

PROTEUS HYBRID user manual

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DOCUMENT VERSION

Due to additional product features and/or enhancements, an updated version of this document may be available online.

Please check www.elationlighting.com for the latest revision/update of this manual, before beginning installation and/or programming.

Date	Document Version	Software Version ≥	DMX Channel Modes	Notes
07/07/17	1	1.3.1A	24 / 26 / 37	Initial release.
08/17/17	1.2	N/C	N/C	Updated error codes, rigging illustration.
12/03/17	1.4	N/C	N/C	Updated installation, E-Fly, and gobo sections.
01/03/18	1.6	1.6.0	N/C	Updated System Menus, added Movement and Focus Zoom Speed controls.
07/2718	1.8	1.62	N/C	Added dimming curves to DMX channels 24/26/37.
08/15/18	1.9	N/C	N/C	Added POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS section.
9/24/18	2.0	1.64	N/C	Updated LAMP CONTROL system menu.
11/25/18	2.2	N/C	N/C	Added LAMP and GOBO replacement instructions.

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GENERAL INFORMATION

INTRODUCTION

This fixture has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

IP65 RATED

An IP rated lighting fixture is one, which is commonly installed in outdoor environments and has been designed with an enclosure that effectively protects the ingress (entry) of external foreign objects such as dust and water. The **International Protection (IP)** rating system is commonly expressed as "**IP**" (Ingress Protection) followed by two numbers (i.e. IP65) where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture and the second digit (Water Protection) indicates the extent of protection against water entering the fixture.

An **IP65** rated lighting fixture is one that has been designed and tested to protect against the ingress of dust **(6)** and high-pressure water jets from any direction **(5)**.



ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT.

UNPACKING

Every fixture has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit for damage and be sure all accessories necessary to operate the unit have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this unit to your dealer without first contacting customer support at the number listed below. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

BOX CONTENTS

- (1) powerCON TRUE1 Cable
- (1) IP Rated 5pin DMX Cable
- (1) IP Rated etherCON Cable
- (1) Safety Cable
- (2) Omega Brackets

CUSTOMER SUPPORT

Contact ELATION Service for any product related service and support needs. Also visit forums.elationlighting.com with questions, comments or suggestions.

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST 323-582-3322 | Fax 323-832-9142 | support@elationlighting.com

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REPLACEMENT PARTS please visit parts.elationlighting.com



THIS FIXTURE CAN ONLY BE SERVICED BY AN AUTHORIZED ELATION TRAINED PROTEUS HYBRID SERVICE TECHNICIAN. THERE ARE NO END USER SERVICEABLE PARTS, DO NOT ATTEMPT ANY REPAIRS WITHOUT BEING AUTHORIZED; DOING SO WILL VOID THE MANUFACTURER WARRANTY. DAMAGES OR ANY REPAIRS RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR DISREGARD OF THE SAFETY INSTRUCTIONS AND OPERATION GUIDELINES IN THIS USER MANUAL VOIDS THE MANUFACTURER WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.

LIMITED WARRANTY (USA ONLY)

A. Elation Professional hereby warrants, to the original purchaser, Elation Professional products to be free of manufacturing defects in material and workmanship for a period of two years (730 days), and Elation Professional product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days), from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought. B. For warranty service, send the product only to the Elation Professional factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional shall have no liability what so ever for loss and/or or damage to any such accessories, nor for the safe return thereof. C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Elation Professional concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional factory unless prior written authorization was issued to purchaser by Elation Professional; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual. D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Elation Professional will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect. E. Elation Professional reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured. F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product. G. This warranty is the only written warranty applicable to Elation Professional products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

WARRANTY RETURNS

All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

SAFETY GUIDELINES

To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. Elation Professional is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture and only the original rigging parts included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufactures warranty and increase the risk of damage and/or personal injury.



PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED



THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURES WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURES WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.



DO NOT PLUG FIXTURE INTO A DIMMER PACK!
NEVER OPEN THIS FIXTURE WHILE IN USE!
UNPLUG POWER BEFORE SERVICING FIXTURE!
NEVER TOUCH FIXTURE DURING OPERATION AS IT MAY BE HOT!
KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!



ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT.



IF THE FIXTURE IS EXPOSED TO ENVIRONMENTAL TEMPERATURE CHANGES SUCH AS RELOCATION FROM AN OUTDOOR COLD TO AN INDOOR WARM ENVIRONMENT, DO NOT POWER THE FIXTURE ON IMMEDIATELY. INTERNAL CONDENSATION AS A RESULT OF ENVIRONMENTAL TEMPERATURE CHANGE CAN CAUSE INTERNAL FIXTURE DAMAGE. LEAVE THE FIXTURE POWERED OFF UNTIL IT HAS REACHED ROOM TEMPERATURE BEFORE POWERING ON.



NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!

SAFETY GUIDELINES



RISK GROUP 3 - RISK OF EXPOSURE TO ULTRAVIOLET UV RADIATION! FIXTURE EMITS HIGH INTENSITY WAVELENGTH OF ULTRAVIOLET UV LIGHT FROM THE UV COLOR FILTER. WEAR PROPER EYE AND SKIN PROTECTION. AVOID PROLONGED PERIODS OF EXPOSURE TO UV COLOR FILTER. AVOID WEARING WHITE COLOR CLOTHING AND/OR USING UV PAINTS ON SKIN. AVOID DIRECT EYE AND/OR SKIN

EXPOSURE AT DISTANCES LESS THAN 11 feet (3.3m). DO NOT OPERATE FIXTURE WITH DAMAGED/MISSING EXTERNAL COVERS. DO NOT LOOK DIRECTLY INTO THE UV LIGHT AND/OR VIEW UV LIGHT DIRECTLY WITH OPTICAL INSTRUMENTS THAT MAY CONCENTRATE THE LIGHT/RADIATION OUTPUT. INDIVIDUALS SUFFERING FROM A RANGE OF EYE CONDITIONS, SUNLIGHT EXPOSURE DIS-ORDERS, OR INDIVIDUALS USING PHOTOSENSITIVE MEDICATION, MAY RECEIVE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET UV LIGHT EMITTED FROM THE UV LED.

DO NOT TOUCH the fixture housing during operation. Turn OFF the power and allow approximately 60 minutes for the fixture to cool down before serving.

DO NOT shake fixture; avoid brute force when installing and/or operating fixture.

DO NOT operate fixture if the power cord has become frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the fixture securely with ease.

NEVER force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of similar power rating.

DO NOT block any air ventilation slots; these must remain clean and never blocked.

Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.

When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always attach an appropriately rated safety cable.

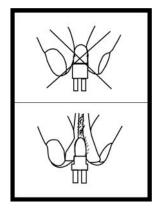
ALWAYS disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end; never pull out the plug by tugging the wire portion of the cord.

During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.

Consistent operational breaks will ensure fixture will function properly for many years.

ONLY use the original packaging and materials to transport the fixture in for service.

DISCHARGE LAMP WARNING



This fixture is fitted with a DISCHARGE LAMP, which is highly susceptible to damage if improperly handled. NEVER touch the lamp with your bare hands as the oil from your hands will shorten the life of the lamp. Also, NEVER move the fixture until the lamp has had ample time to cool. Lamps are NOT covered under warranty conditions. Avoid switching the fixture ON and OFF repeatedly in short intervals as this will reduce lamp life and intensity. To achieve the intensity associated with discharge lamps, these lamps use gas sealed in a high-pressure environment to emit a brilliant output.

Due to the high pressure involved with the construction of the lamp, the lamp MAY EXPLODE DURING PROLONGED EXTENSIVE USE. This risk is increased with age; added care is encouraged when dealing with older lamps. Thus, the lamp must always be replaced at the end of their recommended duty cycle. Extreme caution should be used when operating this or any fixture fitted with a gas discharge lamp.

UV RADIATION NOTICE



This fixture emits intense UV radiation, which is harmful to the eyes and skin. The intense luminance of the lamp can cause severe damage to the retina. NEVER operate this fixture with ANY of the protective covers removed. These covers have been specially designed to shield against UV radiation.

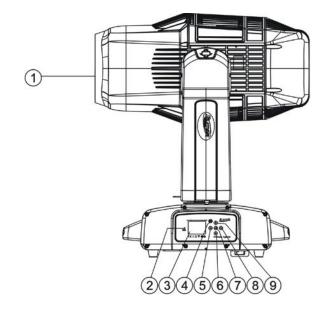
LAMP REPLACEMENT

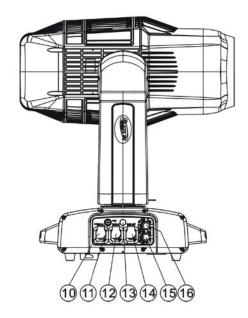


Please note that due to the nature of the Philips™ Platinum 21R Lamp and the optical path of the fixture, the lamp MUST BE replaced at 1,500 hours.

Use only Genuine Original Philips™ Platinum 21R Lamps. Other brand lamps may cause damage and void warranty!

OVERVIEW





- 1. Lens
- 2. E-FLY Wireless DMX Indicator LED
- 3. LCD Menu Control Display
- 4. MODE/ESC Button
- 5. LEFT Button
- 6. DOWN Button
- 7. ENTER Button
- 8. RIGHT Button
- 9. UP Button
- 10. powerCON TRUE1 IN
- 11. Fuse
- 12. RJ45 Ethernet IN
- 13. Gore Valve
- 14. RJ45 Ethernet OUT
- 15. 5pin DMX IN
- 16. 5pin DMX OUT

LAMP INSTALLATION



LAMP REPLACEMENT

Please note that due to the nature of the Philips™ Platinum 21R Lamp and the optical path of the fixture, the lamp MUST BE replaced at 1,500 hours.

Use only Genuine Original Philips™ Platinum 21R Lamps. Other brand lamps may cause damage and void warranty!

INSTALLING OR REPLACING THE LAMP

To ensure a proper/safe lamp change, carefully read all the following instructions.

LAMP PROTECTION CIRCUITRY

Because of the nature of the extreme heat associated with the **Philips™ Platinum 21 R** lamp and the unique IP65 rated sealed optical system, it is **IMPERATIVE** that the lamp be replaced at **1,500 Hours** or sooner. This is done to protect the internal sealed optical system as well as prevent accidental lamp explosion, which could lead to hot glass particles falling from the fixture.

FAILURE TO CHANGE THE LAMP WITHIN 300 HOURS of the 1,500 HOUR RATED LIFE, WILL CAUSE THE FIXTURE TO AUTOMATICALLY SHUT DOWN!

At **1,500 Hours**, the LCD control display will begin to flash, "**Replace The Lamp**", and the lamp will flicker for the first five minutes of operation. At this point the lamp has reached the maximum rated life and should be replaced immediately. After the lamp has flickered for about five minutes, it should strike normally, allowing the fixture to be used temporarily until a replacement lamp can be installed. The fixture will continue to operate for an additional 300 hours; however, the "**Replace the Lamp**" warning will continue to flash in the display. Keep in mind that the flicker protection circuitry will only work for about 300 Hours (lamp clock life of 1,500-1,800 Hours).

After 1,800 Hours, the fixture will no longer respond to DMX commands and immediately enter a hibernation mode that will electronically discontinue all fixture functionality with the exception of a few menu commands. The fixture will continue to enter hibernation mode until the lamp is replaced and the lamp clock has been reset. To replace the lamp, follow the safety guidelines and procedures listed on the next page.



WARNING! LAMP REPLACEMENT SHOULD ONLY BE DONE BE A TRAINED TECHNICIAN.

1. Turn OFF power and allow approximately 60 minutes for the fixture to cool down.



2. Place head in a right-angle horizontal position and engage both the **PAN and TILT** locks for added stability while replacing the lamp.



3. Remove (4x) 3mm hex-head screws to remove rear cover.



4. Unclip the rear cover safety cable.

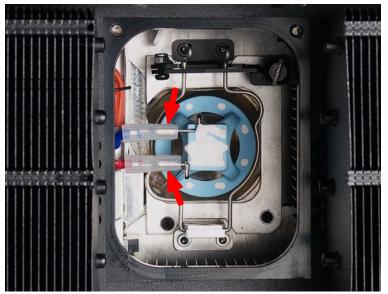


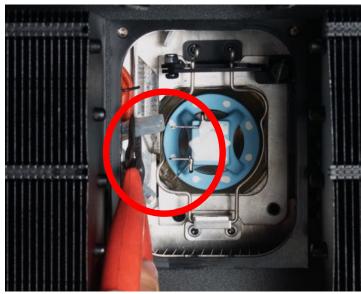
5. Remove (4x) 3mm hex-head screws holding the center heatsink module.



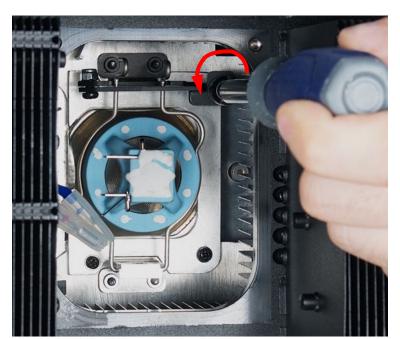
6. Unclip the center heatsink module safety cable.

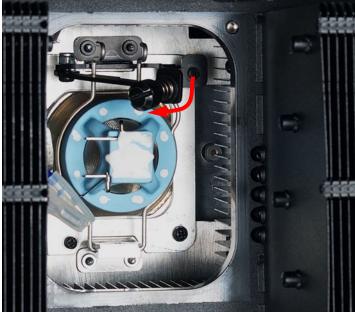




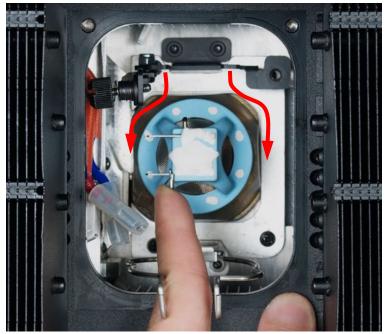


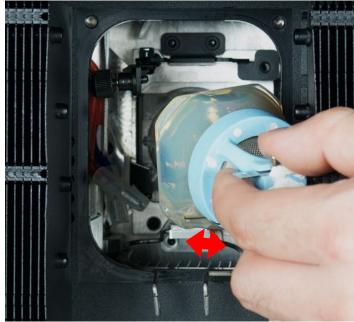
7. Gently remove the (2x) spade terminals connected to the lamp.





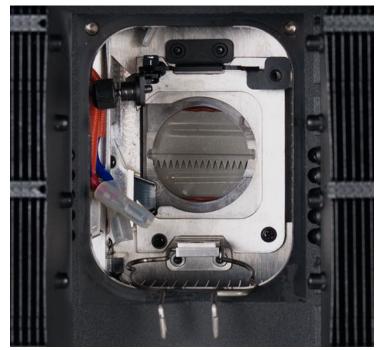
8. Loosen the lamp retaining arm screw and the pull arm out. Then unclip the lamp retaining clip





9. Swing the lamp retaining clip out, then carefully remove the lamp.

WARNING! LAMP MAY BE HOT. USE CAUTION WHEN TOUCHING LAMP WITH BARE HANDS.





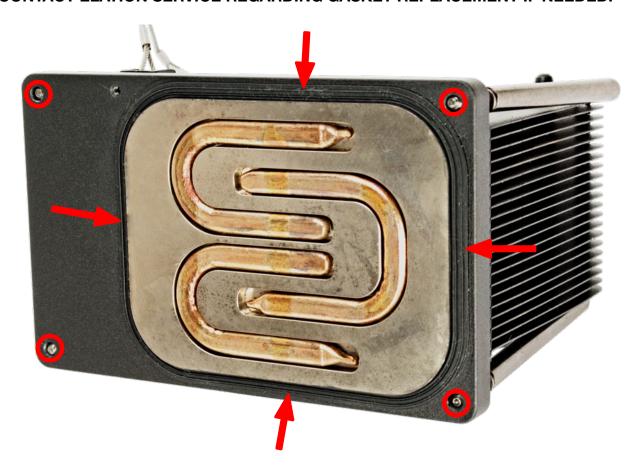
10. Carefully install the new lamp, then follow the removal instruction steps in reverse order. **NOTE: Brush away any debris using a nonabrasive brush before replacing the heatsink.**

LAMP INSTALLATION [continued] GASKET INSPECTION

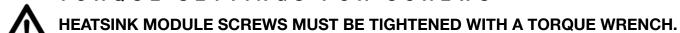
CAREFULLY REMOVE ANY DEBRIS FOUND ON GASKET AND SCREW HOLES OF THE HEATSINK MODULE USING A NONABRASIVE BRUSH BEFORE INSTALLING!

CAREFULLY INSPECT HEATSINK GASKET FOR SIGNS OF WEAR SUCH AS CRACKING OR HARDENING, DEFORMITIES, OR ALIGNMENT ISSUES BEFORE INSTALLING!

ITEMS ABOVE CAN IMPEDE THE IP65 INTEGRITY AND/OR CAUSE INTERNAL DAMAGE. CONTACT ELATION SERVICE REGARDING GASKET REPLACEMENT IF NEEDED.



TORQUE SETTINGS FOR SCREWS





The (4x) hex-head screws holding the heatsink module MUST be tightened with a torque wrench (not included). TORQUE SETTING = 11 lbf-in. (12.7kgf-cm) *

* lbf-in = Pound Force Inches | kgf-cm = Kilogram Force Centimeters



CAUTION! DO NOT OVER TORQUE SCREWS AS THIS CAN CAUSE LEAKAGE ISSUES! TO CONFIRM THE IP65 INTEGRITY AFTER A LAMP REPLACEMENT, TEST FIXTURE USING THE ELATION IP TESTER. CONTACT ELATION SERVICE FOR MORE DETAILS.



GOBO INSTALLATION

M

WARNING! GOBO REPLACEMENT SHOULD ONLY BE DONE BE A TRAINED TECHNICIAN.

1. Turn OFF power and allow approximately 60 minutes for the fixture to cool down.





2. Place the head in an upright vertical position and engage both the **PAN and TILT** locks for added stability while replacing the gobo.





3. Remove (12x) 3mm hex-head screws (6x per panel) to remove both center panels.





4. Unclip the panel safety cable one side of the head.





5. Unclip the panel safety cable on the opposite side of the head.

6. Cut the plastic cable-ties holding wires and disconnect connectors attached to the effect module.

6a





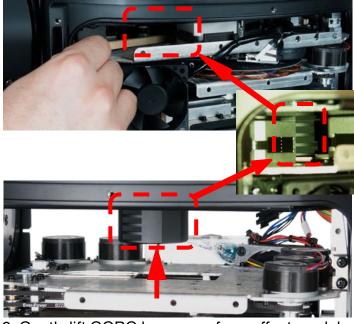












7. Remove (2x) #2 Philips screws securing effect module.

8. Gently lift GOBO lens away from effect module.



9. Carefully remove the effect module from fixture.



10. Place the effect module on firm clean surface and locate GOBO to replace.





11. Carefully lift the GOBO Holder up and out from the GOBO wheel using small needle nose plyers.

CAUTION! DO NOT SCRATCH GOBO AND HOLDER WHEN REPLACING!











13. Carefully separate the GOBO disc from the GOBO Holder.









14. Carefully remove the retaining ring washer attached to the GOBO.

SAVE RETAINING RING WASHER FOR USE WITH THE NEW REPLACEMENT GOBO! RETAINING RING MUST BE USED IN ORDER TO PREVENT GOBO BURNING!

15. Carefully replace the GOBO and GOBO Holder, following the instruction steps in reverse order. NOTE: Brush away any debris using a nonabrasive brush before installing the effect module.



GASKET INSPECTION

CAREFULLY REMOVE ANY DEBRIS FOUND ON GASKET AND SCREW HOLES OF BOTH CENTER PANELS USING A NONABRASIVE BRUSH BEFORE INSTALLING!

CAREFULLY INSPECT GASKETS FOR SIGNS OF WEAR SUCH AS CRACKING OR HARDENING, DEFORMITIES, OR ALIGNMENT ISSUES BEFORE INSTALLING!

ITEMS ABOVE CAN IMPEDE THE IP65 INTEGRITY AND/OR CAUSE INTERNAL DAMAGE. CONTACT ELATION SERVICE REGARDING GASKET REPLACEMENT IF NEEDED.



TORQUE SETTINGS FOR SCREWS

W

PANEL SCREWS MUST BE TIGHTENED WITH A TORQUE WRENCH.



The (12x) hex-head screws holding the panels MUST be tightened with a torque wrench (not included). TORQUE SETTING = 11 lbf-in. (12.7kgf-cm) *

* Ibf-in = Pound Force Inches | kgf-cm = Kilogram Force Centimeters



CAUTION! DO NOT OVER TORQUE SCREWS AS THIS CAN CAUSE LEAKAGE ISSUES! TO CONFIRM THE IP65 INTEGRITY AFTER A GOBO REPLACEMENT, TEST FIXTURE USING THE ELATION IP TESTER. CONTACT ELATION SERVICE FOR MORE DETAILS.

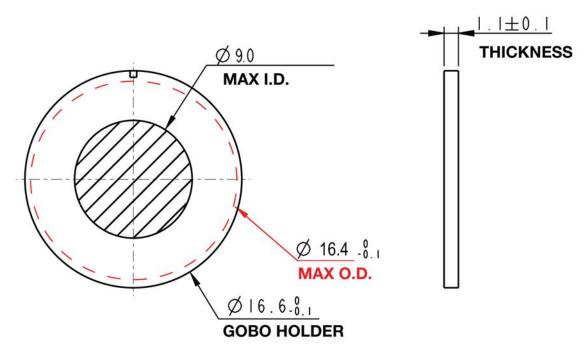


ROTATING GOBO SPECIFICATIONS

* * * IMPORTANT NOTICE REGARDING CUSTOM GOBOS * * *

Due to the extreme high temperature optical system, which can reach up to 842°F (450°C), special BOROFLOAT glass and design criteria are required. Due to varying gobo manufacturing processes and tolerances, it is highly recommended to provide a gobo sample from the fixture to the custom gobo vendor for accurate sizing. Extended testing of custom gobo designs is highly recommended prior to using.

PLEASE CONTACT ELATION CUSTOMER SUPPORT FOR FURTHER INFORMATION.



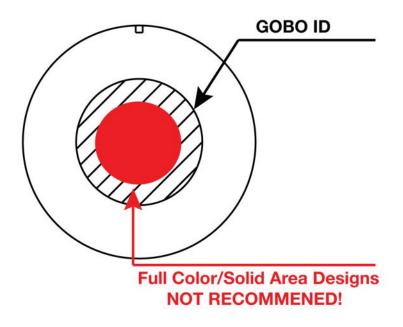
O.D. (Max. Outer Diameter)	ф16.4mm	
I.D. (Max. Image Diameter)	ф9mm	
Gobo Holder Diameter	ф16.6mm	
Thickness	1.1mm±0.1mm	
Material	BOROFLOAT GLASS	

CUSTOM GOBO DESIGN GUIDELINES

* * * IMPORTANT NOTICE REGARDING CUSTOM GOBO DESIGNS* * *

Full Color / Solid Area custom gobo designs are **NOT RECOMMENDED** due to the extreme high temperature optical system which can reach up to **842°F (450°C)**. Custom gobo designs as illustrated below can burn during extended use.

PLEASE CONTACT ELATION CUSTOMER SUPPORT FOR FURTHER INFORMATION.



FIXTURE INSTALLATION



FLAMMABLE MATERIAL WARNING

Keep fixture at least 5.0 feet (1.5m) away from any flammable materials, decorations, pyrotechnics, etc.



ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.



MINIMUM DISTANCE TO OBJECTS/SURFACES
MUST BE 40 FEET (12 METERS)



MAXIMUM TEMPERATURE OF EXTERNAL SURFACE 2 1 2 ° F (1 0 0 ° C)

DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!

Fixture MUST be installed following all local, national, and country commercial electrical and construction codes and regulations. Before rigging/mounting the fixture to any metal truss/structure or placing the fixture on any surface, a professional equipment installer MUST be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture, clamps, cables, and accessories.

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable that meets all local, national, and country codes and regulations.

Fixture ambient operating temperature range is -4° to 113°F. (-20° to 45°C)

Do not use this fixture outside this temperature range.

Fixture should be installed in areas outside walking paths, seating areas, or away from areas were unauthorized personnel might reach the fixture by hand.

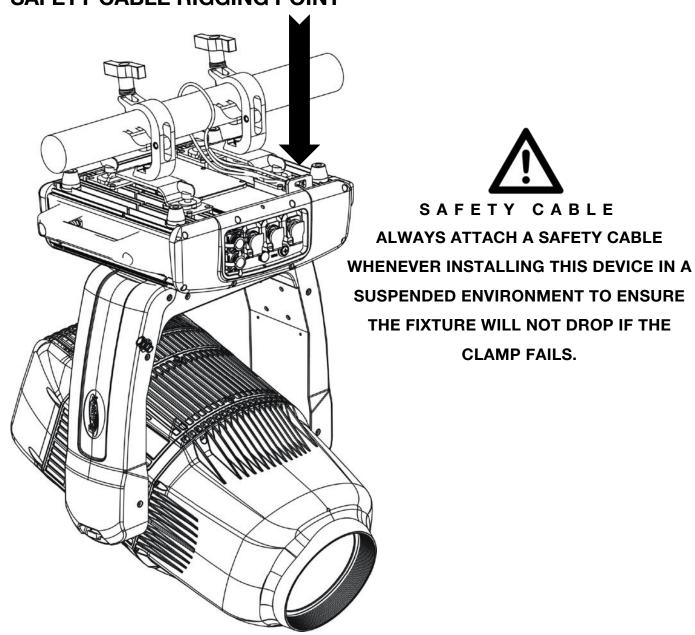
NEVER stand directly below the fixture when rigging, removing, or servicing.

Allow approximately 15 minutes for the fixture to cool down before serving.

CLAMP INSTALLATION

The fixture can be attached to a metal truss/structure using. When mounting this fixture to truss be sure to secure (2) appropriately rated clamps (not included) to the (2) Omega Brackets (included). Be sure to attach the Safety Cable (included) to the fixture using the safety cable rigging point integrated into the bottom of the fixture. (See image below.)

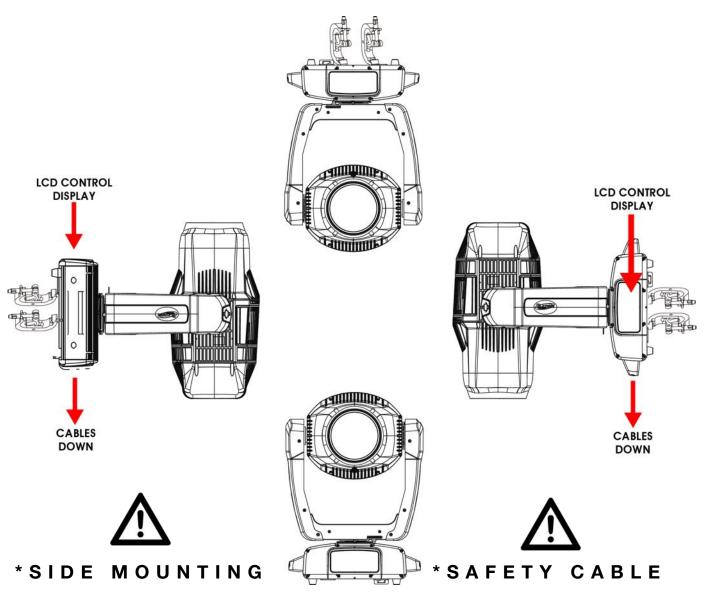
SAFETY CABLE RIGGING POINT



OVERHEAD RIGGING

Overhead rigging requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Fixture is fully operational in the specific mounting positions illustrated below. *



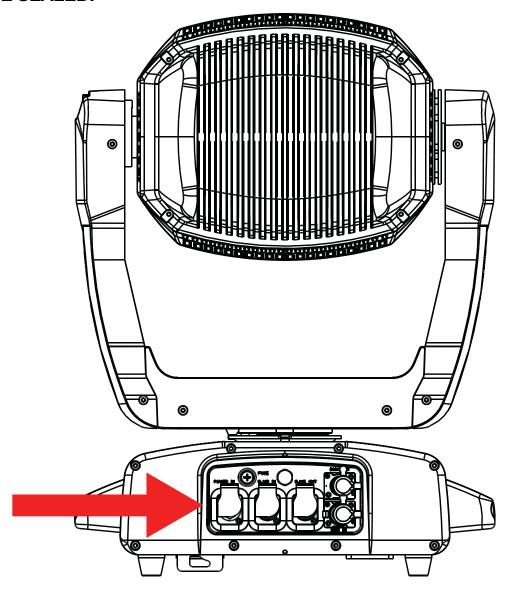
TO MAINTAIN IP65 RATING INTEGRITY, FIXTURE MUST BE INSTALLED WITH CABLES FACING THE GROUND AT ALL TIMES. WATER MUST EASILY RUN OFF AND NOT COLLECT AROUND CABLE CONNECTIONS.

ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT DROP IF THE CLAMP FAILS.

CONNECTIONS

ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT.

TO MAINTAIN IP65 RATING INTEGRITY AND PREVENT WATER FROM ENTERING THE FIXTURE, ALL UNUSED CONNECTION RUBBER CAPS MUST BE SEALED.



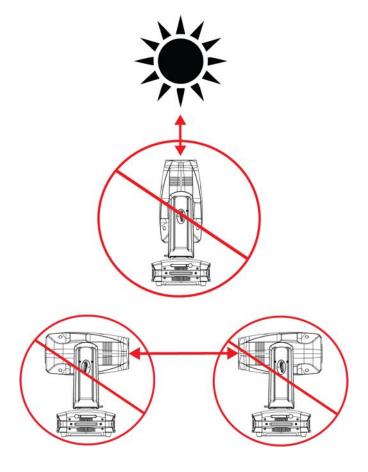
POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, lighting moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of ELATION lighting fixtures, can cause severe internal damage including burning to optics, dichroic color filters, glass and metal gobos, prisms, animation wheels, frost filters, iris, shutters, motors, belts, wiring, discharge lamps, and LEDs.

This issue is not specific to ELATION lighting fixtures;vv it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can prevent any potential damage from occurring if followed. Contact ELATION Service for more details.

DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING MOVING HEAD FIXTURES, AND LASERS WHILE UNPACKING, INSTALLING, OR USING, AND FOR EXTENDED IDLE TIMES OUTDOORS.

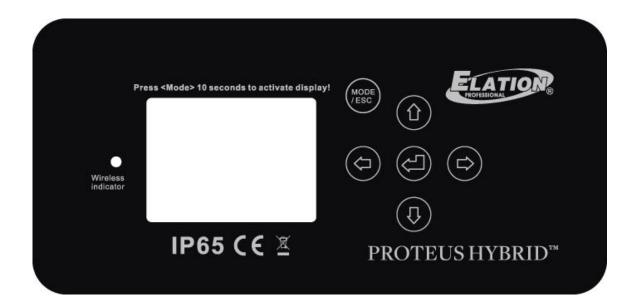
DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.



SYSTEM MENU

The fixture includes an easy to navigate system menu control panel display where all necessary settings and adjustments are made. (See image below) During normal operation, pressing MODE/ESC button once will access the fixture's main menu. Once in the main menu, you can navigate through the different functions and access the sub-menus with the UP, DOWN, RIGHT, and LEFT buttons. When you reach a field that requires adjusting, press the ENTER button to activate that field and use the UP and DOWN buttons to adjust the field. Pressing the ENTER button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by pressing the MODE/ESC button.

NOTE: To access the LCD Menu Control Display via the internal battery, press and hold the **MODE/ESC** button for 10 seconds. The LCD Menu Control Display will shut **OFF** automatically about 60 seconds from the last button press.



SYSTEM MENU					
Supports Software Versions: ≥ 1.3.1A					
Features are subject to change without any prior written notice.					
*Rotation direction (Clockwise or Counterclockwise) of effects depends on orientation of the fixture head and Pan/Tilt settings.					
MAIN MENU	SUB MENU	OPTIONS / VALUES	(Default Settings in	DESCRIPTION	
	Set Dmx Address	A001~AXXX		DMX Address Setting	
FUNCTION	Dmx Value	ALL		DMX Value Display	
FUNCTION	Slave Mode	Slave1, Slave2, Slave3		Slave Setting	
	Auto Program	Master / Alone		Auto Program	
		Current Time	XXXX (Hours)	Fixture Run Time From Power ON	
		Total Run Time	XXXX (Hours)	Fixture Total Run Time	
		Last Run Time	XXXX (Hours)	Fixture Last Run Time	
		Lamp Hours	XXXX (Hours)	Lamp Running Time	
	Time Information	Lamp Off Time	XXXX (Hours)	Lamp Off Time	
		LastRun Password	Password=038	(PSWD Required)	
		Clear Last Run	ON / OFF	Clear Fixture Last Run Time	
		LampTime Password	Password=038	(PSWD Required)	
		Clean Lamp Time	ON / OFF	Clear Lamp Last Run Time	
		Head Temperature	XXX C° / F°	Temperature in Fixture Head	
INFORMATION	Temperature Info	LAMP Temperature	XXX C° / F °	Temperature of LAMP	
		Base Temperature	XXX C° / F °	Temperature in Fixture Base	
	Humidity Info	Base Humidity	XXX%RH	Humidity In Fixture Base	
		Head Humidity	XXX%RH	Humidty in Fixture Head	
	Ethernet IP	XXX . XXX . XXX . XXX	XXX . XXX . XXX . XXX	Displays Fixture Ethernet Address	
	Fan Info	1U_FAN1		RPM Speeds of Fans	
	Encode Info	PAN ENCODE:, TILT ENCODE:			
	Software Version	≥V1.3.1A		Software Version	
	Error Info	Error Record 1 ~ Error Record 10		Fixture Last 10 Error Codes	
	Lamp Error log	Error Record 1 ~ Error Record 10		Lamp Last 10 Error Codes	
	Lamp ON/OFF	ON/OFF		Lamp ON/OFF	
	Automatic ON ON /OFF		Lamp ON/OFF when Power ON		
LAMP	Lamp ON via DMX	ON /OFF		Lamp ON via DMX	
	Lamp OFF via DMX	ON/OFF		Lamp OFF via DMX	
CONTROL	Max ON at Temp	20~79°C (45°C) / 68 ~ 174°F (113°F)		Lamp Restart at Temp	
	MaxOnatHumidity	20~100%RH, 70%RH		Fixture Restart at Humidity	
	Lamp OFF Temp	80~139°C (130°C) / 17	Lamp OFF at Temp		

SYSTEM MENU CHANGE WITH SOFTWARE UPDATE VERSION ≥1.6.4 See highlighted menu items below which have been updated with this software update.

	Lamp ON/OFF	ON/OFF	Lamp ON/OFF
LAMP	Automatic ON	ON/OFF	Lamp ON/OFF when Power ON
	Lamp ON via DMX	ON/OFF	Lamp ON via DMX
CONTROL	Lamp OFF via DMX	ON/OFF	Lamp OFF via DMX
	MaxOnatHumidity	20~100%RH, 70%RH	Fixture Restart at Humidity

SYSTEM MENU					
Supports Software Versions: ≥ 1.3.1A					
Features are subject to change without any prior written notice.					
	*Rotation direction (Clockwise or Counterclockwise) of effects depends on orientation of the fixture head and Pan/Tilt settings.				
MAIN MENU	SUB MENU	OPTIONS / VALUES	(Default Settings in BOLD)	DESCRIPTION	
		Address via DMX	ON/OFF	Address Via DMX	
		No DMX Status	Close / Hold / Auto	Fixture State When NO DMX Signal	
		Pan Reverse	ON/ OFF	Pan Reverse Movement	
		Tilt Reverse	ON/ OFF	Tilt Reverse Movement	
	Status Settings	Pan Degree	630/ 540	Pan Degree Select	
		Feedback	ON/OFF	Movement Feedback	
		Movement Speed	NormalSpeed SlowSpeed	Select Movement Speed	
		Hibernation	OFF, 01M~99M, 15M	Stand By Mode	
		Password	Password= 050	Service Password	
	Service Setting	RDM PID	22A6xxxxxxxx	RDM PID Code (PSWD Required)	
		Clear Err. Info	ON/ OFF	Clear Error Info (PSWD Required)	
		DFLT Pow. LampOn	ON/ OFF	Set Default Lamp Power State to ON	
PERSONALITY	Display Setting	Shutoff Time	02~60m 05m	LCD Display Shut Off Time	
I LITOOTA LITT		Display Reverse	AUTO/ON/OFF	LCD Display Reverse 180°	
		Key Lock	ON/OFF	LCD Control Panel Lock Out	
	Temperature C/F	Celsius/Fahrenheit		Temperature Switch Between C°/ F°	
	Initial Status	CONTROL =XXX		Initial Effect Position	
	Select Signal	E-FLY Off		Control via DMX ONLY	
		DMX & E-FLY		Control via DMX and E-FLY	
		E-FLY & OUT		Control via E-FLY and sends DMX Out	
		Art-Net		Control via Art-Net Protocol	
		sACN		Control via sACN Protocol	
	Set Universe	000 - 32767		Set ArtNet Universe (Art-Net 4)	
	Ethernet IP	XXX.XXX.XXX		Set Fixture IP Address	
	Ether Mask IP	XXX.XXX.XXX		Set Fixture Subnet Mask Address	
	Set E-FLY Chn	00 - 15		Set E-FLY Wireless Channel	
	Reset Default ON/ OFF Password= 011		Restore Factory Settings (PSWD Required)		

SYSTEM MENU CHANGE WITH SOFTWARE UPDATE VERSION ≥1.6.0

See highlighted menu items below which have been updated with this software update.

MAIN MENU	SUB MENU	OPTIONS / VALUES (D	Default Settings in BOLD)	DESCRIPTION
	Status Settings	Movement Speed	HighSpeed MiddleSpeed SlowSpeed	Select Movement Speed
		FocusZoom Speed	HighSpeed Slow Speed	Select Focus Zoom Speed
	Service Setting	Password	Password=050	Service Password
PERSONALITY		RDM UID	22A6xxxxxxxx	RDM PID Code (PSWD Required)
T ENGOLVIETT		Clear Err. Info	ON/ OFF	Clear Error Info (PSWD Required)
		Clear Error code	ON/ OFF	Clear Error Code (PSWD Required)
	Initial Status	Control =XXX		Initial Effect Position
	Select Signal	E-FLY Off		Control via DMX ONLY
		DMX & E-FLY		Control via DMX and E-FLY
		E-FLY & OUT		Control via E-FLY and sends DMX Out
		Art-Net		Control via Art-Net Protocol
		sACN		Control via sACN Protocol

SYSTEM MENU

Supports Software Versions: ≥ **1.3.1A**

Features are subject to change without any prior written notice.

	Rotation direction (Clockwis			fixture head and Pan/Tilt settings.
MAIN MENU	SUB MENU	OPTIONS / VALUES (Default Settings in BOLD)		DESCRIPTION
	Reset All			Reset All Motors
	Reset Pan&Tilt			Reset Pan/Tilt
Reset	Reset Colors			Reset Color Wheel
Function	Reset Gobos			Reset Gobos
	Reset Shutter			Reset Shutter
	Reset Others			Reset Other Motors
	Test Channel	CONTROL		Test function
Effect Adjust	Manual Control	CONTROL =XXX,		Fine Adjustments
	Calibration	Calibration Password	Password=050	Password 050 (PSWD Required)
		Basic Mode		
		Standard Mode		DMX Channel Modes
	User Mode	Extended Mode		
	User Mode	User Mode A		
User Mode		User Mode B		User Defined Channel Assignment
Set		User Mode C		
	Edit User Mode A	Max Channel = XX PAN = CH01		Edits User Defined Channel Assignments
	Edit User Mode B			
	Edit User Mode			
	С			
	Select Program	Auto Pro Part1 = Program 1~10 (Program 1)		Select Programs To Be Run
		Auto Pro Part2 = Program 1~10 (Program 2)		
		Auto Pro Part3 = Program 1~10 (Program 3)		
	Edit Program	Program 1	Program Test	Testing Program
		:	Step 01=SCxxx	Program In Loop
Edit Program		Program 10	Step 64=SCxxx	Save and Exit
	Edit Scenes	Scene 001 ~ Scene 250	Pan,Tilt,	Save and Automatically Return
			Fade Time	Manual Scenes Edit
			Scene Time	
			Input By Outside	Stores Scenes via Ext DMX Console
Rec. Controller		XX~XX		Automatic Scenes Recorder

PERSONALITY - Status Settings - Address Via DMX

When ON, define the desired DMX address via an external controller.

NOTE: This process assumes the fixture DMX address is set to 001. If fixture DMX address is not at 001, you must adjust the channel numbers accordingly in order for this feature to work. For example: if your fixture address is 010, then Channel 1 becomes Channel 10, Channel 2 becomes Channel 11, and Channel 3 becomes Channel 12.

- 1. Connect the fixture to the external controller and power ON.
- 2. Set the DMX value of **Channel 1** on the controller to **(7)**.
- 3. Set the DMX value of **Channel 2** on the controller to **(7)** or **(8)**. When set to **(7)**, the DMX address can be set between **(1)** and **(255)**. When set to **(8)**, the DMX address can be set between **(256)** and **(511)**.
- 4. Using **Channel 3** on the controller set the desired DMX address of the fixture.

Example 1: If the desired DMX address is **57**, set **Channel 1** to a value of **(7)**, set **Channel 2** to a value of **(7)**, and then set **Channel 3** to a value of **(57)**.

- **Example 2:** If the desired DMX address is **420**, set **Channel 1** to a value of **(7)**, set **Channel 2** to a value of **(8)**, and then set **Channel 3** to a value of **(164)**. (256+164=420)
- 5. After setting **Channel 3** to the desired DMX address value, wait for approximately 20 seconds (some fixtures may require a longer time) for the fixture to complete the address reset function.

PERSONALITY - Reset Default (011)



ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION.

NOTE: SAVED WHITE BALANCE IS ERASED AFTER A RESET IS PERFORMED.

This function restores all fixture settings to the factory default settings. The password is **011** and must be entered each time a reset is performed.

EFFECT ADJUST – Test Channel

Auto test each individual channel function independently from the DMX control board.

EFFECT ADJUST - Manual Control

Select, manually test, and fine adjust each channel function independently from DMX control board. This function will center PAN and TILT motors, and set dimmer to 100%. PAN and TILT functions will still operate if the fixture needs to be positioned to a flat clear surface. With the individual functions, you can focus the light on a flat surface (wall) and perform fine adjustments.

EFFECT ADJUST - Calibration



ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION.

This function allows small adjustments to be made to the Pan, Tilt, and Zoom movements to compensate for ware or in the event a sensor has been knocked slightly out of place. Because improper use of this function can result in undesired operation, this function has been password protected. The password is **050** and must be entered each time the calibration menu function is entered. Because calibration is an extremely delicate procedure, instructions on performing this action are left out of this manual. For a first time calibrator, please contact our customer support team for step-by-step instructions.

E-FLY WIRELESS DMX SET UP



BEFORE SETTING THE WIRELESS CHANNEL ON ANY E-FLY FIXTURE, MAKE SURE THE SOURCE E-FLY WIRELESS DMX TRANSCEIVER DEVICE IS OFF.

TO CONTROL FIXTURE WITH E-FLY WIRELESS DMX SIGNAL

- 1. Ensure the source **E-FLY** wireless DMX Transceiver device is powered **OFF**.
- 2. Power **ON** fixture and from the LCD control panel and select **DMX & E-FLY** or **E-FLY & OUT** in the **Select Signal** sub menu of the **PERSONALITY** main system menu.
- 3. From the LCD control panel set the **E-FLY** wireless channel to the same wireless channel of the source **E-FLY** DMX Transceiver device in the **Set E-FLY** Chn sub menu of the **PERSONALITY** main system menu.

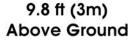
NOTE: Erratic fixture movement may occur if other **E-FLY** wireless DMX products are in use in the same area and are using the same **E-FLY** wireless channel. When **E-FLY** is enabled, the fixture may immediately start to respond to the DMX wireless signal from another **E-FLY** wireless DMX Transceiver. Make sure to know what **E-FLY** wireless channels are being used in the area where the fixture is being installed.

ELATION E-FLY WIRELESS TRANSCEIVER only has 0-14 wireless channels, NO CH 15.

- Set fixture DMX address in the Set Dmx Address sub menu of the FUNCTION main system menu.
- 5. The **E-FLY** signal Indicator on the fixture LCD control display will illuminate **GREEN** if a successful wireless DMX connection has been made, or it will illuminate **RED** for NO connection. If no connection is made, repeat steps 1-4 above.
- 6. Repeat this process for all **E-FLY** compatible fixtures in the E-FLY wireless network, making sure all fixtures are assigned the same **E-FLY** wireless channel.
- 7. After all fixtures in the **E-FLY** wireless network have been set to the same **E-FLY** wireless channel and powered ON, power ON the source **E-FLY** DMX Transceiver device.
- 8. Test all fixtures connected to the **E-FLY** wireless network to confirm proper functionality.

WIRELESS E-FLY INSTALLATION LOCATION GUIDELINES

Wireless DMX signal can penetrate walls, glass, metal, and most objects. However, there are many factors that can affect and/or interrupt the wireless DMX signal, one of which is people. Therefore, it is highly recommended to position the wireless antenna a minimum of 9.8 ft. (3m) above audiences and/or above ground level. Careful planning and testing of the selected installation location is critical to ensure optimum and reliable wireless DMX operation.





DMX CHANNEL FUNCTIONS AND VALUES

ELATION PROTEUS HYBRID DMX Channel Values / Functions (37 DMX Channels)

Supports Software Versions: ≥ 1.3.1

Features subject to change without any prior written notice.

	*Rota	tion direction		Ibject to change without any prior written notice. unterclockwise) of effects depends on orientation of the fixture head and Pan/Tilt settings.
	DE / CHA	1	VALUE	FUNCTION
BASIC	STAND	EXTEND		
1	1	1	0.055	PAN MOVEMENT
			0-255	PAN Movement PAN FINE MOVEMENT [16 BIT]
	2	2	0-255	Fine Control of PAN Movement
			0 200	TILT MOVEMENT
2	3	3	0-255	TILT Movement
				TILT MOVEMENT [16 BIT]
	4	4	0-255	Fine Control of TILT Movement
3	5	5		CYAN COLOR
3	3	3	0-255	0-WHITE ~ 255-100% CYAN
		6		CYAN COLOR FINE [16 BIT]
			0-255	CYAN FINE Adjustment
4	6	7		MAGENTA COLOR
			0-255	0-WHITE ~ 255-100% MAGENTA
		8	0-255	MAGENTA COLOR FINE [16 BIT]
			0-255	MAGENTA FINE Adjustment YELLOW COLOR
5	7	9	0-255	0-WHITE ~ 255-100% YELLOW
			0 200	YELLOW COLOR FINE [16 BIT]
		10	0-255	YELLOW FINE Adjustment
0	_	44		CTO COLOR
6	8	11	0-255	0-WHITE ~ 255-100% CTO
		12		CTO COLOR FINE [16 BIT]
		12	0-255	CTO FINE Adjustment
				COLOR WHEEL
			0-15	OPEN / WHITE
			16-23	RED
			24-31	BLUE GREEN
			32-39 40-47	YELLOW
			48-55	PURPLE
			56-63	AQUA
			64-71	ORANGE
7	9	13	72-79	LIGHT PINK
			80-87	LIME GREEN
			88-95	LIGHT YELLOW
			96-103	MAGENTA
			104-111	СТВ
			112-119	СТО
			120-127	UV
			128-189	*Counterclockwise COLOR Rotation from FAST to SLOW
			190-193	NO Rotation
			194-255	*Clockwise COLOR Rotation from SLOW to FAST

МО	DE / CHA	NNEL		TIMOTION
BASIC	STAND	EXTEND	VALUE	FUNCTION
		14		COLOR WHEEL FINE ADJUSTMENT [16 BIT]
		14	0-255	FINE Adjustment of Color Wheel to Any Position
				ROTATING GOBOS, CONTINUOUS ROTATION [GOBO WHEEL 1]
			0-10	BEAM MODE OPEN
			11-21	SPOT MODE OPEN
			22-31	Rotating Gobo 1
			32-41	Rotating Gobo 2
			42-51	Rotating Gobo 3
			52-61	Rotating Gobo 4
			62-71	Rotating Gobo 5
			72-81	Rotating Gobo 6
		15	82-91	Rotating Gobo 7
8	10		92-101	Rotating Gobo 8
0	10		102-112	Gobo 1 Shake SLOW to FAST
			113-123	Gobo 2 Shake SLOW to FAST
			124-134	Gobo 3 Shake SLOW to FAST
			135-145	Gobo 4 Shake SLOW to FAST
			146-156	Gobo 5 Shake SLOW to FAST
			157-167	Gobo 6 Shake SLOW to FAST
			168-178	Gobo 7 Shake SLOW to FAST
			179-189	Gobo 8 Shake SLOW to FAST
			190-221	*Clockwise Gobo Wheel Rotation from FAST to SLOW
			222-223	NO Rotation
			224-255	*Counterclockwise Gobo Wheel Rotation from SLOW to FAST
				ROTATING GOBOS, INDEX ROTATION [GOBO WHEEL 1]
			0-127	Gobo Indexing
9	11	16	128-189	*Clockwise Gobo Rotation from FAST TO SLOW
			190-193	NO Rotation
			194-255	*Counterclockwise Gobo Rotation from SLOW to FAST
		17		ROTATING GOBOS, FINE INDEX ROTATION [GOBO WHEEL 1] [16 BIT]
		17	0-255	Gobo Rotation FINE Indexing

МО	DE / CHA	NNEL		FUNCTION
BASIC	STAND	EXTEND	VALUE	FUNCTION
				STATIC / FIXED GOBOS [GOBO WHEEL 2]
			0-7	OPEN
			8-14	Static / Fixed Gobo 1
			15-21	Static / Fixed Gobo 2
			22-28	Static / Fixed Gobo 3
			29-35	Static / Fixed Gobo 4
			36-42	Static / Fixed Gobo 5
			43-49	Static / Fixed Gobo 6
			50-56	Static / Fixed Gobo 7
			57-63	Static / Fixed Gobo 8
			64-70	Static / Fixed Gobo 9
			71-77	Static / Fixed Gobo 10
			78-84	Static / Fixed Gobo 11
			85-91	Static / Fixed Gobo 12
			92-98	Static / Fixed Gobo 13
			99-105	Static / Fixed Gobo 14
10	12	18	106-111	Shake SLOW to FAST Static / Fixed Gobo 1
			112-117	Shake SLOW to FAST Static / Fixed Gobo 2
			118-123	Shake SLOW to FAST Static / Fixed Gobo 3
			124-129	Shake SLOW to FAST Static / Fixed Gobo 4
			130-135	Shake SLOW to FAST Static / Fixed Gobo 5
			136-141	Shake SLOW to FAST Static / Fixed Gobo 6
			142-147	Shake SLOW to FAST Static / Fixed Gobo 7
			148-153	Shake SLOW to FAST Static / Fixed Gobo 8
			154-159	Shake SLOW to FAST Static / Fixed Gobo 9
			160-165	Shake SLOW to FAST Static / Fixed Gobo 10
			166-171	Shake SLOW to FAST Static / Fixed Gobo 11
			172-177	Shake SLOW to FAST Static / Fixed Gobo 12
			178-183	Shake SLOW to FAST Static / Fixed Gobo 13
			184-189	Shake SLOW to FAST Static / Fixed Gobo 14
			190-221	*Clockwise Gobo Wheel Rotation from FAST to SLOW
			222-223	NO ROTATION
			224-255	*Counterclockwise Gobo Wheel Rotation from SLOW to FAST
		10		STATIC / FIXED GOBOS, FINE INDEX ROTATION [GOBO WHEEL 2] [16 BIT]
		18	0-255	Gobo Rotation FINE Indexing
		19	0-255	

Features subject to change without any prior written notice.
*Rotation direction (Clockwise or Counterclockwise) of effects depends on orientation of the fixture head and Pan/Tilt settings.

МС	DE / CHA	NNEL	VALUE	FUNCTION
BASIC	STAND	EXTEND		FUNCTION
				ROTATING PRISM, PRISM / GOBO MACROS
			0-31	OPEN
			32-63	8-FACET PRISM
			64-95	LINE PRISM
			96-127	8-FACET + LINE PRISMS
			128-135	Prism / Gobo Macro 1
	13		136-143	Prism / Gobo Macro 2
		20	144-151	Prism / Gobo Macro 3
			152-159	Prism / Gobo Macro 4
			160-167	Prism / Gobo Macro 5
11			168-175	Prism / Gobo Macro 6
			176-183	Prism / Gobo Macro 7
			184-191	Prism / Gobo Macro 8
			192-199	Prism / Gobo Macro 9
			200-207	Prism / Gobo Macro 10
			208-215	Prism / Gobo Macro 11
			216-223	Prism / Gobo Macro 12
			224-231	Prism / Gobo Macro 13
			232-239	Prism / Gobo Macro 14
			240-247	Prism / Gobo Macro 15
			248-255	Prism / Gobo Macro 16

DMX CHANGE WITH SOFTWARE UPDATE VERSION ≥1.5.0

See highlighted items below which have been updated with this software update.

Supports Software Versions: ≥ 1.5.0

Features subject to change without any prior written notice.

*Rotation direction (Clockwise or Counterclockwise) of effects depends on orientation of the fixture head and Pan/Tilt settings.

				ROTATING PRISM, PRISM / GOBO MACROS
			0-31	OPEN
			32-64	8-FACET PRISM
			65-94	LINE PRISM
			95-127	8-FACET + LINE PRISMS
			128-135	Prism / Gobo Macro 1
			136-143	Prism / Gobo Macro 2
			144-151	Prism / Gobo Macro 3
			152-159	Prism / Gobo Macro 4
			160-167	Prism / Gobo Macro 5
11	13	20	168-175	Prism / Gobo Macro 6
			176-183	Prism / Gobo Macro 7
			184-191	Prism / Gobo Macro 8
			192-199	Prism / Gobo Macro 9
			200-207	Prism / Gobo Macro 10
			208-215	Prism / Gobo Macro 11
			216-223	Prism / Gobo Macro 12
			224-231	Prism / Gobo Macro 13
			232-239	Prism / Gobo Macro 14
			240-247	Prism / Gobo Macro 15
			248-255	Prism / Gobo Macro 16
			•	

			(Clockwise or Co	unterclockwise) of effects depends on orientation of the fixture head and Pan/Tilt settings.
	DE / CHA		VALUE	FUNCTION
BASIC	STAND	EXTEND		
				ROTATING PRISM, PRISM INDEX ROTATION
			0-127	Prism Indexing
12	14	21	128-189	*Clockwise Prism Rotation from FAST to SLOW
			190-193	NO Rotation
			194-255	*Counterclockwise Prism Rotation from SLOW to FAST
		22		ROTATING PRISM, PRISM FINE INDEX ROTATION [16 BIT]
			0-255	Gobo Rotation FINE Indexing
13	15	23		FOCUS
			0-255	Continuous Adjustment from NEAR to FAR
		24		FOCUS FINE [16 BIT]
			0-255	Continuous FINE Adjustment
14	16	25		ZOOM
			0-255	Continuous Adjustment from NEAR to FAR
		26		ZOOM FINE [16 BIT]
		20	0-255	Continuous FINE Adjustment
				AUTO FOCUS
15	17	27	0-50	Auto Focus OFF
10	.,	21	51-150	49 feet 15m
			151-255	65 feet 20m
16	18	28		AUTO FOCUS FINE [16 BIT]
10	10	20	0-255	Auto Focus Continuous FINE Adjustment
				SHUTTER, STROBE
			0-31	Shutter CLOSED
		29	32-63	NO Function (Shutter OPEN)
			64-95	Strobe Effect SLOW to FAST
17	19		96-127	NO function (Shutter OPEN)
			128-159	Pulse Effect In Sequences
			160-191	NO Function (Shutter OPEN)
			192-223	Random Strobe Effect SLOW to FAST
			224-255	NO Function (Shutter OPEN)
18	20	30		DIMMER INTENSITY
10	20		0-255	Intensity 0 to 100%
		31		DIMMER INTENSITY FINE [16 BIT]
			0-255	Intensity 0 to 100%
				FROST
19	21	32	0-127	Disable FROST
			128-255	Enable FROST
				ANIMATION WHEEL
			0-7	CLOSE
20	22	33	8-127	*Clockwise Rotation FAST to SLOW
			128-135	NO ROTATION
			136-255	*Counterclockwise from SLOW to FAST
21	23	34		CMY SPEED
۷.	20	04	0-255	Speed MAX to MIN

MODE / CHANNEL			FUNCTION	
BASIC	STAND	EXTEND	VALUE	FUNCTION
				CMY MACROS
			0-31	OFF
			32-39	Macro 01
			40-47	Macro 02
			48-55	Macro 03
			56-63	Macro 04
			64-71	Macro 05
			72-79	Macro 06
			80-87	Macro 07
			88-95	Macro 08
			96-103	Macro 09
			104-111	Macro 10
			112-119	Macro 11
			120-127	Macro 12
22	24	35	128-135	Macro 13
22			136-143	Macro 14
			144-151	Macro 15
			152-159	Macro 16
			160-167	Macro 17
			168-175	Macro 18
			176-183	Macro 19
			184-191	Macro 20
			192-199	Macro 21
			200-207	Macro 22
			208-215	Macro 23
			216-223	Macro 24
			224-231	Macro 25
			232-239	Macro 26
			240-247	Macro 27
			248-255	Random CMY
				PAN / TILT MOVEMENT SPEED
			0-225	MAX to MIN Speed
23	25	36	226-235	Blackout by Movement
		_	236-245	Blackout by ALL Wheel Movement
	1		246-255	NO FUNCTION

AND	EXTEND	VALUE	FUNCTION
			LAMP ON/OFF, RESET, INTERNAL PROGRAMS
		0-19	COLOR Change Normal
		20-29	COLOR Change to Any Position
		30-39	COLOR and FIXED GOBO Change to Any Position
		40-59	LAMP ON
		60-79	LAMP SWITCH OFF
		80-84	ALL Motors Reset
	37	85-87	SCAN Motor Reset
		88-90	COLOR Motors Reset
06		91-93	GOBO Motors Reset
20		94-96	SHUTTER and DIMMER Motor Reset
		97-99	OTHER Motors Reset
		100-119	Internal Program 1
		120-139	Internal Program 2
		140-159	Internal Program 3
		160-179	Internal Program 4
		180-199	Internal Program 5
		200-219	Internal Program 6
		220-239	Internal Program 7
		240-255	NO FUNCTION
2	26	26 37	30-39 40-59 60-79 80-84 85-87 88-90 91-93 94-96 97-99 100-119 120-139 140-159 160-179 180-199 200-219 220-239

DMX CHANGE WITH SOFTWARE UPDATE VERSION ≥1.6.2

See highlighted items below which have been updated with this software update

Supports Software Versions: ≥ 1.6.2

МО	DE / CHA		VALUE	
BASIC	STAND	EXTEND		FUNCTION
	DE / CHA	NNEL	•	FUNCTION LAMP ON/OFF, RESET, INTERNAL PROGRAMS COLOR Change Normal COLOR Change to Any Position COLOR and FIXED GOBO Change to Any Position LAMP ON LAMP SWITCH OFF ALL Motors Reset SCAN Motor Reset COLOR Motors Reset GOBO Motors Reset SHUTTER and DIMMER Motor Reset OTHER Motors Reset Internal Program 1 Internal Program 2 Internal Program 3 Internal Program 4 Internal Program 4 Internal Program 5
24	26	37	120-139 140-159 160-179	Internal Program 2 Internal Program 3 Internal Program 4

ERROR CODES

When power is applied, the unit will automatically enter a "Reset/Test" mode. This mode brings all the internal motors to a home position. If there is an internal problem with one or more of the motors, an error code will flash in the display in the form of "XXer", were XX represents a function number. For example, when the display shows "0Er", it means there is some type of error with the Pan motor. If there are multiple errors during the start-up process, they will all flash in the display. For example: if the fixtures has errors on Channel 1, 2, and 5 all at the same time, you will see the error message "01Er", "02Er", and "05Er" flash 5 times.

If an error does occur during the initial start-up procedure, the fixture will self-generate a second reset signal and try to realign all the motors and correct the errors. If the error persists after a second attempt, a third attempt will be made. If after a third attempt all the errors have not been corrected, the fixture will make the following determinations:

- 3 or More Errors The fixture cannot function properly with three or more errors;
 therefore, the fixture will place itself in a stand-by mode until subsequent repairs can be made.
- Less Than 3 Errors The fixture has less than 3 errors; therefore, most other functions
 will work properly. The fixture will attempt to operate normally until the errors can be
 corrected by a technician. The errors in question will remain flashing in the display as a
 reminder of internal errors.



BALLAST ERROR NOTE

IF A BALLAST ERROR MESSAGES APPEARS, TURN THE LAMP OFF FOR 3-5 MINUTES TO RESET THE BALLAST. IF AFTER 5 MINUTES A BALLAST ERROR MESSAGE STILL APPEARS, POWER THE FIXTURE OFF TO RESET BALLAST. IF A BALLAST MESSAGE STILL APPEARS, PLEASE CONSULT ELATION CUSTOMER SUPPORT.

	ERROR CODES
	codes are subject to change without any prior written notice.
ERROR CODE	DESCRIPTION
PAN Er	The PAN movement is not located in the default position after the reset. This message will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a motor failure (defective motor, or a defective motor IC drive on the main PCB). This error may also be displayed if the head/yoke was blocked during a reset function.
TILT Er	The TILT movement is not located in the default position after the reset. This message will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a motor failure (defective motor, or defective motor IC drive on main PCB). This error may also be displayed if the head was blocked during a reset function.
Cyan Wheel Er	The Cyan Color Wheel is not located in the default position after the reset. This message will appear after the reset of the fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).
Magenta Wheel Er	The Magenta Color Wheel is not located in the default position after the reset. This message will appear after the reset of the fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).
Yellow Wheel Er	The Yellow Color Wheel is not located in the default position after the reset. This message will appear after the reset of the fixture reset if the magnetic- indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).
Color Wheel Er	The Color Wheel is not located in the default position after the reset. This message will appear after the reset of the fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).
CTO Wheel Er	The CTO Color Wheel movement is not located in the default position after the reset. This message will appear after a fixture reset if the gobo wheel's magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).
Rotating Gobo Wheel Er	The Rotating Gobo Wheel movement is not located in the default position after the reset. This message will appear after a fixture reset if the gobo wheel's magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).

	ERROR CODES
Specifications	and features are subject to change without any prior written notice.
ERROR CODE	DESCRIPTION
Rotating Gobo Rotation Er	The Rotating Gobo rotation movement is not located in the default position after the reset. This message will appear after a fixture reset if the gobo wheel's magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).
Fixed Gobo Wheel Er	The Fixed Gobo Wheel movement is not located in the default position after the reset. This message will appear after a fixture reset if the gobo wheel's magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).
Prism Wheel 1 Er	The Prism Wheel 1 movement is not located in the default position after the reset. This message will appear after a fixture reset if the gobo wheel's magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).
Prism Rotation Wheel 1 Er	The Prism Wheel 1 rotation movement is not located in the default position after the reset. This message will appear after a fixture reset if the gobo wheel's magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).
Prism Wheel 2 Er	The Prism Wheel 2 movement is not located in the default position after the reset. This message will appear after a fixture reset if the gobo wheel's magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).
Prism Rotation Wheel 2 Er	The Prism Wheel 2 rotation movement is not located in the default position after the reset. This message will appear after a fixture reset if the gobo wheel's magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).
Focus Er	The Focus movement is not located in the default position after the reset. This message will appear after the reset of the fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).
Zoom Er	The Zoom movement is not located in the default position after the reset. This message will appear after a fixture reset if the gobo wheel's magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).

ERROR CODES					
	Codes are subject to change without any prior written notice.				
ERROR CODE	DESCRIPTION				
Animation Wheel Er	The Animation Wheel movement is not located in the default position after the reset. This message will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a motor failure (defective motor, or a defective motor IC drive on the main PCB). This error may also be displayed if the head/yoke was blocked during a reset function.				
Dimmer Er	The Dimmer movement is not located in the default position after the reset. This message will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a motor failure (defective motor, or defective motor IC drive on main PCB). This error may also be displayed if the head was blocked during a reset function.				
Frost Wheel Er	The Frost Wheel is not located in the default position after the reset. This message will appear after the reset of the fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).				
Fan Moving Wheel Er	The Fan Moving Wheel is not located in the default position after the reset. This message will appear after the reset of the fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).				
Array Lens Wheel Er	The Array Lens Wheel is not located in the default position after the reset. This message will appear after the reset of the fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a stepper motor failure (defective motor, or defective motor IC drive on main PCB).				
1U_FanJB1Fault	Error information from JB1 port on 1U01 PCB.				
1U_FanJB2Fault	Error information from JB2 port on 1U01 PCB.				
3U_FanJB1Fault	Error information from JB1 port on 3U PCB.				
3U_FanJB2Fault	Error information from JB2 port on 3U PCB.				
4U_FanJB2Fault	Error information from JB2 port on 4U PCB.				
5U_FanJB1Fault	Error information from JB1 port on 5U PCB.				
6U_FanJB1Fault	Error information from JB1 port on 6U PCB.				
7U_FanJB1Fault	Error information from JB1 port on 7U PCB.				
7U_FanJB2Fault	Error information from JB2 port on 7U PCB.				
7U_FanJB3Fault	Error information from JB3 port on 7U PCB.				

ERROR CODES					
Error C ERROR CODE	odes are subject to change without any prior written notice. DESCRIPTION				
Accelerometer Err	Accelerometer calibration failure.				
Accelerometer ID Error	Accelerometer fail to read ID information.				
Ballast Fault_1	Lamp over voltage. (See BALLAST ERROR NOTE page 36)				
Ballast Fault_2	Input voltage too high. (See BALLAST ERROR NOTE page 36)				
Ballast Fault_3	Temperature too high. (See BALLAST ERROR NOTE page 36)				
Ballast Fault_4	Asymmetry detected. (See BALLAST ERROR NOTE page 36)				
Ballast Fault_5	Lamp under voltage. (See BALLAST ERROR NOTE page 36)				
Ballast Fault_6	Input voltage too low. (See BALLAST ERROR NOTE page 36)				
Ballast Fault_8	NTC defective. (See BALLAST ERROR NOTE page 36)				
Ballast Fault_Other	These fault modes are related to driver internal software and hardware malfunction.				
BallastWasOver Hot	Record and feedback that fixture once appeared lamp off issue because of ballast temp too high.				
Ballast_Uart_Fail					
ShiftFanFault					
Pan Reset Fail					
Tilt Reset Fail					
REPLACE THE LAMP					
Excess Humidity	Humidity >85%				
Humidity Warning	Humidity=70%				
2U01 Com Fail	IC Chip failure.				
3U01 Com Fail	IC Chip failure.				
4U01 Com Fail	IC Chip failure.				
5U01 Com Fail	IC Chip failure.				
6U01 Com Fail	IC Chip failure.				
7U01 Com Fail	IC Chip failure.				
8U01 Com Fail	IC Chip failure.				
9U01 Com Fail	IC Chip failure.				

MAINTENANCE



CAUTION

Disconnect power before cleaning or maintenance.

CLEANING

Frequent cleaning is recommended to insure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics.

Clean the external lens surface at least every 20 days with a soft cloth to avoid dirt/debris accumulation. **NEVER** use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

Regular inspections are recommended to insure proper function and extended life.

There are no user serviceable parts inside this fixture; please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation dealer.

Please refer to the following points during routine inspections:

A detailed electric check by an approved electrical engineer every three months to make sure the circuit contacts are in good condition and prevent overheating.

Be sure all screws and fasteners are securely tightened at all times. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.

Check for any deformations on the housing, color lenses, rigging hardware, and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).

Electric power supply cables must not show any damage, material fatigue, or sediments. Never remove the ground prong from the power cable.

SPECIFICATIONS

SOURCE

Philips MSD Platinum 21R 470W 80CRI 8,000K Lamp

1,500 Hour Average Lamp Life*

*May vary depending on several factors including but not limited to:

Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.

EFFECTS

8-Facet and Line Rotating Prisms and Prism Macros CMY Color Macros Frost Filter Hybrid Wash Effect Bi-Directional Full Rotation Animation Wheel Effect Motorized Zoom, Focus and Auto-Focus High Speed Mechanical Shutter and Strobe Full Range Dimming 0-100%

COLOR

14 Dichroic Colors including CTB, CTO, and UV Full CMY Color Mixing

GOBOS

(8) Interchangeable Rotating / Indexing Glass Gobos (14) Static-Stamped Metal Gobos

CONTROL / CONNECTIONS

(3) DMX Channel Modes (37 total channels)
6 Button Touch Control Panel
Full Color 180° Reversible LCD Menu Display
8 / 16 Bit Resolution Adjustable Movement
DMX, RDM, Art-NET and sACN Protocol Support
Elation E-FLY™ Internal Wireless DMX Transceiver
IP65 5pin DMX In/Out
IP65 RJ45 Ethernet In/Out

SIZE / WEIGHT

Length: 18.4" (465mm) Width: 22.5" (571mm)

Vertical Height: 37.1" (805mm) Weight: 84.0 lbs. (38.0 kg)

IP65 powerCON TRUE1Power In

ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz 750W Max Power Consumption -4°F to 113°F (-20°C to 45°C)

APPROVALS / RATINGS



FCC STATEMENT

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

FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

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

Reorient or relocate the device.

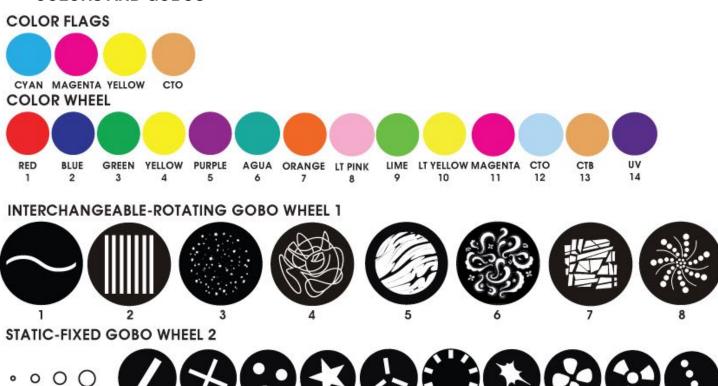
Increase the separation between the device and the receiver.

Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.

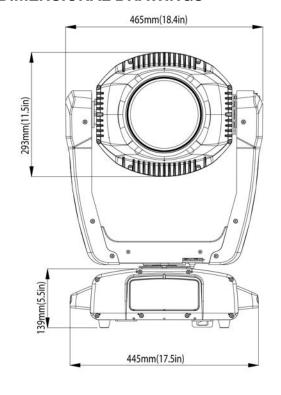
Consult the dealer or an experienced radio/TV technician for help.

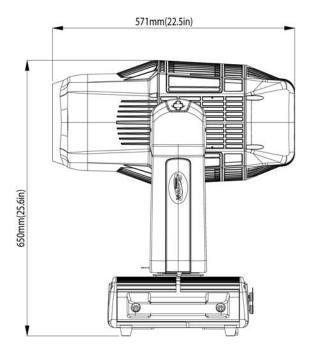
COLORS AND GOBOS

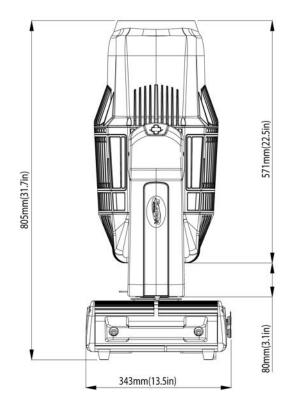
1 2 3

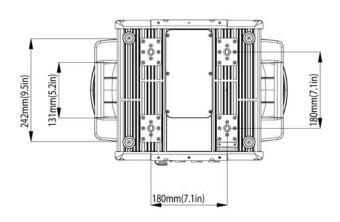


DIMENSIONAL DRAWINGS









OPTIONAL ACCESSORIES

ORDER CODE	ITEM
TRIGGER CLAMP	Heavy Duty Wrap Around Hook Style Clamp
SCABLE60	Safety Cable 24" (610mm) 60 lbs. (27kg) Rating
ELF001	E-FLY™ Wireless DMX Transceiver
DRCPROHYBRID1	Single Road Case for PROTEUS HYBRID
DRCPROHYBX2W	Dual Road Case for PROTEUS HYBRID
IP TESTER	IP Fixture Vacuum and Pressure Leak Tester