Fiilex®

G6 COLOR

USER MANUAL

Model No:FLXG6CLR
175W Cinematic LED Ellipsoidal Light

English Version
Rev.01 - 09/11/2024

Thank you for choosing Fiilex

Please note that every Fiilex product has been designed in the USA to meet quality and performance requirements for professionals and manufactured for the use and application as shown in this document.

Any other use, if not expressly indicated, could compromise the condition and operation of the product and/or be a source of danger.

This product is meant for professional use. Therefore, commercial use of this equipment is subject to applicable national accident prevention rules and regulations.

Features, specifications, and appearance are subject to change without notice. Fiilex and all affiliated companies are not liable for for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document.

Product datasheets can be downloaded from the website www.fiilex.com or can be received from the official Fiilex customer service team (Fiilex@fiilex.com).

For the most up-to-date technical documentation including specifications, datasheets, technical drawings, photometrics, DMX personalities, and fixture firmware updates, as well as a full list of authorized distributors and repair centers worldwide, please visit www.fiilex.com or contact the customer service team.

SERVICE ADDRESS

US, Fiilex	**Germany, Lightpower**	**France, Innport**	**UK, Cirrolite**
1689 Regatta Blvd.	An der Talle 24-28	11B Rue de Berlin	3 Barretts Green Road
Richmond, CA 94804	D-33102 Paderborn	Parc Aquatechnique	London NW10 7AE
USA	Germany	34200 SÈTE	United Kingdom
		Hérault, France	
(510) 620 5155	+49 5251 1432 0	+33 0 980 749 802	+44 20 8955 6700
fiilex@fiilex.com	sales@lightpower.de	contact@innport.eu	info@cirrolite.com

INDEX

INTRODUCTION 02

INDEX 03

SAFETY INFORMATION 05

WARRANTY 08

1 - PACKAGING 09
- PACKAGE CONTENTS 09
- OPTIONAL ACCESSORIES 09

2 - SPECIFICATIONS 09

3 - TECHNICAL DRAWING INFORMATION 10

4 - PHOTOMETRIC DATA 10

5 - BEAM PROFILE 11

6 - INSTALLATION 12
- MOUNTING 12

8 - START UP 13
- CONNECT AND DISCONNECT POWER 13

9 - PRODUCT OVERVIEW 14
- PARTS DIAGRAM 14

10 - CONTROL PANEL 15
- DISPLAY AND BUTTON LAYOUT 15
- KNOB FUNCTION 16
- KNOB BEHAVIOR FOR ALL MODES 16

11 - DMX CONNECTION 17
- CONNECTION OF THE DMX SIGNAL 17
- INSTRUCTIONS FOR A RELIABLE DMX CONNECTION 17
- DAISY CHAINING 17
- DMX TERMINATION 18
- DMX ADDRESSING 18

12 - MENU STRUCTURE 19
- MENU 19

13 - DMX MAPPING 21
- NOTES 21
- DMX MODES 22

14 - RDM FUNCTIONS 47

15 - ACCESSORIES ADJUSTMENTS 54
ADDITIONAL ACCESSORIES 54

16 - MAINTENANCE 57
MAINTENANCE AND CLEANING 57
VISUAL CHECK OF PRODUCT HOUSING 58

17 - TROUBLESHOOTING 59

18 - ERROR CODES LIST 60

SAFETY INFORMATION

IMPORTANT Read carefully before use and keep for future reference.

This unit is only for professional applications. It is not for household use.

Connection to AC power supply:

- The connection to the AC power supply must be carried out by a qualified electrical installer.
- Use only 100-240V AC, 50-60 Hz input. Ensure the fixture is properly grounded.
- Ensure the electrical system is appropriately sized to the maximum current draw of the product and the possible number of products connected at the same circuit.
- Do not connect the product to a dimmer system; doing so may damage the product.

Protection and Warning against electrical shock

- Do not remove the housing of the product. Always disconnect the product from AC power before servicing.
- Ensure that the fixture is properly grounded.
- Ensure the source of AC power complies with local building and electrical codes and has both overload and ground-fault protection.
- Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Remove the fixture from power immediately if the power plug or any seal, cover, cable, or other components are damaged, defective, deformed, or showing signs of overheating.
- Do not reapply power until repairs have been completed.
- Refer any service operation not described in this manual to the Fiilex Customer Service team.

Installation

- Make sure that all visible parts of the product are in good condition before its use or installation.
- Make sure the point of anchorage is stable before positioning the fixture.
- When suspending the fixture above ground level, secure it against failure of primary attachments by attaching a safety cable that is approved as a safety attachment for the weight of the fixture.
- Install the product only in well-ventilated places.
- For non temporary installations ensure that the fixture is securely fastened to a load-bearing surface with suitable corrosion-resistant hardware.
- For a temporary installation with clamps, ensure that all fasteners and/or screws are secured fully, and the fixture is secured with a suitable safety cable.

Protection from burns and fire

- The exterior of the fixture becomes hot during use. Avoid contact with persons and materials.
- Ensure that there is free and unobstructed airflow around the fixture.
- Keep flammable materials well away from the fixture.
- Do not expose the front lens to sunlight or any other strong light source from any angle.
- Lenses can focus the sun's rays inside the fixture, creating a potential fire hazard.
- Do not attempt to bypass thermostatic switches or fuses.

SAFETY INFORMATION

Maintenance

• **Warning!** Disconnect the fixture from AC power and allow it to cool for at least 10 minutes before handling.
• Only technicians who are authorized by Fiilex or Authorized service partners are permitted to open the fixture.
• Users may carry out external cleaning, following the warnings and instructions provided, but any service operation not described in this manual must be referred to a qualified service technician.
• Important! Excessive dust, smoke fluid, and particle build-up all degrade performance, cause overheating, and will damage the fixture. Damages caused by inadequate cleaning or maintenance is not covered by the product warranty.

Transportation

• LED lights should be shipped in sturdy packaging to prevent damage during transit.
• Avoid extreme hot or cold temperatures when transporting.
• Handle products carefully to prevent dropping or impacts.

Storage

• Store in a dry, room-temperature environment away from moisture/humidity.
• Avoid storing in very hot or freezing areas for extended periods.
• Packaging should protect against dust/debris when not in use.

Power Supply/Driver Space

• Allow several inches of clearance around any external power supply units or LED drivers for ventilation and heat dissipation.

Light Head Clearances

• Provide at least 6-12 inches of clearance from any walls or surfaces to avoid heating issues.
• Ideal spacing between multiple LED light heads depends on their beam angles, but 2-4 feet is typical to prevent overlapping hot spots.

Set/Subject Spacing

• The minimum distance from the LED front to a subject depends on the beam angle and intensity of the particular model.
• For broad sources, 3-6 feet is common, while narrow beam LED lights may need 6-10 feet of working distance.

Cable Management

• Leave enough space to neatly arrange power and data cables without pinching or excessive bending.

Do not stare at the operating light source

• Do not look directly at the LED source during operation. It can be harmful to the eyes and skin.
• During Installation, operation, and maintenance, be prepared for the fixture to illuminate when connected to power.

Photobiological safety

• This device emits potentially dangerous optical radiation and is identified in the category of Risk Group 1 according to EN 62471.

SAFETY INFORMATION

Disposal

• This product is supplied in compliance with European Directive 2012/19/EU –
Waste Electrical and Electronic Equipment (WEEE). To preserve the environment please dispose/ recycle this product at the end of its life according to the local regulation.

The products to which this manual refers comply with

• 2014/35/EU - Safety of electrical equipment supplied at low voltage (LVD).
• 2014/30/EU - Electromagnetic Compatibility (EMC).
• 2011/65/EU - Restriction of the use of certain hazardous substances (RoHS).

The products referred to in this manual comply with

• UL 1573 + CSA C22.2 No. 166 - Stage and studio luminaires and connection strips.

FCC Compliance

• This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
  1. This device may not cause harmful interference.
  2. This device must accept any interference received, including interference that may cause undesired operation.

WARRANTY

Unless otherwise stated, your product is covered by a **one-year parts and labor limited warranty.**

Fiilex guarantees, to the original buyer, that this product is to be free of defects in both workmanship and material for a period of one year from the date of shipment. This warranty extends to all products which have proved defective through normal use but excludes products that have been disassembled, modified, or misused by the buyer or any other person. This warranty is in lieu of all other warranties, and disclaims all warranties expressed or implied, including any warranty of merchantability, fitness for a particular purpose, or arising from the course of dealing between the parties or usage of trade.

Returning an item under warranty for repair

It is necessary to obtain a Return Authorization Number (RA#) from your dealer/point of purchase BEFORE any units are returned for repair. Fiilex will make the final determination as to whether or not the unit is covered by warranty. Fiilex will replace or repair to proper working condition any products that are returned under warranty. Products repaired or replaced under warranty are under warranty only for the remaining unexpired period of time of the original warranty.

Any Product unit or part returned to Fiilex must be packaged in a suitable manner to ensure the protection of such Product units or parts. The package must be clearly and prominently marked to indicate that the package contains returned Product units or parts with a Return Authorization (RA#) number. All returned product units or parts must be accompanied by a written explanation of the alleged problem or malfunction.

- DO NOT obstruct the fixture's air vents.
- DO NOT install the light fixture in damp or wet locations.
- DO NOT disassemble the light fixture. This will void the warranty.
- DO NOT look into the light source. Be cautious of the high-intensity beam.
- The luminaire should be operated by trained users only.
- Use a safety cable (not included) when rigging the light fixture overhead.
- Shields and lenses shall be changed if they have become visibly damaged.
- If damaged, the luminaire must be repaired or replaced before further use.
- Only use Fiilex approved power supply and accessories. Failure to do so may damage the fixture and will void the fixture's warranty.

1 - PACKAGING

Package contents

- 1x G6 COLOR w/ LumenRadio
- 1x FLXG6CLR-PSU-185V
- 1x FLXG6CLR-PSU-ACJ6-TRUE1

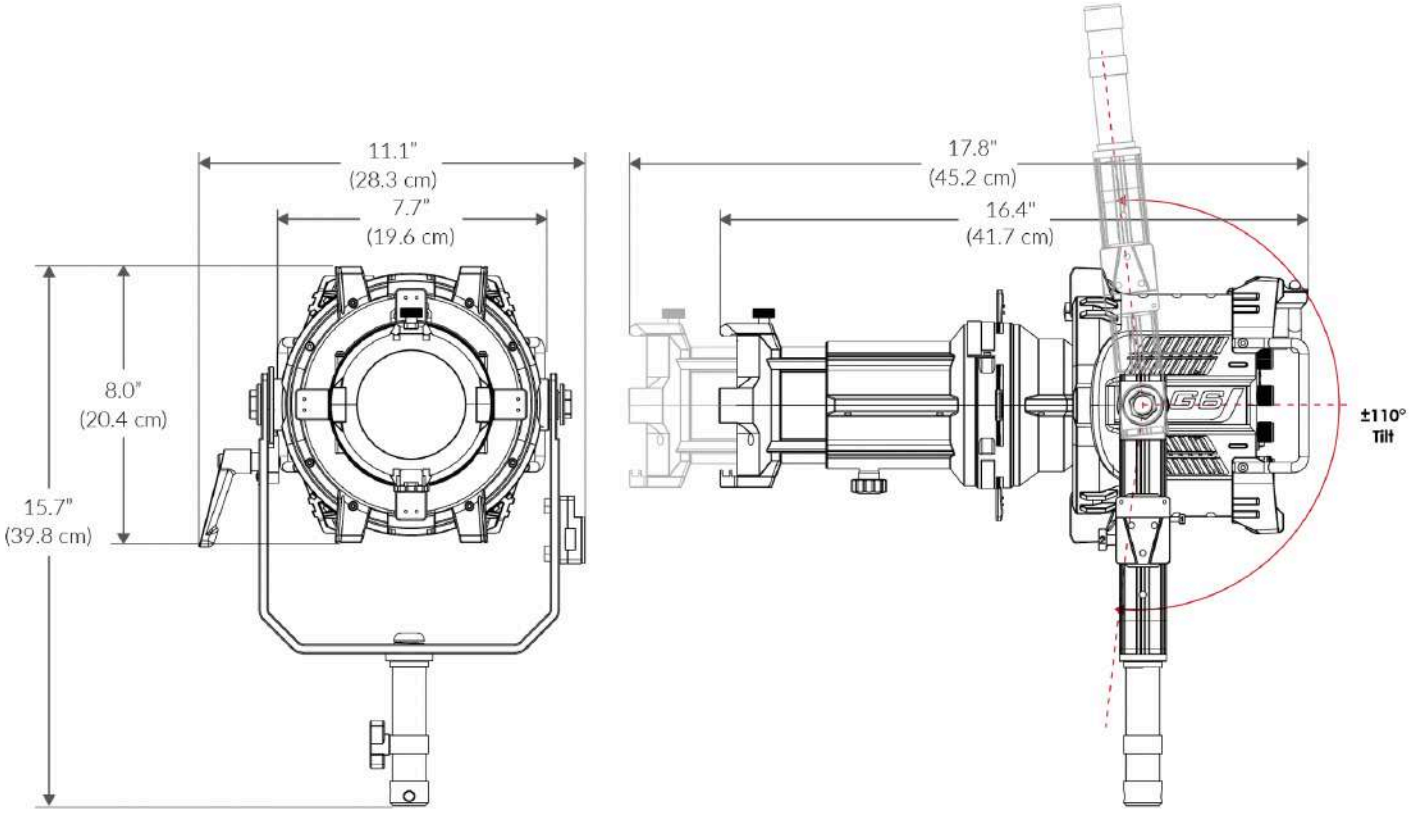
Optional accessories

The most updated accessories list, descriptions, and information about the product can be found on the Fiilex webpage at www.fiilex.com

2 - SPECIFICATION

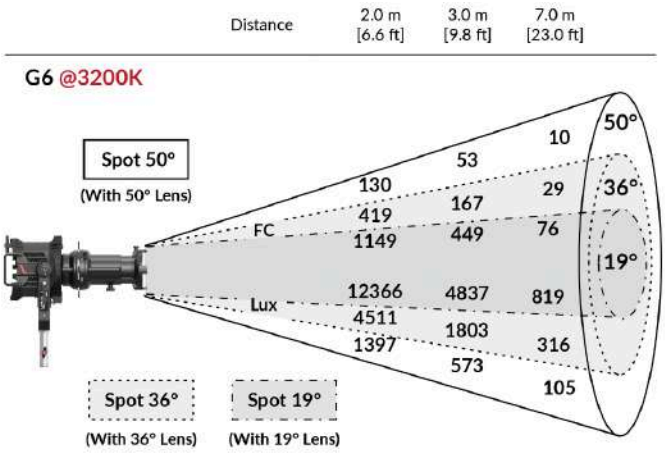
Field Angle	19° / 36°/ 50° lens tube
CCT Range	2000-10000K continuous tuning + magenta/green shift
CRI / TLCI	95/90 typical
Control Modes	CCT, HSI, RGBW, GEL, CCTRGBW, CCTHSI, CIExy, ICTHS, and more
Dimming	100% - 0% flicker free
Dimming Modes / Curves	Smooth, Sharp / Linear, Gamma
Light Engine	DiCon Dense Matrix LED
Power Consumption	175W max AC | 160W max DC
BTUs/hour	596 (BTUs/hour) max
DC Input	24 - 48V DC (via XLR-3 Port)
AC Input	100 - 240V AC, 50 ~ 60Hz
DMX/RDM Port	XLR-5 in and out
Wireless Control	Integrated LumenRadio CRMX
Weight	Fixture: 11lbs / 5.0kg (With lens tube) | Power adapter: 3.2lbs / 1.5kg
Size (L x W x H)	16.4" x 11.1" x 15.7" / 41.7cm x 28.4cm x 39.9cm
Mount type	Combo (baby stud female / junior stud male)
USB Power Out	5V/1A (via USB-A)
USB-C Interface	FW Update / Remote
IP Rating	IP-X5 (water-resistant)
Thermal Design	Controllable fan (OFF / SILENT / AUTO / FULL)
Operating Temperature	0 - 40°C / 32 - 104°F
GoBo Size	M Size (Diameter 66mm / Max Image: 48mm / Max Thickness: 1mm)

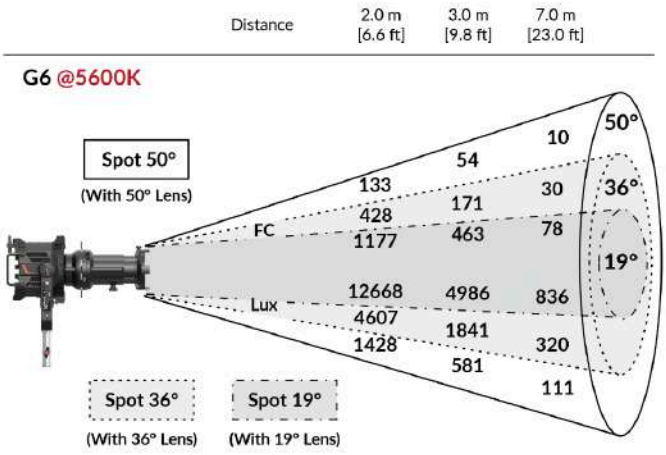
3 - TECHNICAL DRAWING INFORMATION



FLXG6CLR - Weight
Fixture: 11.0lbs / 5.0kg (With lens tube)
Power adapter: 3.3lbs / 1.5kg

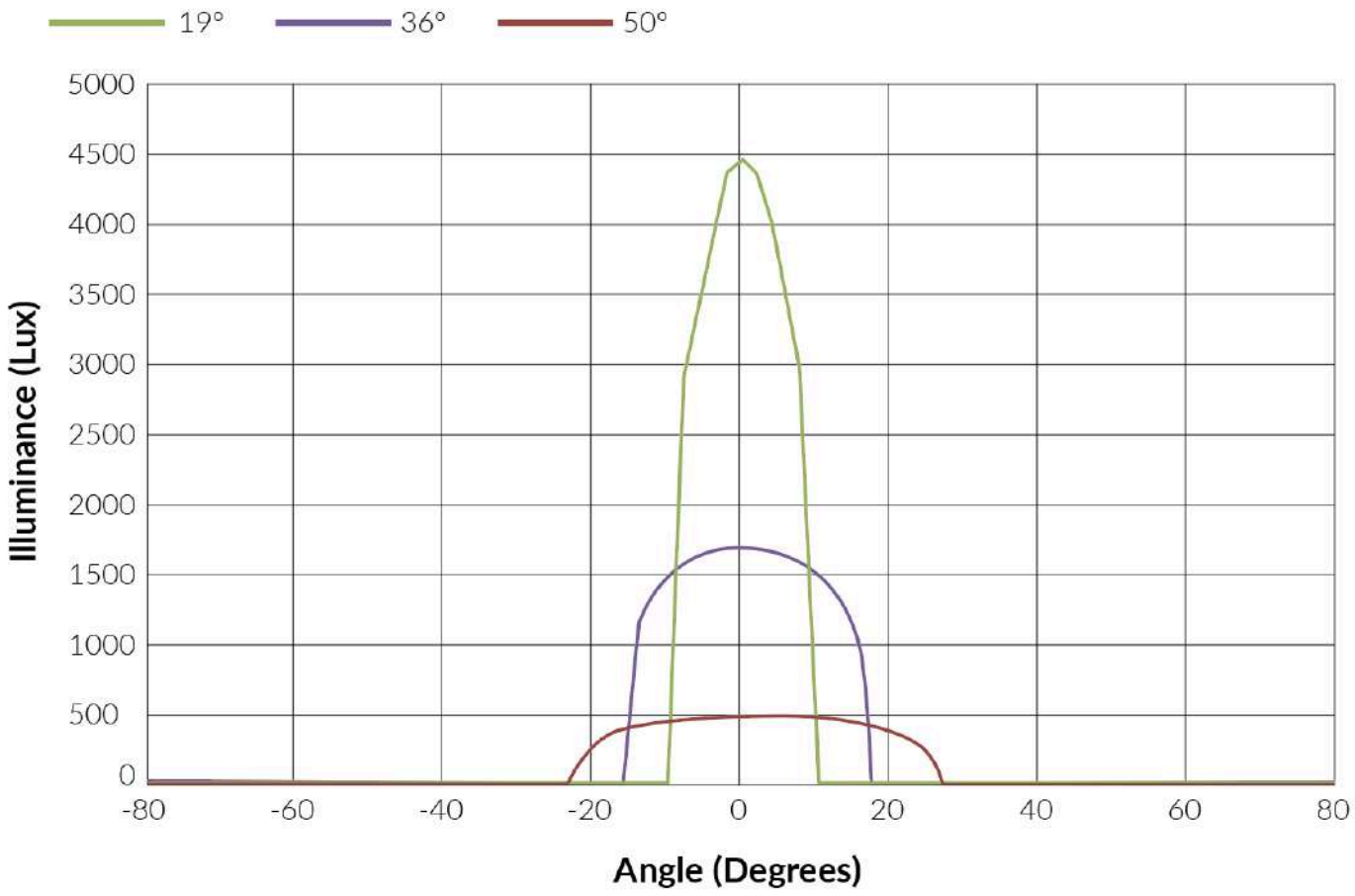
4 - PHOTOMETRIC DATA





5 - BEAM PROFILE

Beam Profile of G6 COLOR

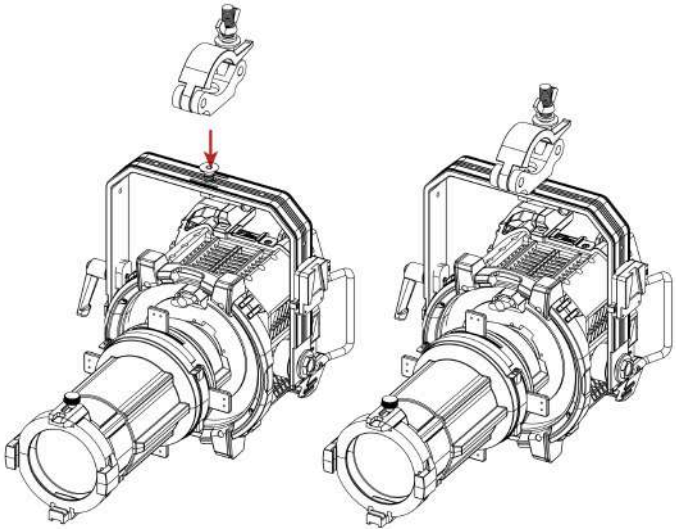


6 - INSTALLATION

Mounting

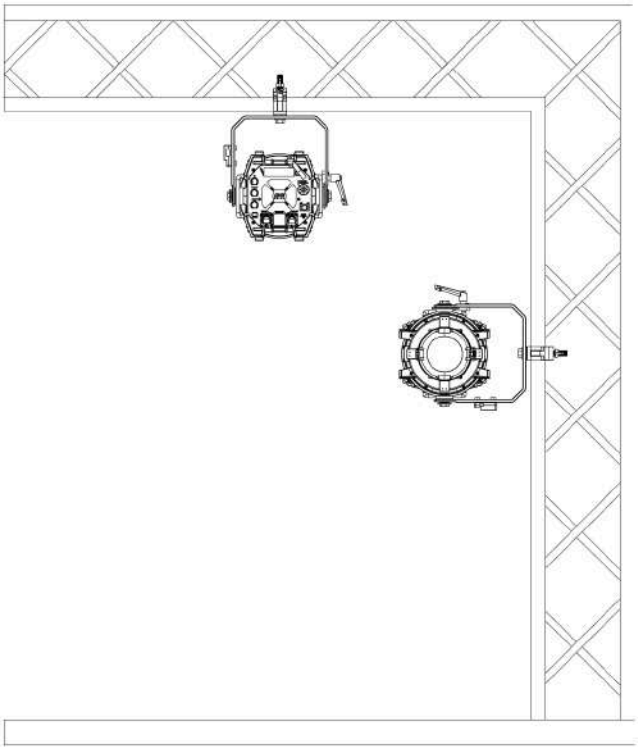
Check that the supporting structure can safely bear the weight of all installed fixtures, clamps, cables, auxiliary equipment, etc. and complies with locally applicable regulations. When suspending the fixture above ground level, secure it against failure of primary attachments by attaching a safety wire that is approved as a safety attachment for the weight of the fixture to an anchor point on the product main frame. Do not use removable parts or weak anchors for secondary attachment.

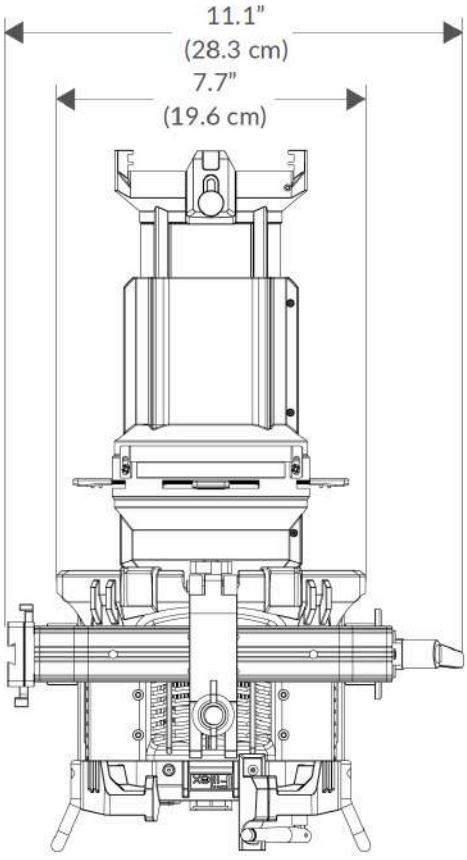
Warning! When clamping the fixture to a truss or other structure at any angle, use clamps of half coupler type. Do not use any type of clamp that does not completely encircle the structure when fastened.



Attach Clamp

**Fiilex does not include a clamp with lighting products.*





7 - CONNECTION TO AC POWER

Warning!
The max power consumption is 175W.
To protect from electric shock, the fixture must be grounded. The product is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts. If you need to install a power plug on the power cable to allow connection to power outlets, install a grounding-type plug, following the plug manufacturer's instructions. If you have any doubts about proper installation, consult a qualified electrician.

Core (EU)	Core (US)	Connection	Plug terminal marking
Brown	Black	Live	L
Blue	White	Neutral	N
Yellow+green	Green	Ground	⏚

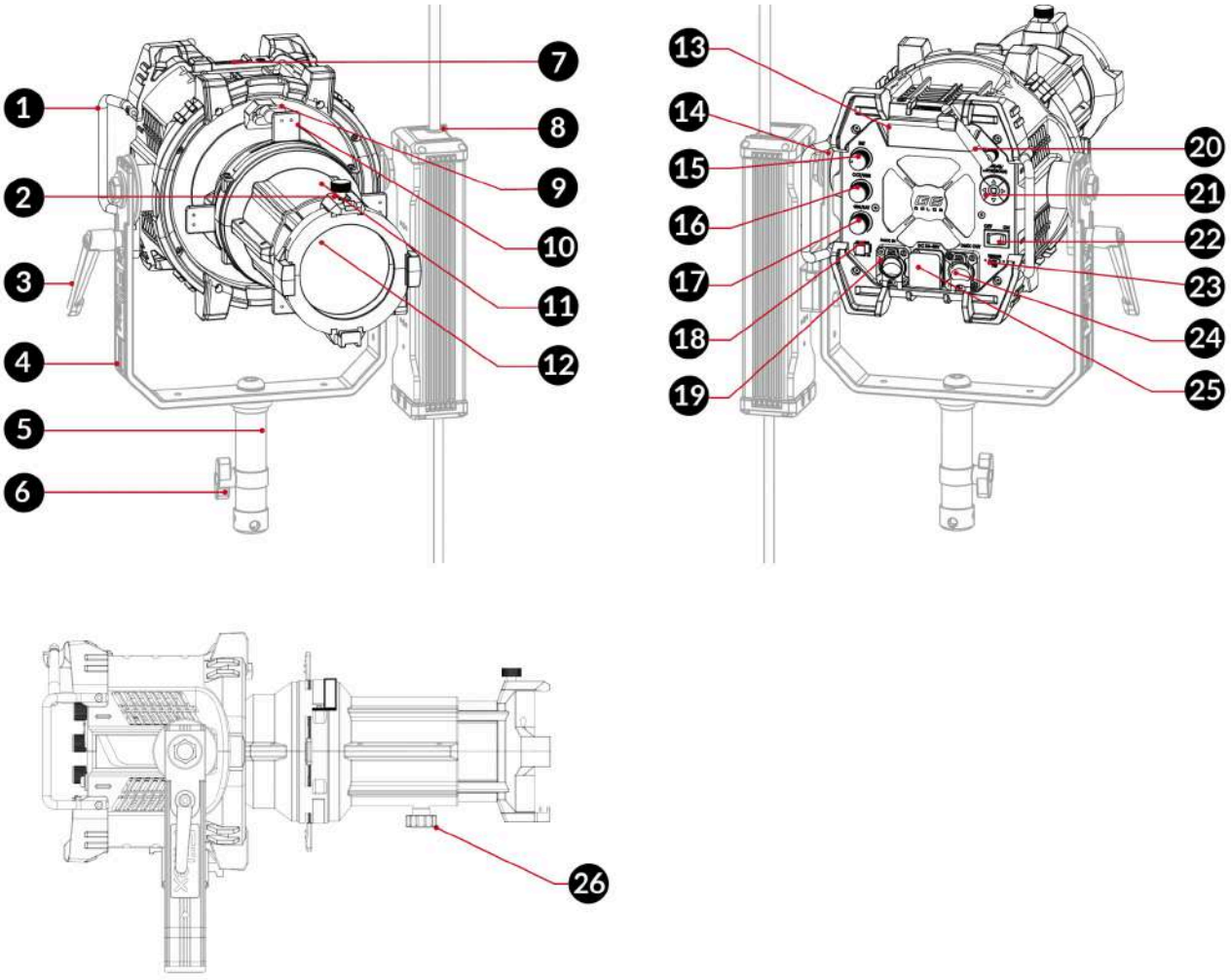
8 - START UP

Connect and disconnect power from the product

To apply and disconnect power to the product:
• Check that the product is installed and secured as indicated in the Safety Information, and that personal safety will not be put at risk when the fixture lights up.
• Connect the power connector into the AC input socket (100-240V AC-50/60 Hz).
• The product is then ready for its operations and can be controlled through the available input signals on board.
• To disconnect power from the product, disconnect the AC input from the socket.

9 - PRODUCT OVERVIEW

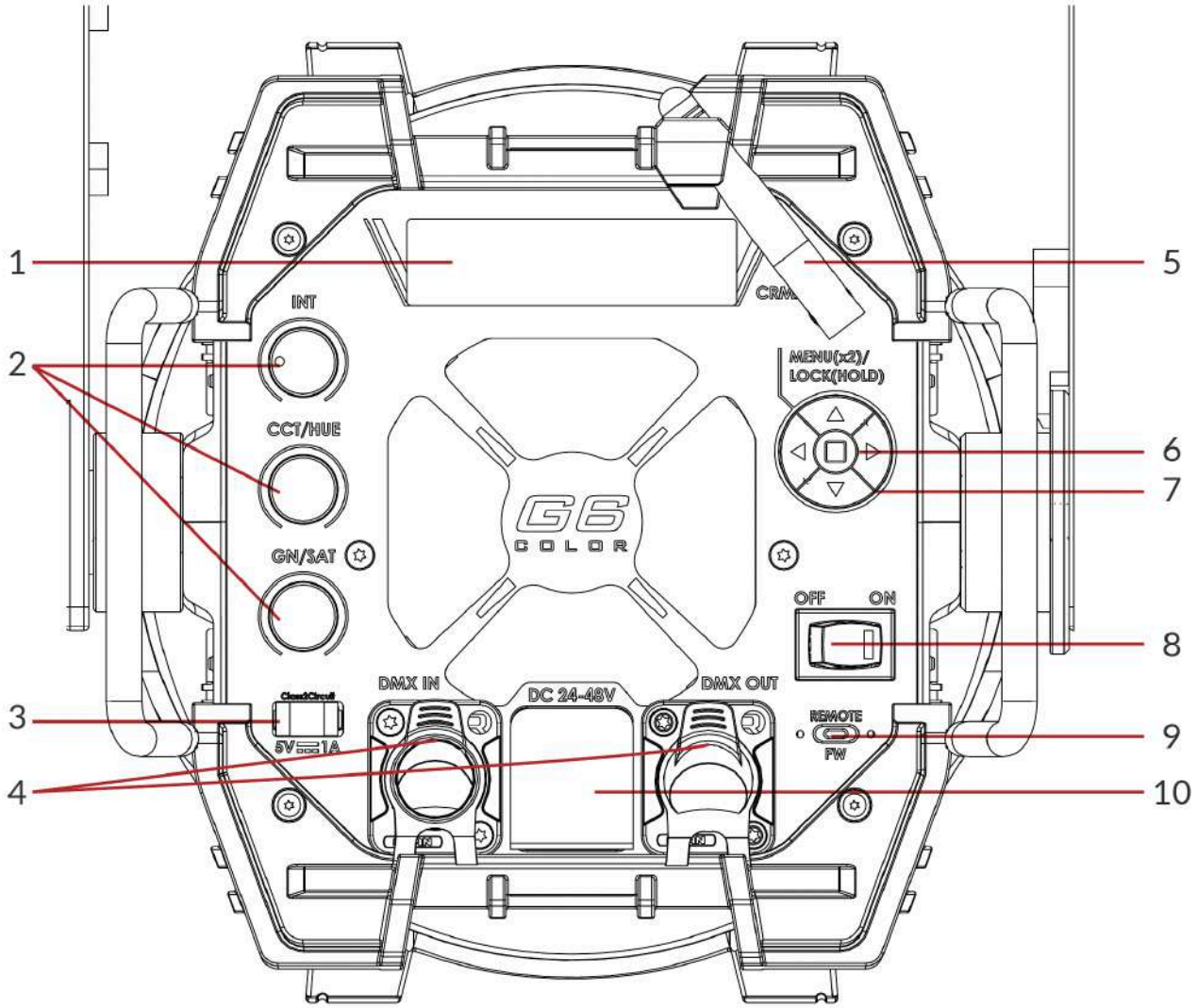
Parts diagram



1. Handles
2. Gel Frame Holder Release
3. Tilt Lock Lever
4. Yoke
5. Baby/Junior Pin Receiver
6. Mount Tightening Knob
7. Vent Holes
8. Power Supply Unit (PSU)
9. Barrel Rotation Release Knob
10. Shutter
11. Barrel
12. Lens Tube
13. OLED Display
14. Yoke Bolt
15. Intensity Control Knob
16. CCT/HUE Knob
17. GN/SAT Knob
18. USB Type-A Port (5V/1A Power)
19. DMX Input (XLR-Male 5-pin)
20. Antenna
21. Navigation Pad
22. ON/OFF Switch
23. USB Type-C Port (For updating firmware/RPU)
24. DMX Output (XLR-Female 5-pin)
25. DC Input Port (24-48V)
26. Lens Tube Locking Knob

10 - CONTROL PANEL

The product has a display and buttons to access the control panel functions.



Display and buttons layout

1. OLED Panel : Used to view all menu functions
2. Knobs : Adjustments
3. USB Type-A Port : 5V/1A USB power port
4. DMX IN/OUT : DMX input and output ports
5. Antenna : LumenRadio CRMX antenna
6. OK Button : Confirms current menu, value or option
7. Navigation Pad : Used to access and adjust parameters
8. ON/OFF Button : Powers the LED engine on and off
9. REMOTE FW Port : For firmware updates/remote patcher utility
10. DC 24-48V : 24-48V DC power input

10 - CONTROL PANEL

Knob Function

Knob	 CCT/HUE	 CCT/HUE	 GN/SAT	 GN/SAT	 INT			
Actions	Turn CCT/HUE Adjust	Press Quick Adjust	Turn GN/SAT Adjust	Press Quick Adjust	Turn INT Adjust	Press Up/Down Move	Press Left/Right Move	Press Confirm

Knob behavior for all modes

Input			DMX Modes														
Knob	Actions	Description	CCT EZ CCT	HSI EZ HSI	RGBW EZ RGBW	CCTHSI EZ CCTHSI	CCTRGBW EZ CCTRGBW	CIExy EZ CIExy	GELS	EFFECTS	RGB EZ RGB	CCTxy EZ CCTxy	ICTHS EZ ICTHS	ICT RGBW EZ ICTRGBW	ICT xy EZ ICTxy	EZ 3200K	EZ 5600K
INT	Turn	Adjust INT value	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
CCT/HUE	Turn CCT/HUE	Adjust CCT value	✓														
		Adjust HUE value		✓													
		Quick Adjust			R/G/B/W ✓	CCT/GN/ XFADE/ HUE/SAT ✓	CCT/GN/ XFADE/ R/G/B/W ✓	x/y ✓			R/G/B ✓	CCT/GN/ XFADE/ x/y ✓	CCT/GN/ HUE/SAT ✓	CCT/GN/ R/G/B/W ✓	CCT/GN/ x/y ✓		
CCT/HUE	Press CCT/HUE	Quick Adjust	3200K 5600K														
		HUE value ⟳ 1 Press +60°		✓													
GN/SAT	Turn GN/SAT	Adjust GN value	✓														
		Adjust SAT value		✓													
GN/SAT	Press GN/SAT	GN value ⟳ 1 Press +0.25	✓														
		SAT value ⟳ 1 Press +25%		✓													

Buttons		All Modes										
		Actions	Function	INT	CCT	GN	HUE	SAT	R/G/B/W	XFADE	X,Y	DMX START ADDR	IP value
Up/Down Button		Press Up/Down	Adjust Value	±1	±50	±0.01	±1	±1	±1	±1	±0.001	±1	±1
		Press Hold (1s') Up/Down		±10	±500	±0.1	±10	±10	±10	±10	±0.05	±10	±10
Center Button		Press Confirm	Switch Value	+25% ⟳	3200K 5600K ⟳	+0.25 ⟳	+60° ⟳	+25% ⟳	+25 ⟳	+25 ⟳	+0.2 ⟳	+100 ⟳	

*CCT~x,y quick switch function does not work in Gel & Demo mode.

11 - DMX CONNECTION

Connection of the DMX signal

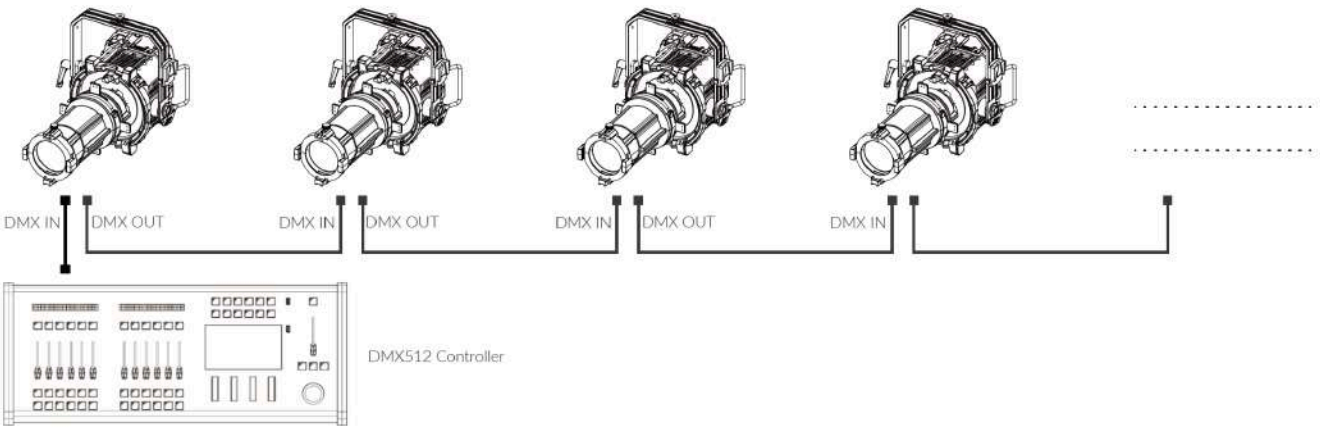
The product has XLR-5 sockets for DMX input and output.
The default pin-out on both sockets is shown below:

Instructions for a reliable DMX connection

Use a shielded twisted-pair cable designed for RS-485 devices: standard microphone cables cannot transmit control data reliably over long runs. 24 AWG cable are suitable for runs up to 300 meters (1000 ft). A heavier gauge cable and/or an amplifier is recommended for longer runs. To split the data link into branches, use splitter-amplifiers in the connection line.
Up to 32 devices may be connected on a single DMX run.

Daisy chaining

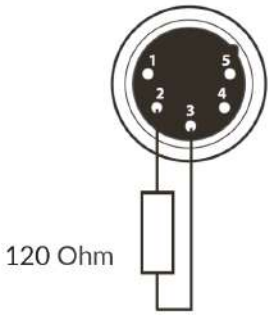
Connect the DMX data output from the DMX source to the product DMX input (male connector XLR-5) socket. Run the data link from the product XLR-5 output (female connector XLR-5) socket to the DMX input of the next fixture. Terminate the data line by connecting a 120 Ohm signal terminator to the list fixture. If a splitter is used, terminate each branch of the link.
DMX connection employs standard XLR-5 connectors. Use shielded pair-twisted cables with 120 Ohm impedance and low capacity.
The following diagram shows the connection diagram:

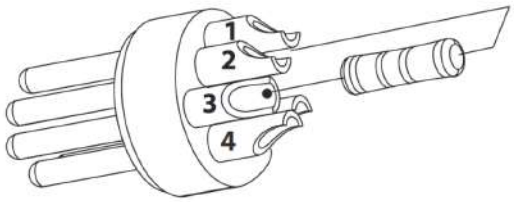


11 - DMX CONNECTION

DMX termination

The termination is prepared by soldering a 120 Ohm 1/4 W resistor between pins 2 and 3 of the male XLR-5 connector, as shown in figure.





Example:
5 pin XLR connector

X control circuit is not isolated.

- Cumulative leakage current on the DMX control circuit is less than 3.5 mA.

DMX addressing

In order to start controlling the product via DMX, the first step is to select a DMX address, also known as the start channel. This is the first channel used to receive instructions from a DMX controller. If you wish to control the product individually, it is necessary to assign a different starting address channel to each fixture.
The number of channels occupied from the product depends on the DMX mode selected, so always verify the DMX Mode in the MENU before starting addressing.
If you assign two fixtures the same address, they will execute the same behavior. Selecting the same address to multiple fixtures can be useful for diagnostic purposes and symmetrical control.
DMX addressing is limited to make it impossible to set the DMX address so high that you are left without enough control channels for the product. When addressing DMX fixtures, ensure that the addresses are set such that the fixture footprints do not overlap. Overlapping DMX footprints will cause fixtures to exhibit unintended behavior.

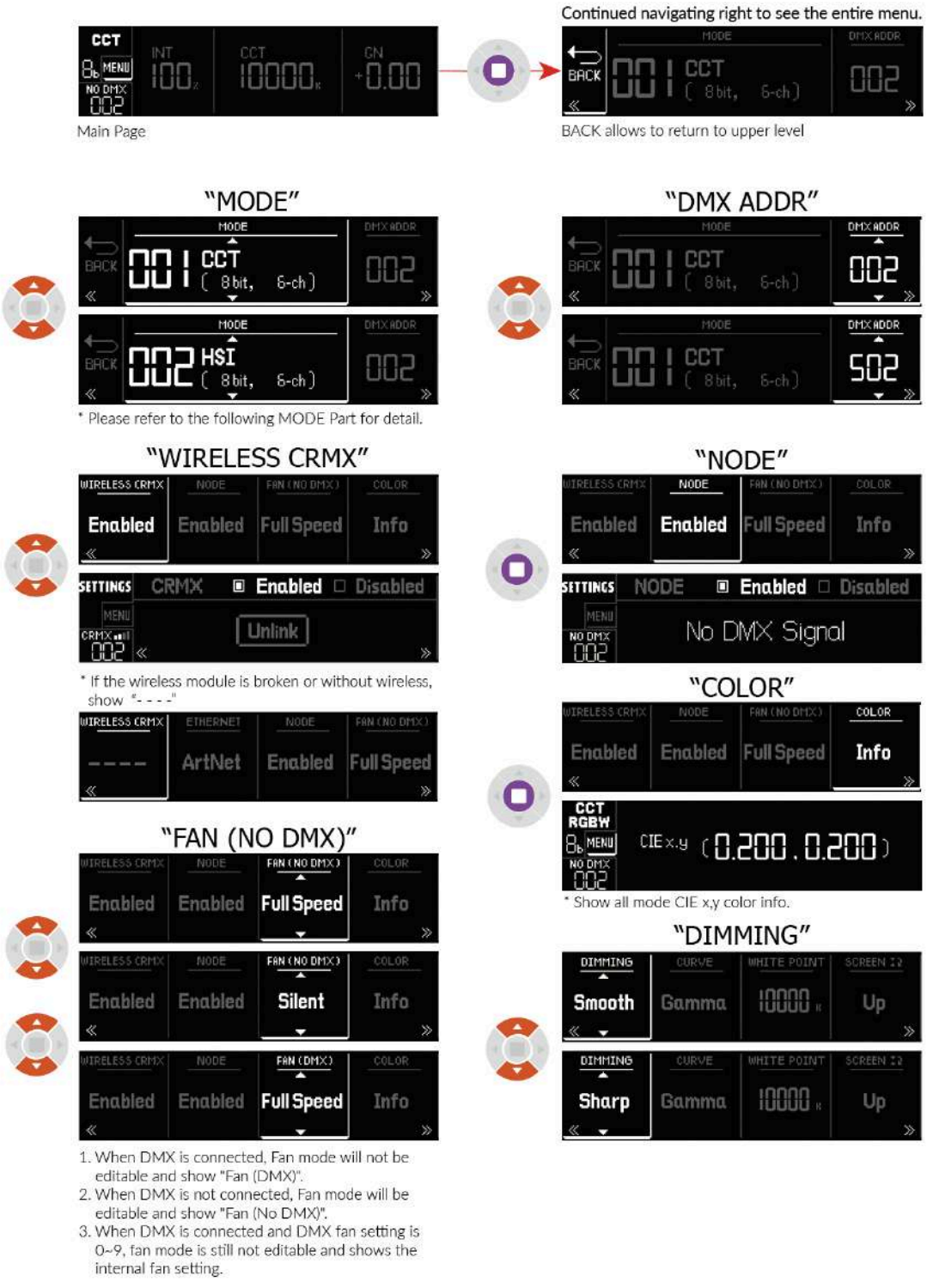
To set the fixture's DMX address:

1. Press center button to enter main menu.
2. Navigate to right, reach the "DMX ADDR" menu, then select the DMX ADDRESS settings.
3. Select the address from 1 to 512 using the navigation UP/DOWN and confirm by pressing the center button.
4. Double click the center button to return to the main page.

12 - MENU STRUCTURE

Menu

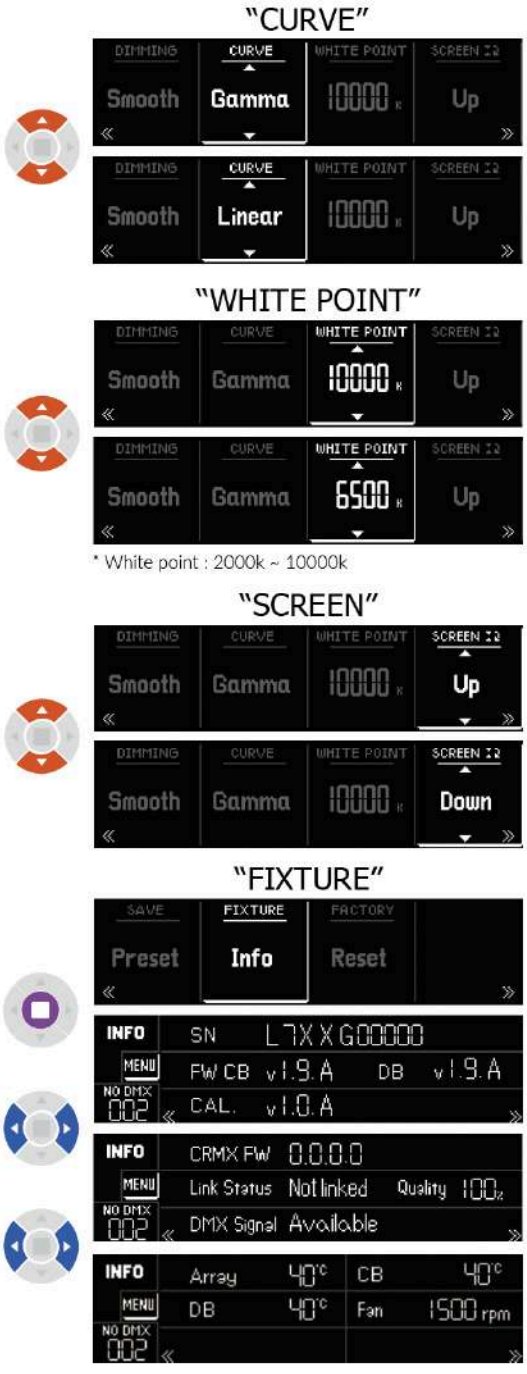
* Double click center button to return to the upper level.
* Enter the current mode function of the Dashboard by pressing the center button.
* Please refer to the Dashboard section for detailed flow of each function.

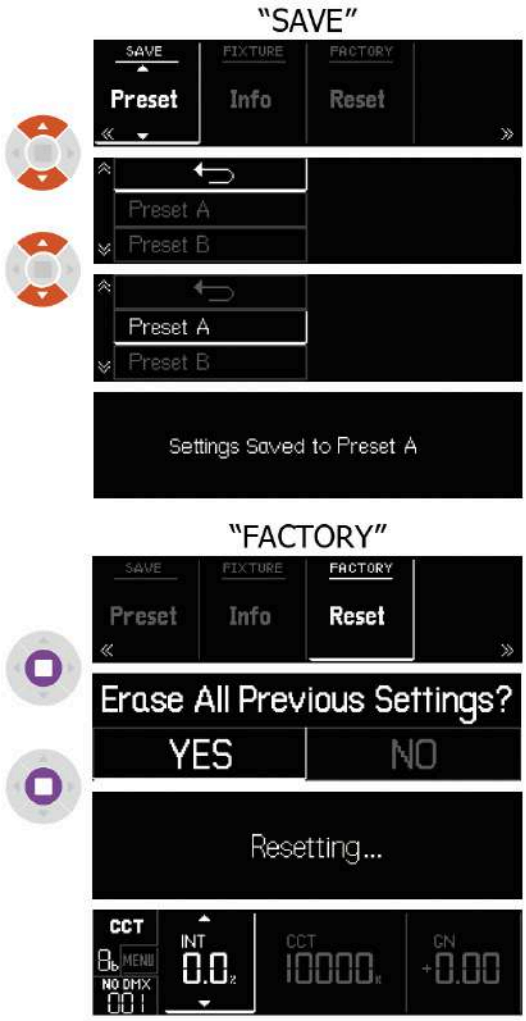


12 - MENU STRUCTURE

Menu

* Double click center button to return to the upper level.
* Enter the current mode function of the Dashboard by pressing the center button.
* Please refer to the Dashboard section for detailed flow of each function.





13 - DMX MAPPING

The product can communicate using RDM (Remote Device Management) protocol over a DMX512 Network.
RDM is a bi-directional communications protocol for use in DMX512 control systems. RDM is the open standard for DMX512 device configuration and status monitoring.
RDM protocol allows data packets to be inserted into a DMX512 data stream without affecting existing non-RDM equipment. It allows a console or dedicated RDM controller to send commands to and receive messages from specific fixtures.
The PIDs in the following tables are supported in the product.

Notes

* HSI, RGBW and RGB modes are based on user adjustable white point of 6500K. For instance, if a white point of 6500K is selected in HSI mode, when “Saturation”= 0%, the fixture outputs 6500K white.

** CCTHSI, CCTRGBW, ICTHS, and ICTRGBW modes, the white point is determined and can be adjusted by the "CCT'' and "Green Adjust" parameters. This applies at any "Crossfade" value in CCTHSI and CCTRGBW modes. The following scenarios illustrate how white point is determined by the "CCT'' parameter, given all other parameters being the same.

Scenario 1: In CCTRGBW modes, the following 4 settings produce the 3200K white. Notice that the white remains the same regardless of the "Crossfade" parameter.
1) CCT=3200K, Xfade=0%
2) CCT=3200K, Xfade=100%, W=100%
3) CCT=3200K, Xfade=100%, RGB=100%
4) CCT=3200K, Xfade=100%, RGBW=100%
Scenario 2: In CCTHSI modes, the following settings produce the 2800K to 5600K white respectively. Notice that “CCT” is the only differentiating parameter, even when "Crossfade"=100%
(2800K white) CCT=2800K, Xfade=100%, Sat=0%
(5600K white) CCT=5600K, Xfade=100%, Sat=0%
Scenario 3: In ICTRGBW modes, the following settings produce 3200K and 6500K white respectively. Notice that the “CCT” is the only differentiating parameter
(3200K output) CCT=3200K, RGBW=100%
(5600K output) CCT=6500K, RGBW=100%

*** In CCTxy and ICTxy modes, the "CCT" and "Green Adjust" parameters allow slight adjustment of the color temperature and tint for the selected “CIEx'' and “CIEy'' coordinates. To produce an output true to the CIEx and CIEy coordinates, set “CCT”=6500K and “Green Adjust”=0.00

13 - DMX MAPPING

DMX Modes

Standard Modes

Mode	8-bit (DMX Footprint)	16-bit (DMX Footprint)	Page
CCT	Mode 1 (6)	Mode 9 (10)	24
HSI*	Mode 2 (6)	Mode 10 (10)	25
RGBW *	Mode 3 (8)	Mode 11 (14)	26
CIExy	Mode 6 (6)	Mode 14 (10)	29
GEL	Mode 7 (6)	Mode 15 (8)	30
RGB *	Mode 40 (6)	Mode 45 (9)	31

CCT Modes

CCT modes allow white point adjustment using the “CCT” and “Green Adjust” parameters.

CCTHSI *	Mode 4 (9)	Mode 12 (16)	27
CCTRGBW **	Mode 5 (11)	Mode 13 (20)	28
CCTxy ***	Mode 41 (9)	Mode 46 (15)	32

ICT Modes

ICT modes allow white point adjustment like CCT+ modes, but without a “Crossfade” parameter.

ICTHS **	Mode 42 (9)	Mode 47 (14)	33
ICTRGBW **	Mode 43 (11)	Mode 48 (18)	34
ICTxy ***	Mode 44 (9)	Mode 49 (14)	35

EZ Modes

EZ modes do not include “Fan Setting”, “Dimming Setting”, or “Strobe Frequency” parameters, shortening the DMX footprint.

EZ CCT	Mode 50 (3)	Mode 63 (6)	36
EZ HSI *	Mode 51 (3)	Mode 64 (6)	36
EZ RGBW *	Mode 52 (5)	Mode 65 (10)	36
EZ CIExy	Mode 55 (3)	Mode 68 (6)	38
EZ CCTHSI **	Mode 53 (6)	Mode 66 (12)	37
EZ CCTRGBW **	Mode 54 (8)	Mode 67 (16)	37
EZ CCTxy ***	Mode 57 (6)	Mode 70 (12)	38
EZ ICTHS **	Mode 58 (5)	Mode 71 (10)	39
EZ ICTRGBW **	Mode 59 (7)	Mode 72 (14)	39
EZ ICTxy ***	Mode 60 (5)	Mode 73 (10)	40
EZ RGB *	Mode 56 (3)	Mode 69 (6)	38
EZ 3200K	Mode 61 (1)	Mode 74 (2)	40
EZ 5600K	Mode 62 (1)	Mode 75 (2)	40

13 - DMX MAPPING

DMX Modes

ALL Modes

Mode	8-bit (DMX Footprint)	16-bit (DMX Footprint)	Page
ALL MODES	Mode 76 (12)	Mode 77 (20)	41

13 - DMX MAPPING

Mode 1 (8-bit) / Mode 9 (16-bit) : CCT					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
5	8	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
6	9	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz
-	10	Reserved	TBD		

13 - DMX MAPPING

Mode 2 (8-bit) / Mode 10 (16-bit) : HSI					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	Hue	0 – 255	0 – 65, 535	0° – 360°
3	5-6	Saturation	0 – 255	0 – 65, 535	0% – 100%
4	7	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
5	8	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
6	9	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz
-	10	Reserved	TBD		

13 - DMX MAPPING

Mode 3 (8-bit) / Mode 11 (16-bit) : RGBW					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	Intensity Red	0 – 255	0 – 65, 535	0% – 100%
3	5-6	Intensity Green	0 – 255	0 – 65, 535	0% – 100%
4	7-8	Intensity Blue	0 – 255	0 – 65, 535	0% – 100%
5	9-10	Intensity White	0 – 255	0 – 65, 535	0% – 100%
6	11	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
7	12	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
8	13	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz
-	14	Reserved	TBD		

13 - DMX MAPPING

Mode 4 (8-bit) / Mode 12 (16-bit) : CCTHSI					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 – 255	0 – 65, 535	0% – 100%
5	9-10	Hue	0 – 255	0 – 65, 535	0° – 360°
6	11-12	Saturation	0 – 255	0 – 65, 535	0% – 100%
7	13	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
8	14	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
9	15	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz
-	16	Reserved	TBD		

13 - DMX MAPPING

Mode 5 (8-bit) / Mode 13 (16-bit) : CCTRGBW					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 – 255	0 – 65, 535	0% – 100%
5	9-10	Intensity Red	0 – 255	0 – 65, 535	0% – 100%
6	11-12	Intensity Green	0 – 255	0 – 65, 535	0% – 100%
7	13-14	Intensity Blue	0 – 255	0 – 65, 535	0% – 100%
8	15-16	Intensity White	0 – 255	0 – 65, 535	0% – 100%
9	17	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
10	18	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
11	19	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz
-	20	Reserved	TBD		

13 - DMX MAPPING

Mode 6 (8-bit) / Mode 14 (16-bit) : CIExy					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	x	0 – 255	0 – 65, 535	0.0 – 0.8
3	5-6	y	0 – 255	0 – 65, 535	0.0 – 0.8
4	7	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
5	8	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
6	9	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz
-	10	Reserved	TBD		

13 - DMX MAPPING

Mode 7 (8-bit) / Mode 15 (16-bit) : GEL					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3	Gel Filter	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49 50 – 59 60 – 69 70 – 79 80 – 89 90 – 99 100 – 109 110 – 119 120 – 129 130 – 139 140 – 149 150 – 159 160 – 169 170 – 179 180 – 189 190 – 199 200 – 209 210 – 255		None Bastard Amber Straw Light Amber Light Flame Golden Amber Light Red No Color Pink Middle Rose Light Rose Purple Surprise Pink No Color Blue Daylight Blue Primary Blue Moss Green Blue Green Gel 1 Gel 2 Gel 3 Gel 4 Gel 5 Reserved
3	4	CCT (Disabled for Gel 1-5)	0 – 99 100 – 255		3200K 6500K
4	5	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
5	6	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
6	7	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz
-	8	Reserved	TBD		

13 - DMX MAPPING

Mode 40 (8-bit) / Mode 45 (16-bit) : RGB					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Intensity Red	0 – 255	0 – 65, 535	0% – 100%
2	3-4	Intensity Green	0 – 255	0 – 65, 535	0% – 100%
3	5-6	Intensity Blue	0 – 255	0 – 65, 535	0% – 100%
4	7	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
5	8	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
6	9	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz

13 - DMX MAPPING

Mode 41 (8-bit) / Mode 46 (16-bit) : CCTxy					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 – 255	0 – 65, 535	0% – 100%
5	9-10	x	0 – 255	0 – 65, 535	0.0 – 0.8
6	11-12	y	0 – 255	0 – 65, 535	0.0 – 0.8
7	13	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
8	14	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
9	15	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz

13 - DMX MAPPING

Mode 42 (8-bit) / Mode 47 (16-bit) : ICTHS					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Hue	0 – 255	0 – 65, 535	0° – 360°
5	9-10	Saturation	0 – 255	0 – 65, 535	0% – 100%
6	11	Reserved	TBD		
7	12	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
8	13	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
9	14	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz

13 - DMX MAPPING

Mode 43 (8-bit) / Mode 48 (16-bit) : ICTRGBW					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Intensity Red	0 – 255	0 – 65, 535	0% – 100%
5	9-10	Intensity Green	0 – 255	0 – 65, 535	0% – 100%
6	11-12	Intensity Blue	0 – 255	0 – 65, 535	0% – 100%
7	13-14	Intensity White	0 – 255	0 – 65, 535	0% – 100%
8	15	Reserved	TBD		
9	16	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
10	17	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
11	18	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz

13 - DMX MAPPING

Mode 44 (8-bit) / Mode 49 (16-bit) : ICTxy					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	x	0 – 255	0 – 65, 535	0.0 – 0.8
5	9-10	y	0 – 255	0 – 65, 535	0.0 – 0.8
6	11	Reserved	TBD		
7	12	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
8	13	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
9	14	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz

13 - DMX MAPPING

Mode 50 (8-bit) / Mode 63 (16-bit) : EZ CCT

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)

Mode 51 (8-bit) / Mode 64 (16-bit) : EZ HSI

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	Hue	0 – 255	0 – 65, 535	0° – 360°
3	5-6	Saturation	0 – 255	0 – 65, 535	0% – 100%

Mode 52 (8-bit) / Mode 65 (16-bit) : EZ RGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	Intensity Red	0 – 255	0 – 65, 535	0% – 100%
3	5-6	Intensity Green	0 – 255	0 – 65, 535	0% – 100%
4	7-8	Intensity Blue	0 – 255	0 – 65, 535	0% – 100%
5	9-10	Intensity White	0 – 255	0 – 65, 535	0% – 100%

13 - DMX MAPPING

Mode 53 (8-bit) / Mode 66 (16-bit) : EZ CCTHSI

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 – 255	0 – 65, 535	0% – 100%
5	9-10	Hue	0 – 255	0 – 65, 535	0° – 360°
6	11-12	Saturation	0 – 255	0 – 65, 535	0% – 100%

Mode 54 (8-bit) / Mode 67 (16-bit) : EZ CCTRGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 – 255	0 – 65, 535	0% – 100%
5	9-10	Intensity Red	0 – 255	0 – 65, 535	0% – 100%
6	11-12	Intensity Green	0 – 255	0 – 65, 535	0% – 100%
7	13-14	Intensity Blue	0 – 255	0 – 65, 535	0% – 100%
8	15-16	Intensity White	0 – 255	0 – 65, 535	0% – 100%

13 - DMX MAPPING

Mode 55 (8-bit) / Mode 68 (16-bit) : EZ CIExy

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	x	0 – 255	0 – 65, 535	0.0 – 0.8
3	5-6	y	0 – 255	0 – 65, 535	0.0 – 0.8

Mode 56 (8-bit) / Mode 69 (16-bit) : EZ RGB

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Intensity Red	0 – 255	0 – 65, 535	0% – 100%
2	3-4	Intensity Green	0 – 255	0 – 65, 535	0% – 100%
3	5-6	Intensity Blue	0 – 255	0 – 65, 535	0% – 100%

Mode 57 (8-bit) / Mode 70 (16-bit) : EZ CCTxy

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 – 255	0 – 65, 535	0% – 100%
5	9-10	x	0 – 255	0 – 65, 535	0.0 – 0.8
6	11-12	y	0 – 255	0 – 65, 535	0.0 – 0.8

13 - DMX MAPPING

Mode 58 (8-bit) / Mode 71 (16-bit) : EZ ICTHS

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Hue	0 – 255	0 – 65, 535	0° – 360°
5	9-10	Saturation	0 – 255	0 – 65, 535	0% – 100%

Mode 59 (8-bit) / Mode 72 (16-bit) : EZ ICTRGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Intensity Red	0 – 255	0 – 65, 535	0% – 100%
5	9-10	Intensity Green	0 – 255	0 – 65, 535	0% – 100%
6	11-12	Intensity Blue	0 – 255	0 – 65, 535	0% – 100%
7	13-14	Intensity White	0 – 255	0 – 65, 535	0% – 100%

13 - DMX MAPPING

Mode 60 (8-bit) / Mode 73 (16-bit) : EZ ICTxy					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3-4	CCT	0 – 255	0 – 65, 535	2000K – 10000K
3	5-6	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	x	0 – 255	0 – 65, 535	0.0 – 0.8
5	9-10	y	0 – 255	0 – 65, 535	0.0 – 0.8

Mode 61 (8-bit) / Mode 74 (16-bit) : EZ 3200K					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%

Mode 62 (8-bit) / Mode 75 (16-bit) : EZ 5600K					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%

13 - DMX MAPPING

Mode 76 (8-bit) / Mode 77 (16-bit) : ALL MODES					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 – 255	0 – 65, 535	0% – 100%
2	3	Color Mode Selection	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49 50 – 59 60 – 69 70 – 79 80 – 89 90 – 99 100 – 109 110 –119 120 – 129 130 – 255		CCT HSI RGBW CCTHSI CCTRGBW CIExy GEL DEMO RGB CCTxy ICTHS ICTRGBW ICTxy Reserved
3	4-5	Color Parameter 1	See table below		
4	6-7	Color Parameter 2			
5	8-9	Color Parameter 3			
6	10-11	Color Parameter 4			
7	12-13	Color Parameter 5			
8	14-15	Color Parameter 6			
9	16-17	Color Parameter 7			
10	18	Fan Setting	0 – 9 10 – 69 70 – 129 130 – 189 190 – 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
11	19	Dimming Setting	0 – 9 10 – 99 100 – 255		Use current setting in fixture Sharp dimming Smooth dimming
12	20	Strobe Frequency	0 – 9 10 – 255		Strobe off 1Hz - 25Hz

13 - DMX MAPPING

		CCT				HSI			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	CCT	0 – 255	0 – 65, 535	2000K – 10000K	Hue	0 – 255	0 – 65, 535	0° – 360°
4	6-7	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	Saturation	0 – 255	0 – 65, 535	0% – 100%
		RGBW				RGB			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	INT Red	0 – 255	0 – 65, 535	0% – 100%	INT Red	0 – 255	0 – 65, 535	0% – 100%
4	6-7	INT Green	0 – 255	0 – 65, 535	0% – 100%	INT Green	0 – 255	0 – 65, 535	0% – 100%
5	8-9	INT Blue	0 – 255	0 – 65, 535	0% – 100%	INT Blue	0 – 255	0 – 65, 535	0% – 100%
6	10-11	INT White	0 – 255	0 – 65, 535	0% – 100%				
		CCTRGBW				CCTHSI			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	CCT	0 – 255	0 – 65, 535	2000K – 10000K	CCT	0 – 255	0 – 65, 535	2000K – 10000K
4	6-7	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
5	8-9	Crossfade	0 – 255	0 – 65, 535	0% – 100%	Crossfade	0 – 255	0 – 65, 535	0% – 100%
6	10-11	INT Red	0 – 255	0 – 65, 535	0% – 100%	Hue	0 – 255	0 – 65, 535	0° – 360°
7	12-13	INT Green	0 – 255	0 – 65, 535	0% – 100%	Saturation	0 – 255	0 – 65, 535	0% – 100%
8	14-15	INT Blue	0 – 255	0 – 65, 535	0% – 100%				
9	16-17	INT White	0 – 255	0 – 65, 535	0% – 100%				
		CCTxy				ICTHS			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	CCT	0 – 255	0 – 65, 535	2000K – 10000K	CCT	0 – 255	0 – 65, 535	2000K – 10000K
4	6-7	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
5	8-9	Crossfade	0 – 255	0 – 65, 535	0% – 100%	Hue	0 – 255	0 – 65, 535	0° – 360°
6	10-11	x	0 – 255	0 – 65, 535	0.0 – 0.8	Saturation	0 – 255	0 – 65, 535	0% – 100%
7	12-13	y	0 – 255	0 – 65, 535	0.0 – 0.8	Reserved	TBD		

13 - DMX MAPPING

		GEL			DEMO		
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value	Range	Function	8-bit/16-bit Value	Range
3	4-5	Gel Filter	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49 50 – 59 60 – 69 70 – 79 80 – 89 90 – 99 100 – 109 110 – 119 120 – 129 130 – 139 140 – 149 150 – 159 160 – 169 170 – 179 180 – 189 190 – 199 200 – 209 210 – 255	None Bastard Amber Straw Light Amber Light Flame Golden Amber Light Red No Color Pink Middle Rose Light Rose Purple Surprise Pink No Color Blue Daylight Blue Primary Blue Moss Green Blue Green Gel 1 Gel 2 Gel 3 Gel 4 Gel 5 Reserved	Demo Selection	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49 50 – 59 60 – 69 70 – 79 80 – 89 90 – 99 100 – 109 110 – 119 120 – 129 130 – 139 140 – 255	No effect(Stop Effect) Candle Club light Color chase Cop car Fireworks Lightning Paparazzi Strobe Television Circular (Only for PIX mode) Vertical (Only for PIX mode) Horizontal (Only for PIX mode) Diagonal (Only for PIX mode) Reserved for future use
4	5-6	CCT	0 – 99 100 – 255	3200K 6500K			

		ICTRGBW				ICTxy			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	CCT	0 – 255	0 – 65, 535	2000K – 10000K	CCT	0 – 255	0 – 65, 535	2000K – 10000K
4	6-7	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	Green Adjust	0 – 9 10 – 255	0 – 9 10 – 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
5	8-9	INT Red	0 – 255	0 – 65, 535	0% – 100%	x	0 – 255	0 – 65, 535	0.0 – 0.8
6	10-11	INT Green	0 – 255	0 – 65, 535	0% – 100%	y	0 – 255	0 – 65, 535	0.0 – 0.8
7	12-13	INT Blue	0 – 255	0 – 65, 535	0% – 100%	Reserved	TBD		
8	14-15	INT White	0 – 255	0 – 65, 535	0% – 100%				
9	-	Reserved	TBD						

13 - DMX MAPPING

		CIExy			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
3	4-5	x	0 – 255	0 – 65, 535	0.0 – 0.8
4	6-7	y	0 – 255	0 – 65, 535	0.0 – 0.8

13 - DMX MAPPING

		Candle			Fireworks			Television		
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value	Range	Function	8-bit/16-bit Value	Range	Function	8-bit/16-bit Value	Range
4	6-7	Color	0 – 9 10 – 19 20 – 29	Warmer Neutral Cooler	Color	0 – 9 10 – 19 20 – 29	Color White Color + White	Mode	0 – 9 10 – 19 20 – 29 30 – 39	Action Horror News Romance
5	8-9	Speed	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49	Slowest Slower Medium Faster Fastest	Speed	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49	Slowest Slower Medium Faster Fastest			
		Club Light			**Lightning**			**Cop Car**		
4	6-7	Color	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49 50 – 59 60 – 69	Red Green Blue Cyan Magenta Yellow All colors	Color	0 – 9 10 – 19 20 – 29	Warmer Neutral Cooler	Color	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49 50 – 59 60 – 69 70 – 79 80 – 89 90 – 99 100 – 109	B (Blue) R (Red) A (Amber) W (White) RB RA BA BW AW RBW BRA
5	8-9	Speed	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49	Slowest Slower Medium Faster Fastest	Speed	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49	Slowest Slower Medium Faster Fastest	Flash Pattern	0 – 9 10 – 19 20 – 29 30 – 39	Single Double Quad Quint

13 - DMX MAPPING

		Color Chase			Paparazzi			Strobe		
4	6-7	Saturation	0 – 255/ 0 – 65,535	0% -100%	Color	0 – 9 10 – 19 20 – 29	Warmer Neutral Cooler	Hue	0 – 255 / 0 – 65,535	0 – 360°
5	8-9	Speed	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49	Slowest Slower Medium Faster Fastest	Speed	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49	Slowest Slower Medium Faster Fastest	Saturation	0 – 255 / 0 – 65,535	0% - 100%
6	10-11							Speed	0 – 9 10 – 19 20 – 29 30 – 39 40 – 49	Slowest Slower Medium Faster Fastest

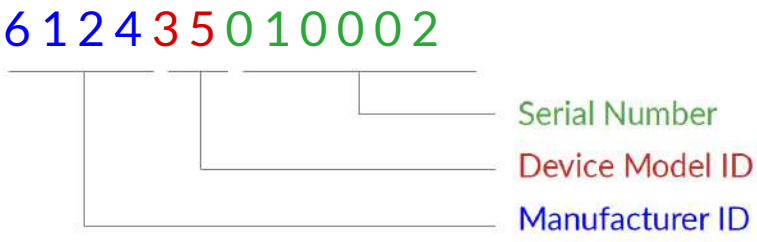
14 - RDM FUNCTIONS

Table of Contents	Page
RDM Identification	48
DMX Personality Identification	49
Network Management	52
Status Collection	52
RDM Information	52
Product Information	53
DMX512 Setup	53
Dimmer Settings RDM E1.37 version (not supported yet)	53
Power/Lamp Settings	54
Control	54
Manufacturer Command	54

14 - RDM FUNCTIONS

RDM Identification			
Manufacturer ID	Device Model ID	Device Label Device	Model Name
6124	30	FLXP3CLR	P3 COLOR
	31	FLXQ5CLR	Q5 COLOR
	32	FLXQ8CLR	Q8 COLOR
	33	FLXMXCLR	Matrix COLOR
	35	FLXQ10CLRLR	Q10 COLOR-LR
	36	FLXQUADCLR	QUAD COLOR
	37	FLXQ8CLRLR	Q8 COLOR-LR
	39	FLXMOTOQUADCLR	MOTOQUAD
	3A	FLXG3CLR	G3 COLOR
	3B	FLXQ3CLRLR	Q3 COLOR-LR
	3F	FLXRPU	RPU
	40	FLXMOTOK40	MOTOK40
	41	FLXQ6CLR	Q6 COLOR
	42	FLXG6CLR	G6 COLOR
	43	FLXMOTOQ3	MOTOQ3
	44	FLXK10CLR	K10 COLOR

UID Example



14 - RDM FUNCTIONS

Personality Description	Hex P3/Q5/Q8/Q10/Q3/ G3/G9/Q6/G6	Description [Decimal Data: Mode Description (Footprint)]
1	0x01	1: CCT 8-bit (Footprint 6)
2	0x02	2: HSI 8-bit (Footprint 6)
3	0x03	3: RGBW 8-bit (Footprint 8)
4	0x04	4: CCTHSI 8-bit (Footprint 9)
5	0x05	5: CCTRGBW 8-bit (Footprint 11)
6	0x06	6: CIExy 8-bit (Footprint 6)
7	0x07	7: GEL 8-bit (Footprint 6)
8	0x08	9: CCT 16-bit (Footprint 10)
9	0x09	10: HSI 16-bit (Footprint 10)
10	0x0A	11: RGBW 16-bit (Footprint 14)
11	0x0B	12: CCTHSI 16-bit (Footprint 16)
12	0x0C	13: CCTRGBW 16-bit (Footprint 20)
13	0x0D	14: CIExy 16-bit (Footprint 10)
14	0x0E	15: GEL 16-bit (Footprint 8)
21	0x0F	40: RGB 8-bit (Footprint 6)
22	0x010	41: CCTxy 8-bit (Footprint 9)
23	0x011	42: ICTHS 8-bit (Footprint 9)
24	0x012	43: ICTRGBW 8-bit (Footprint 11)
25	0x013	44: ICTxy 8-bit (Footprint 9)
26	0x014	45: RGB 16-bit (Footprint 9)
27	0x015	46: CCTxy 16-bit (Footprint 15)
28	0x016	47: ICTHS 16-bit (Footprint 14)
29	0x017	48: ICTRGBW 16-bit (Footprint 18)
30	0x018	49: ICTxy 16-bit (Footprint 14)
31	0x019	50: EZ CCT 8-bit (Footprint 3)
32	0x01A	51: EZ HSI 8-bit (Footprint 3)
33	0x01B	52: EZ RGBW 8-bit (Footprint 5)
34	0x01C	53: EZ CCTHSI 8-bit (Footprint 6)
35	0x01D	54: EZ CCTRGBW 8-bit (Footprint 8)
36	0x01E	55: EZ CIExy 8-bit (Footprint 3)
37	0x01F	56: EZ RGB 8-bit (Footprint 3)

14 - RDM FUNCTIONS

38	0x020	57: EZ CCTxy 8-bit (Footprint 6)
39	0x021	58: EZ ICTHS 8-bit (Footprint 5)
40	0x022	59: EZ ICTRGBW 8-bit (Footprint 7)
41	0x023	60: EZ ICTxy 8-bit (Footprint 5)
42	0x024	61: EZ 3200K 8-bit (Footprint 1)
43	0x025	62: EZ 5600K 8-bit (Footprint 1)
44	0x026	63: EZ CCT 16-bit (Footprint 6)
45	0x027	64: EZ HSI 16-bit (Footprint 6)
46	0x028	65: EZ RGBW 16-bit (Footprint 10)
47	0x029	66: EZ CCTHSI 16-bit (Footprint 12)
48	0x02A	67: EZ CCTRGBW 16-bit (Footprint 16)
49	0x02B	68: EZ CIExy 16-bit (Footprint 6)
50	0x02C	69: EZ RGB 16-bit (Footprint 6)
51	0x02D	70: EZ CCTxy 16-bit (Footprint 12)
52	0x02E	71: EZ ICTHS 16-bit (Footprint 10)
53	0x02F	72: EZ ICTRGBW 16-bit (Footprint 14)
54	0x030	73: EZ ICTxy 16-bit (Footprint 10)
55	0x031	61: EZ 3200K 8-bit (Footprint 1)
56	0x032	75: EZ 5600K 16-bit (Footprint 2)
57	0x033	76: ALL MODES 8-bit (Footprint 12)
58	0x034	77: ALL MODES 16-bit (Footprint 20)

14 - RDM FUNCTIONS

Network Management

Command	PID	Description
DISC UNIQUE BRANCH	0x0001	Devices respond to discovery messages.
DISC MUTE	0x0002	Mute the device.
DISC UNMUTE	0x0003	Unmute the device.

Status Collection (For Art-Net)

Command	PID	Description
QUEUED MESSAGE	0x0020	The QUEUED_MESSAGE parameter shall be used to retrieve a message from the responder‘s message queue.

RDM Information

Command	PID	Description
SUPPORTED PARAMETERS	0x0050	Support required only if supporting parameters beyond the minimum required set.
PARAMETER DESCRIPTION	0x0051	Retrieves a list of all manufacturer commands (>= 0x8000).

14 - RDM FUNCTIONS

Product Information

Command	PID	Description
DEVICE INFO	0x0060	This parameter is used to retrieve a variety of information about the device that is normally required by a controller
DEVICE MODEL DESCRIPTION	0x0080	This parameter provides a text description of up to 32 characters for the device model type.
MANUFACTURER LABEL	0x0081	This parameter provides an ASCII text response of up to 32 characters with the Manufacturer name for the device. The Manufacturer name must be consistent between all products manufactured within an ESTA Manufacturer ID.
DEVICE LABEL	0x0082	This parameter provides a means of setting a descriptive label for each device.
SOFTWARE VERSION LABEL	0x00C0	This parameter is used to get a descriptive ASCII text label for the device's operating software version.

DMX512 Setup

Command	PID	Description
DMX PERSONALITY	0x00E0	This parameter is used to set the responder's DMX512 Personality.
DMX PERSONALITY DESCRIPTION	0x00E1	This parameter is used to get a descriptive ASCII text label for a given DMX512 Personality.
DMX START ADDRESS	0x00F0	This parameter is used to set or get the DMX512 start address.

Dimmer Settings (not yet supported) RDM ANSI E1.37 version

Command	PID	Description
CURVE	0x0343	Retrieve or set a dimmer curve. 1 : Linear 2 : Gamma
CURVE DESCRIPTION	0x0344	This parameter is used to get a descriptive ASCII text label for a given curve.

14 - RDM FUNCTIONS

Power/Lamp Settings

Command	PID	Description
DEVICE HOURS	0x0400	This parameter is used to retrieve or set the number of hours of operation the device has been in use.
LAMP HOURS	0x0401	This parameter is used to retrieve the number of lamp hours or to set the counter in the device to a specific starting value.

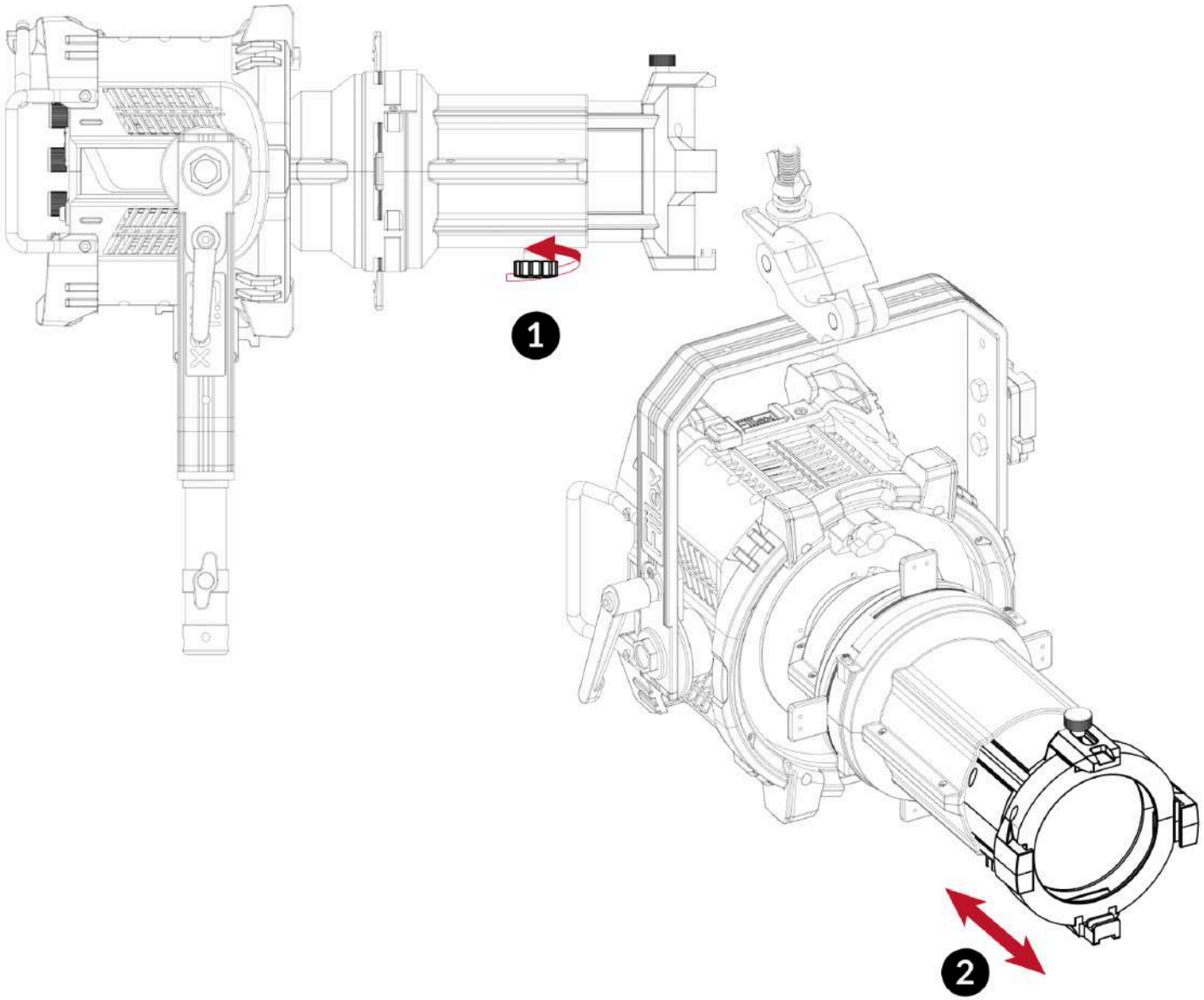
Control

Command	PID	Description
IDENTIFY DEVICE	0x1000	This parameter is used for the user to physically identify the device represented by the UID.

Manufacturer Command (not yet supported)

Command	PID	Description
WHITE POINT	0x8001	GET/SET Range 2000 ~ 10000 Kelvin Applies to HSI, RGBW and RGB modes
FIILEX_FAN	0x8002	GET/SET 0:Silent, 1:Auto, 2:Full speed, 3:OFF
FIILEX_ERROR	0x8003	GET Fiilex error code
FIILEX_CIEXY	0x8004	GET Format: (X, Y) Range: X: 0~0.8 Y: 0~0.8

15 - ACCESSORIES ADJUSTMENTS



Turn the pin (1) and the lens tube will release, pull the lens tube outward allowing fully extended (2).
NOTE: To decrease the lens tube, reverse the procedure.

Additional accessories


FLXRPU-HEAD


FLXG6CLR-LEKO19

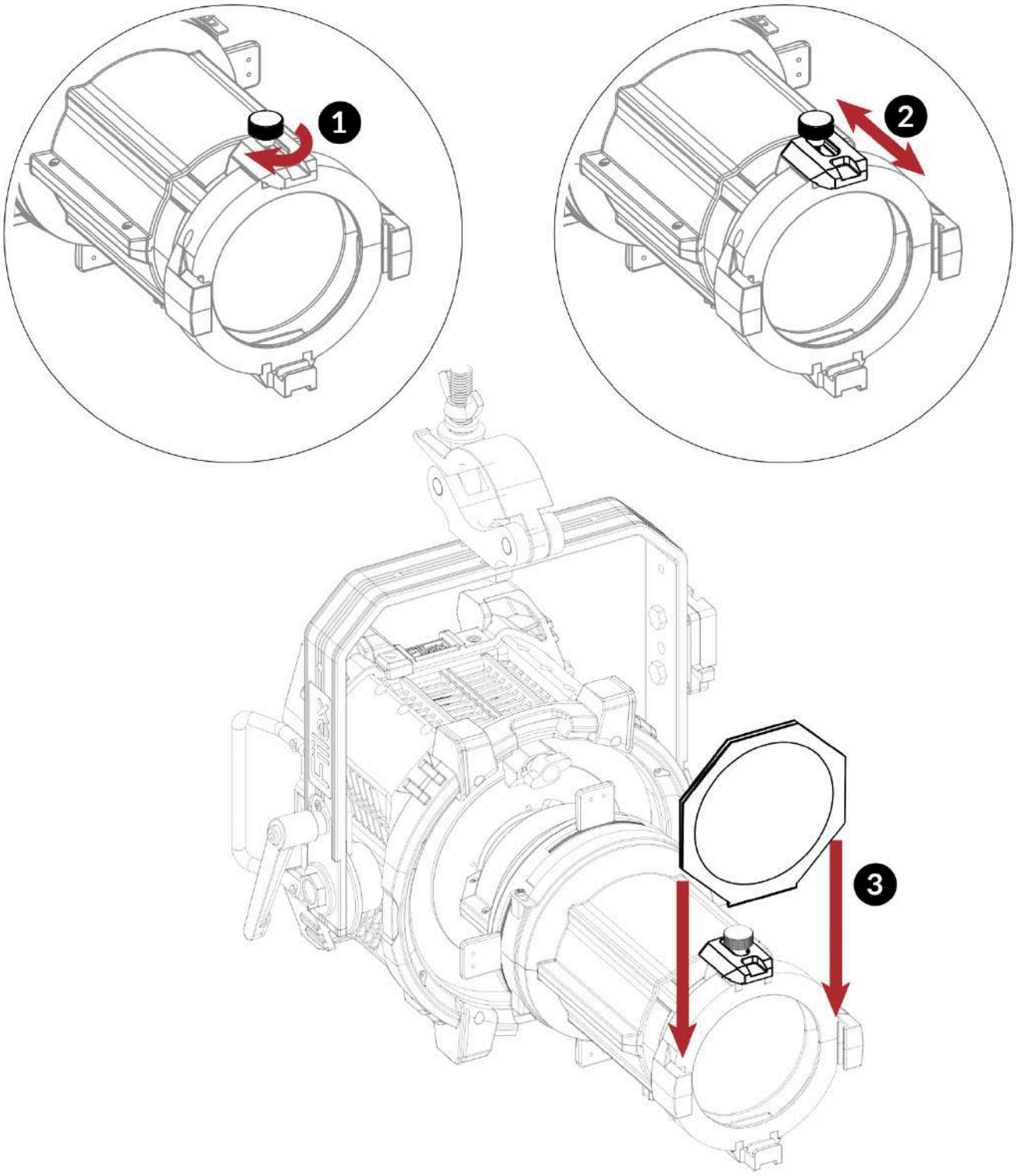

FLXG6CLR-LEKO36


FLXG6CLR-LEKO50


FLXG6CLR-GOBOHOLDER


FLXG6CLR-GOBOSET

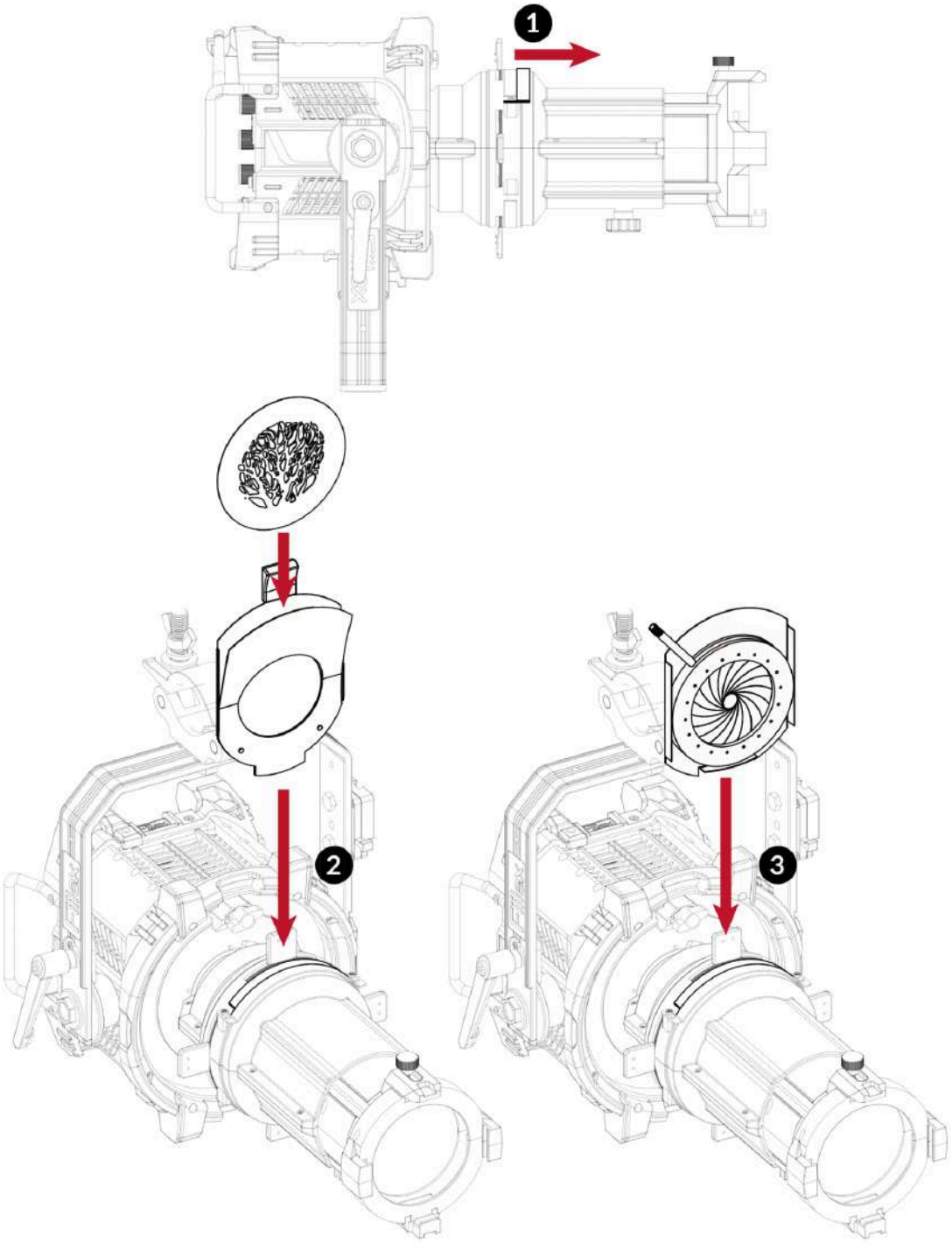
15 - ACCESSORIES ADJUSTMENTS



Rotate the pin (1) to release the cap. Push the cap in to create space for the Gel Frame holder (2) to slide in. Then, turn the pin (1) clockwise to secure it.

NOTE: To take out the Gel Frame holder, reverse the procedure.

15 - ACCESSORIES ADJUSTMENTS



Loosen the screws on both sides of the metal slider (1) and move it aside to allow the Gobo Holder (2) or Iris (3) to slide in. Slide the metal slider (1) back into place and tighten the screws to secure the Gobo Holder (2).

NOTE: Ensure the flat side of both accessories faces the light engine. To remove the accessories, reverse the procedure.

16 - MAINTENANCE

Maintenance and cleaning the product.

Warning! Disconnect from AC power before starting any maintenance work it is recommended to clean the lens at regular intervals to remove any dust, smoke, or other particles to ensure that the light is radiated at maximum brightness.

- For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the fixture dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid cleaning product, it might penetrate the unit and cause damage to it.
- The user must clean the product periodically to maintain optimum performance and cooling. The user may also upload firmware (product software) to the fixture via the USB-C port using firmware and instructions from Fiilex.
- The frequency of such maintenance operations is to be performed according to various factors, such as the amount of use and the condition of the installation environment (air humidity, presence of dust, salinity, etc.).
- Only use neutral soap and water, then dry it carefully with a soft, non-abrasive cloth.

It is recommended that the product is subject to annual service by a qualified technician for special maintenance involving at least the following procedures:
» General cleaning of internal parts.
» General visual check of the internal components, cabling, mechanical parts, etc.
» Electrical, photometric and functional checks; eventual repairs.

Warning! The use of alcohol or any other detergent could damage the lenses.

- All other service operations on the product must be carried out by Fiilex, its approved service agents or trained and qualified personnel.
- It is Fiilex policy to apply the strictest possible calibration procedures and use the best quality materials available to ensure optimum performance and the longest possible component lifetimes. However, optical components are subject to wear and tear over the life of the product, resulting in gradual changes in colors over many thousands of hours of use. The extent of wear and tear depends heavily on operating conditions and environment, so it is impossible to specify precisely whether and to what extent performance will be affected. However, you may eventually need to replace optical components if their characteristics are affected by wear and tear after an extended period of use and if you require fixtures to perform within very precise optical and color parameters.
- Do not apply filters, lenses or other materials to lenses or other optical components. Use only accessories approved by Fiilex.

16 - MAINTENANCE

Visual check of product housing

• The parts of the product cover/housing should be checked for signs of damage at least every two months. In addition, the front lens holder should be checked mechanically to ensure if it is firmly fastened to the fixture. If any damage is found, do not use the product until the damaged part has been replaced.

• Cracks or another damages to the cover/housing parts can be caused by improper handling or transportation.

• These checks are necessary for both fixed installations and mobile or rental products. Any free moving parts inside of the product, cracked cover or housing or any part of front lens not sitting properly in place need to be immediately replaced.

17 - TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Product doesn't power ON	• No power to the product.	• Check that power is switched ON and cables are plugged in.
	• Internal fault.	• Contact the Fiilex Service or authorized service partner. Do not remove parts and/or covers, or carry out any repairs or service that are not described in this Safety and User Manual unless you have both authorization from Fiilex and the service documentation.
Product has been reset but does not respond correctly to the controller.	• Bad signal connection.	• Inspect connections and cables. Fix any bad connections. Repair or replace damaged cables.
	• Signal connection not terminated.	• Insert DMX termination plug in signal output socket of the last product on the signal line.
	• Incorrect addressing of the product.	• Check the product address and control settings.
	• One of the products is defective and is corrupting the signal transmission on the signal line.	• Unplug the XLR in and out connectors and connect them directly together to bypass one product at a time until normal operation is regained. Once the error has been identified, have that fixture serviced by a qualified technician.
Fresnel adjustment is too firm/not firm enough	• Mechanical hardware requires cleaning, adjustment or lubrication.	• Contact Fiilex Service or an authorized service partner.
Light output turns OFF Intermittently	• Fixture is too hot.	• Check product for error messages. • Allow product to cool. • Clean the product and vents. • Reduce ambient temperature.
	• Hardware failure (temperature sensor, fans, Light source...)	• Check product for error messages for more information. Contact Fiilex Service or an authorized service partner.
General low light intensity	• Dirty lens assembly. • Dirty or damaged filters.	• Clean the fixture regularly. • Install lens assembly properly.

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

18 - ERROR CODES LIST

Error Code	Description	Troubleshooting Steps	Notes
5	Fan RPM Reading 0	• Reboot Fixture • Ensure Fan is Spinning • Ensure vents are free from debris • Contact fiilex@fiilex.com	
6	System Boot Up Error	• Reboot Fixture • Contact fiilex@fiilex.com	
7	FLASH	• Reboot Fixture • Contact fiilex@fiilex.com	
8	Temperature Reading Error	• Ensure ambient operating temp is above 32 and below 104 F • Reboot Fixture • Contact fiilex@fiilex.com	
11-18	Driver Board Disconnect	• Reboot Fixture • Dry fixture thoroughly (8+ hours) if subject to rain or high humidity • Contact fiilex@fiilex.com	• Error code number indicates which component caused error. Provide this to Fiilex Customer Service if unable to resolve • K40 / MOTOK40 can operate with error codes. 2 pixels will not illuminate
20-54	Component Over Temp	• Ensure ambient operating temp is below 104 F • Check fixture vents for sign of blockage • Check if fans are spinning • Reboot Fixture • Clean fixture • Contact fiilex@fiilex.com	• Error code number indicates which component caused error. Provide this to Fiilex Customer Service if unable to resolve
60	Error with Panning sensors	• Reboot Fixture • Release Latches to Manually control Yoke • Check if any roughness while panning • If exposed to water, allow fixture to dry for 8+ hours • Check if angle values change while manually panning	
61	Error with Tilting sensors	• Reboot Fixture • Release Latches to Manually control Yoke • Check if any roughness while tilting • If exposed to water, allow fixture to dry for 8+ hours • Check if angle values change while manually tilting	

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

18 - ERROR CODES LIST

Error Code	Description	Troubleshooting Steps	Notes
70-74	System Boot Up Error	• Ensure power inputs are supplying the correct voltage. • Reboot Fixture. • Contact fiilex@fiilex.com	
75	Insufficient Voltage (Main Circuit)	• Ensure power inputs are supplying the correct voltage • Use a new power source to main input • Replace power cable • Reboot fixture • Contact fiilex@fiilex.com	
76	Insufficient Voltage (Secondary Circuit)	• Ensure power inputs are supplying the correct voltage • Use a new power source to secondary input • Replace power cable • Reboot fixture • Contact fiilex@fiilex.com	

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.


Fiilex®