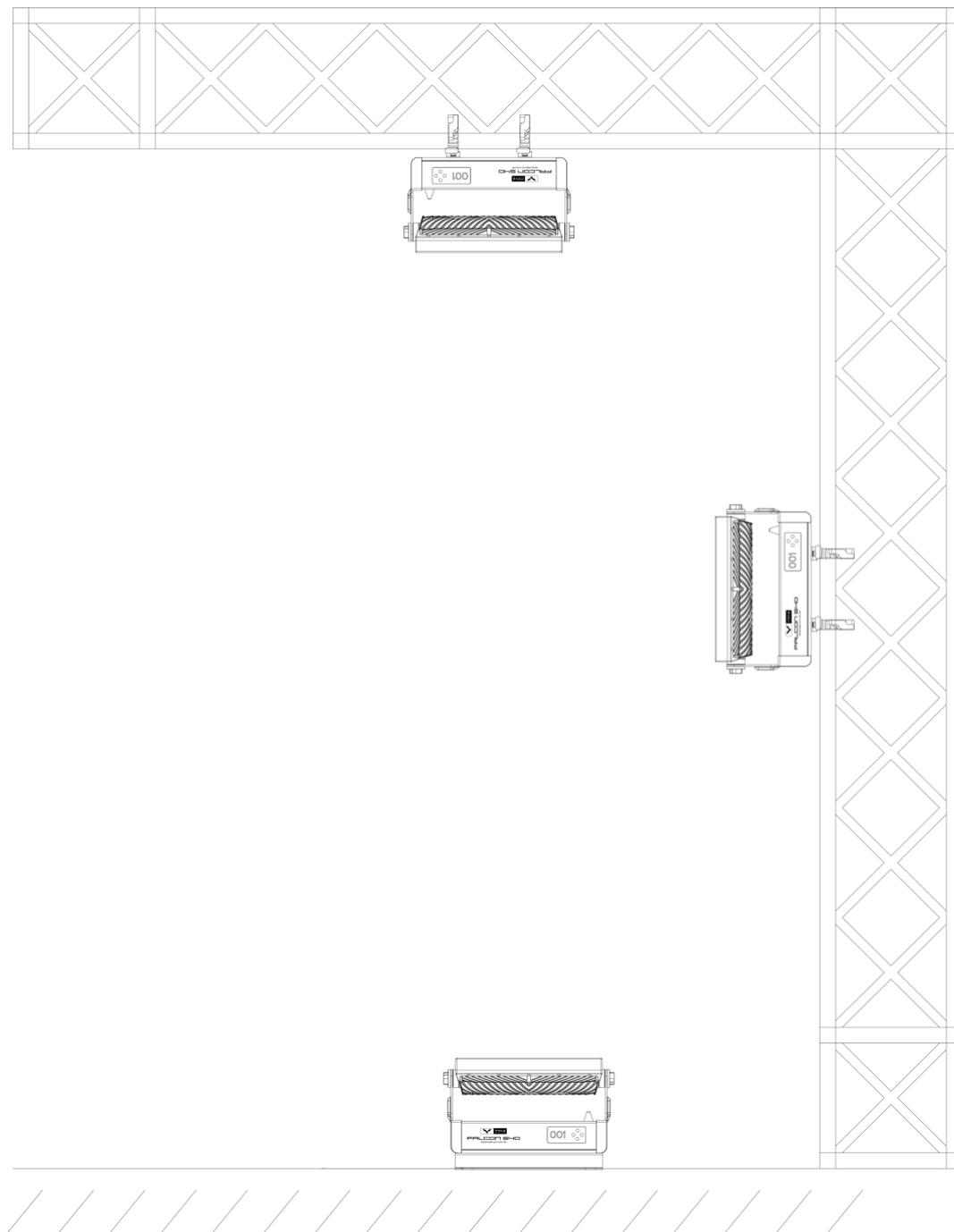
Bottom mounting options
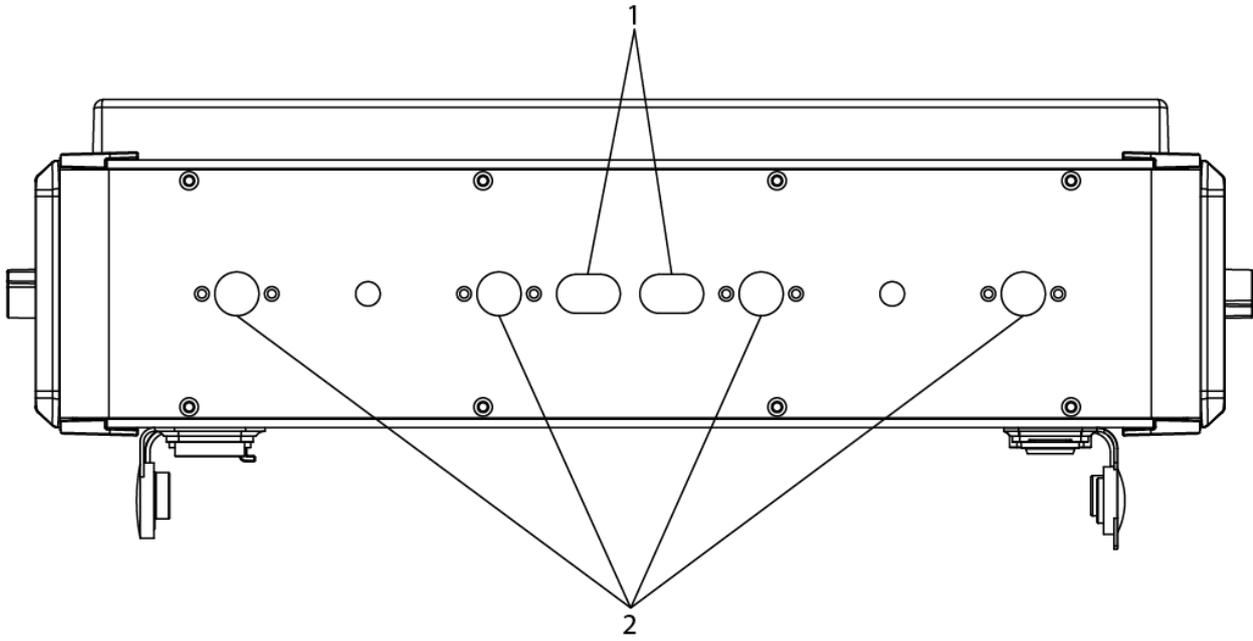
| 1 | Eyelets for mounting safety weighers |
| 2 | Quick Lock Mounting Eyelets |

DMX Options & Setup Guide

DMX TO DMX

DMX CONTROLLER

DMX TERMINATOR

WIRELESS TO DMX

DMX IN → WIRELESS DMX

DMX TERMINATOR
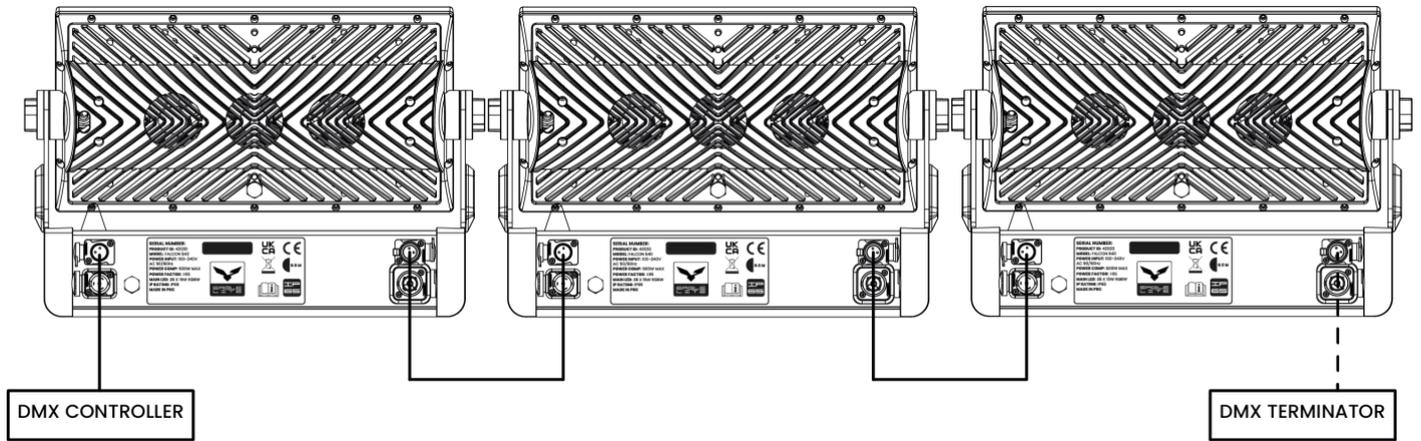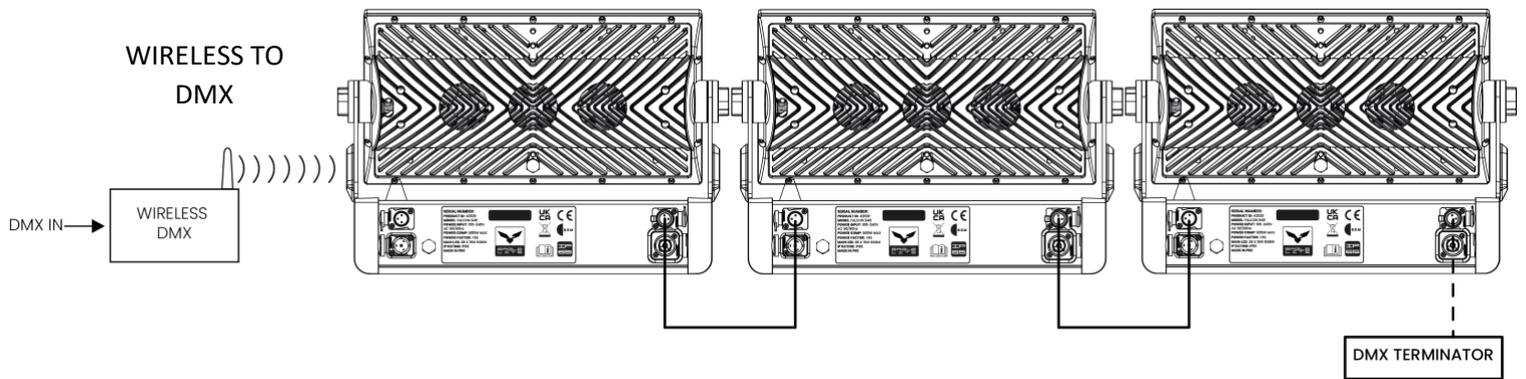
WIRELESS

DMX IN → WIRELESS DMX
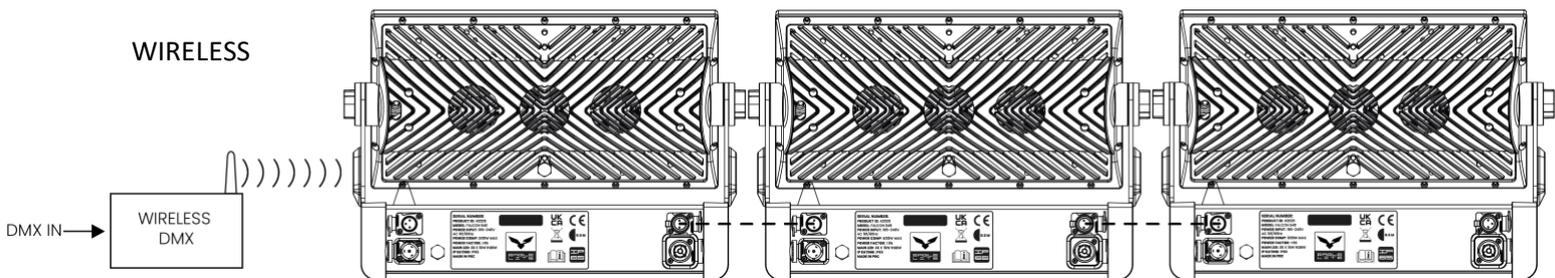
Explanation of DMX Connections

DMX OUT — 1. Group / 2. Signal (−) / 3. Signal (+)
DMX IN — 1. Group / 2. Signal (−) / 3. Signal (+)
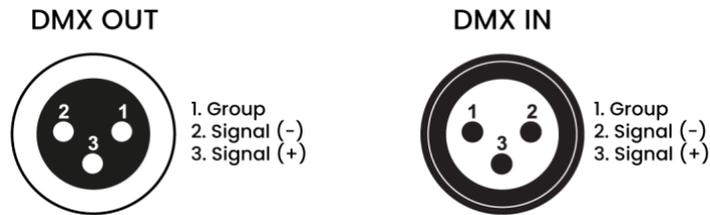
If you use the DMX controller for this device, you can connect the DMX controller's DMX output directly to the DMX input on the first device in the DMX chain. If you want to connect DMX control with other XLR outputs, simply pull cables from the output on the device and thereby link further.

Connect the DMX output of the first device in the DMX chain with the DMX input of the next device. Always connect an output with the input of the next device until all devices are connected.

DMX-512 setup with DMX Terminator
For installations where the DMX cable needs to be pulled over a long distance or is in an area with a lot of electrical noise, such as a disco, larger productions, or other, it is recommended to use a DMX terminator. This helps prevent interference with the digital signal by electrical noise.
The DMX terminator is simply an XLR connector with a 120 resistor/ohm connected between pins 2 and 3, which is then plugged into the XLR output of the last device in the chain.

Master/Slave mode
When you put a group of FALCON 540Zunits in 'Master/Slave' mode, the first unit will control the others. This feature is particularly useful for starting a show without much programming. Connect the DMX output from the master unit to the DMX input of the first slave device. Then you connect the DMX output from the first slave device to the DMX input of the second slave device, and so on.

Power setup

Proper current and voltage are very important for the proper functioning of the device.
The FALCON 540Zrun on 100 to 240-volt AC (+/- 10%, auto adjustment). The device includes an automatic power supply for adjusting voltage.

Proper connection
use it included power cable or one of the same ratings. When using another cable, it is important that the following is observed.

Cable color	Connection explanation	International characters
Brown	Plus	L
Blue	Minus	N
Yellow/Green	Earth	⏚

Accessory

Included

- 2X Omega 1/4 Turn Clamps
- 1x Truecon power cable

Accessories that can be purchased

- MAG diffusers 45,60 & 90 graders
- Barndoors
- Truecon combination cables, with DMX and power in one cable, are available in 3, 5 and 10 meters, other dimensions can be made on order.
- 2in1, 4in1, 6in1 Flight case with space for accessories in the middle.

Description of the device

Front
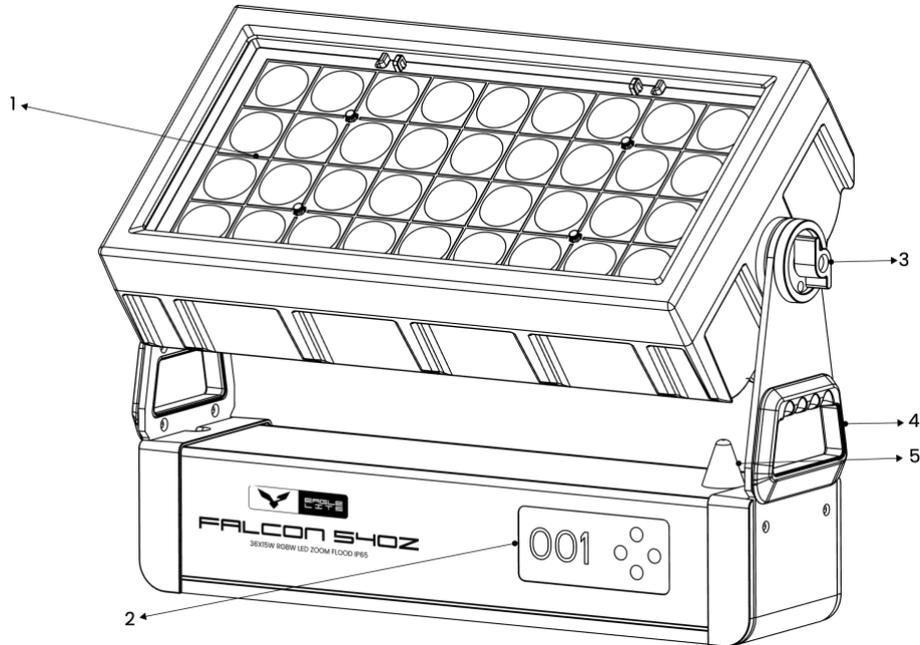
1	Led plate with lenses
2	Control panel, with buttons [MODE], [UP], [DOWN], [ENTER]
3	Locking screw to the LED plate
4	Ergonomic Handles
5	W-DMX-antenna

Backpanel
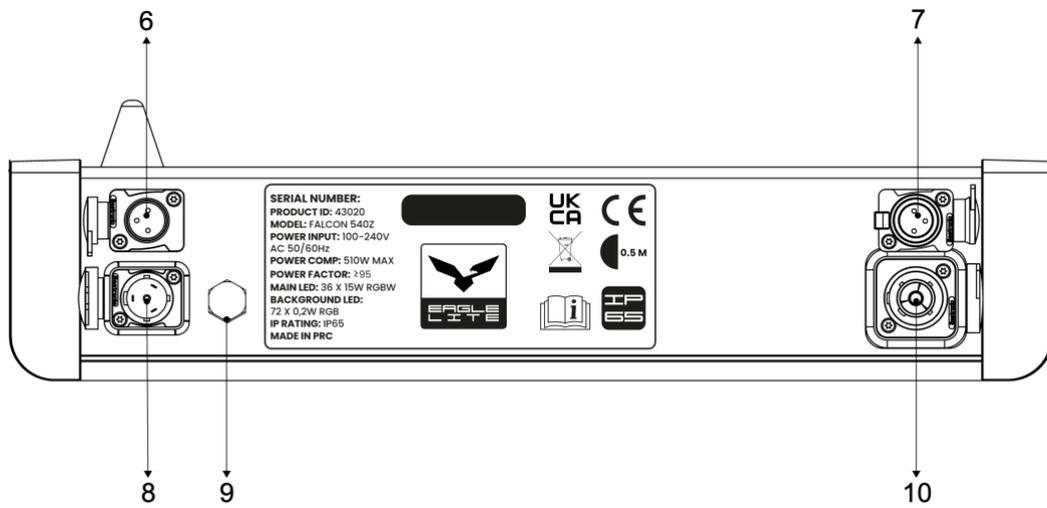
6	DMX IN, IP65 Seetronic
7	DMX Out, IP65 Seetronic
8	POWER IN, True1 IP65 Seetronic
9	Atmospheric valve
10	POWER OUT, True1 IP65 Seetronic

Size measured in mm

510

323

250

96

467

487

226

323

117

FALCON 540Z

36X15W RGBW LED ZOOM FLOOD IP65

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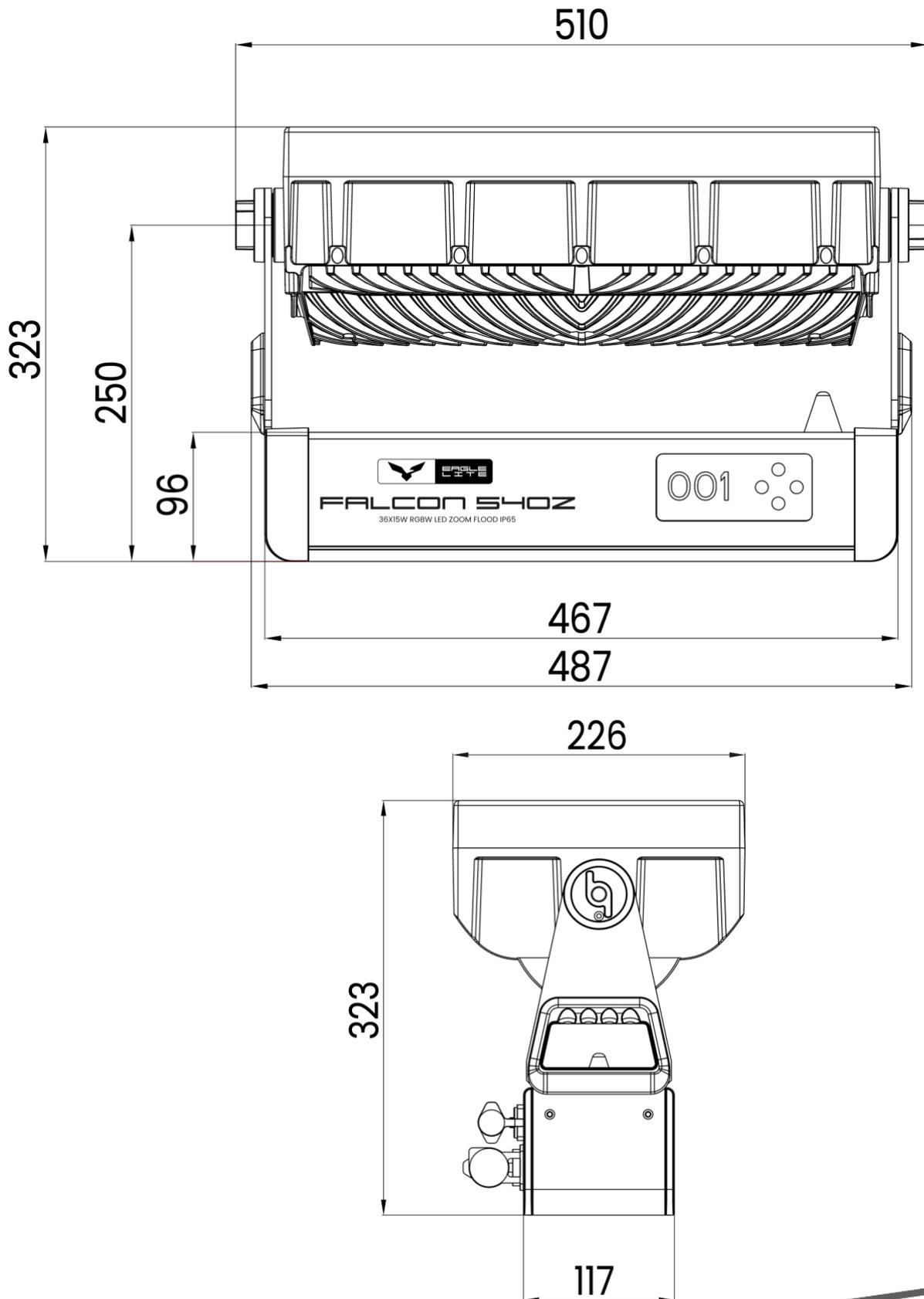
Pixel Section overview

Below is a pixel overview of the different sections that can be controlled.

The numbers match the DMX Chart where the values are Set 1,2,3 or 4
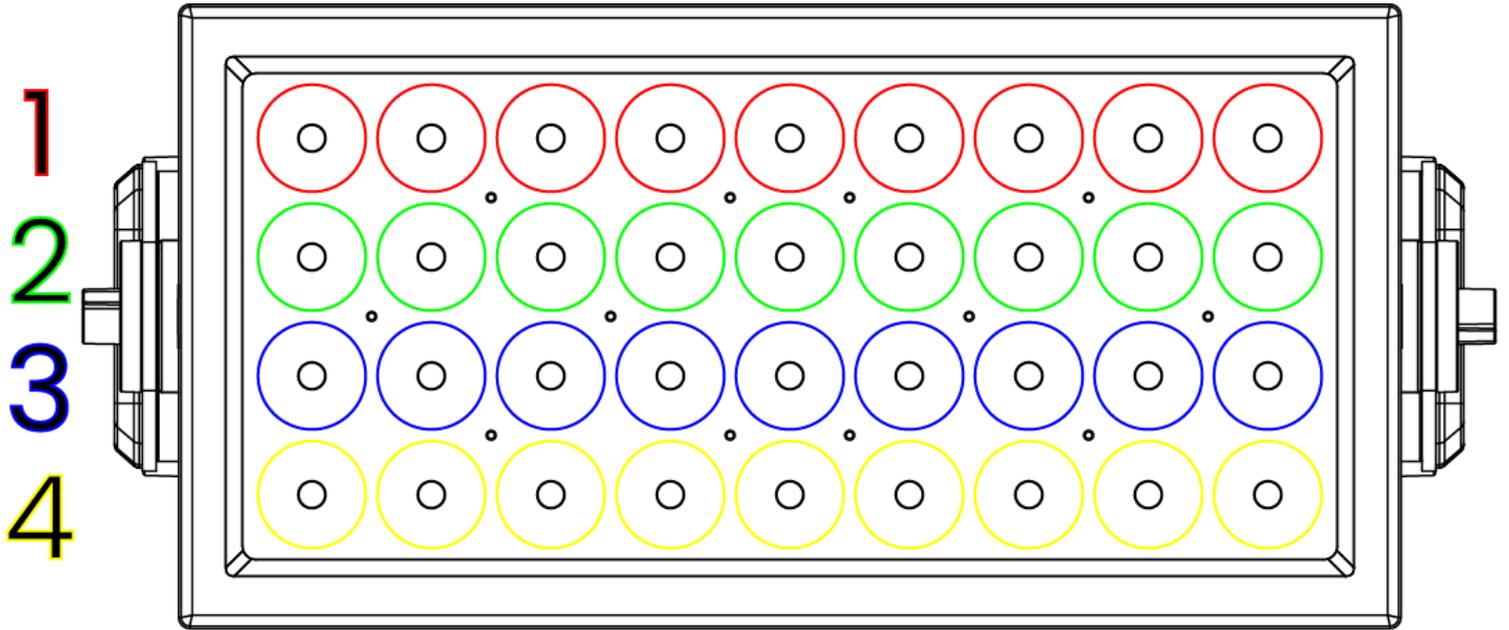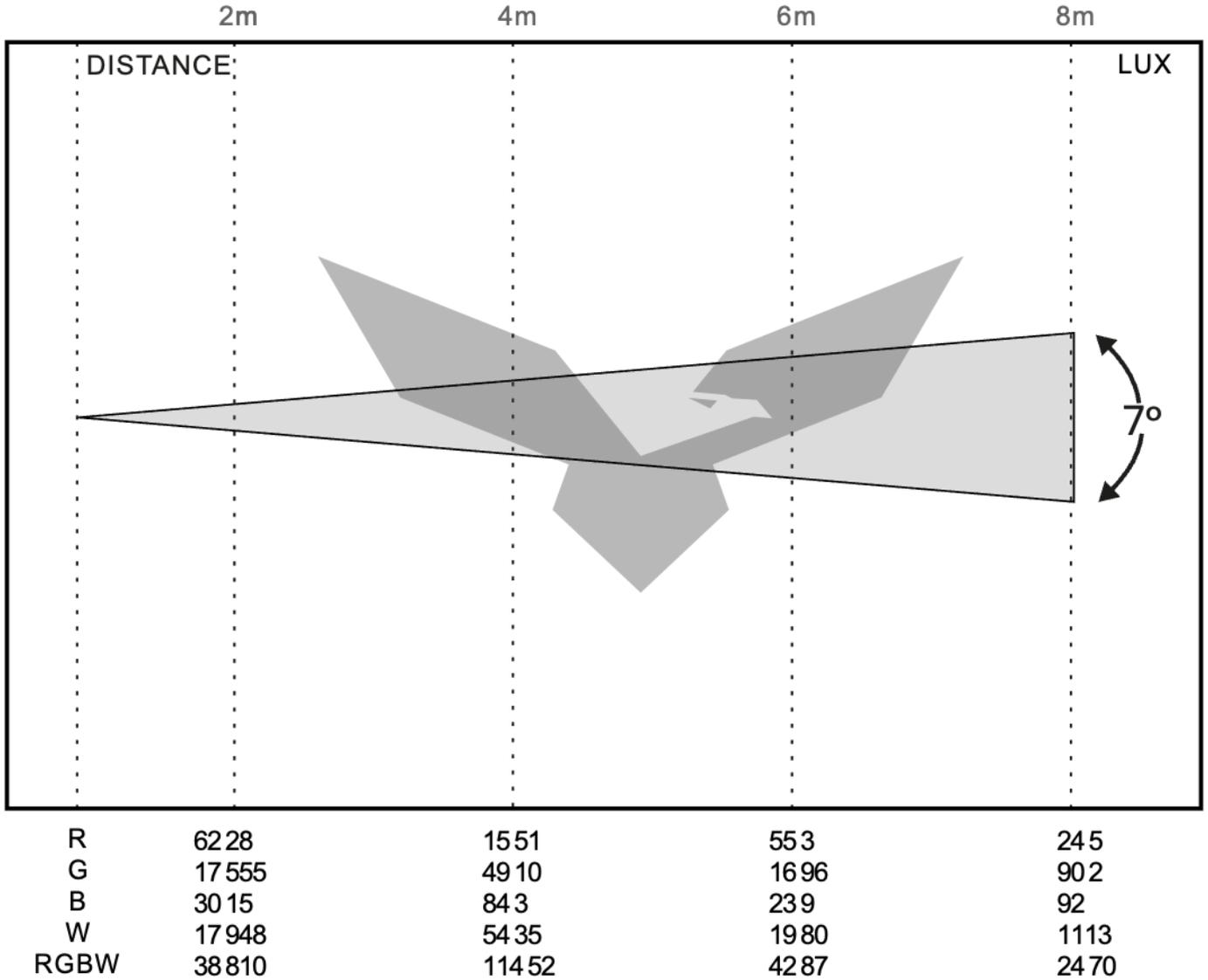
Lux Measurements

	2m	4m	6m	8m
R	62 28	15 51	55 3	24 5
G	175 55	49 10	16 96	90 2
B	30 15	84 3	23 9	92
W	179 48	54 35	19 80	1113
RGBW	388 10	114 52	42 87	24 70

FALCON 540Z 7°

	2m	4m	6m	8m
DISTANCE				LUX

58°

	2m	4m	6m	8m
R	688	163	67	38
G	1903	472	207	120
B	386	98	45	25
W	2176	553	239	137
RGBW	4690	1196	515	293
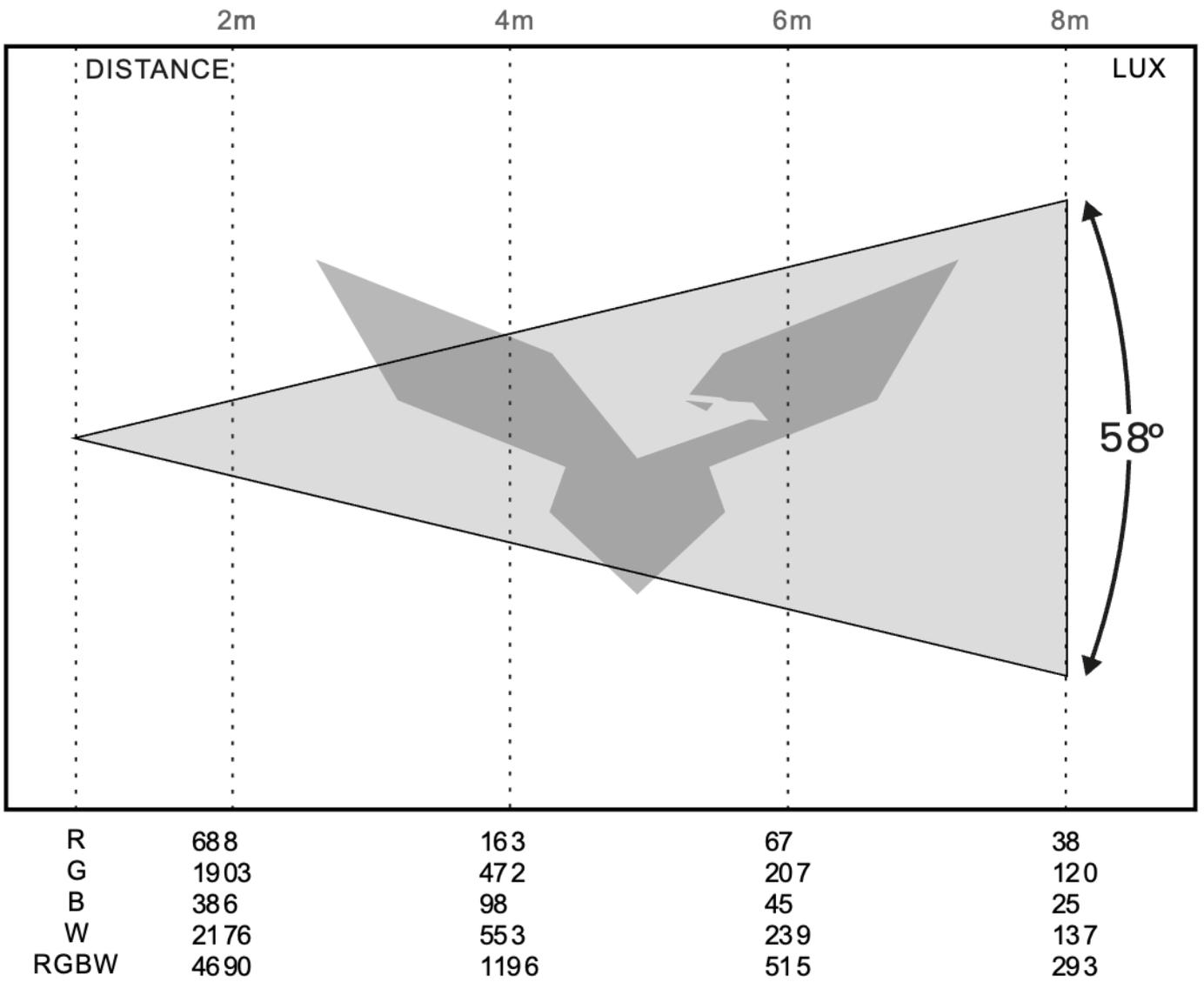
FALCON 540Z 58°

Menu overview

Main Menu	Menu Level 2	Menu Level 3	Menu Level 4	
DMX Address	"Set DMX address"	001-512	Setting the DMX address	
Mode	"DMX Signal Select"	Selection of the DMX signal type		
		"DMX"	Analog DMX signal	
		"Wireless DMX"	DMX via W-DMX	
	"DMX Mode"	Selection of DMX Mode		
		"DMX 3CH"	3 - Channel DMX Mode	
		"DMX 4CH1"	4 - Channel DMX Mode 1	
		"DMX 4CH2"	4 – Channel DMX Mode 2	
		"DMX 5CH"	5 – Channel DMX Mode	
		"DMX 15CH"	15 – Channel DMX Mode	
		"DMX 20CH"	20 – Channel DMX Mode	
		"DMX 21CH"	21 – Channel DMX Mode	
		"DMX 37CH"	37 – Channel DMX Mode	
	"Slave"		Set Fixture to Slave mode	
	"Auto"	"Auto Fading"	0-255	
		"Auto Jumping"	0-255	
	"Static"			
		"Dimmer"	0-255	Overall dimmer
		"Strobe"	0-5	Shutter Open
			6-10	Shutter Closed
			11-33	Random Pulse effect strobe 0-100%
			34-56	Random Ramp-Up effect 0-100%
			57-79	Random Ramp-down effect 0-100%
			80-102	Random Strobe 0-100%
			103-127	Strobe break effect 100-0%
			128-250	Strobe 0-100%
			251-255	Shutter Open
		"Red"	0-255	RED 0-100%
		"Green"	0-255	GREEN 0-100%
		"Blue"	0-255	BLUE 0-100%
		"White"	0-255	WHITE 0-100%
		"Rainbow Effect"	0-5	Effect off
			6-21	Rainbow Effect 1
			22-37	Rainbow Effect 2
			38-53	Rainbow Effect 3
			54-69	Rainbow Effect 4

			70-85	Rainbow Effect 5
			86-101	Rainbow Effect 6
			102-117	Rainbow Effect 7
			118-133	Rainbow Effect 8
			134-149	Rainbow Effect 9
			150-165	Rainbow Effect 10
			166-181	Rainbow Effect 11
			182-197	Rainbow Effect 12
			198-213	Rainbow Effect 13
			214-229	Rainbow Effect 14
			230-255	Rainbow Effect 15
		"Auto"	Auto Show	
			0-5	Effect off
			6-30	Auto Show 1
			31-55	Auto Show 2
			56-80	Auto Show 3
			81-105	Auto Show 4
			106-130	Auto Show 5
			131-155	Auto Show 6
			156-180	Auto Show 7
			181-205	Auto Show 8
			206-230	Auto Show 9
			231-255	Auto Show 10
		"Auto Speed"	0-255	Speed on auto show 0-100%
		"Auto Fade"	0-255	Fade Speed 0-100%
		"Zoom"	0-255	variable angle of radiation 7°...58°
		Ground Dimmer	0-255	Background LED 0-100%
		"Ground Strobe"	0-5	Shutter Open
			6-10	Shutter Closed
			11-33	Random Pulse effect strobe 0-100%
			34-56	Random Ramp-Up effect 0-100%
			57-79	Random Ramp-down effect 0-100%
			80-102	Random Strobe 0-100%
			103-127	Strobe break effect 100-0%
			128-250	Strobe 0-100%
			251-255	Shutter Open
		"Ground Red"	0-255	RED 0-100%
		"Ground Green"	0-255	GREEN 0-100%
		"Ground Blue"	0-255	BLUE 0-100%

		"Color Macro"	Pre-programmed colors	
			"Red"	
			"Amber"	
			"Yellow Warm"	
			"Yellow"	
			"Green"	
			"Turquoise"	
			"Cyan"	
			"Blue"	
			"Lavender"	
			"Purple"	
			"Magenta"	
			"Pink"	
			"Warm White"	
			"White"	
			"Cold White"	
Settings	"Display Rev"			
		"ON"	The display is rotated 180°	
		"OFF"	The display is normal	
	"Display"		Automatic shutdown on display after 10 sec.	
		"ON"	Disabled	
		"OFF"	Enabled	
	"DMX Fail"			
		"Hold"	Holds the last dmx value is have been given	
		"Blackout"	Blackout if there is dmx fail	
	"Dimmer Curve"		Set the desired dimmer curve	
		"Linear"		
		"Exp"	Exponential	
		"Log"	Logarithmic	
		"S-Curve"	S-Shaped curve	
	"Dimmer Response"		Dimmer characteristic	
		"LED"	Dimmer characteristic as a normal LED source	
		"Halogen"	Dimmer characteristic as a Halogen source	
	"LED Frequency"	"800 Hz"	Refresh rate of the led 800 Hz	
		"1200 Hz"	Refresh rate of the led 1200 Hz	
		"2000 Hz"	Refresh rate of the led 2000 Hz	
		"3600 Hz"	Refresh rate of the led 3600 Hz	
		"25 KHz"	Refresh rate of the led 25 KHz	
	"White Balance"		Adjust the white balance	
		"Red"	0-255	Red adjustment
		"Green"	0-255	Green adjustment
		"Blue"	0-255	Blue adjustment
		"White"	0-255	White adjustment

	"Calibrate"	"Zoom"	0-127	Adjust the narrow angle start point
			128-255	Adjust the wide angle start point
	"Fan set"		Adjust the fan speed	
		"Regular"	If the temperature exceeds the threshold, the fan speed will increase.	
		"Silent"	Lower RPM in the Fan plus If the temperature exceeds the threshold, the light output is reduced; fan speed remains the same.	
	"Wireless DMX"		Reset the wireless dmx signal	
		"Reset Wireless DMX Memory"	"No"	The wireless dmx is not getting reset
			"Yes"	The wireless dmx is getting a reset
	"Test"		Auto self-test	
		"ALL"	Test all functions	
		"Zoom"	Test Zoom	
		"Beam Led"	Test Main Led	
		"Ground Led"	Test Background Led	
	"Factory Reset"		Reset to factory defaults	
	"Key Lock"		Lock on the button	
		"OFF"	Turned off	
		"ON"	Enabled To unlock the keys, press successively [ENTER], [UP], [DOWN], [UP], [DOWN] and [ENTER].	
"System Info"	"Firmware"	Shows the firmware version of the device		
	"Temperature"	"Led Temp"	Shows temperature on the Led	
		"Unit Temp"	Choose temperature units	
			"Fahrenheit"	
			"Celsius"	
	"Time Info"		Operating hours display	
		"Power on"	Total operating hours	
		"Last run hrs"	Operating hours since last power up	

Screen behavior in DMX Mode

On the top line of the display, DMX (DMX 3Ch, 4Ch1, 4Ch2, 5Ch, 15Ch, 20Ch, 21Ch, 37Ch) is displayed, and the DMX starting address is clearly displayed in the center (for example, DMX37Ch and ADDRESS 001).
As soon as the DMX signal is interrupted, the display starts flashing; if the DMX signal is present again, the display stops flashing.

If the unit is controlled by W-DMX, [W-DMX LED] flashes on the front of the unit. On the screen, the strength of the signal can be seen.

No Signal	Weak Signal	Medium Signal	Strong signal
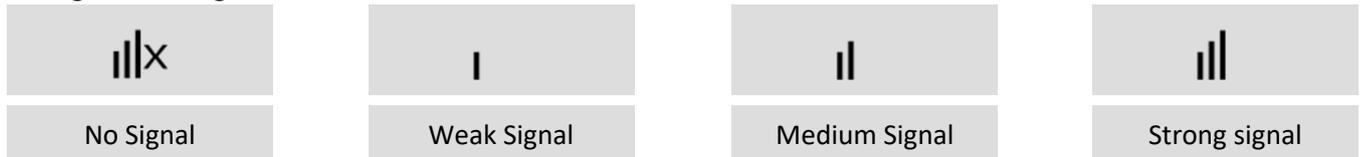
FALCON 540Z
36X15W RGBW LED ZOOM
NR: 403120
Wall Washer

Specifications

Description	Data
Light Source	36 X 15W RGBW LED
Light Source Background	72 X 0.2WW RGBW
Beam Angle	7-58°
Control	DMX
	W-DMX
	Static, Master Slave, Auto, Rainbow effects.
Dmx Modes	3Ch, 4Ch1, 4Ch2, 5Ch, 15Ch, 20Ch, 21Ch, 37Ch channels
Input connector	Power: True1 IP65 / DMX: XLR 3 or 5-Pin IP65
Output connector	Power: True1 IP65 / DMX: XLR 3 or 5-Pin IP65
W-DMX	Frequency range: 2.400 GHz – 2.4835 GHz
	Maximum transmission power: 10 mW or 10 dBm
	radius: 50 m
Power supply	AC 100 - 240 V 50/60 Hz
Power consumption	500 watts
Power Factor	>0.95
Start-up power	60 A / 375 µs
Protection class	IP65
Mounting options	Hanging with the included Omega Bracket Standing
Size (WxHxD)	510 mm X 323 mm X 226mm
Weight	15.0 Kg

FALCON 540Z
36X15W RGBW LED ZOOM
NR: 403120
Wall Washer

DMX CHART

Features of 3CH Mode

3CH Mode	Function	DMX Value	Description
1	Zoom	0-255	Zoom 7-58°
2	Dimmer	0-255	0-100% dimmer
3	Colour Macro	0-5	Blackout
		6-13	Red
		14-21	Amber
		22-29	Yellow/Amber
		30-37	Yellow
		38-45	Green
		46-53	Turquoise
		54-61	Cyan
		62-69	Blue
		70-77	Lavender
		78-85	Mallow
		86-93	Magenta
		94-101	Pink
		102-109	Warm White, 3200K
		110-117	White, 5600K
		118-125	Cold White, 7200K
		126-127	Color jump stop
		128-191	Color Jump, Speed 0 -> 100%
		192-255	Colour Fade, Speed 0 -> 100%

Features of 4CH Mode 1

4CH Mode 1	Function	DMX Value	Description
1	Zoom	0-255	Zoom 7-58°
2	Dimmer	0-255	0-100% dimmer
3	Shutter	0-5	Shutter Open
		6-10	Shutter Closed
		11-250	Strobe slow -> Fast [1Hz-20Hz]
		251-255	Shutter Open
4	Colour Macro	0-5	Blackout
		6-13	Red
		14-21	Amber
		22-29	Yellow/Amber
		30-37	Yellow
		38-45	Green
		46-53	Turquoise
		54-61	Cyan

		62-69	Blue
		70-77	Lavender
		78-85	Mallow
		86-93	Magenta
		94-101	Pink
		102-109	Warm White, 3200K
		110-117	White, 5600K
		118-125	Cold White, 7200K
		126-127	Color jump stop
		128-191	Color Jump, Speed 0 -> 100%
		192-255	Colour Fade, Speed 0 -> 100%

Features of 4CH Mode 2

4CH Mode 2	Function	DMX Value	Description
1	Zoom	0-255	Zoom 7-58°
2	Red	0-255	0-100% Red Dimmer
3	Green	0-255	0-100% Green Dimmer
4	Blue	0-255	0-100% Blue Dimmer

Features of 5CH Mode

5CH Mode	Function	DMX Value	Description
1	Zoom	0-255	Zoom 7-58°
2	Red	0-255	0-100% Red Dimmer
3	Green	0-255	0-100% Green Dimmer
4	Blue	0-255	0-100% Blue Dimmer
5	White	0-255	0-100% White Dimmer

Features of 15CH Mode

15CH Mode	Function	DMX Value	Description
1	Zoom	0-255	Zoom 7-58°
2	Dimmer	0-255	0-100% dimmer
3	Shutter	0-5	Shutter Open
		6-10	Shutter Closed
		11-250	Strobe slow -> Fast [1Hz-20Hz]
		251-255	Shutter Open
4	Red	0-255	0-100% Red Dimmer
5	Green	0-255	0-100% Green Dimmer
6	Blue	0-255	0-100% Blue Dimmer
7	White	0-255	0-100% White Dimmer

8	Colour Macro	0-5	Blackout
		6-13	Red
		14-21	Amber
		22-29	Yellow/Amber
		30-37	Yellow
		38-45	Green
		46-53	Turquoise
		54-61	Cyan
		62-69	Blue
		70-77	Lavender
		78-85	Mallow
		86-93	Magenta
		94-101	Pink
		102-109	Warm White, 3200K
		110-117	White, 5600K
		118-125	Cold White, 7200K
		126-127	Color jump stop
		128-191	Color Jump, Speed 0 -> 100%
		192-255	Colour Fade, Speed 0 -> 100%
9	Dimmer Curve	0-5	No Function
		6-63	Linear Dimmer Curve
		64-127	Exponential Dimmer Curve
		128-191	Logarithmic Dimmer Curve
		192-255	S-Curve Dimmer Curve
10	Special Functions	0-5	No Function
		6-63	Dimmer characteristic 'LED' (3 s delay)
		64-127	Dimmer characteristic 'Halogen' (5 s delay)
		128-191	Fan speed setting 'Silent' activated (3 s delay)
		192-255	Fan speed setting 'Silent' deactivated (3 s delay)
11	Dimmer Background effect	0-255	Dimmer 0-100%
12	Background shutter	0-0	Shutter Open
		1-255	Strobe 0-100% [1Hz-20Hz]
13	Background Red	0-255	Red 0-100%
14	Background Green	0-255	Green 0-100%
15	Background Blue	0-255	Blue 0-100%

Features of 20CH Mode

20CH Mode	Function	DMX Value	Description
1	Zoom	0-255	Zoom 7-58°
2	Red 1	0-255	0-100% Red Dimmer
3	Green 1	0-255	0-100% Green Dimmer
4	Blue 1	0-255	0-100% Blue Dimmer
5	White 1	0-255	0-100% White Dimmer
6	Red 2	0-255	0-100% Red Dimmer
7	Green 2	0-255	0-100% Green Dimmer
8	Blue 2	0-255	0-100% Blue Dimmer
9	White 2	0-255	0-100% White Dimmer
10	Red 3	0-255	0-100% Red Dimmer
11	Green 3	0-255	0-100% Green Dimmer
12	Blue 3	0-255	0-100% Blue Dimmer
13	White 3	0-255	0-100% White Dimmer
14	Red 4	0-255	0-100% Red Dimmer
15	Green 4	0-255	0-100% Green Dimmer
16	Blue 4	0-255	0-100% Blue Dimmer
17	White 4	0-255	0-100% White Dimmer
18	Background Red	0-255	Red 0-100%
19	Background Green	0-255	Green 0-100%
20	Background Blue	0-255	Blue 0-100%

Features of 21CH Mode

21CH Mode	Function	DMX Value	Description
1	Zoom	0-255	Zoom 7-58°
2	Zoom Speed	0-255	Fast -> Slow
3	Dimmer	0-255	0-100% dimmer
4	Shutter	0-5	Shutter Open
		6-10	Shutter Closed
		11-33	Random Pulse effect strobe 0-100%
		34-56	Random Ramp-Up effect 0-100%
		57-79	Random Ramp-down effect 0-100%
		80-102	Random Strobe 0-100%
		103-127	Strobe break effect 100-0% [5s-1s between brakes]
		128-250	Strobe 0-100% [1Hz-20Hz]
		251-255	Shutter Open
5	Red	0-255	0-100% Red Dimmer

6	Green	0-255	0-100% Green Dimmer
7	Blue	0-255	0-100% Blue Dimmer
8	White	0-255	0-100% White Dimmer
9	Colour Macro (Override RGBW)	0-5	Blackout
		6-13	Red
		14-21	Amber
		22-29	Yellow/Amber
		30-37	Yellow
		38-45	Green
		46-53	Turquoise
		54-61	Cyan
		62-69	Blue
		70-77	Lavender
		78-85	Mallow
		86-93	Magenta
		94-101	Pink
		102-109	Warm White, 3200K
		110-117	White, 5600K
		118-125	Cold White, 7200K
		126-127	Color jump stop
		128-191	Color Jump, Speed 0 -> 100%
		192-255	Colour Fade, Speed 0 -> 100%
10	Rainbow Effect	0-5	Effect off
		6-21	Rainbow Effect 1
		22-37	Rainbow Effect 2
		38-53	Rainbow Effect 3
		54-69	Rainbow Effect 4
		70-85	Rainbow Effect 5
		86-101	Rainbow Effect 6
		102-117	Rainbow Effect 7
		118-133	Rainbow Effect 8
		134-149	Rainbow Effect 9
		150-165	Rainbow Effect 10
		166-181	Rainbow Effect 11
		182-197	Rainbow Effect 12
		198-213	Rainbow Effect 13
		214-229	Rainbow Effect 14
		230-255	Rainbow Effect 15
11	Auto Shows	0-5	Effect off
		6-30	Auto Show 1
		31-55	Auto Show 2
		56-80	Auto Show 3
		81-105	Auto Show 4
		106-130	Auto Show 5

		131-155	Auto Show 6
		156-180	Auto Show 7
		181-205	Auto Show 8
		206-230	Auto Show 9
		231-255	Auto Show 10
12	Auto Speed	0-255	Speed on auto show 0-100%
13	Auto Fade	0-255	Fade Speed 0-100%
14	Dimmer Curve	0-5	No Function
		6-63	Linear Dimmer Curve
		64-127	Exponential Dimmer Curve
		128-191	Logarithmic Dimmer Curve
		192-255	S-Curve Dimmer Curve
15	Special Functions	0-5	No Function
		6-63	Dimmer characteristic 'LED' (3 s delay)
		64-127	Dimmer characteristic 'Halogen' (5 s delay)
		128-191	Fan speed setting 'Silent' activated (3 s delay)
		192-255	Fan speed setting 'Silent' deactivated (3 s delay)
16	Dimmer Background effect	0-255	Dimmer 0-100%
17	Background shutter	0-0	Shutter Open
		1-255	Strobe 0-100% [1Hz-20Hz]
18	Background Red	0-255	Red 0-100%
19	Background Green	0-255	Green 0-100%
20	Background Blue	0-255	Blue 0-100%
21	Backgroundcolour Macro (Override RGBW)	0-5	Blackout
		6-13	Red
		14-21	Amber
		22-29	Yellow/Amber
		30-37	Yellow
		38-45	Green
		46-53	Turquoise
		54-61	Cyan
		62-69	Blue
		70-77	Lavender
		78-85	Mallow
		86-93	Magenta
		94-101	Pink
		102-109	Warm White, 3200K
		110-117	White, 5600K
		118-125	Cold White, 7200K
		126-127	Color jump stop

| | | 128-191 | Color Jump, Speed 0 -> 100% |
| | | 192-255 | Colour Fade, Speed 0 -> 100% |

Features of 37CH Mode

37CH Mode	Function	DMX Value	Description
1	Zoom	0-255	Zoom 7-58°
2	Zoom Speed	0-255	Fast -> Slow
3	Dimmer	0-255	0-100% dimmer
4	Shutter	0-5	Shutter Open
		6-10	Shutter Closed
		11-33	Random Pulse effect strobe 0-100%
		34-56	Random Ramp-Up effect 0-100%
		57-79	Random Ramp-down effect 0-100%
		80-102	Random Strobe 0-100%
		103-127	Strobe break effect 100-0% [5s-1s between brakes]
		128-250	Strobe 0-100% [1Hz-20Hz]
		251-255	Shutter Open
5	Red	0-255	0-100% Red Dimmer
6	Green	0-255	0-100% Green Dimmer
7	Blue	0-255	0-100% Blue Dimmer
8	White	0-255	0-100% White Dimmer
9	Colour Macro (Override RGBW)	0-5	Blackout
		6-13	Red
		14-21	Amber
		22-29	Yellow/Amber
		30-37	Yellow
		38-45	Green
		46-53	Turquoise
		54-61	Cyan
		62-69	Blue
		70-77	Lavender
		78-85	Mallow
		86-93	Magenta
		94-101	Pink
		102-109	Warm White, 3200K
		110-117	White, 5600K
		118-125	Cold White, 7200K
		126-127	Color jump stop
		128-191	Color Jump, Speed 0 -> 100%
		192-255	Colour Fade, Speed 0 -> 100%

10	Rainbow Effect	0-5	Effect off
		6-21	Rainbow Effect 1
		22-37	Rainbow Effect 2
		38-53	Rainbow Effect 3
		54-69	Rainbow Effect 4
		70-85	Rainbow Effect 5
		86-101	Rainbow Effect 6
		102-117	Rainbow Effect 7
		118-133	Rainbow Effect 8
		134-149	Rainbow Effect 9
		150-165	Rainbow Effect 10
		166-181	Rainbow Effect 11
		182-197	Rainbow Effect 12
		198-213	Rainbow Effect 13
		214-229	Rainbow Effect 14
		230-255	Rainbow Effect 15
11	Auto Shows	0-5	Effect off
		6-30	Auto Show 1
		31-55	Auto Show 2
		56-80	Auto Show 3
		81-105	Auto Show 4
		106-130	Auto Show 5
		131-155	Auto Show 6
		156-180	Auto Show 7
		181-205	Auto Show 8
		206-230	Auto Show 9
		231-255	Auto Show 10
12	Auto Speed	0-255	Speed on auto show 0-100%
13	Auto Fade	0-255	Fade Speed 0-100%
14	Dimmer Curve	0-5	No Function
		6-63	Linear Dimmer Curve
		64-127	Exponential Dimmer Curve
		128-191	Logarithmic Dimmer Curve
		192-255	S-Curve Dimmer Curve
15	Special Functions	0-5	No Function
		6-63	Dimmer characteristic 'LED' (3 s delay)
		64-127	Dimmer characteristic 'Halogen' (5 s delay)
		128-191	Fan speed setting 'Silent' activated (3 s delay)
		192-255	Fan speed setting 'Silent' deactivated (3 s delay)
16	Red 1	0-255	0-100% Red Dimmer

17	Green 1	0-255	0-100% Green Dimmer
18	Blue 1	0-255	0-100% Blue Dimmer
19	White 1	0-255	0-100% White Dimmer
20	Red 2	0-255	0-100% Red Dimmer
21	Green 2	0-255	0-100% Green Dimmer
22	Blue 2	0-255	0-100% Blue Dimmer
23	White 2	0-255	0-100% White Dimmer
24	Red 3	0-255	0-100% Red Dimmer
25	Green 3	0-255	0-100% Green Dimmer
26	Blue 3	0-255	0-100% Blue Dimmer
27	White 3	0-255	0-100% White Dimmer
28	Red 4	0-255	0-100% Red Dimmer
29	Green 4	0-255	0-100% Green Dimmer
30	Blue 4	0-255	0-100% Blue Dimmer
31	White 4	0-255	0-100% White Dimmer
32	Dimmer Background effect	0-255	Dimmer 0-100%
33	Background shutter	0-0	Shutter Open
		1-255	Strobe 0-100% [1Hz-20Hz]
34	Background Red	0-255	Red 0-100%
35	Background Green	0-255	Green 0-100%
36	Background Blue	0-255	Blue 0-100%
37	Color Macro (Override RGBW)	0-5	Blackout
		6-13	Red
		14-21	Amber
		22-29	Yellow/Amber
		30-37	Yellow
		38-45	Green
		46-53	Turquoise
		54-61	Cyan
		62-69	Blue
		70-77	Lavender
		78-85	Mallow
		86-93	Magenta
		94-101	Pink
		102-109	Warm White, 3200K
		110-117	White, 5600K
		118-125	Cold White, 7200K
		126-127	Color jump stop
		128-191	Color Jump, Speed 0 -> 100%
		192-255	Colour Fade, Speed 0 -> 100%

Company info

Mail: info@eaglelite.dk

TLF: +45 27 58 72 31

WEB: https://eaglelite.dk/

Company: Eagle Lite

VATID: DK39524627