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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 scan the QR Code with your mobile device or visit www.elationlighting.com for the latest revision/update of this manual, before installation and/or programming.

Date	Document Version	Software Version	DMX Channels	Notes
09/22/2023	1.0	1.3.0	32 / 43	Initial release

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# INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information. This device is intended for use by trained personnel only, and is not suitable for private use.

#### UNPACKING

Every device 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 is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event that damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

#### **IP66 RATED**

An IP rated lighting fixture is commonly installed in outdoor environments and has been designed with an enclosure that effectively protects against the ingress (entry) of external foreign objects such as dust and water. The International Protection (IP) rating system is commonly expressed as "IP" followed by two numbers (i.e. IP66) where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture, while the second digit (Water Protection) indicates the extent of protection against water entering the fixture. **An IP66 rated lighting fixture, such as this one, has been designed and tested to protect against the ingress of dust (6) and powerful water jets from any direction (6).** 

#### **BOX CONTENTS**

Omega Brackets (x2) IP66 Rated 5-pin DMX Cable (x1) IP66 Rated RJ45 Data Cable (x1) - **FIXTURE TO FIXTURE INTERCONNECTION USE ONLY!** IP66 Locking Power Cable (x1)

#### **CUSTOMER SUPPORT**

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

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**REPLACEMENT PARTS** - please visit parts.elationlighting.com

# IP66 RATING

**The International Protection (IP)** rating system is denoted as "**IP**" (Ingress Protection) followed by two numbers (e.g., IP66), signifying the level of protection. The initial digit (Protection from Foreign Bodies) indicates the degree of safeguarding against solid particles entering the fixture, while the second digit (Protection from Water) specifies defense against water ingress. An **IP66** rated lighting fixture is meticulously designed and rigorously tested to shield against dust infiltration (**6**) and powerful water jets from any direction (**6**).

#### Maritime/Coastal Environment Installations:

Coastal environments are located near the sea and pose a corrosive risk to electronics due to exposure to atomized saltwater and high humidity. Maritime settings encompass areas within a 5-mile radius of coastal environments.

Maritime installations necessitate additional precautions and may require more frequent servicing due to their challenging environmental conditions. It's essential to understand that IP ratings are initially based on freshwater conditions, while maritime environments are generally more "corrosive" to IP fixtures, both internally and externally. Periodic operation may be necessary during periods of high humidity and low temperatures to expel accumulated moisture through the vent valve. Recommendations may vary based on specific installation circumstances.

# NOTE: Not all features mentioned apply to all fixtures; these instructions may not be relevant to your specific model. For more information, please contact our support team.

**Exterior Maintenance:** Inspect the exterior every 30 days. Ensure the unit is powered off/ disconnected. Examine the chassis for contaminants and clean optics and chassis as necessary. Schedule maintenance based on findings, considering the exterior's exposure to the elements. Maintenance is crucial even when luminaires are not in use due to their exterior placement. Applying durable wax to the chassis is recommended to prevent contaminant buildup. Regularly inspect power and data lines for contaminants or corrosion, periodically reapplying dielectric grease, particularly in coastal settings. Clean thoroughly and/or replace connectors if corrosion/ contaminants are present. Annual replacement of vent valves is preventive to ensure proper humidity venting. Also, inspect mounting hardware as a precaution.

**Interior Maintenance:** Inspect the interior every 30 days with the unit powered off/ disconnected.

- Examine zoom/focus mechanisms, clean optics, and lubricate linear bearings (Krytox oil) as needed.
- Inspect belts for wear.
- Manually rotate all rotating effect wheels and note any resistance.
- Check remaining rotating belts for wear.
- Inspect and clean fans as required, checking rotation and connections
- Examine the CMY module, manually moving flags and checking for resistance
- Clean guide rods if needed and apply a thin layer of grease (moly lube).
- Clean the interior with low-volume compressed air and clean optics before reassembling head covers.

The pan belt should be inspected for wear, although the base has limited moving parts. Always conduct an IP test when removing any cover.

There is no specific timeframe for routine replacement of parts like belts, stepper motors, PCBs, or LEDs. Replace these items as needed, except for cooling fans, which should be replaced after 10,000 hours of operation as a preventive measure to ensure proper functioning of internal components. A comprehensive service breakdown is available; contact service@elationlighting. com for parts or manuals.

# 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 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

This fixture is a sophisticated piece of electronic equipment. 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 (omega brackets) 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 MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURE'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.

 $\underline{\mathbb{N}}$ 

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.



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!

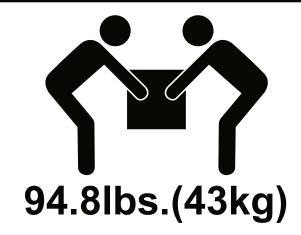


NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE! RETINA INJURY RISK - MAY INDUCE BLINDNESS! SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!



MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 65.62 FEET (20 METERS) MAXIMUM TEMP OF EXTERNAL SURFACE 212° F (100°C) MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE 1.65 FEET (0.5 METER)

# SAFETY GUIDELINES



# WARNING

# TWO PERSON LIFT REQUIRED

HIGH INTENSITY ULTRAVIOLET LIGHT

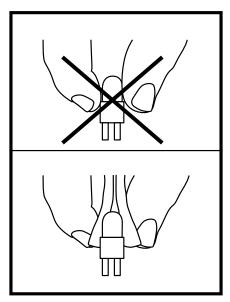
ACAUTION

AVOID DIRECT EYE & SKIN EXPOSURE. WEAR PROPER EYE & SKIN PROTECTION. SEE MANUAL FOR SAFETY INSTRUCTIONS. 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 10 feet (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 DISORDERS, 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 15 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 is 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.
- All fan and air inlets must remain clean and never blocked.
- Allow approx.6"(15cm) between fixture and other devices or a wall for proper cooling.
- 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 the 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

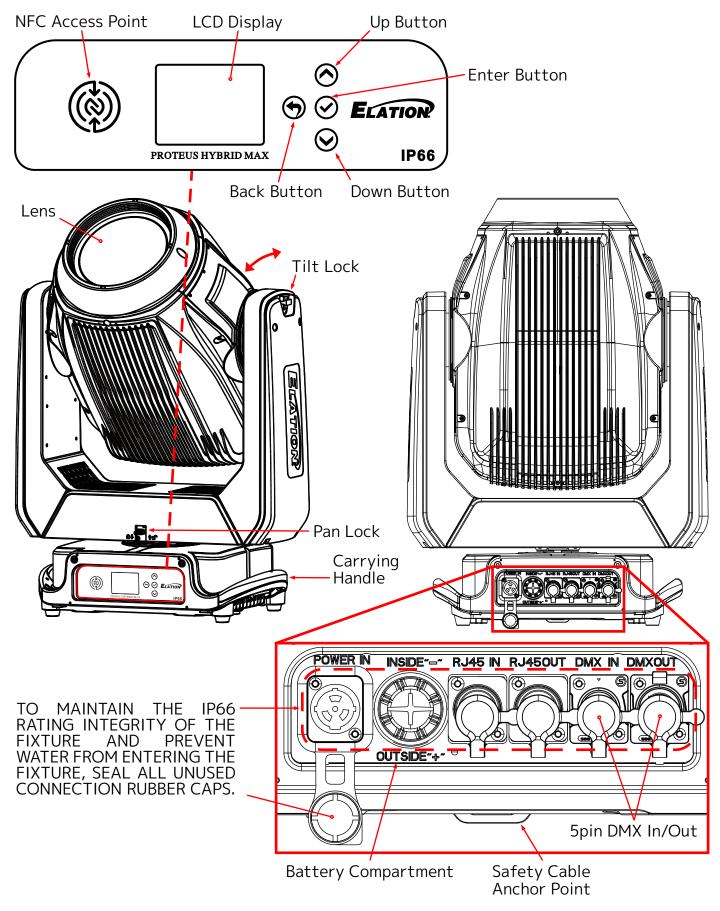
This fixture emits intense UV radiation, which is harmful to the eyes and skin. The intense luminance of the lamp can cause severe damage to the retina. NEVER operate this fixture with ANY of the protective covers removed. These covers have been specially designed to shield against UV radiation.



#### LAMP REPLACEMENT

Please note that the lamp must be replaced between 1500-4000 hours based on usage as indicated on display. Use only genuine Philips<sup>™</sup> Platinum Flex Lamps. Other lamp brands may cause damage and void the warranty.

# OVERVIEW



#### LAMP REPLACEMENT LAMP LIFE OF PHILIPS PLATINUM 500L FLEX = UP TO 4,000 HOURS

Lamp hours are calculated in real time by a smart algorithm combining periods of full output and periods of hibernation with the shutter closed. To reach 4,000 hours the fixture must be operated in average entertainment usage patterns that contain cycles of closed shutters to enter hibernation mode. On average this will allow to the fixture to reach 4,000 hours under common entertainment operation cycles as defined by Philips as 30% operation, 70% hibernation. In the rare case that the fixture would be turned on, shutter opened and never closed again the lamp life is 1,500 hours. Lamp life idle, total time and an estimated total lamp life % are provided in the display of the fixture.

#### LAMP PROTECTION CIRCUITRY

The fixture LCD Menu Control Display will indicate the lamp life and related lamp warnings with each power ON, each lamp strike, and when specific lamp hours are reached. The table below provides details on each lamp life warning. Due to the extreme heat associated with the lamp and the nature of the internal optical system, it is IMPERATIVE the lamp is replaced when the LCD Menu Control Display indicates replacement is needed. This is done to protect the internal optical system as well as prevent accidental lamp explosion, which could lead to hot glass particles falling from the fixture.

#### Total Lamp Hours = X – 20%

LCD display will slowly blink with a YELLOW outline and the following warning for 10 mins: "LAMP LIFE left "X" hours. Please change lamp soon"

Sending a DMX value of 250-251 in Channel 24 (Standard Mode) or Channel 34 (Extended Mode) from the lighting controller or pressing the OK button on the fixture control panel will clear this warning.

#### Total Lamp Hours = X up to X + 20%

LCD display will slowly blink with a RED outline and the following warning for 10 mins:

"LAMP LIFE exceeded by "X" hours. Please change lamp immediately" Sending a DMX value of 250-251 in Channel 24 (Standard Mode) or Channel 34 (Extended Mode) from the lighting controller or pressing the OK button on the fixture control panel will clear this warning.

#### Total Lamp Hours = X + 20% and higher

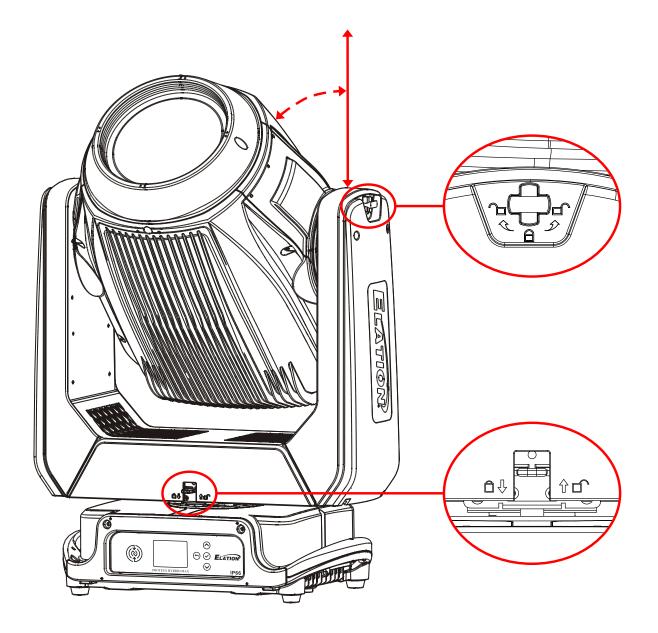
LCD display will slowly blink RED Outline and the following warning: "Lamp Life "X" hours. Danger of lamp explosion and permanent fixture damage. Replace lamp immediately! User assumes all risks"

This error can ONLY be cleared when the lamp hours are reset.

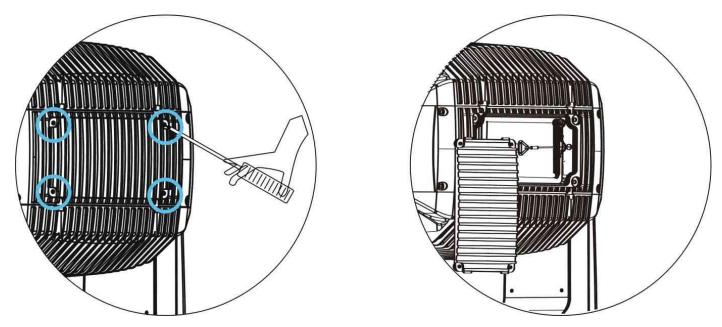


# WARNING! LAMP REPLACEMENT SHOULD ONLY BE DONE BE A TRAINED TECHNICIAN.

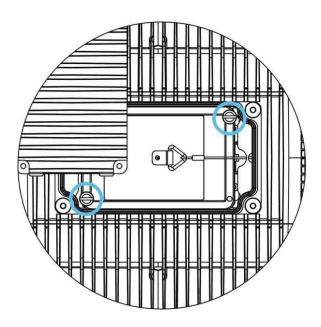
- 1. Turn **OFF** power and allow approximately 60-minutes for the fixture to cool down.
- 2. Place the moving-head in a right-angle horizontal position, and engage both the **PAN** and **TILT** locks for added stability while replacing the lamp.

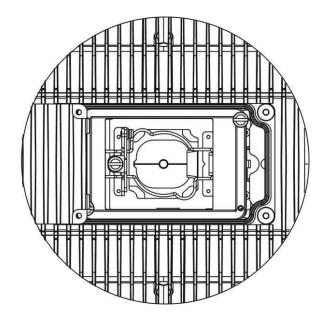


3. Remove (4x) screws that secure the bottom panel.

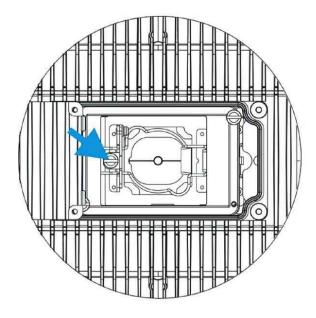


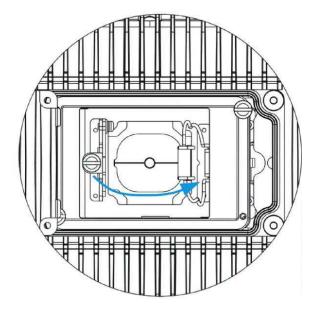
4. Loosen the two slotted thumb screws, and unclip the bottom panel safety cable, and remove the lamp socket cover, exposing the lamp socket.





- 5. Loosen the two slotted thumb screws, unclip the bottom panel safety cable, and remove the lamp socket cover.
- 6. Gently remove the (2x) spade terminals connected to the lamp.
- 7. Loosen the lamp retaining arm screw and pull arm out.
- 8. Unclip the lamp retaining-clip and swing it out.





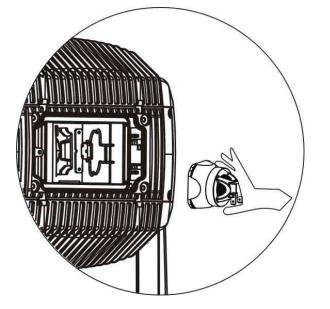
9. Carefully remove the lamp.



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 panel.

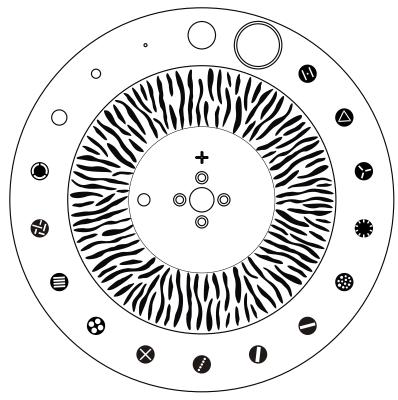




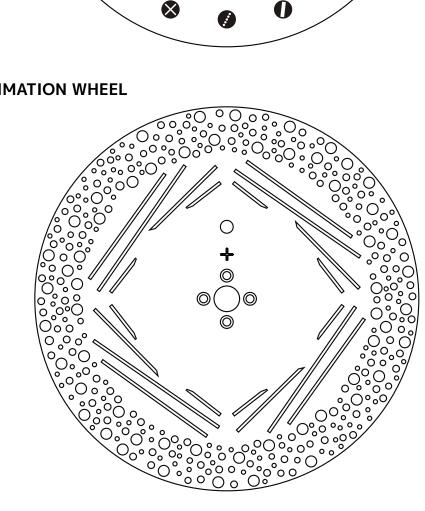
		GOB	OS				
Cyan	Magenta	Yellow	C.T.O.				
COLOR WH	EEL						
Pos. 1 Pink	Pos. 2 Green	Pos. 3 Yellow	Pos. 4 Purple	Pos. 5 Cyan	Pos. 6 Orange	Pos. 7 Magenta	Pos. 8 Light Green
		$\bigcirc$		$\bigcirc$			
Pos. 9 Pink	Pos. 10 UV	Pos. 11 CTB	Pos. 12 CTO	Pos. 13 HMG6	Pos. 14 Dark Amber	Pos. 15 Deep Red	Pos. 16 Blue
ROTATING							
					Ø		
Pos. 1	Pos. 2	Pos. 3	Pos. 4	Pos. 5	Pos. 6	Pos. 7	Pos. 8
FIXED GOB	O WHEEL GO	OBOS					
	0	$\bigcirc$	$\bigcirc$				
Pos. 1	Pos. 2	Pos. 3	Pos. 4	Pos. 5	Pos. 6		
	$\boldsymbol{\Theta}$	5					
Pos. 7	Pos. 8	Pos. 9	Pos. 10	Pos. 11	Pos. 12		
Pos. 13	Pos. 14	Pos. 15	Pos. 16	Pos. 17			

### COLORS AND GOBOS

#### FIXED GOBO + ANIMATION WHEEL



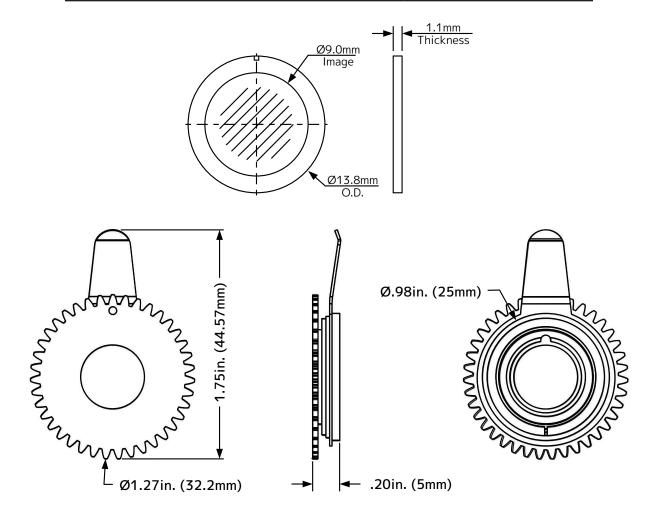
**DUAL TRACK ANIMATION WHEEL** 



### COLORS AND GOBOS

#### CUSTOM GOBOS

ROTATING WHEEL GOBOS					
Gobo O.D. (Max. Outer Diameter)	Ø13.8mm				
Gobo I.D. (Max. Image Diameter)	Ø9.0mm				
Gobo Holder Diameter	Ø14.0mm				
Gobo Thickness	1.1mm±0.1mm				
Gobo Material	BOROFLOAT GLASS				



#### Please be aware of the intended position and correct sizing requirements of custom gobos.

#### \* \* \* IMPORTANT NOTICE REGARDING CUSTOM GOBOS \* \* \*

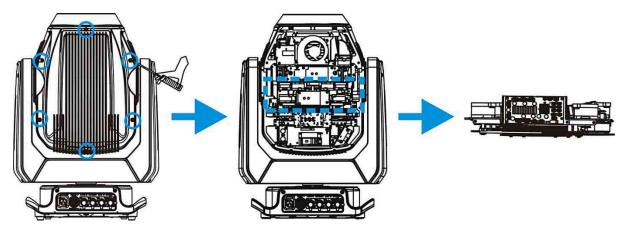
Due to the high temperature optical system, special glass material is required for custom gobos. Due to varying manufacturing processes and tolerances, it is highly recommended to provide a gobo sample and holder from the fixture to the custom gobo vendor for accurate sizing. Extended testing of custom gobo designs is highly recommended prior to use. Contact ELATION SERVICE for further information.

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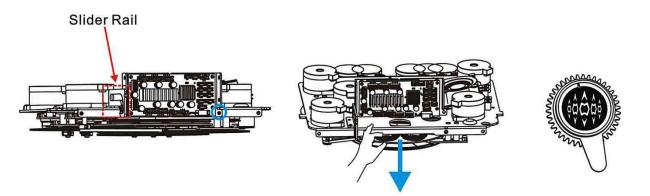
ELATION SERVICE EUROPE -Monday -Friday 08:30 to 17:00 CET +31 45 546 85 63 | Fax +31 45 54685 96 | support@elationlighting.eu

# COLORS AND GOBOS

**REPLACING A ROTATING GOBO** 

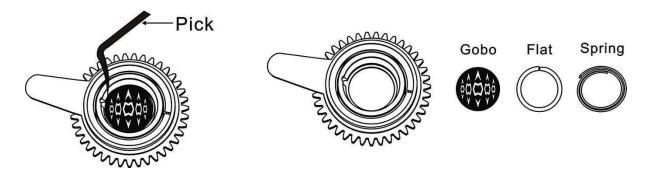


Place the fixture on a firm flat surface. Locate the (6x) screws on the side of the moving head and remove them. With the panel set aside, locate the Pattern Bracket Assembly and remove the (4x) screws that secure it to the internal housing frame.



Locate the (1x) screw on the side of the Pattern Bracket Assembly

Locate the specific Rotating Gobo to replace. Carefully grip the Gobo using your thumb and index finger, gently lift it slightly, and then pull it out and away until it fully clears the Gobo Wheel.



Locate the tab of the spring, and with a precision pick (or similar tool), carefully press the retaining spring inward to relieve the tension. Remove the retaining spring and carefully separate the GOBO from the GOBO Holder. Lastly, remove the flat washer attached to the removed GOBO and attach it to the desired replacement GOBO. Install the replacemet Rotating GOBO following the steps above in reverse order.

#### CAUTION: TAKE CARE NOT TO SCRATCH GOBO OR GOBO HOLDER

# TORQUE SETTINGS FOR SCREWS



PANEL SCREWS MUST BE TIGHTENED WITH A TORQUE WRENCH ACCORDING TO THE TORQUE SPECIFICATION DESCRIBED BELOW.

The hex-head screws holding the panels MUST be tightened with a torque wrench (Torque Wrench Not Included.

TORQUE SETTING = 11 lbf-in. (12.7kgf-cm)

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

CAUTION!



TORQUE SCREWS AS THIS CAN CAUSE LEAKAGE ISSUES! TO CONFIRM THE IP66 INTEGRITY AFTER A PROCEDURE REQUIRING DISASSEMBLY/REASSEMBLY, TEST THE FIXTURE USING THE IP TESTER. CONTACT ELATION SERVICE FOR MORE DETAILS.

DO

NOT

OVER





CAUTION! THE USE OF PROTECTIVE GLOVES AND SAFETY GOGGLES IS STRONGLY RECOMMENDED WHILE PERFORMING THE IP PRESSURE TEST! AVOID PLACING YOUR FACE, EYES, HANDS, ETC IN CLOSE PROXIMITY TO THE FIXTURE'S LENS WHILE PERFORMING THE TEST!

IP PRESSURE TESTING PARAMETERS							
Test Type Low Pressure Limit High Pressure Limit Hold Time							
Vacuum Test	-4.35psi (-30.00 KPa)	-5.08psi (-35.00 KPa)	10s				
Pressure Test							





#### FLAMMABLE MATERIAL WARNING

Keep fixture minimum 65.62 feet (20m) away from flammable materials and/or pyrotechnics.



#### **ELECTRICAL CONNECTIONS**

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



#### MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 65.62 FEET (20 METERS)



MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE 1.64 FEET (0.5 METERS)



#### 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 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 ambient operating temperature range is -14° to 113°F. (-10° to 45°C)

Do not use the fixture under or above this temperature.

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

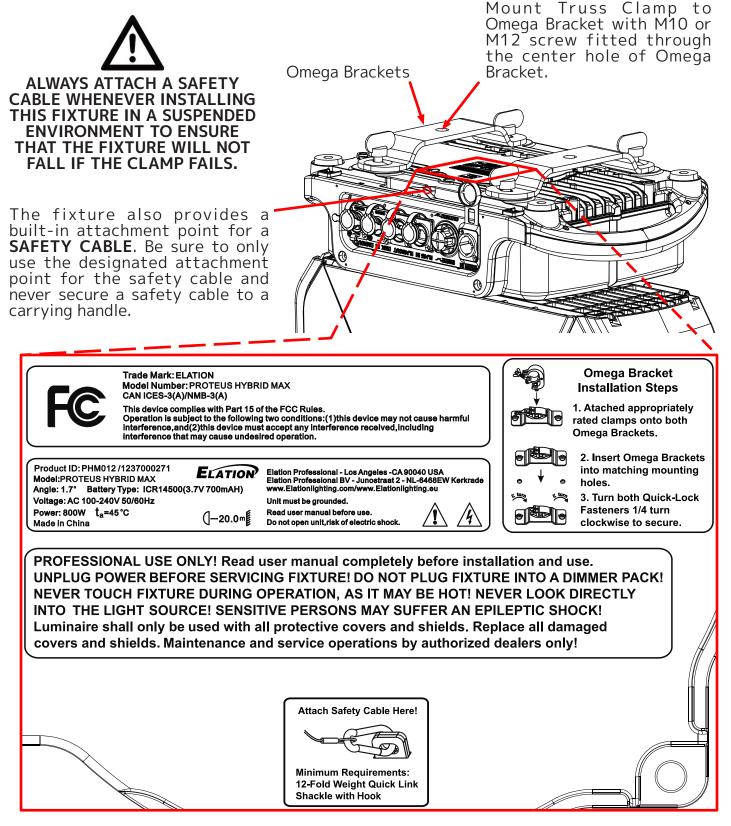
**NEVER** stand directly below the fixture when rigging, removing or servicing.

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

Allow approximately 10 minutes for the fixture to cool down before servicing.

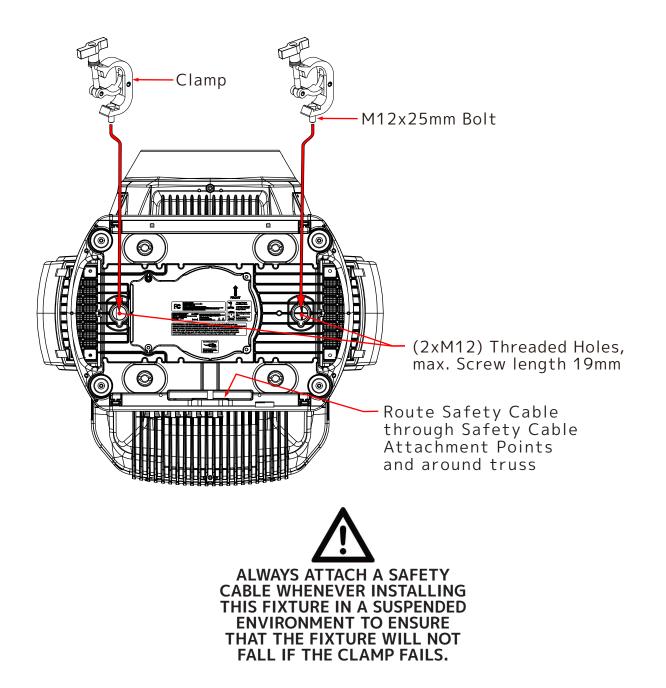
#### OMEGA BRACKET WITH CLAMP INSTALLATION

When mounting the fixture to a truss, be sure to secure appropriately rated professional grade rigging clamps to the included Omega Brackets using an M10 or M12 screw fitted through the center hole of the Omega Brackets. This fixture requires the installation of two Omega brackets and two clamps for secure truss mounting.



#### CLAMP INSTALLATION

Insert (2x) minimum grade 8.8 steel M12x25mm bolts (not included) through the respective mounting hole of the clamp (not included), and then thread it into the matching 12M holes on the bottom of the fixture base. Both bolts must be threaded at least 18mm (0.7ins) into the fixture base.

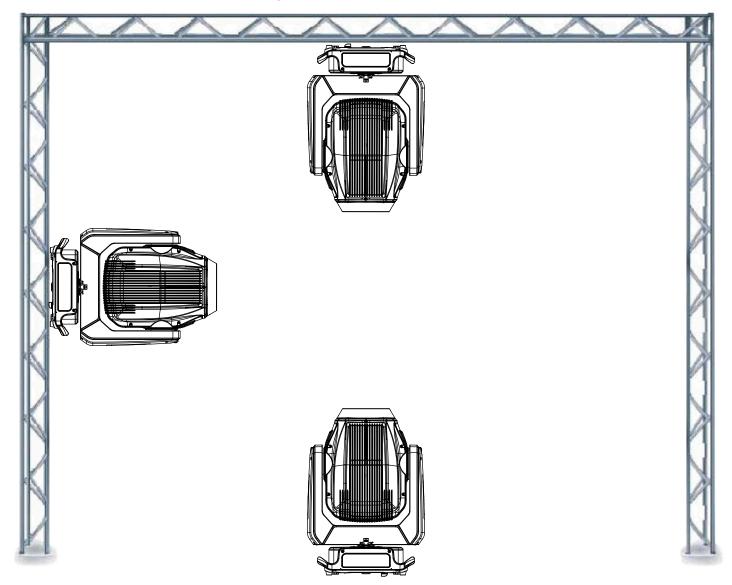


#### MOUNTING THE FIXTURE ON A TRUSS USING CLAMPS

When mounting the fixture to a truss, be sure to secure an appropriately rated professional grade rigging clamp to the bottom of the fixture using (2x) minimum grade 8.8 steel (2x) M12x25mm bolts fitted through the mounting hole of the Clamp. The fixture provides built-in rigging points for a SAFETY CABLE (not included). Be sure to only use one of the designated rigging points for the safety cable and never secure a safety cable to a carrying handle.

#### 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.





FALLING FIXTURES CAN CAUSE SEVERE INJURY OR SERIOUS EQUIPMENT DAMAGE! FOR THIS REASON, FIXTURES SHOULD BE INSTALLED AND INSPECTED ONLY BY QUALIFIED PERSONNEL. DO NOT INSTALL THE UNIT IF YOU LACK THE QUALIFICATIONS TO DO SO, OR IF YOU HAVE DOUBTS ABOUT THE SAFETY AND SECURITY OF THE INSTALLATION SETUP OR LOCATION!



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

#### ART-NET | SACN CONNECTION

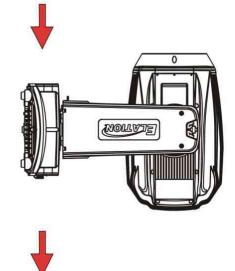
When connecting fixture to a network switch to control multiple devices, a Gigabit Ethernet Switch that supports IGMP (Internet Group Management Protocol) is required. Using a Gigabit Ethernet Switch that does not support IGMP can cause erratic behavior of all connected devices to the switch. Click link below for more information about IGMP. https://en.wikipedia.org/wiki/Internet Group Management Protocol

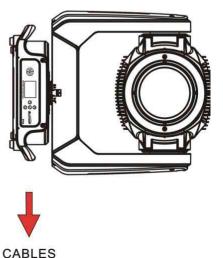
#### POWER AND DATA CABLES



TO MAINTAIN THE IP66 RATING INTEGRITY OF THE FIXTURE, ALL CABLES MUST BE RUN TOWARDS THE GROUND TO PREVENT WATER ACCUMULATION AROUND THE CONNECTIONS.

SYSTEM MENU LCD DISPLAY



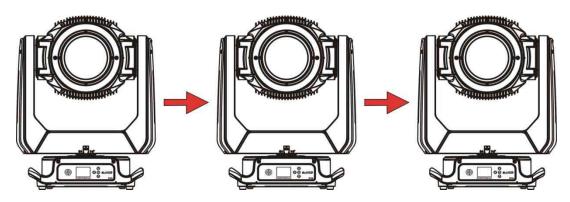


CABLES

**RJ45 DATA CABLES** 



THE INCLUDED RJ45 DATA CABLE IS FOR FIXTURE TO FIXTURE INTERCONNECTIONS ONLY! THE RJ45 CABLE CONNECTORS MAY NOT BE COMPATIBLE WITH OTHER RJ45 OR ETHERNET TYPE CONNECTORS.

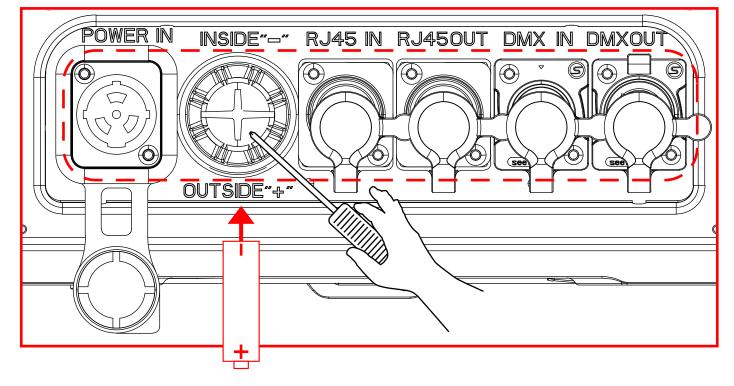


#### POWER AND DATA CABLES



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

TO MAINTAIN THE IP66 RATING INTEGRITY OF THE FIXTURE AND PREVENT WATER FROM ENTERING THE FIXTURE, SEAL ALL UNUSED CONNECTION RUBBER CAPS.



#### BATTERY REPLACEMENT



Installing the battery incorrectly, in the wrong orientation, where the Plus (+) is inside and Negative (-) is outside, will lead to internal electronics and battery damage. A qualified electrician should be used for all electrical connections and/or installations.

- 1. Loosen the screw cap for the battery compartment.
- 2. Remove old battery and replace (inside "-", and outside "+").

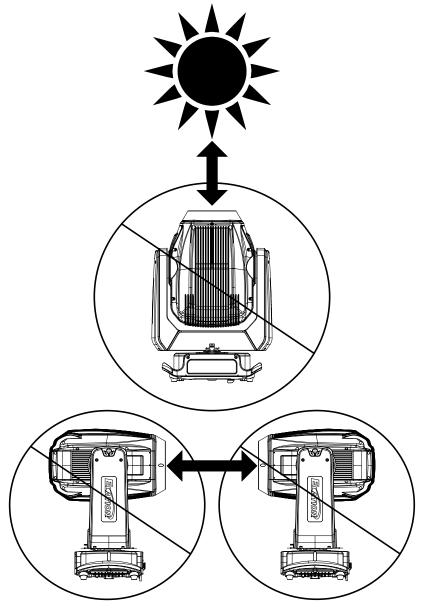
NOTE: Replace the battery only with an Li-ion battery (IRC14500/700mAh), which can be ordered from the Elation Parts Website <u>https://parts.elationlighting.com</u>. Replace and tighten screw cap for the battery compartment.

#### POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, lighting and 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 of 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 only to Elation lighting fixtures, but rather 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 reduce the risk of potential damage. Contact Elation Service for more details.

DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING OR MOVING HEAD FIXTURES, AND LASERS DURING UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.



# SUN PROTECTION MODE

The fixture incorporates an automatic protection from harmful sunlight, which can damage a fixture's internal components from extended exposure. Fixtures use an internal sensor to determine their physical orientation, then reorient the fixture towards the ground to prevent sunlight from entering the lens.

This automatic feature only works when the fixture is powered. If the fixture is unpowered during setup, it is necessary to manually reorient the lenses away from the sun, and aim them towards the ground. Even a few minutes of sun exposure can cause damage inside the fixture.

The Sun Protection setting is accessed via the "No DMX Status" menu.

The automatic sun protection positioning is activated under the following conditions:

- 1. Power on without DMX signal: the fixture always starts in sun protection mode.
- 2. No DMX Status "Sun Protection": the fixture enters sun protection mode after approximately 3 minutes.
- 3. Remote DMX control: the sun protection position can be **temporarily** activated from the lighting console without the need to create a custom position preset. The fixture senses the correct ground orientation. This means that fixtures already facing the ground may not move their heads.

Hold "Sun Protect Position" for 3s to set the fixture to the sun protection position.

Sun protection status displays as "Sun Protection: Active".

The sun protection position deactivates under the following conditions:

- 1. Connect DMX signal.
- 2. Remote DMX control: Hold "Sun Protection Off" for 3s.

To avoid harsh or jarring movements, the sun protection position always uses a 5-second fade time when it is activated or deactivated.

### HIBERNATION MODE

To reduce wear on the fixture and its components, this mode disables motors and most electronics. Set the hibernation mode countdown time in the Display Menu: "Status Settings / Personality / Hibernation". Hibernation can be fully disabled.

The hibernation mode activates under the following conditions:

- 1. Loss of DMX: the fixture enters hibernation after the timeout expires. Default is 15 minutes.
- 2. Remote DMX control: Hold "Hibernate Fixture" for 3s

The hibernation mode deactivates under the following conditions:

- 1. Connect DMX Signal
- 2. Remote DMX control: Hold "Hibernate Off" for 3s

The fixture will perform a full calibration cycle, then assume the current DMX status.

Please note that the Hibernation does not change the PT position of the fixtures, allowing the user to set the desired position and then issue the Hibernate command.

To ensure the fixture is protected from harmful sunrays it is recommended to either leave the "No DMX Status" in "Sun Protection" (so the fixture is already in the correct position after 3 minutes of DMX loss) or set the fixture to a safe Tilt position manually first before hibernation.

Burn and heat damage to the fixture's interior components due to external light sources (sun or other fixtures shining into the lens) is never covered under the manufacturers warranty.

# SKY MOTION

#### INTRODUCTION

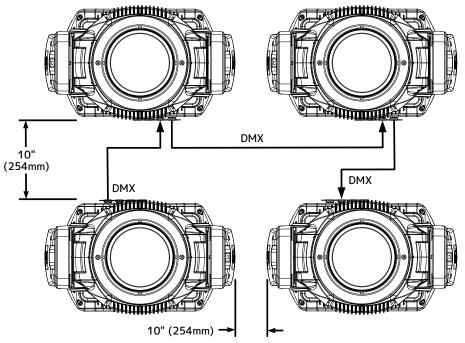
Sky Motion is an innovative feature of the Proteus Hybrid Max which allows a fixture or group of fixtures to operate as a search light effect without the need for a dedicated lighting controller. Multiple fixtures can be interconnected, and with the simple assignment of IDs the fixture provides immediate access to a variety of search light effects that are easily adjustable in size, speed, and color.

Comparable in output to large 2000W or 4000W Xenon fixtures, the Proteus Hybrid Max operates at a fraction of the power, supports a wide range of 100V-240V power sources, has a much smaller footprint, lower weight, and is fully IP66 rated.

#### SETUP

Sky Motion is designed to accommodate up to four unique fixture IDs. Fixtures with the same ID will always be at an identical position and have the exact shape, speed, and size. One fixture in the system must be set to the ID "MAIN", which provides all control signals and movement synchronization. Use ID "1" for other fixtures if needed.

For a traditional searchlight system, place four Proteus Hybrid Max fixtures closely together in a 2x2 grid. The fixtures require a minimum space of 10" (255mm) between the fixture bases to ensure that the heads do not come into contact while in motion. All cable connections should face inwards, and all displays should face outwards.

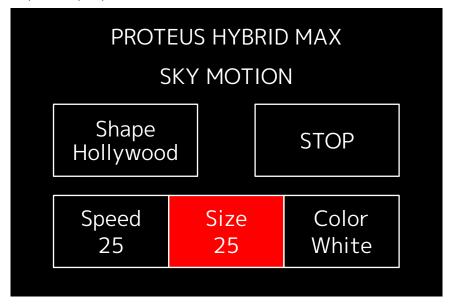


- 1. Connect fixtures to a suitable grounded power source.
- Link fixtures via IP66-rated 5-pin DMX cables. Connect "DMX Out" from MAIN fixture to "DMX In" of the next. Cable order doesn't affect operation. Do NOT connect the last fixture back to MAIN fixture. Maximum combined cable length: 330 ft (100m).
- 3. Power on fixtures, wait for calibration cycle.
- 4. Enter System Menu: Hold "ENTER" 10sec. In menu, navigate to "Sky Motion," press "Enter."
- 5. Enable Sky Motion: On screen, select "Mode," press "ENTER," set to "ON." Confirm by pressing "ENTER" again.
- 6. Set fixture ID: One fixture as "MAIN." For easy access, choose a nearby fixture; all adjustments are done on MAIN.
- 7. Set IDs for other fixtures clockwise: 2, 3, and 4. Consider labeling IDs for clarity. IDs also display on Proteus Hybrid Max. Repeat IDs 1-4 as needed.
- 8. After setting fixture ID, exit Menu using "BACK." Dedicated Sky Motion home screen appears. Fixtures move in sync.

# SKY MOTION

#### OPERATION

All settings are configured from the MAIN fixture. The display screens on the other fixtures show the ID and settings, but all control via the screens is disabled. The Sky Motion system is controlled by this simple display screen:



If the screen is locked, hold "ENTER" for 10 sec until the countdown is completed. Select one of the available shapes in the top left box. Use the arrow keys to navigate, noting that the current selection is indicated by the red highlighting, then press "ENTER" to select. Use the Up/Down arrows to browse the shapes and preview the results.

The most commonly used selection is "Hollywood", which emulates the traditional Xenon Searchlight movement found at movie premiers and special events.

The following unique shapes are available:

- Sky Tracer
- Sky Tracer Offset
- Hollywood
- Hollywood Offset
- Searchlight
- Searchlight Offset
- Diagonal
- Diagonal Offset
- Bounce

After the desired shape has been selected, the speed and size can be adjusted using the arrows and "ENTER" key. Observe the motion of the fixture to confirm that you are satisfied with the range and speed. Always press "ENTER" to confirm the changed value.

In addition to the Shape, Size, and Speed, it is also possible to select a color for the fixtures. 16 color choices are available, plus random color chases and color scrolls. Simply use the arrows to adjust, then confirm with "ENTER". Set the fixture back to White or any other color to stop the color changes.

# REMOTE DEVICE MANAGEMENT (RDM)

# NOTE: In order for RDM to work properly, RDM enabled equipment must be used throughout the entire system, including DMX data splitters and wireless systems.

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, allowing the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is not easily accessible.

With RDM, the DMX512 system becomes bi-directional, allowing a compatible RDM enabled controller to send out a signal to devices on the wire, as well as allowing the fixture to respond (known as a GET command). The controller can then use its SET command to modify settings that would typically have to be changed or viewed directly via the unit's display screen, including the DMX Address, DMX Channel Mode, and Temperature Sensors.

#### FIXTURE RDM INFORMATION:

RDM Code	Device ID	Device Model ID	Personality ID
0x22A6	OPEN	0x71F	Standard Mode (1) Extended Mode (2)

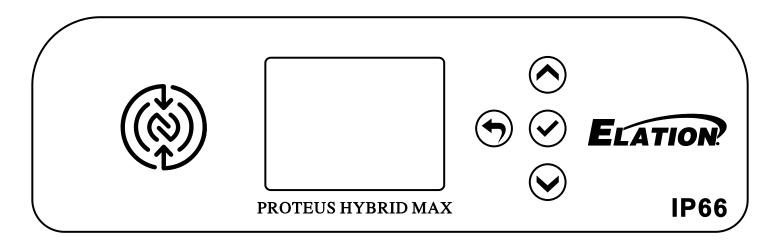
Please be aware that not all RDM devices support all RDM features, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

The following parameters are accessible in RDM on this device:

[0x0200] Sensor Definition
[0x0201] Sensor Value
[0x0080] Device Model Description
[0x0081]Manufacturer Label
[0x0082] Device Label
[0x00E0] DMX Personality
[0x00E1] DMX Personality Description
[0x0400] Device Hours
[0x0401] Lamp Hours
[0x0403] Lamp State
[0x0600] Pan Invert
[0x0601] Tilt Invert
[0x0500] Display Invert

The fixture includes an easy to navigate system menu. The control panel (see image below) is located on the front of the fixture and provides access to the main system menu where all necessary system adjustments can be made. During normal operation, pressing ENTER 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 and DOWN buttons. Once 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 BACK button.

To access the LCD Menu Control Display via the internal battery, press and hold the ENTER button for 10 seconds. The LCD Menu Control Display will shut OFF automatically about 1 minute from the last button press.



#### BATTERY

This unit features a dedicated battery that can be used to power the screen display. This allows the user to configure the device's channel mode, DMX address, or any other screen-accessible features without needing to power on the device or even connect it to a power source. To activate the display on battery power, press and hold the ENTER button for 3 seconds.

ALTHOUGH ARIA SETTINGS MAY APPEAR IN THE SYSTEM MENU, THIS FEATURE IS NOT ACTIVATED. ARIA WIRELESS DMX IS AN OPTIONAL FEATURE WHICH MUST BE ACTIVATED IN THE SERVICE MENU. PLEASE CONTACT ELATION SERVICE FOR FURTHER DETAILS.



AN ELATION E-LOADER III CAN BE USED TO UPDATE THE FIXTURE TO THE LATEST SOFTWARE. SEE PAGE 43 FOR INSTRUCTIONS. TO ORDER THIS DEVICE, PLEASE CONTACT ELATION SUPPORT FOR FURTHER DETAILS.

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST 323-582-3322 | Fax 323-832-9142 | support@elationlighting.com ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET +31 45 546 85 63 | Fax +31 45 546 85 96 | support@elationlighting.eu

MAIN MENU			efault Settings in <b>BOLD</b> )
	DMX Address	001 - 512	
	DMX Mode	Standard	
	Drink Hode	Extended	
		Hold Last	
	No DMX Status	Fade to Black	
	NO DIAN Status	Sun Protection	
		Hibernation	Off, 1-99M ( <b>Default = 15 Min</b> )
OMX Settings		Calact Cignal	DMX / Art-Net / sACN / Aria In-DMX O
2		Select Signal	/ DMX In - Aria Out
		Universe	1
	Protocol	DHCP	Off/On
		IP Address	2.x.x.x
		Subnet Mask	255.0.0.0
		Ethernet DMX Out	Off/On
	Aria	Aria Channel	0-14
		Off/On	
		Shape	Hollywood
	Mode	STOP	
Sky Motion		Speed	
		Size	
		Color	White
	Fixture ID	<b>Main</b> , 1,2,3,4	
	Display Lock	Off/ <b>On</b>	
		Dimmer 0% - <b>100%</b>	
	Manual Control	Pan	
		Tilt	
		All	
		Pan Tilt	
	Reset	Color	
Control	Reser	Gobo	
Control		Shutter	
		Others	
		All	
		Dimmer	
		Movement	
	Self Test	Color Mix	
		Gobo	
		Beam	
	Strike	Off/On	
_amp	Automatic	Off/ <b>On</b>	
· •	Power	<b>560</b> /430/370	
	Max Humidity	20-100 (70%)	
		Pan Invert	Off/On
		Tilt Invert	Off/On
		Pan Tilt Speed	Smooth/ <b>Fast</b>
	Movement	Pan Tilt Brake	Smooth/ <b>Fast</b>
		Pan Degree	360 / 360 Short / <b>540</b>
		Pan Path	Short/ <b>Continue</b>
		Pan Tilt Feedback	Off/ <b>On</b>
	Color	CMY Speed	Smooth/Fast
Settings		Linear	
		Square	
	Dimmer Curve		
		Square Inverse	
		S-Curve	
		Screen Delay	10s - 5min (Default = <b>1 min</b> )
	Display	Screen Lock	<b>Off</b> , 10s - 5 min
		Auto Rotate	Off/ <b>On</b>

MAIN MENU	OF	PTIONS / VALUES (Default Settings in BOLD)		
		Current Time		
		Total Run Time		
		Last Run Time		
	Time	Lamp Time		
		Lamp Active Time		
		Lamp Idle Time		
		Lamp Life xx%		
		Head		
	Temperature	Base		
Information		Lamp		
	Humidity	Head		
		Base		
	Fan	Fan 1U (Position)		
		Fan 1U (Position)		
		Pan		
	DMX Values	Tilt		
	Product IDs	RDM UID		
	Error Logs	Fixture Errors		
	Software Version	Vx.x		
	Maintenance Mode	Off/On		
	Vent Clean	Off/On		
		Dimmer		
Service	Calibration	Pan		
(Passcode = 050)		Tilt		
(				
	Reset Last Run	Yes / No		
	Reset Lamp Time	Yes / No		
	Reset Error Logs	Yes / No		
<b>Display Shortc</b>	uts			
Power Off				
ENTER (3s)		activate battery mode		
Dowor On				
Power On Enter (10s)		unlock display, show 10s countdown		
		disable Pan Tilt		
Up+Down (3s) Enter+ UP (3s)				
Enter + DP (35) Enter + Down (3s)		Lamp On		
		Lamp Douse countdown 10 sec		
Back + Enter (50s)	)	Reset to Default (no/yes)		
		Ineset to Default (IIO/yes)		

**NOTE**: The Service Password MUST be entered in order to access the following menus: **Clear Err. Info , and DFLT Pow. Lamp On**.

#### PERSONALITY - Display Setting - Key Lock

When ON, Control Panel buttons lock automatically after exiting main menu for 15 seconds. To unlock, keep **MODE/ESC** button pressed for 3 seconds.



#### ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION!

This function restores all fixture settings to the factory default settings.

#### **CONTROL** - Self Test

This function runs a continuous test loop on the selected feature or the entire fixture.

#### SELF TEST - Manual Control

Select and manually test and fine adjust each individual 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.

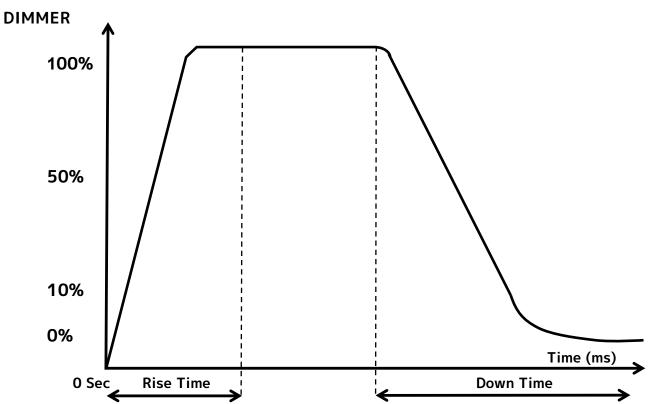
#### CALIBRATION



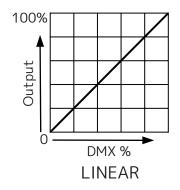
#### ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION.

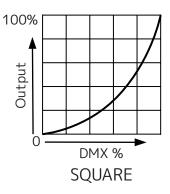
This function allows small adjustments to be made to the Pan, Tilt, and Zoom movements to compensate for wear or in the event a sensor has been knocked slightly out of place. Because improper use of this function can result in undesired operation this function has been password protected. The password 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.

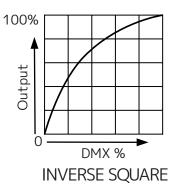
### DIMMER MODES AND DIMMER CURVES

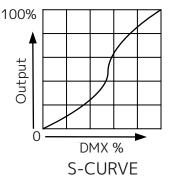


	0 sec Fa	de Time	1 sec Fa	de Time
Dimming Curve Ramp Effect	0 ———	255	0	255
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660









# DMX TRAITS

Standard	Extended	Value	Function	Snap	Default Value
1	1	0-255	Pan		127
Ι		0-255	Left → Right		127
2	2	0-255	Pan Fine		127
2	2	0-255	Fine Position		127
3	3	0-255	Tilt		127
5	5	0-233	Forward → Backward		127
4	4	0-255	Tilt Fine		127
4	+	0-233	Fine Position		
			Pan Rotate		
		0 – 2	Disabled		
5	5	3 – 126	Rotating Clockwise Fast → Slow	Snap	0
5	5	127 – 129	No rotation (Fixture stops at its current position)		U
		130 – 253	Rotating Counter-Clockwise Fast → Slow		
		254 - 255	No rotation (Fixture stops at its current position)	1	
6	6	0-255	Cyan		
0	0	0-255	0 → 100%	]	0
	7	0-255	Cyan Fine		0
	/	0-255	Fine Saturation	]	0
7	8	0-255	Magenta		0
/	o	0-255	0 → 100%		0
	9	0-255	Magenta Fine		0
	9	0-255	Fine Saturation	1	0
8	10	0.255	Yellow		
ð	10	0-255	0 → 100%	1	0
	4.4	0.255	Yellow Fine		
	11	0-255	Fine Saturation		0
0	10	0.255	СТО		
9	9 12 0-255		Cold → Warm	1	0
	47	0.255	CTO Fine		0
	13	13 0-255 Fine Saturation			

Standard	Extended	Value	Function	Snap	Defau Valu
			Color		Tarac
		0-15	Open		
		16-17	White/Red Split		
		18-19	Red		
		20-21	Red/Green Split		
		22-23	Green		
		24-25	Green/Yellow Split		
		26-27	Yellow		
		28-29	Yellow/PurpleSplit		
		<u>30-31</u> 32-33	Purple		
		34-35	Purple/Cyan Split Cyan		0
		36-37	Cyan/Orange Split		
		38-39	Orange		
		40-41	Orange/Magenta Split		
		42-43	Magenta		
		44-45	Magenta/Light Green Split		
		46-47	Light Green		
		48-49	Light Green/Pink Split		
		50-51	Pińk		
10	14	52-53	Pink/UV Split	X	
10		54-55	UV	— X	
		56-57	UV/CTB Split		
		58-59	СТВ		
		60-61	CTB/CTOSplit		
		62-63	СТО		
		64-65	CTO/HighCRI Split		
		66-67	HighCRI		
		68-69	HighCRI/Dark Amber Split		
		70-71	Dark Amber		
		72-73	Dark Amber/Deep Red Split		
		74-75	Deep Red		
		76-77	Deep Red/Blue Split		
		78-79	Blue		
		80-81	Blue/White Split		
		82-127	Open		
		120,100	Scroll		
		128-189	Clockwise Fast → Slow	_	
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		<u> </u>
	15	0-255	Color Fine	x	0
			Position		

Standard	Extended	Value	Function	Snap	Default Value
			Rotating Gobo		
		0-10	Beam Open		
		11-21	Spot 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		0
		82-91	Rotating Gobo 7		
		92-101	Rotating Gobo 8		
11	16	102-112	Gobo 1 Shake Slow → Fast		
		113-123	Gobo 2 Shake Slow → Fast		
		124-134	Gobo 3 Shake Slow → Fast		
		135-145	Gobo 4 Shake Slow → Fast		
		146-156	Gobo 5 Shake Slow → Fast		
		157-167	Gobo 6 Shake Slow → Fast		
		168-178	Gobo 7 Shake Slow → Fast		
		179-189	Gobo 8 Shake Slow → Fast		
			Scroll		
		190-221	Clockwise Fast → Slow		
		222-223	Stop		
		224-255	Counter-clockwise Slow → Fast		
			Rotating Gobo Index/ Rotation		
		0-127	Index Position		0
12	17		Rotate		
	17	128-189	Clockwise Fast → Slow		
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
13	18	0-255	Rotating Gobo Index/ Rotation Fine		0
		0-200	Index Position		

Standard	Extended	Value	Function	Snap	Defau Valu
			Fixed Gobo		
		0-13	Open		
		14-18	Gobo 1		
		19-23	Gobo 2		ĺ
		24-28	Gobo 3		
		29-33	Gobo 4		
		34-38	Gobo 5		
		39-43	Gobo 6		
		44-48	Gobo 7		
		49-53	Gobo 8		
		54-58	Gobo 9		
		59-63	Gobo 10		
		64-68	Gobo 11		
		69-73	Gobo 12		
		74-78	Gobo 13		
		79-83	Gobo 14		
		84-88	Gobo 15		
		89-93	Gobo 16		
	19	94-99	Gobo 1 shake slow to fast		0
14		100-105	Gobo 2 shake slow to fast	X	
		106-111	Gobo 3 shake slow to fast		
		112-117	Gobo 4 shake slow to fast		
		118-123	Gobo 5 shake slow to fast		
		124-129	Gobo 6 shake slow to fast		
		130-135	Gobo 7 shake slow to fast		
		136-141	Gobo 8 shake slow to fast		
		142-147	Gobo 9 shake slow to fast		
		148-153	Gobo 10 shake slow to fast		
		154-159	Gobo 11 shake slow to fast		
		160-165	Gobo 12 shake slow to fast		
		166-171	Gobo 13 shake slow to fast		
		172-177	Gobo 14 shake slow to fast		
		178-183	Gobo 15 shake slow to fast		
		184-189	Gobo 16 shake slow to fast		
			Scroll		
		190-221	Clockwise Fast → Slow		
		222-223	Stop		
		224-255	Counter-clockwise Slow → Fast		
	20		Fixed Gobo Fine	X	
	20	0-255	Position	X	0

Standard	Extended	Value	Function	Snap	Defau Value
			Animation Wheel		
15	21	0	Open		0
	21	1-127	Open → Dots		
		128-255	Dots→ Lines		ļ
			Animation Index		
		0-127	Position		
16	22		Scroll		64
10	22	128-189	Clockwise Fast → Slow		04
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
			Animation Wheel 2		
17	23	0-127	Open		0
		128-255	Waves		
			Animation Index		
		0-127	Position		0
18	24		Scroll		
10	24	128-189	Clockwise Fast → Slow		
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
19	25		Rotating Prism 1		0
		0-63	Open		
		64-95	8 Facet	Х	
		96-127	6 Facet Linear		
		128-255	Open		
			Rotating Prism 1 Index/Rotation		
		0-255	Index Position		
20	26		Rotate		
20	26	128-189	Clockwise Fast → Slow		0
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
	27	0-255	Rotating Prism 1 Index/Rotation Fine		
	27	0-255	Position		
			Rotating Prism 2		
		0-63	Open		0
21	28	64-95	16 Facet	Х	
		96-127	4 Facet Linear		
		128-255	Open		
			Rotating Prism 2 Index/Rotation		
		0-255	Index Position		
22	20		Rotate		
22	29	128-189	Clockwise Fast → Slow		0
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
	70	Ì	Rotating Prism 2 Index/Rotation Fine		0
	30	0-255	Position		0

Standard	Extended	Value	Function	Snap	Defau Value	
23	31	0.255	Focus		127	
23	51	0-255	Infinity → Near		127	
24	32	0-255	Focus Fine		127	
	52	0-255	Fine Adjustment			
25	33	0-255	Zoom	1	127	
25	55	0-255	Narrow → Wide			
26	34	0-255	Zoom Fine		127	
20	54	0-255	Fine Adjustment	]	127	
			Auto Focus			
		0-50	Auto Focus Off	]		
	35	51-100	5-15m	]	0	
		101-150	15-150m	1		
		151-255	Idle	1		
	36	0.255	AutoFocus Fine		0	
		0-255	Fine Adjustment			
	37		Shutter/Strobe	- X	50	
		0-31	Closed			
		32-63	Open			
		64-95	Strobe Slow → Fast			
27		96-127	Open			
		128-159	Pulse-effect			
		160-191	Open			
		192-223	Random strobe Slow → Fast			
		224-255	Open			
20	70		Dimmer	-		
28	38	0-255	Intensity 0 → 100%		0	
20	29 39	29 39	0.255	Dimmer Fine		
29			0-255	Fine Adjustment	1	0
			Iris			
70		0-191	Open → Close	1		
30	40	192-223	Pulse Closing fast → slow	1		
		224-255	Pulse Opening slow → fast	1		
		0.255	Frost			
31	41	0-255	Open → Max	1		
	ĺ		Pan / Tilt Speed		2	
	42	I –	0-225	Max → Min Speed	×	0
			226-235	Blackout by movement		
			236-245 Blackout by wheel changes			
		246-255	No function	1		

Standard	Extended	Value	Function	Snap	Default Value
			Control (hold 5s)		
		0-10	Idle	1	
		11-12	Pan Tilt Shortest Path	1	
		13-14	Pan Tilt Continue Path	1	
		15-16	Pan Range 540	]	
		17-18	Pan Range 360	]	
		19-20	Pan Range 360 Short		
		21-39	Idle	]	
			Lamp Control	]	
		40-49	On	]	
		50-59	Off	]	
		60-66	Power 370W		
		67-73	Power 430W	]	
		74-79	Power 560W	]	
			Reset	]	
		80-84	Fixture	]	
		85-87	Pan Tilt	]	
		88-90	Color	]	
		91-93	Gobo	]	
		94-96	Dimmer	]	
32	43	97-99	Other Features	) X	0
		100-164	Idle		
		165-166	CMY Smooth	]	
		167-168	CMY Fast	]	
		169-170	Vent Cleaning On	]	
		171-172	Vent Cleaning Off	]	
		173-174	Hibernation Off		
			Hibernation	]	
		177-178	Sun Protection On	]	
		179-180	Sun Protection Off	]	
		181-190	Pan Tilt Smooth		
		191-200	Pan Tilt Fast		
			Dimmer Curve	]	
		201-210	Linear		
		211-220	Square		
		221-230	Inverse Square		
		231-240	S-Curve		
		241-249	Idle		
		250-251	Display Off	]	
		252-253	Display On	]	
		254-255	Idle		

## 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 as XX will represent a function number. For example, when the display shows "**OEr**" 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 "**O1Er**", "**O2Er**", and "**O5Er**" flash repeated 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 correct by a technician. The errors in question will remain flashing in the display as a reminder of internal errors.

Note	Error Codes are subject to change without any prior written notice.
ERROR CODES	DESCRIPTION
Pan Er	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).
Tilt Er	This error may also be displayed if the head/yoke was blocked during a reset function.
Dimmer Er	
Focus Er	
Color Wheel Er	
Cyan Color Er	_
Magenta Color Er	-
Yellow Color Er	-
CTO Color Er	-
Gobo Wheel Er	-
Gobo_Rot Er	-
Fix gobo Wheel Er	Movement is not located in the default position after the reset. This
Prism Er	message will appear after a fixture reset if the magnetic-indexing circuit
Zoom Er	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).
Focus Er	Trailure (derective motor of a derective motor ic drive on the main PCD).
Iris Er	-
Animation Er	-
Animation Rot Er	-
Prism_Rot Er	•
Prism 2 Er	4
Prism_Rot 2 Er	4
Frost 1 Er	4
Flow Er	4
Array Lens Er	

E-LOADER III



ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION! NOTE ALL MENU SETTINGS BEFORE UPDATING SOFTWARE! FIXTURE SOFTWARE CAN NOT BE DOWNGRADED! DOWNLOAD FIXTURE SOFTWARE TO PC ONLY! (NO MAC SUPPORT) PLEASE CONTACT ELATION SERVICE FOR FURTHER INFORMATION.

An Elation E-Loader III can be used to update the fixture to the latest software. Please visit the E-Loader III product page at the Elation web site and download the product manual for step by step instructions.

#### https://www.elationlighting.com/e-loader-iii-software-uploader

To order the E-Loader III uploader and the updated software for your fixture, please contact Elation support for details.

### ETHERNET UPDATER

Software updates for this fixture can be performed using the Elation Ethernet Updater. Contact Elation Service to obtain this updater device:

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

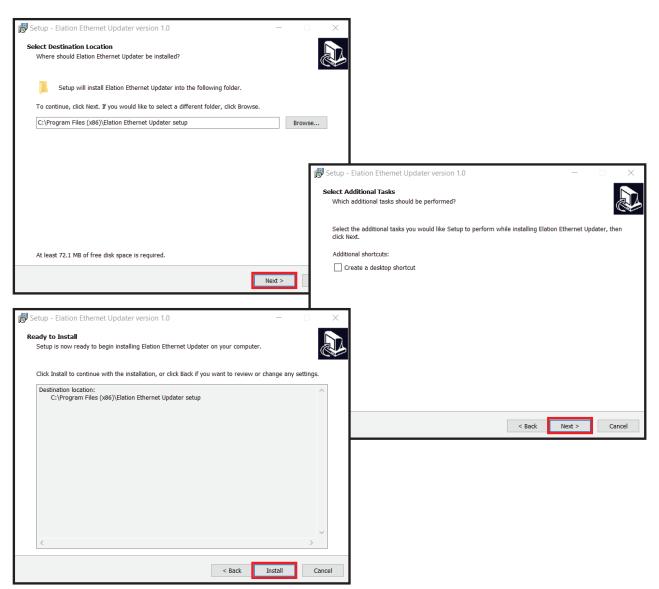
### ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET

+31 45 546 85 63 | Fax +31 45 546 85 96 | support@elationlighting.eu

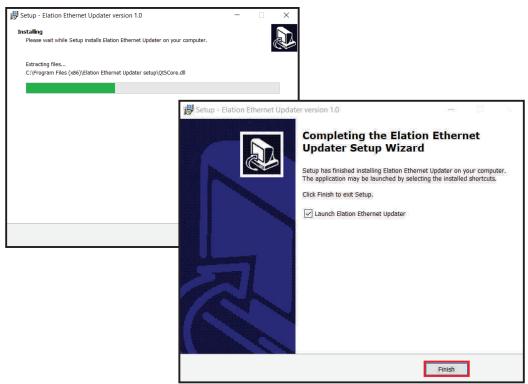
The Elation Ethernet Updater is an EXE file, which only works on a PC System. Once you've received the Elation Ethernet Updater RAR file from Elation Service via email, download and extract the EXE file. With the file extracted, click Elation Ethernet Updater setupV100.exe to launch the installation wizard.

📓 Elation Ethernet Updater setupV100H.rar 🛛 🔶 👘 Elation Ethernet Updater setupV100H.exe

Follow the prompts once the Elation Ethernet Updater EXE has launched the Setup Wizard.



### SOFTWARE UPDATES ETHERNET UPDATER

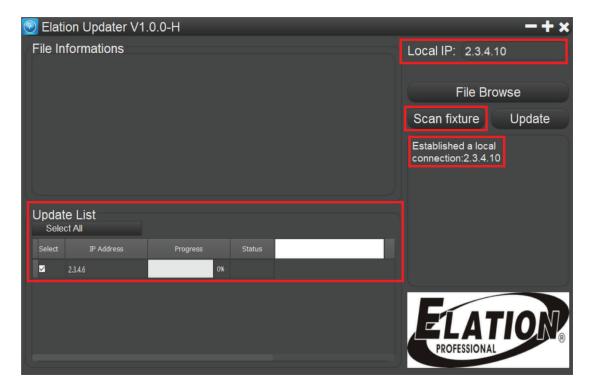


Once you have installed the Elation Ethernet Updater, it will launch automatically (unless you unchecked "Launch Elation Ethernet Updater"), or you can open it any time by clicking on the icon.

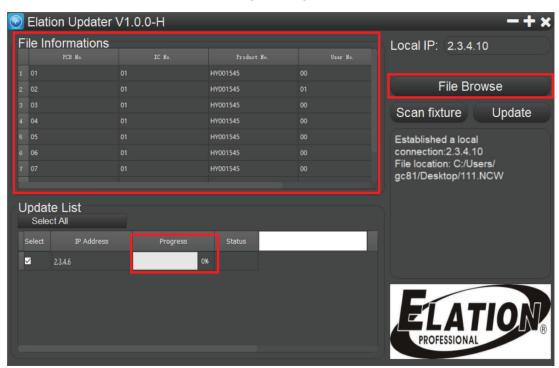


### ETHERNET UPDATER

Once opened, your local IP will automatically be identified. Click "Scan fixture" and create a connection. The fixture identity will appear in the Update List on the left side of browser. A connection will fail to establish if the fixture IP and Local IP are not in the same network segment.

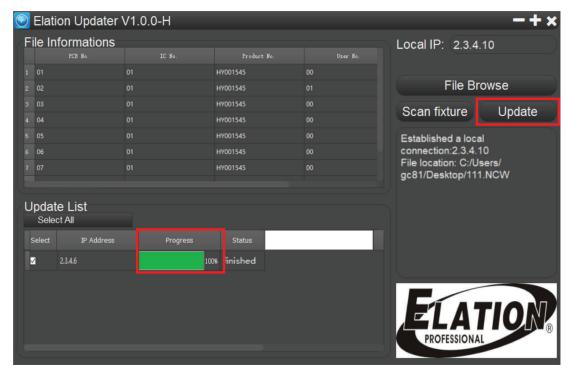


Click "File Browse" to select the files you want to download. The download Progress is displayed in the File information chart as a percentage bar graph.



### ETHERNET UPDATER

Click Update, then wait for the download Progress to reach 100% before closing Updater. The Elation Ethernet Updater can update up to 31 fixtures via connection to a PC.



# MAINTENANCE GUIDELINES



### DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

Frequent cleaning is recommended to ensure 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. Periodically clean the external lens surface with a soft cloth to

avoid dirt/debris accumulation. **NEVER** use alcohol, solvents, or ammonia-based cleaners.

### MAINTENANCE

Regular inspections are recommended to ensure 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. Loose 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.

### FIXTURE DISASSEMBLY

The following points should be observed after performing any maintenance procedure that requires disassembly of the unit:

- After the unit has been reassembled, open the valve and allow the unit to run for approximately 2 hours in order to dry out any moisture that has been trapped inside the fixture. The process should continue until indicated humidity drops below 15% for the head and 30% for the base.
- Once this has been achieved, the light can be switched off, but the unit should remain connected to power so that the cooling fan can cool down the unit. Please note that allowing cool down time should **ALWAYS** be done after lamp operation.
- Some units may require partial disassembly in order to gain access to the valve. Please contact Elation service for information regarding the location and access procedure for the valve on your specific unit model.

# SPECIFICATIONS

#### SOURCE

Philips MSD Platinum 500 Flex 550W Lamp Variable Lamp Power Automated Lamp Hibernation with Instant Recovery Up to 4,000 Hour Lamp Life\* \*Test lab conditions. May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling),Control, and Dimming.

#### PHOTOMETRIC DATA

22,000+ Lumen Total Fixture Output Zoom Range 1.8° - 45°

#### EFFECTS

Beam, Spot and Wash Modes Motorized Zoom Dual Frost Filter for Light Frost/ Full Wash 4 Prisms on Dual Planes Iris CMY Color, Gobo, Prism Macros Motorized Focus with Auto-Focus Feature High Speed Shutter and Strobe Pan Angle: 540°/630° Tilt Angle: 250°

#### COLOR

Full CMY Color Mixing System Variable CTO 16 Position Color Wheel

#### GOBOS

2 Gobo Wheels 8 Interchangeable-Rotating / Indexing Glass Gobos 16 Static-Stamped Metal Gobos plus Animation Track Dual Track Animation Wheel

#### **CONTROL / CONNECTIONS**

2 DMX Channel Modes (32, 43) 4 Button Touch Panel Full Color 180° Reversible LCD Menu Display DMX, RDM, Art-Net and sACN Protocol Support IP66 5pin DMX In/Out IP66 RJ45 Ethernet In/Out IP66 Locking Power Cable In/Out

#### SIZE / WEIGHT

Length: 18.2" (462mm) Width: 18.8" (477mm) Height: 26.65" (677mm) Weight: 76 lbs. (34.5 kg)

#### **ELECTRICAL / THERMAL**

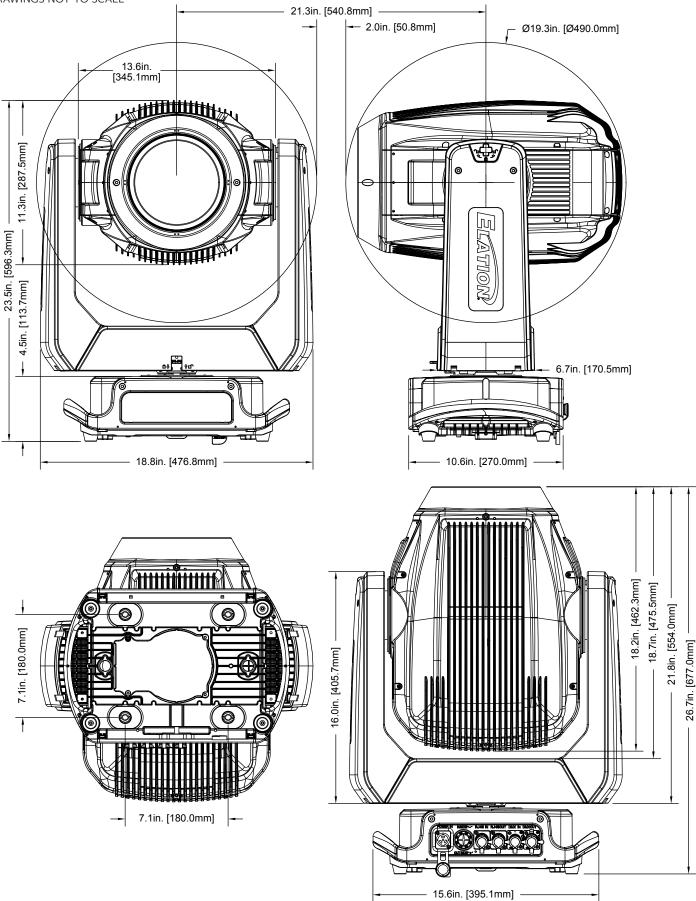
AC 100-240V 50/60Hz 800 W Max Power Consumption 14°F to 113°F (-10°C to 45°C)

#### **APPROVALS / RATINGS**

CE | cETLus | IP66

## DIMENSIONAL DRAWINGS

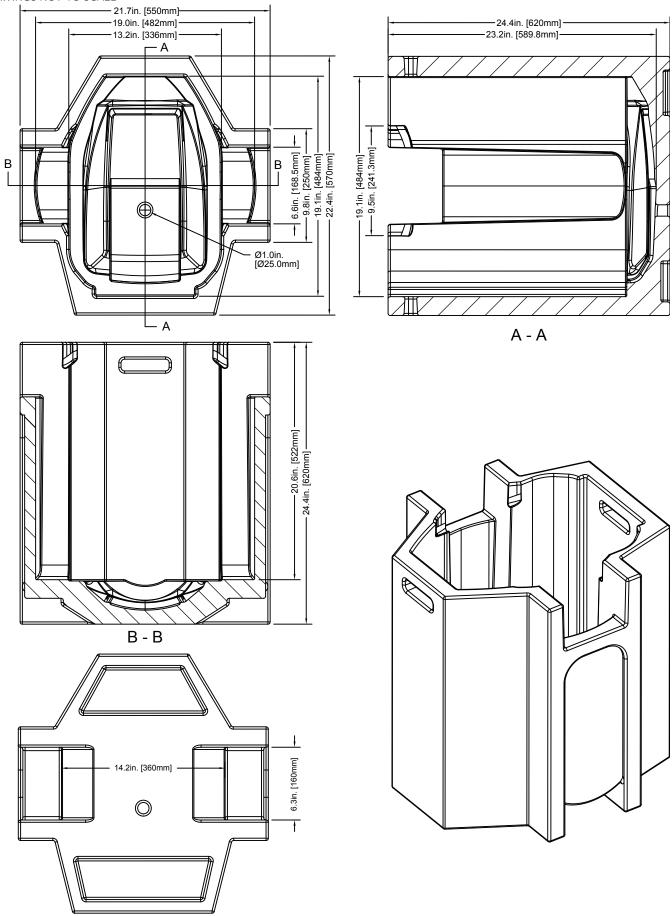
DRAWINGS NOT TO SCALE



Specifications and documentation subject to change without notice.

## DIMENSIONAL DRAWINGS

DRAWINGS NOT TO SCALE



Specifications and documentation subject to change without notice.

## OPTIONAL ACCESSORIES

ORDEF	R CODE	ITEM	
US	EU		
PHM012	1237000271	Proteus Hybrid Max	
PHM023	1237000282	Proteus Hybrid Max WMG	
TRIGGER CLAMP	N/A	Heavy Duty Wrap Around Hook Style Clamp	
SIP126	N/A	5 ft. (1.5m) IP66 Twist Lock Power Link Cable	
AC5PDMX5PRO	N/A	5 ft. (1.5m) 5pin PRO DMX Cable	
		Additional Cable Lengths Available	



#### 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 deter- mined 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.

#### Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!