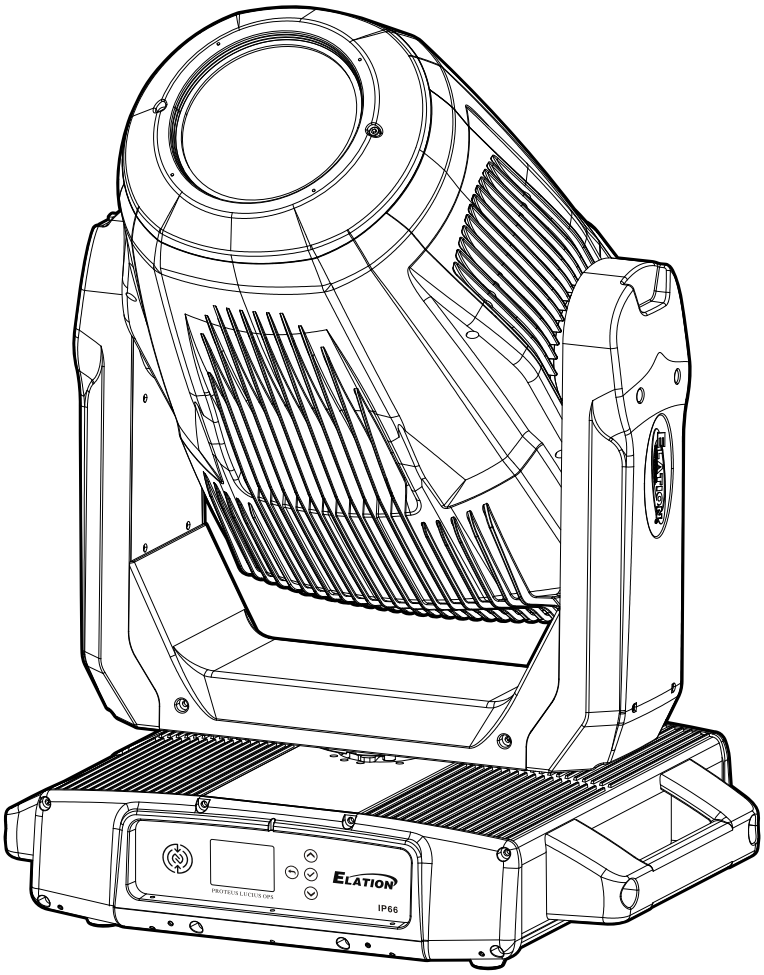
ELATION PROFESSIONAL



PROTEUS LUCIUS

OPS

user manual

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323-582-3322 | www.elationlighting.com | info@elationlighting.com

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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	SoftwareVersion ≥	DMX Channel Modes	Notes
05/29/2025	1.0	1.3.0	43 / 68	Initial Release
07/21/2025	1.1	V1.0.1	N/C	Updated Software, System Menu, DMX Traits
09/19/2025	1.2	N/C	N/C	Update information

CONTENTS

GENERAL INFORMATION

FOR PROFESSIONAL USE ONLY

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.

COOLING
After usage, the lamp may be switched off, but the fixture should remain connected to power in order to allow the fan time to cool down the fixture. OPS fixtures are not designed for 24/7 operation, and require periodic cooling intervals, especially in high temperature environments. Please refer to the **Duty Cycle and Thermal Management** section for detailed information.

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 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.

BOX CONTENTS
Omega Brackets (x2)
Stainless Steel Safety Cable

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 | support@elationlighting.com

ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
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REPLACEMENT PARTS please visit parts.elationlighting.com

LIMITED WARRANTY
For up-to-date warranty information regarding your device, please visit Elation's warranty information page online or scan the QR codes below.

USA: https://www.elationlighting.com/warranty-information

EU: https://www.elationlighting.eu/terms_and_conditions

SAFETY GUIDELINES

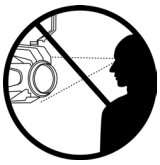
This fixture is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. Elation Professional is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of 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.

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.

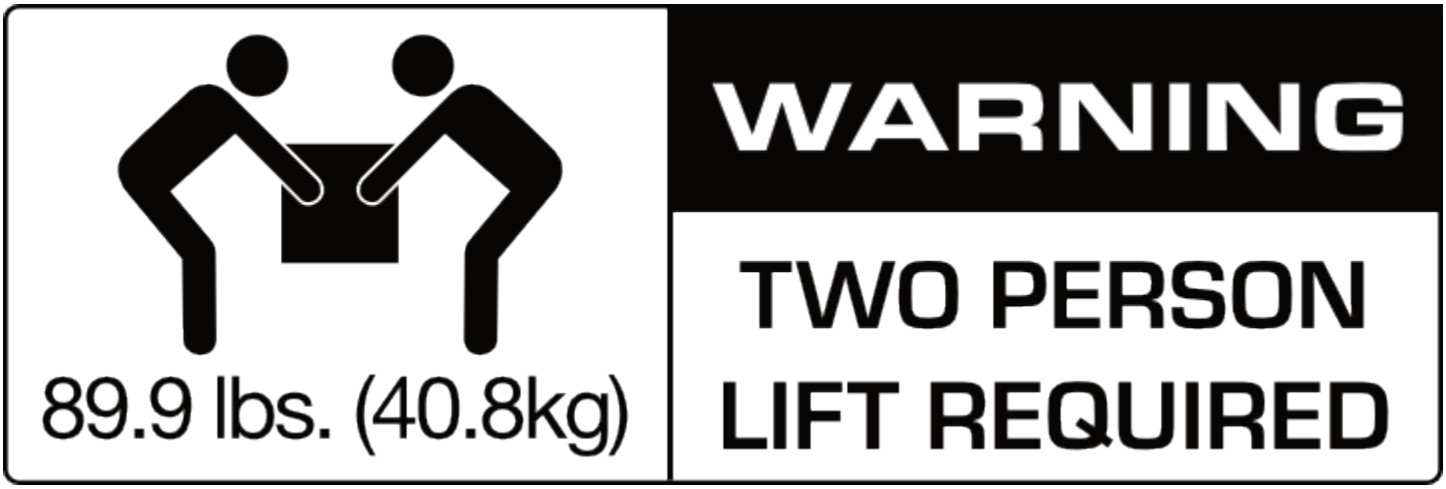
DO NOT PLUG FIXTURE INTO A DIMMER PACK!
NEVER OPEN THIS FIXTURE WHILE IN USE!
UNPLUG POWER BEFORE SERVICING FIXTURE!
NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!
KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!



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 9.8 FEET (3 METERS)
MAXIMUM TEMP OF EXTERNAL SURFACE 194° F (90°C)
MINIMUM DISTANCE OF INFLAMMABLE MATERIALS
FROM THE SURFACE 1.6 FEET (0.5 METER)

SAFETY GUIDELINES



⚠CAUTION

HIGH INTENSITY ULTRAVIOLET LIGHT

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 65.6 feet (20m). 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 fixture will function properly for many years.

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

IP66 RATED - OPS

The International Protection (IP) rating system is commonly expressed as "**IP**" (Ingress Protection) 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, and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. An **IP66** rated lighting fixture is designed and tested to protect against the ingress of dust (**6**), and high-pressure water jets from any direction (**6**).

The Atmospheric Corrosion rating indicates the degree of protection that a surface coating provides against corrosion. It is commonly expressed as the letter C, followed by a number from 1 to 5 or the letter X. This fixture is rated as **CX (extreme)**, which means it is designed to provide protection in areas of high salinity, industrial areas exposed to extreme humidity, aggressive atmospheres, or tropical areas.

Maritime/Seaside Environment Installations: A maritime/seaside environment is adjacent to the sea and caustic to electronics through exposure to atomized salt water and humidity, whereas a coastal environment extends 5 miles inland.

A duty-cycle may also be needed when units are not in use. During times of high humidity and colder temperatures, condensation may occur internally so the fixture may require a duty-cycle to bring it up to running temperature, allowing any accumulation of moisture to be expelled via the vent valve. Recommendations can change based on installation environmental circumstances.

NOTE: NOT ALL FEATURES LISTED ARE AVAILABLE ON ALL FIXTURES; THE FOLLOWING INSTRUCTIONS MAY NOT APPLY. CONTACT SUPPORT FOR ADDITIONAL DETAILS.

Exterior Maintenance: Please note that the following are best practices, which are recommended but not required. Inspect the exterior every 30-days. The unit must be powered off/disconnected. The chassis should be inspected for any signs of contaminants. Inspect optics to determine if the lens is obstructed, then clean optics and chassis accordingly. Based on initial finding, schedule maintenance accordingly, keeping in mind that exterior maintenance will be required. Even if the luminaires are NOT in use, maintenance will still be needed given its location (exterior use). The use of a durable type of wax on the chassis is recommended since it will help prevent contaminant build up. Inspect both power and data lines for any signs of contaminants or corrosion. Periodically reapplying di-electric grease, especially in coastal environments. If any signs of corrosion/contaminants are present, clean thoroughly, and/or replace connectors, then reapply di-electric grease. Typically, this should be done annually, or any time an opportunity presents itself. As a preventive measure, annual replacement of both vent valves is recommended. The vent valve membrane can become contaminated and/or clogged causing improper venting of humidity within the luminaire. Inspect all mounting hardware as a precaution.

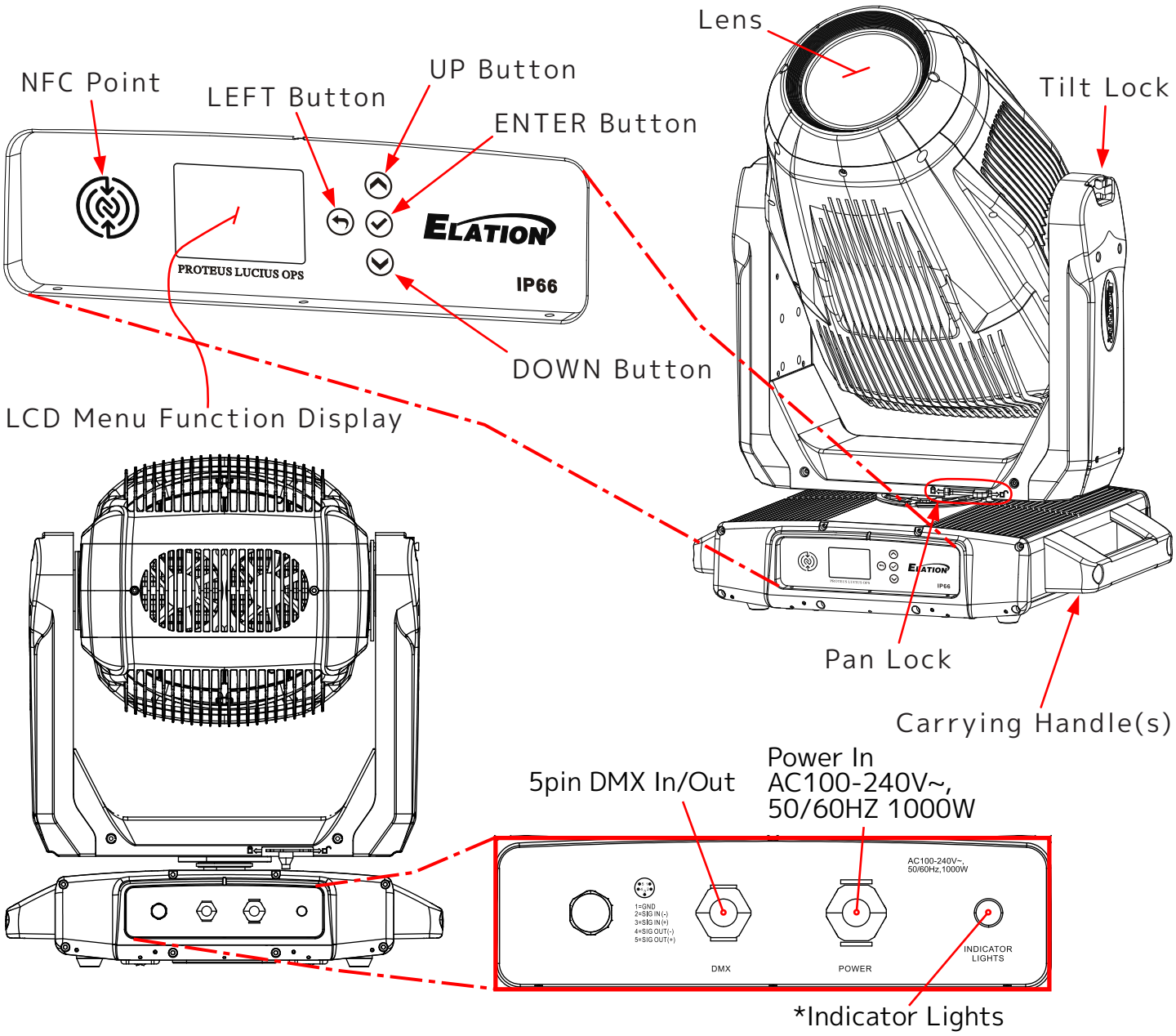
Interior Maintenance: Inspect the interior every 30-days. The unit must be powered off/disconnected.

- Inspect zoom/focus mechanism, clean optics, lubricate linear bearings (Krytox oil) as needed, inspect belts for wear
- Inspect all rotating effect wheels, manually rotate them, note any resistance
- Inspect all remaining rotating belts for any wear
- Inspect all fans, clean as needed, check rotation, check connections
- Inspect CMY module, manually move flags and check for signs of resistance, and if needed, clean guide rods first, then reapply a thin layer of grease (moly lube)
- Clean interior with low-volume compressed air, then clean optics prior to reassembly of head covers

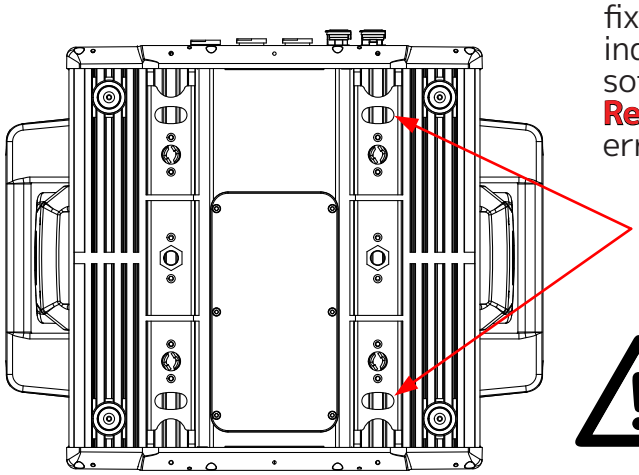
Although the base has limited moving parts, the pan belt should also be inspected for wear. Remember to always perform an IP test anytime a cover is removed.

There is no specific time frame regarding the routine replacement of parts such as belts/stepper motors, PCBs, or LEDs. These items should only be replaced on an as needed bases, except for cooling fans, which should be replaced once the luminaries reach 10,000-hours. This is a prophylactic measure intended to keep the unit running as cool as possible, insuring proper function of all internal components. A complete service breakdown is available, please contact service@elationlighting.com for any needed parts or manuals.

OVERVIEW



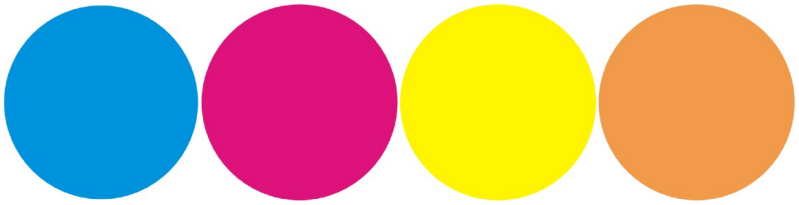
***Indicator Light** - **Green** light indicates that the fixture is working normally, a Blinking **Yellow** light indicates that the fixture is resetting or receiving a software update, **Orange** indicates hibernation, and a **Red** light indicates that the fixture is experiencing an error. See table on page 9 for full list of LED States.



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

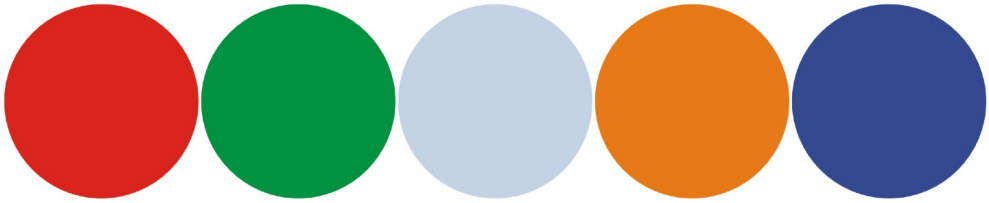
COLORS AND GOBOS

COLOR FLAGS



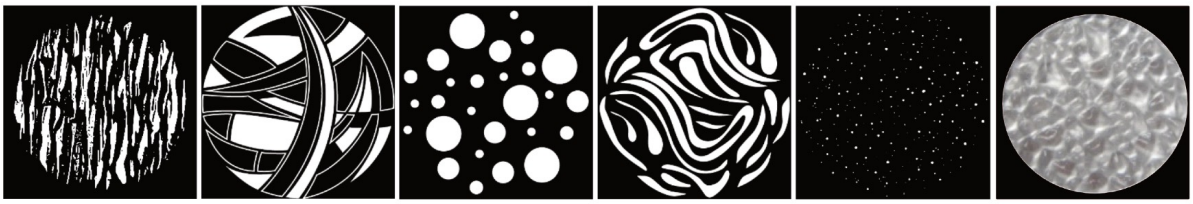
CYAN MAGENTA YELLOW C.T.O.

COLOR WHEEL



RED GREEN HIGH CRI ORANGE BLUE

INTERCHANGEABLE – ROTATING GLASS GOBO WHEEL

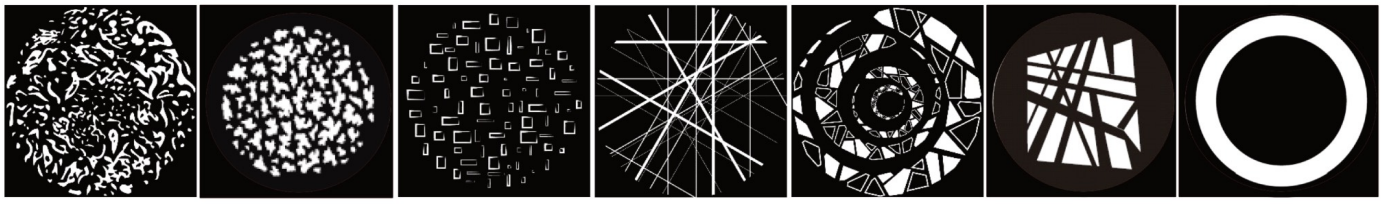


Pos. 1 Pos. 2 Pos. 3 Pos. 4 Pos. 5 Pos. 6

INTERCHANGEABLE – ROTATING GLASS GOBO WHEEL

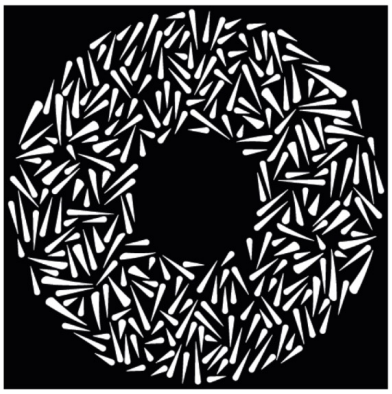
Pos. 1 Pos. 2 Pos. 3 Pos. 4 Pos. 5 Pos. 6 Pos. 7

INTERCHANGEABLE STATIC – FIXED GLASS GOBO WHEEL



Pos. 1 Pos. 2 Pos. 3 Pos. 4 Pos. 5 Pos. 6 Pos. 7

BI-DIRECTIONAL ANIMATION WHEEL

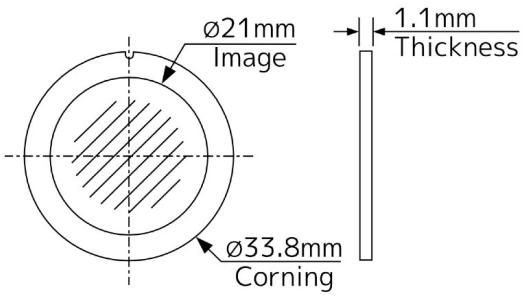


COLORS AND GOBOS

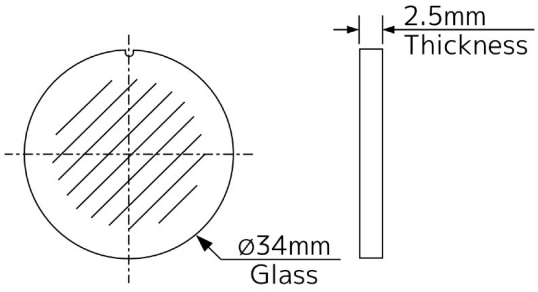
ROTATING WHEEL1 GOBOS - Pos. 1-5:	
Gobo Holder Diameter	Ø34mm
Gobo O.D. (Max. Outer Diameter)	Ø33.8mm
Gobo I.D. (Max. Image Diameter)	Ø21mm
Gobo Thickness	1.1mm±0.1mm
Gobo Material	CORNING

ROTATING WHEEL1 GOBOS - Pos. 6:	
Gobo Holder Diameter	Ø34mm
Gobo O.D. (Max. Outer Diameter)	Ø34mm
Gobo I.D. (Max. Image Diameter)	Ø21mm
Gobo Thickness	2.5mm±0.1mm
Gobo Material	GLASS

ROTATING WHEEL1 GOBOS

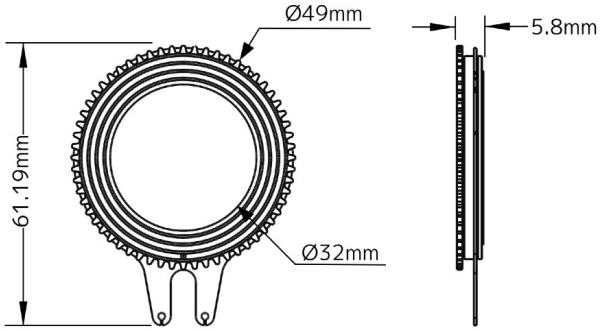


Pos. 1 - Pos. 5



Pos. 6

ROTATING WHEEL1 GOBO HOLDERS



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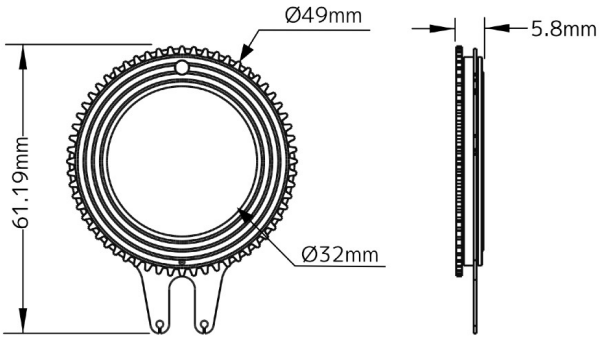
Pos. 1 - Pos. 5



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Pos. 6

Proteus Lucius OPS utilizes different size gobo holders on every wheel.

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.

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

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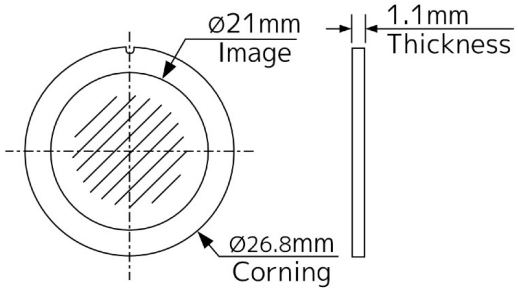
COLORS AND GOBOS

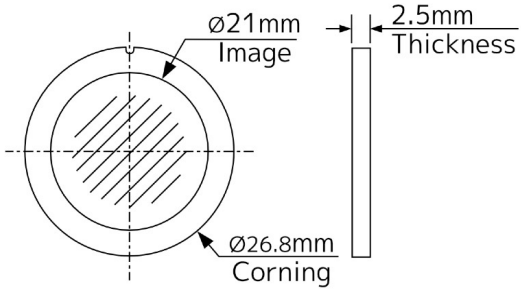
ROTATING WHEEL2 GOBOS - Pos. 1-6:	
Gobo Holder Diameter	Ø27mm
Gobo O.D. (Max. Outer Diameter)	Ø26.8mm
Gobo I.D. (Max. Image Diameter)	Ø21mm
Gobo Thickness	1.1mm±0.1mm
Gobo Material	CORNING

ROTATING WHEEL2 GOBOS - Pos. 7:	
Gobo Holder Diameter	Ø27mm
Gobo O.D. (Max. Outer Diameter)	Ø26.8mm
Gobo I.D. (Max. Image Diameter)	Ø21mm
Gobo Thickness	2.5mm±0.1mm
Gobo Material	CORNING

ROTATING WHEEL2 GOBOS

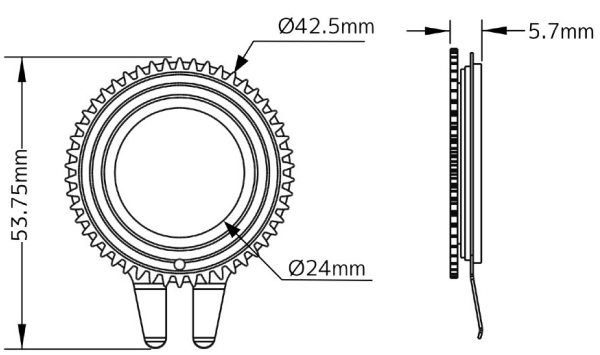


Pos. 1 - Pos. 6



Pos. 7

ROTATING WHEEL2 GOBO HOLDERS



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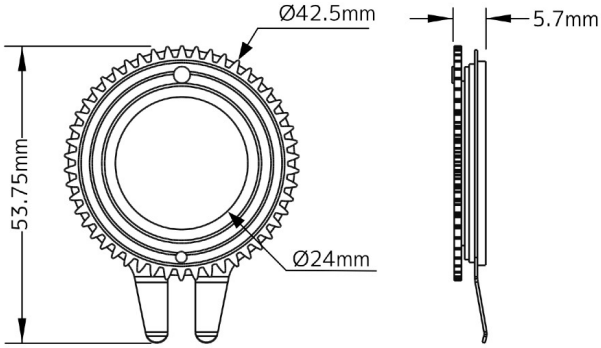
Pos. 1 - Pos. 6



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Pos. 7

Proteus Lucius OPS utilizes different size gobo holders on every wheel.

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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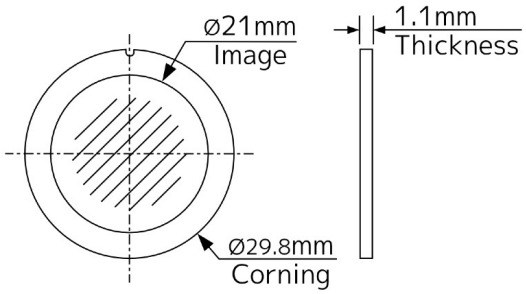
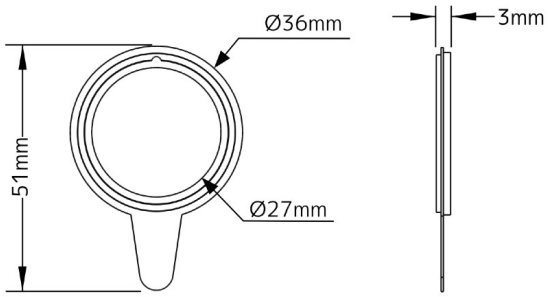
COLORS AND GOBOS

FIXED WHEEL GOBOS:	
Gobo Holder Diameter	Ø30mm
Gobo O.D. (Max. Outer Diameter)	Ø29.8mm
Gobo I.D. (Max. Image Diameter)	Ø21mm
Gobo Thickness	1.1mm±0.1mm
Gobo Material	CORNING





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Proteus Lucius OPS utilizes different size gobo holders on every wheel.

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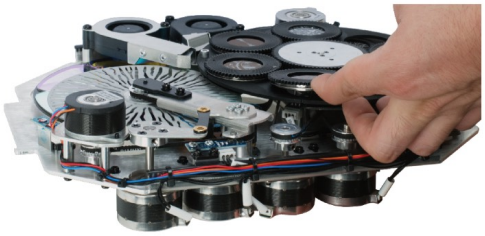
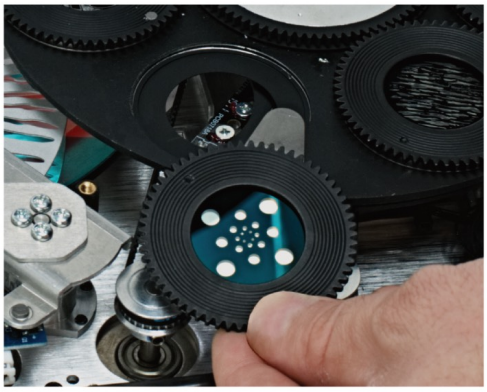
GOBO INSTALLATION


REPLACING A ROTATING GOBO

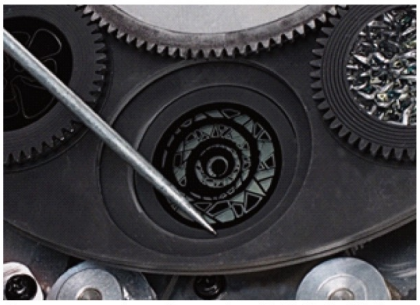
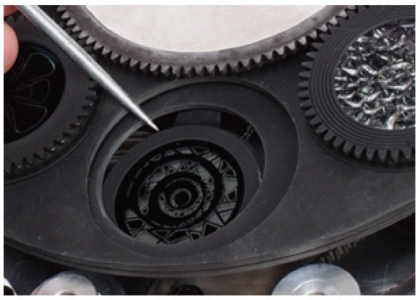
Locate the specific Rotating GOBO to replace. Carefully grip the GOBO using your thumb and index



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 replacement Rotating GOBO following the steps above in reverse order.

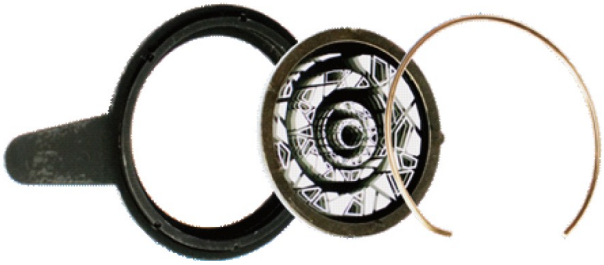
CAUTION: TAKE CARE NOT TO SCRATCH GOBO OR GOBO HOLDER

REPLACING A STATIC GOBO


Rotate the Static GOBO Wheel until the desired GOBO is visible through the OPEN slot in the Rotating GOBO Wheel. Using a precision pick (or similar tool), carefully press the Static GOBO Holder down slightly, then using your thumb and index finger, gently pull it out and away until if fully clears the GOBO Wheel.

Locate the tab of the retaining spring. Using 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 replacement Static GOBO following the steps above in reverse

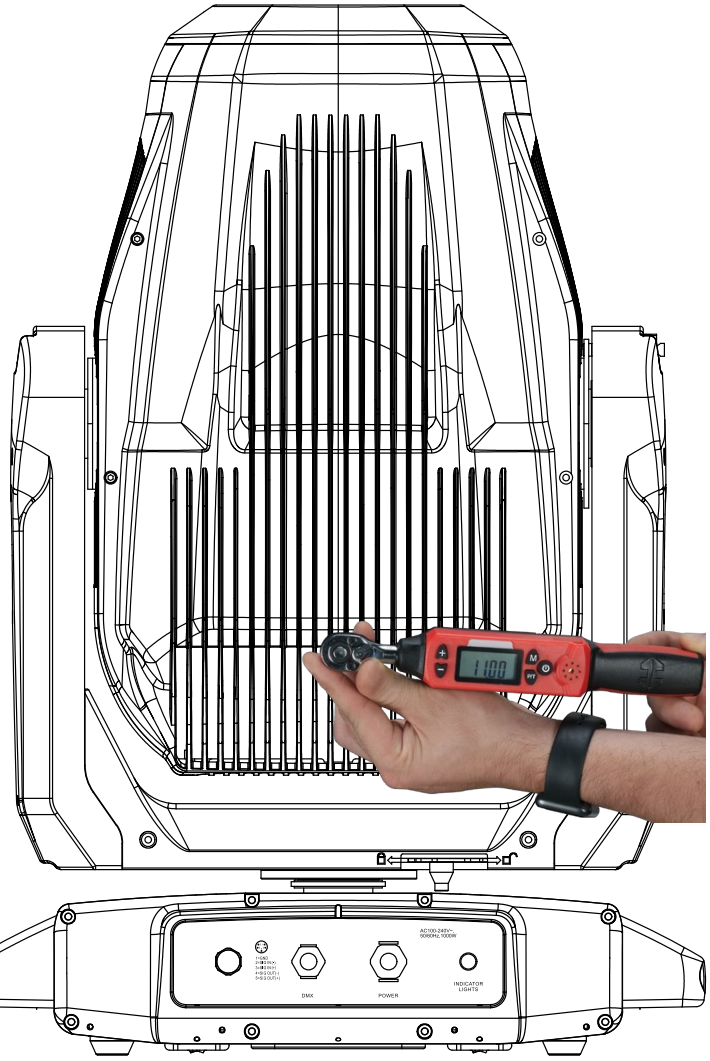


TORQUE SETTINGS FOR SCREWS

The hex-head screws holding either the panels or the base 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 IP66 INTEGRITY AFTER A LAMP REPLACEMENT, TEST FIXTURE USING THE ELATION IP TESTER. CONTACT ELATION SERVICE FOR MORE DETAILS.

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)	-5.08 psi (-35.00 KPa)	10s
Pressure Test	3.62 psi (25.00 KPa)	4.35 psi (30.00 KPa)	10s

FAN CONTROL AND LOW NOISE OPERATION

The Elation Proteus Lucius OPS is a high-performance fixture suited for multiple applications. For noise critical environments such as Theater, Opera, or Orchestral Halls, it offers various fan operation modes which remove unwanted noise distractions for the audience and performers. Fan Modes can be changed remotely via the DMX control channel, allowing the fixture to offer high output or whisper-silent operation at a moment's notice. All Fan Modes smoothly transition over a brief period, preventing unwanted attraction to the fixture.

Mode	dbA at 1m LED off	dbA at 1m Dimmer 100%
Fan Control - Auto (Default)	39	47
Fan Control - High	40	55
Fan Control - Low	37	42
Low Noise – Studio	34	37
Low Noise – Mute/Silent	31	31

Auto (Default) – Fans only run at the speeds needed to keep the LED engine within a safe temperature range, and ensures optimal performance of the fixture. They will turn off if possible; for example, when the fixture is dimmed to a low intensity. Fans sense the ambient and fixture temperature and will, at all times, try to keep noise levels at a minimum. The fixture output will only be reduced when the LED engine cannot be cooled to its safe operating range due to a high ambient temperature.

NOTE: This mode is recommended for daily operation.

Silent – Fan speeds are reduced throughout the fixture for a lower noise profile. The fixture output is also reduced to approximately 80%. This mode should be sufficient for most uses where lower noise is required.

High – Fan speeds are increased throughout the fixture for the most efficient cooling. This mode will increase wear on the fans and should only be utilized in exceptional circumstances. Fans will always run, even if the fixture is dimmed. Fixture output is kept at 100% unless the LED engine temperature reaches an unsafe temperature, at which point the fixture will reduce power carefully to ensure continued safe operation. This mode is only required in very high ambient temperatures when automatic fan speed adjustments are not desired.

Low Noise Modes

For very critical noise environments, the fixture offers two additional Low Noise Modes for silent operation. The fixture output will be reduced, yet due to the extremely high luminous flux, the fixture still offers outstanding performance. In Low Noise Modes, all parameters of the fixture operate more quietly with reduced fan speeds.

Mute – All but one fixture fan is turned off for whisper-quiet operation. The fixture LED power output is reduced to 25%.

INSTALLATION GUIDELINES

FLAMMABLE MATERIAL WARNING

Keep fixture minimum 9.8 feet (3m) 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 1.6 FOOT (0.5 METERS)

MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE 1.6 FEET (0.5 METER)

AMBIENT TEMPERATURE RANGE IS -4° F TO 113° F (-20°C TO 45°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 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 **-4° to 113°F. (-20° 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.

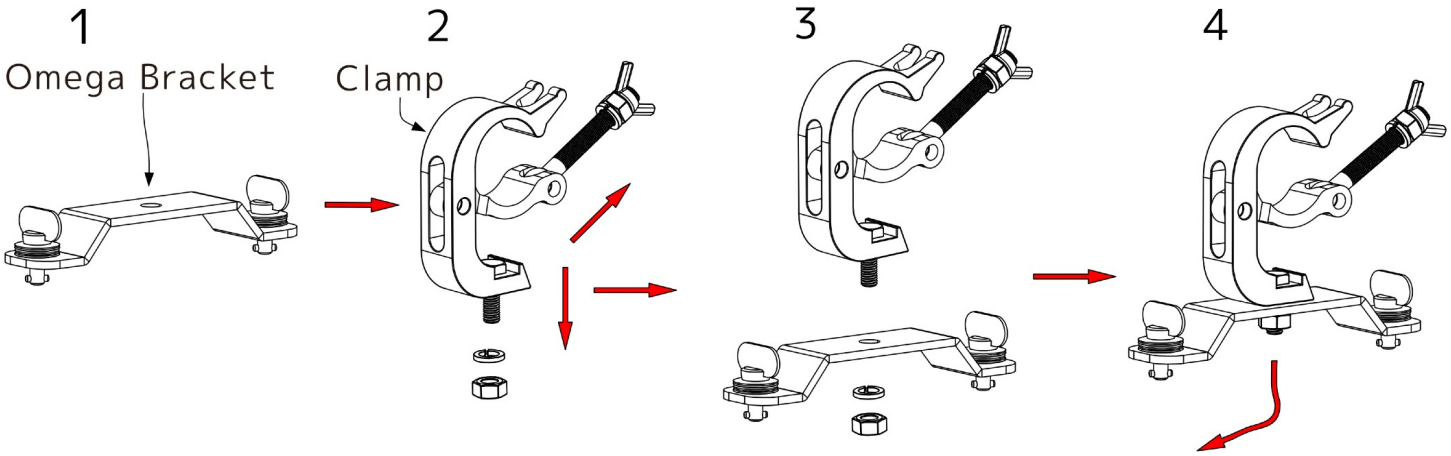
NEVER stand directly below the fixture when rigging, removing or servicing.
Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

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

INSTALLATION GUIDELINES

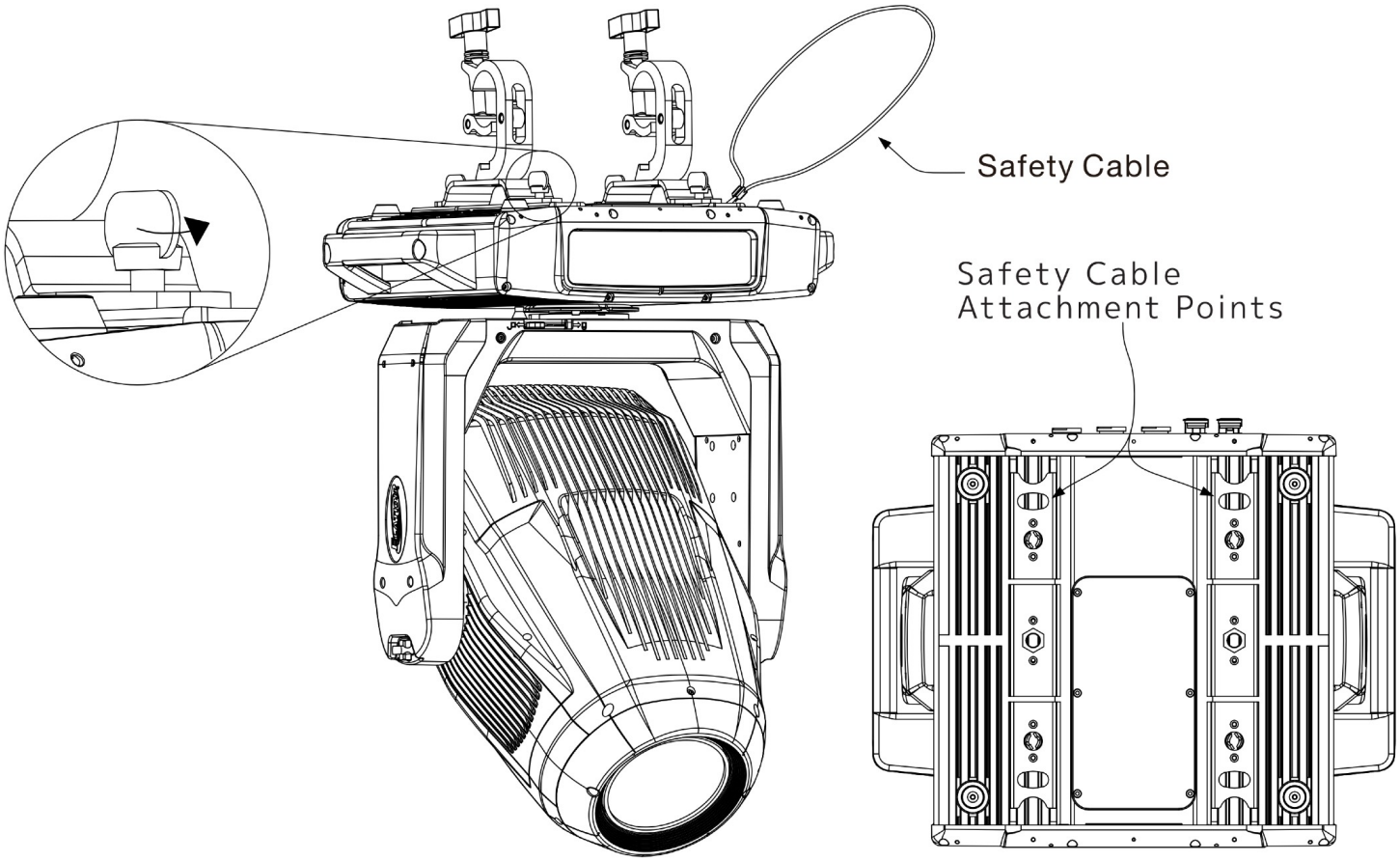
OMEGA BRACKETS WITH CLAMP INSTALLATION

Insert the Omega Brackets into the matching holes on the bottom of the fixture. Secure the Omega Brackets to the fixture by turning each quick-lock fastener ¼ turn clockwise; making sure the fastener is completely locked. Omega Brackets can be installed into the fixture base as illustrated below.



SAFETY CABLE

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



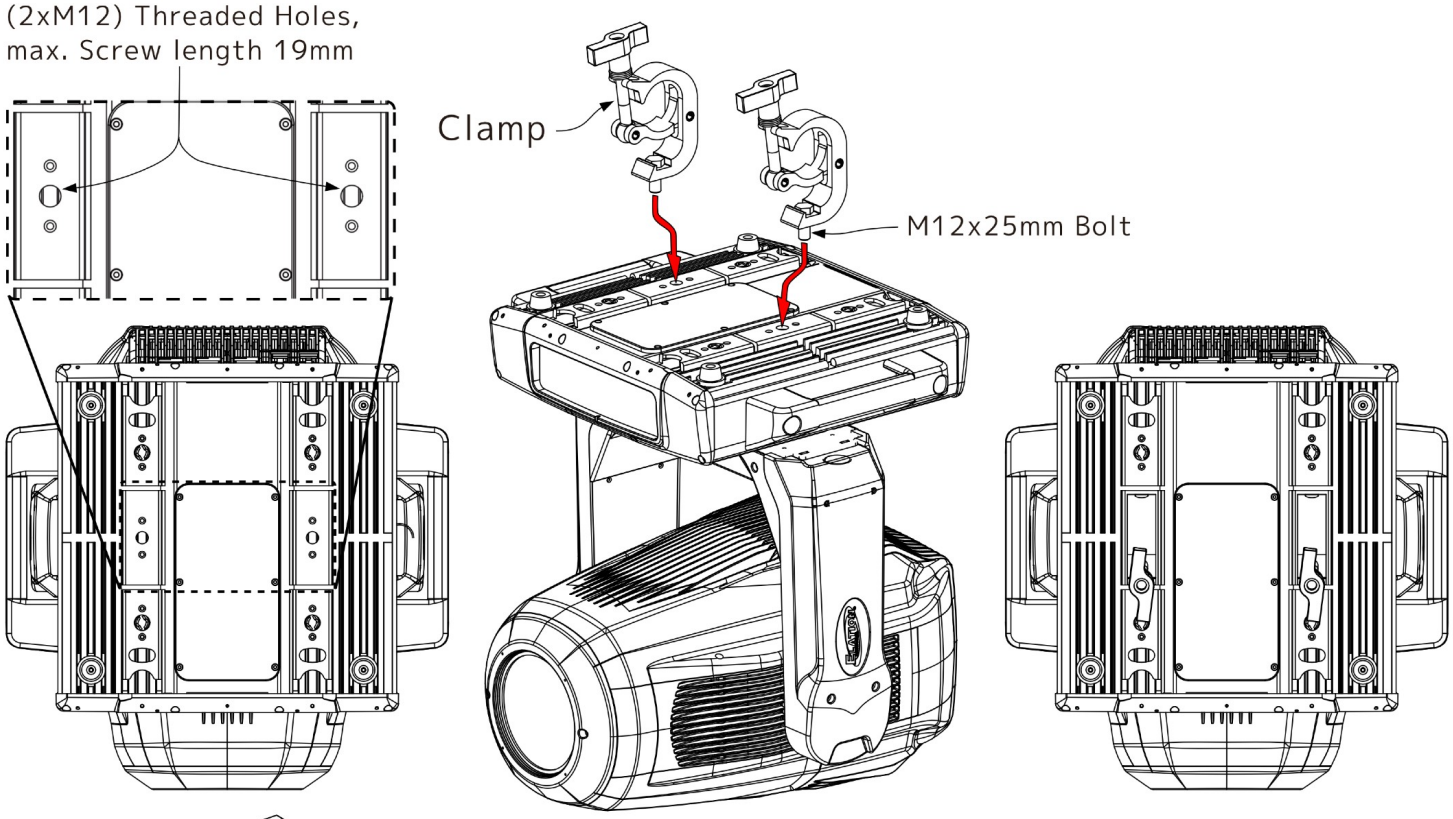
MOUNTING THE FIXTURE ON A TRUSS USING CLAMPS WITH OMEGA BRACKETS

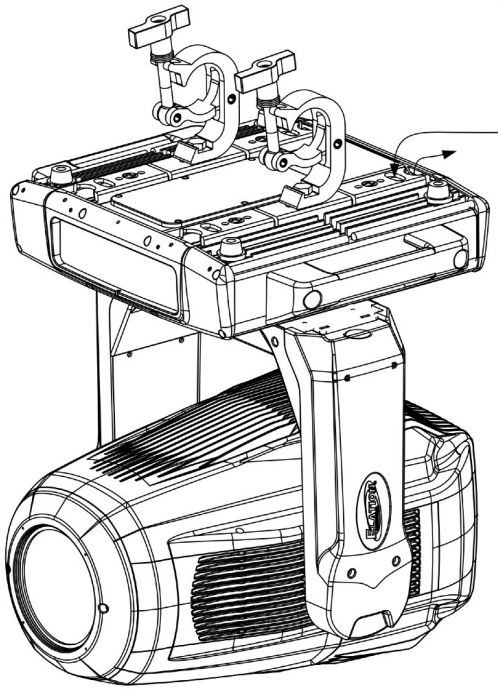
When mounting the fixture to a truss, be sure to secure an appropriately rated professional grade rigging clamp to the included **Omega Brackets** using an M10 screw fitted through the center hole of the **Omega Brackets**. The fixture provides built-in rigging points for a **SAFETY CABLE** (not included). 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.

INSTALLATION GUIDELINES

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.



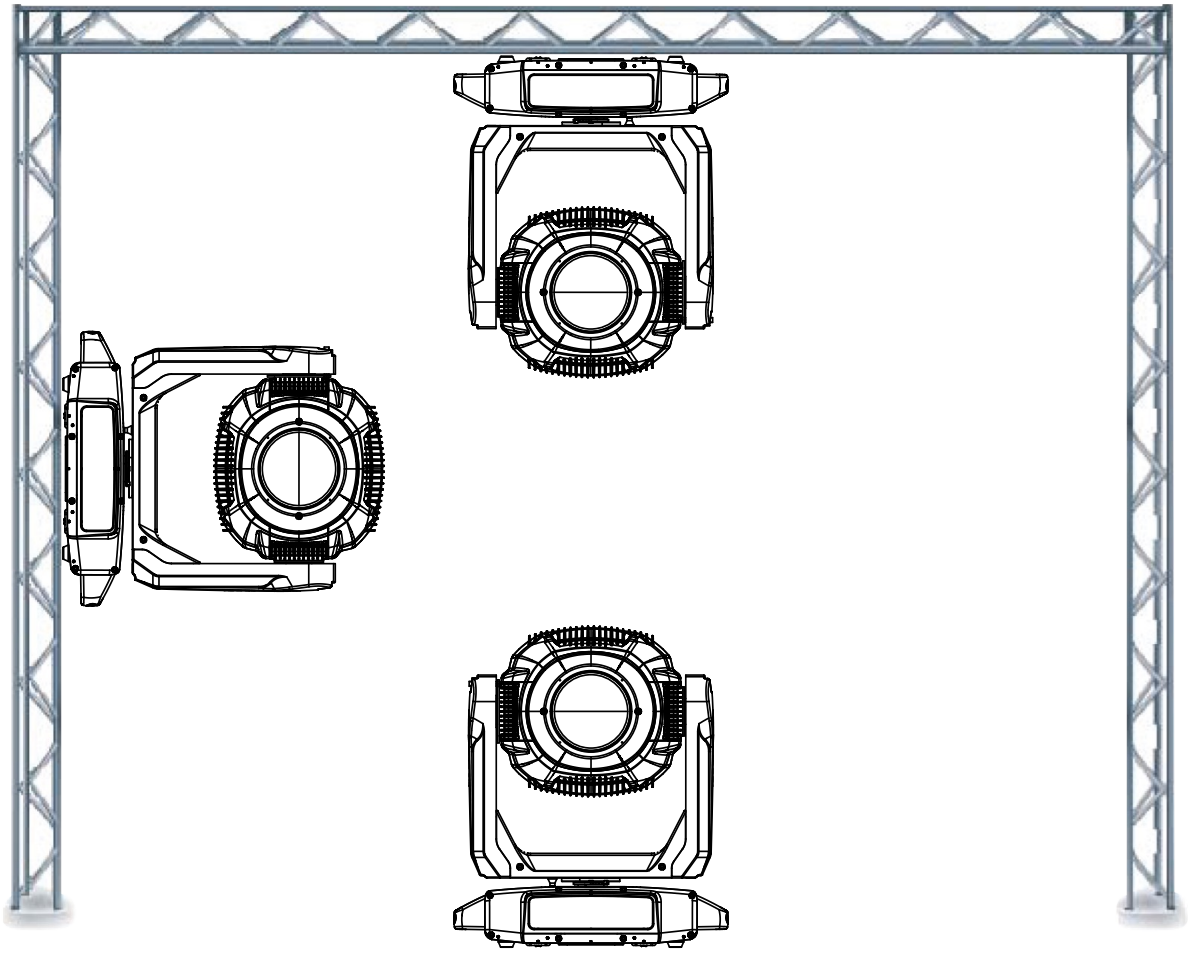


MOUNTING THE FIXTURE ON A TRUSS USING CLAMPS

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.

INSTALLATION GUIDELINES

RIGGING
Overhead rigging requires extensive experience, including among 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.



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.

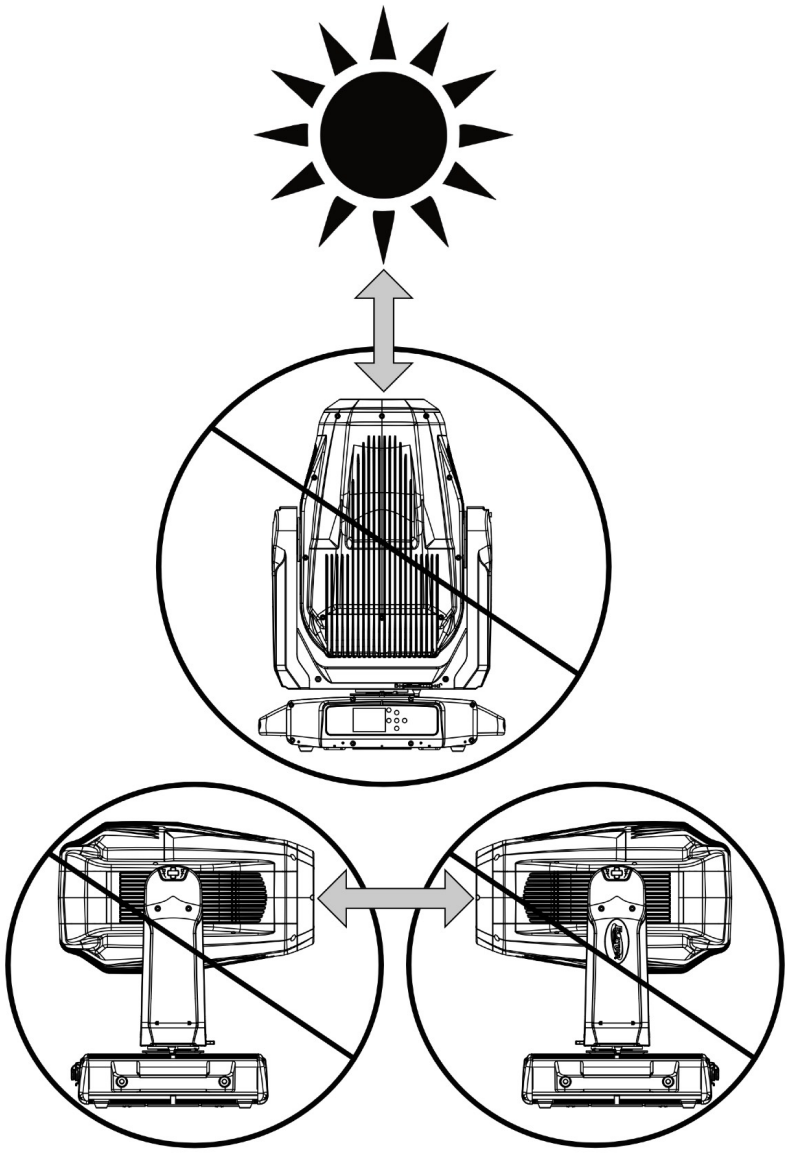
INSTALLATION GUIDELINES

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 only to ELATION lighting fixtures, 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, 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.

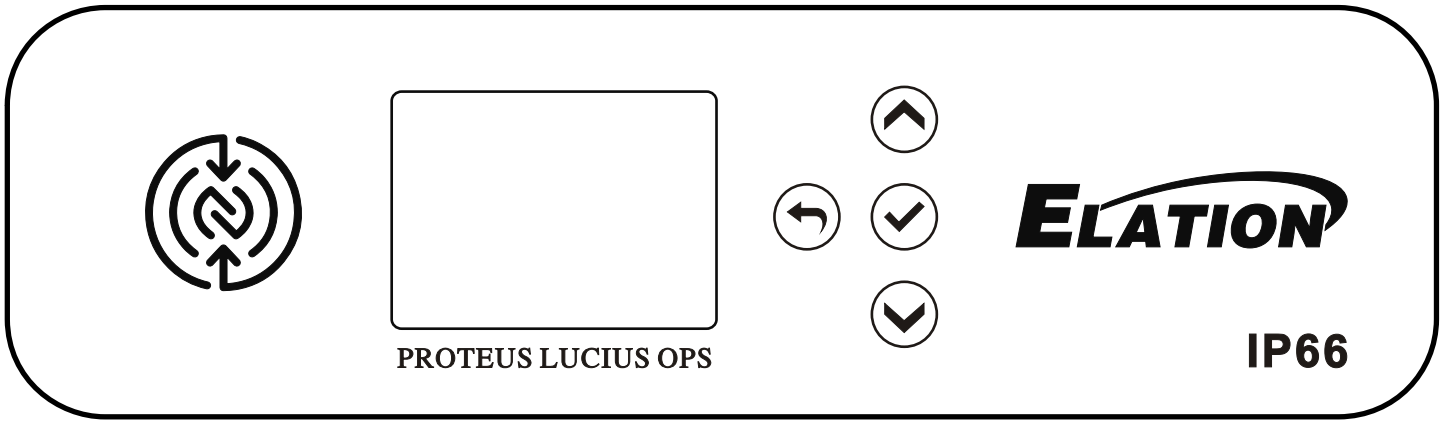
To ensure the fixture is protected from harmful sunrays it is recommended to either leave the "No DMX Status" in "Sun Protection" (so the fixture is already in the correct position after 3 minutes of DMX loss) or set the fixture to a safe Tilt position manually first before hibernation.

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.

SYSTEM MENU

The fixture includes an easy to navigate system menu. The control panel (see image below) located on the front of the fixture, provides access to the main system menu and is where all necessary system adjustments are made to the fixture. 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. 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 **MODE/ESC** button.

Note: The Display is only activated by way of DMX, NFC, or the Aria app.



The display never turns on unless explicitly activated by NFC or DMX

	Display	*LED
Power On	Off	Green, turn off after 5 min
Reset	Off	Green, turn off after 5 min
Display enable (NFC or DMX)	On	Green
Error Detected	Off	Red, never turn off
Hibernate	Off	Orange
Hibernate Resume	Off	Green, turn off after 5 min

Note: the INDICATOR LIGHTS LED is located on the rear panel (see Overview on page 9).

ARIA ACTIVATION AND SOFTWARE UPDATE

Although Aria settings may appear in the System Menu, the optional Aria wireless DMX feature is not activated and requires activation in the Service Menu. To activate Aria or update the Elation Proteus Lucius OPS fixture to the latest software, contact Elation Service:

Elation Service USA: Monday - Friday, 8:00 AM to 4:30 PM PST
+1 323-582-3322 | support@elationlighting.com

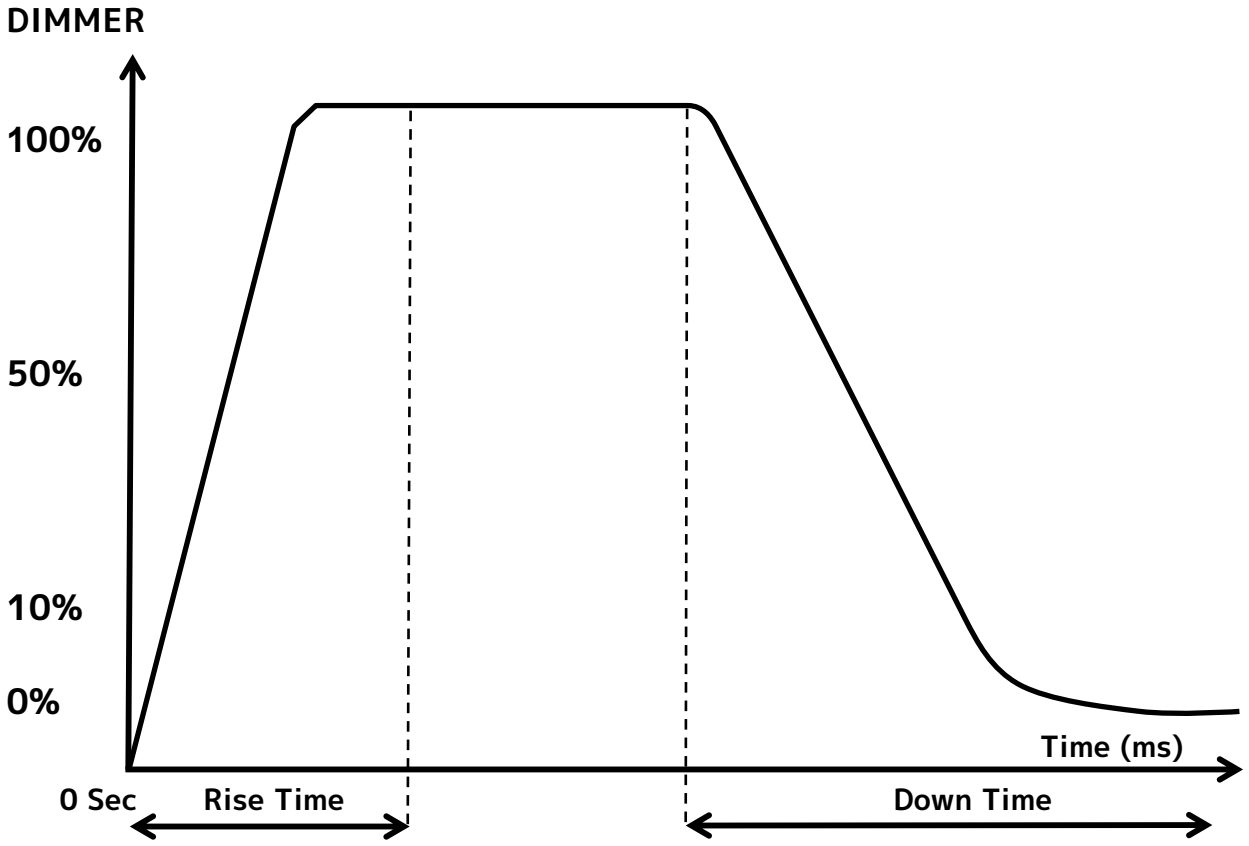
Elation Service Europe: Monday - Friday, 08:30 to 17:00 CET
+31 45 546 85 63 | support@elationlighting.eu

Note: Aria wireless software updates are not currently available. Do not attempt to use Aria for updates without Elation's guidance. Ensure stable power (AC 100-240V, 50/60Hz) during any update process.

SYSTEM MENU

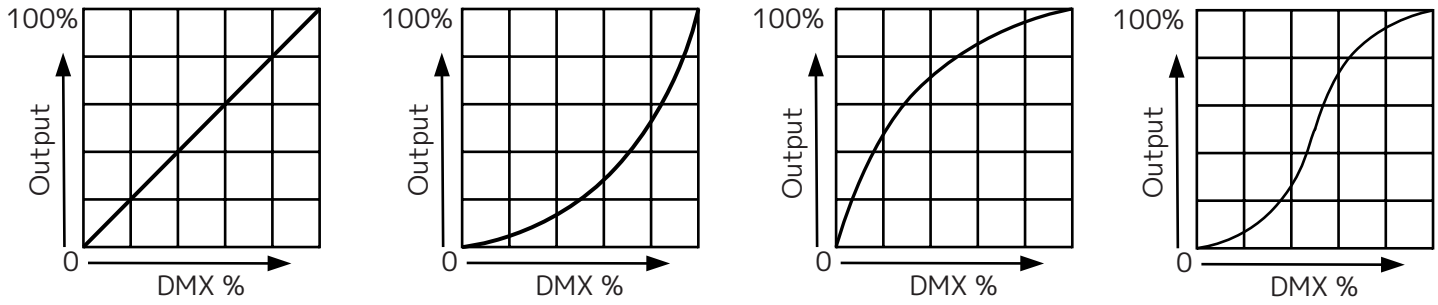
MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		
DMX	DMX Address	**001** - 512	
	DMX Mode	**Standard**, Extended	
	No DMX Status	**Hold Last**, Fade to Black, Sun Protection	
		Hibernation	Off, 1-99M (**Default=15Min**)
	Protocol	Select Signal	**DMX** / Aria In-DMX Out / DMX In - Aria Out
	Aria	Enable Aria	**Off**/On
		Frequency	**2.4Ghz** / Sub Gig-US / Sub Gig-EU
		2.4Ghz Chan	**0**-15
		Sub Gig Chan	**0**-9
		Enable Mesh	**Off**/On
		Enable Bluetooth	Off/**On**
CONTROL	Manual Control	Dimmer 0% - **100%**, Pan, Tilt, ...	
	Reset	All, Pan Tilt, Color, Gobo, Focus Zoom, Others	
	Self Test	All, Dimmer, Movement, Color Mix, Gobo, Beam	
SETTINGS	Movement	Pan Invert	**Off**/On
		Tilt Invert	**Off**/On
		Pan Tilt Speed	**Fast**/Smooth
		Pan Tilt Brake	**Smooth**/Fast
		Pan Tilt Feedback	Off/**On**
		Gobo Color Cor.	Disable/**Enable**
		FollowSpot Mode (default hidden.)	**Off**/On/Close Menu
	Fans Control	**Auto**, High, Low, Studio, Mute	
	Color	CMY Speed	Smooth/**Fast**
	Dimmer	**Linear**, Square, Square Inverse, S-Curve	
	Display	Screen Delay	10s - 5min (Default = **1 min**)
		Screen Lock	**Off**, 10s - 5 min
		Auto Rotate	Off/**On**
		Activate LCD	Off/**On**
	Reset Defaults	Yes / No	
INFORMATION	Time	Current Time, Total Run Time, Last Run Time	
	Temperature	Head, Base, Lamp	
	Humidity	Head, Base	
	Fan	Fan 1U (Position), Fan 1U (Position)	
	DMX Values	Pan, Tilt, ...	
	Product IDs	RDM UID	
	Error Logs	Fixture Errors	
	Software Version	Vx.x	
Service (Passcode=050)	Calibration	Dimmer, Pan, Tilt, ...	
	Reset Last Run	Yes / No	
	Reset Error Logs	Yes / No	

DIMMER CURVES



Dimming Curve Ramp Effect	0 sec Fade Time		1 sec Fade Time	
	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

DIMMER MODES



DMX TRAITS

Features subject to change without notice					
MODE/CHANNEL		**VALUE**	**FUNCTION**	**DEFAULT**	**SNAP**
STANDARD	**EXTENDED**				
1	1	0-255	**Pan** Left → Right	127	
2	2	0-255	**Pan Fine** Fine Position	127	
3	3	0-255	**Tilt** Forward → Backward	127	
4	4	0-255	**Tilt Fine** Fine Position	127	
5	5	0-255	**Cyan** Cyan(0 → 100%)		
	6	0-255	**Cyan Fine** Fine Saturation		
6	7	0-255	**Magenta** Magenta(0 → 100%)		
	8	0-255	**Magenta Fine** Fine Saturation		
7	9	0-255	**Yellow** Yellow(0 → 100%)		
	10	0-255	**Yellow Fine** Fine Saturation		
8	11	0-255	**CTO** Cold → Warm		
	12	0-255	**CTO Fine** Fine Saturation		
9	13		**Color**		X
		0-7	Open		
		8-31	Red		
		32-55	Green		
		56-79	High CRI		
		80-103	Orange		
		104-127	Medium Blue		
			Scroll		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
	14	0-255	**Color Fine** Position		X

DMX TRAITS

Features subject to change without notice					
MODE/CHANNEL		VALUE	FUNCTION	DEFAULT	SNAP
STANDARD	EXTENDED				
10	15		**Rotating Gobo 1**	X	0
		0-9	Open		
		10-19	Gobo 1		
		20-29	Gobo 2		
		30-39	Gobo 3		
		40-49	Gobo 4		
		50-59	Gobo 5		
		60-69	Gobo 6		
		70-89	Gobo 1 shake slow to fast		
		90-109	Gobo 2 shake slow to fast		
		110-129	Gobo 3 shake slow to fast		
		130-149	Gobo 4 shake slow to fast		
		150-169	Gobo 5 shake slow to fast		
		170-189	Gobo 6 shake slow to fast		
			Scroll		
		190-221	Clockwise Fast → Slow		
		222-223	Stop		
		224-255	Counter-clockwise Slow → Fast		
11	16		**Rotating Gobo 1 Index/ Rotation**		0
		0-127	Index Position		
			Rotate		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
12	17	0-255	Rotating Gobo Index/ Rotation Fine		0
			Index Position		
13	18		**Rotating Gobo 2**	X	0
		0-9	Open		
		10-19	Gobo 1		
		20-29	Gobo 2		
		30-39	Gobo 3		
		40-49	Gobo 4		
		50-59	Gobo 5		
		60-69	Gobo 6		
		70-77	Gobo 7		
		78-93	Gobo 1 shake slow to fast		
		94-109	Gobo 2 shake slow to fast		
		110-125	Gobo 3 shake slow to fast		
		126-141	Gobo 4 shake slow to fast		
		142-157	Gobo 5 shake slow to fast		
		158-173	Gobo 6 shake slow to fast		
		174-189	Gobo 7 shake slow to fast		
			Scroll		
		190-221	Clockwise Fast → Slow		
		222-223	Stop		
		224-255	Counter-clockwise Slow → Fast		
14	19		**Rotating Gobo 2 Index/ Rotation**		0
		0-127	Index Position		
			Rotate		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
15	20	0-255	Rotating Gobo 2 Index/ Rotation Fine		0
			Index Position		

DMX TRAITS

Features subject to change without notice					
MODE/CHANNEL		VALUE	FUNCTION	DEFAULT	SNAP
STANDARD	EXTENDED				
16	21		**Fixed Gobo**	X	0
		0-9	Open		
		10-19	Gobo 1		
		20-29	Gobo 2		
		30-39	Gobo 3		
		40-49	Gobo 4		
		50-59	Gobo 5		
		60-69	Gobo 6		
		70-77	Gobo 7		
		78-93	Gobo 1 shake slow to fast		
		94-109	Gobo 2 shake slow to fast		
		110-125	Gobo 3 shake slow to fast		
		126-141	Gobo 4 shake slow to fast		
		142-157	Gobo 5 shake slow to fast		
		158-173	Gobo 6 shake slow to fast		
		174-189	Gobo 7 shake slow to fast		
			Scroll		
		190-221	Clockwise Fast → Slow		
		222-223	Stop		
		224-255	Counter-clockwise Slow → Fast		
	22	0-255	**Fixed Gobo Fine**		0
			Position		
17	23		**Rotating Prism 1**	X	0
		0-63	Open		
		64-127	4-Facet		
		128-135	Macro1		
		136-143	Macro2		
		144-151	Macro3		
		152-159	Macro4		
		160-167	Macro5		
		168-175	Macro6		
		176-183	Macro7		
		184-191	Macro8		
		192--199	Macro9		
		200-207	Macro10		
		208-215	Macro11		
		216-223	Macro12		
		224-231	Macro13		
		232-239	Macro14		
		240-247	Macro15		
		248-255	Macro16		
18	24		**Rotating Prism 1 Index/Rotation**		0
		0-127	Index Position		
			Rotate		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
	25	0-255	**Rotating Prism 1 Index/Rotation Fine**		0
			Position		

DMX TRAITS

Features subject to change without notice					
MODE/CHANNEL		VALUE	FUNCTION	DEFAULT	SNAP
STANDARD	EXTENDED				
19	26		**Rotating Prism 2**	X	0
		0-63	Open		
		64-255	4-Facet		
20	27		**Rotating Prism 2 Index/Rotation**		0
		0-127	Index Position		
			Rotate		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
	28	0-255	**Rotating Prism 2 Index/Rotation Fine**		0
			Position		
21	29	0-255	**Focus**		127
			Infinity → Near		
22	30	0-255	**Focus Fine**		127
			Fine Adjustment		
23	31	0-255	**Zoom**		127
			Narrow → Wide		
24	32	0-255	**Zoom Fine**		127
			Fine Adjustment		
	33		**Auto Focus**		0
		0-4	Auto Focus Off		
		51-100	5m		
		101-150	7.5m		
		151-200	10m		
		201-255	15m		
	34	0-255	**AutoFocus Fine**		0
			Fine Adjustment		
25	35		**Shutter/Strobe**	X	50
		0-31	Closed		
		32-63	Open		
		64-95	Strobe Slow → Fast		
		96-127	Open		
		128-159	Pulse-effect		
		160-191	Open		
		192-223	Random strobe Slow → Fast		
		224-255	Open		
26	36	0-255	**Dimmer**		0
			Intensity 0 → 100%		
27	37	0-255	**Dimmer Fine**		0
			Fine Adjustment		

DMX TRAITS

Features subject to change without notice					
MODE/CHANNEL		VALUE	FUNCTION	DEFAULT	SNAP
STANDARD	EXTENDED				
28	38		**Dim Modes**	X	0
		0-20	Standard		
		21-40	Stage		
		41-60	TV		
		61-80	Architectural		
		81-100	Theatre		
		101- 120	Stage 2		
			Dimmer Delay Time		
		121	0s		
		122	0.1s		
		123	0.2s		
		124	0.3s		
		125	0.4s		
		126	0.5s		
		127	0.6s		
		128	0.7s		
		129	0.8s		
		130	0.9s		
		131	1.0s		
		132	1.5s		
		133	2.0s		
		134	3.0s		
		135	4.0s		
		136	5.0s		
		137	6.0s		
		138	7.0s		
		139	8.0s		
		140	9.0s		
		141	10s		
		142 - 255	Idle		
29	39		**Iris**		0
		0-191	Open → Close		
		192-223	Pulse Closing fast → slow		
		224-255	Pulse Opening slow → fast		
	40	0-255	**Iris Fine**		0
			Fine Adjustment		
30	41	0 – 255	**Frost 1 (Soft)**		0
			Open → Max		
31	42	0 – 255	**Frost 2 (Wash)**		0
			Open → Max		
32	43		**Animation Wheel**		0
		0-7	Open		
		8-255	Animation Min → Max		
33	44		**Animation Index**		64
		0-127	Position		
			Scroll		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		

DMX TRAITS

Features subject to change without notice					
MODE/CHANNEL		VALUE	FUNCTION	DEFAULT	SNAP
STANDARD	EXTENDED				
	45	0-255	**Color Macro Speed**		0
			Max → Min Speed		
	46		**Color Macros**	X	0
		0-31	OFF		
		32-39	Macro1		
		40-47	Macro2		
		48-55	Macro3		
		56-63	Macro4		
		64-71	Macro5		
		72-79	Macro6		
		80-87	Macro7		
		88-95	Macro8		
		96-103	Macro9		
		104-111	Macro10		
		112-119	Macro11		
		120-127	Macro12		
		128-135	Macro13		
		136-143	Macro14		
		144-151	Macro15		
		152-159	Macro16		
		160-167	Macro17		
		168-175	Macro18		
		176-183	Macro19		
		184-191	Macro20		
		192-199	Macro21		
		200-207	Macro22		
		208-215	Macro23		
		216-223	Macro24		
		224-231	Macro25		
		232-239	Macro26		
		240-247	Macro27		
		248-255	Random CMY		
34	47	0-255	Blade 1 A		0
			Open → Closed		
	48	0-255	**Blade 1 A Fine**		0
			Fine Adjustment		
35	49	0-255	**Blade 1 B**		0
			Open → Closed		
	50	0-255	**Blade 1 B Fine**		0
			Fine Adjustment		
36	51	0-255	**Blade 2 A**		0
			Open → Closed		
	52	0-255	**Blade 2 A Fine**		0
			Fine Adjustment		
37	53	0-255	**Blade 2 B**		0
			Open → Closed		
	54	0-255	**Blade 2 B Fine**		0
			Fine Adjustment		
38	55	0-255	Blade 3 A		0
			Open → Closed		
	56	0-255	Blade 3 A Fine		0
			Fine Adjustment		
39	57	0-255	Blade 3 B		0
			Open → Closed		
	58	0-255	Blade 3 B Fine		0
			Fine Adjustment		

DMX TRAITS

Features subject to change without notice					
MODE/CHANNEL		VALUE	FUNCTION	DEFAULT	SNAP
STANDARD	EXTENDED				
40	59	0-255	Blade 4 A Open → Closed		0
	60	0-255	Blade 4 A Fine Fine Adjustment		0
41	61	0-255	Blade 4 B Open → Closed		0
	62	0-255	Blade 4 B Fine Fine Adjustment		0
42	63		Framing Rotation		127
		0-126	Min (-45°)		
		127-128	Parallel (0°)		
		129-255	Max (+45°)		
	64	0-255	Framing Rotation Fine Fine Adjustment		0
	65	0-255	Framing Macro Speed Max → Min Speed		0
	66		Framing Macro	X	0
		0-7	OFF		
		8-15	Macro1		
		16-23	Macro2		
		24-31	Macro3		
		32-39	Macro4		
		40-47	Macro5		
		48-55	Macro6		
		56-63	Macro7		
		64-71	Macro8		
		72-79	Macro9		
		80-87	Macro10		
		88-95	Macro11		
		96-103	Macro12		
		104-111	Macro13		
		112-119	Macro14		
		120-127	Macro15		
		128-135	Macro16		
		136-143	Macro17		
		144-151	Macro18		
		152-159	Macro19		
		160-167	Macro20		
		168-175	Macro21		
		176-183	Macro22		
		184-191	Macro23		
		192-199	Macro24		
		200-207	Macro25		
		208-215	Macro26		
		216-223	Macro27		
		224-231	Macro28		
		232-239	Macro29		
		240-247	Macro30		
		248-255	Macro31		
	67		Pan / Tilt Speed	X	0
		0-225	Max → Min Speed		
		226-235	Blackout by movement		
		236-245	Blackout by wheel changes		
		246-255	No function		

DMX TRAITS

Features subject to change without notice					
MODE/CHANNEL		VALUE	FUNCTION	DEFAULT	SNAP
STANDARD	EXTENDED				
43	68		**Control**	X	0
		0-19	Wheel Snap		
		20-29	Color Wheel Fade		
		30-39	Color/Gobo Wheel Fade		
			Fan Mode		
		40-44	Mute		
		45-49	Studio		
		50-59	Low		
		60-69	High		
		70-79	Auto (default)		
			Reset		
		80-84	Fixture		
		85-87	Pan Tilt		
		88-90	Color		
		91-93	Gobo		
		94-96	Focus Zoom		
		97-99	Other Features		
			Refresh Rate (Hz)		
		100	900		
		101	910		
		102	920		
		103	930		
		104	940		
		105	950		
		106	960		
		107	970		
		108	980		
		109	990		
		110	1000		
		111	1010		
		112	1020		
		113	1030		
		114	1040		
		115	1050		
		116	1060		
		117	1070		
		118	1080		
		119	1090		
		120	1100		
		121	1110		
		122	1120		
		123	1130		
		124	1140		
		125	1150		
		126	1160		
		127	1170		
		128	1180		
		129	1190		
		130	**1200 (default)**		
		131	1210		
		132	1220		
		133	1230		
		134	1240		

DMX TRAITS

Features subject to change without notice					
MODE/CHANNEL		VALUE	FUNCTION	DEFAULT	SNAP
STANDARD	EXTENDED				
		135	1250		
		136	1260		
		137	1270		
		138	1280		
		139	1290		
		140	1300		
		141	1310		
		142	1320		
		143	1330		
		144	1340		
		145	1350		
		146	1360		
		147	1370		
		148	1380		
		149	1390		
		150	1400		
		151	1410		
		152	1420		
		153	1430		
		154	1440		
		155	1450		
		156	1460		
		157	1470		
		158	1480		
		159	1490		
		160	1500		
43	68	161	2500	X	0
		162	4000		
		163	5000		
		164	6000		
		165	10000		
		166	15000		
		167	20000		
		168	25000		
		169-170	Gobo Color Correction disable		
		171-172	Gobo Color Correction enable (default)		
		173-174	Hibernation Off		
		175-176	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		
		241-243	Idle		
		244-245	Display Off		
		246-247	Display On		
		248-249	Cmy Smooth		
		250-251	Cmy Fast		
		252-255	Idle		

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 device to be managed, modified, and monitored remotely (hence, remote device management). This protocol is ideal for fixtures installed in locations that are 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 it's 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
0X667	OPEN	1639	OPEN

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:

LED FIXTURE	
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
0x0600	Pan Invert
0x0601	Tilt Invert
0x0500	Display Invert

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 “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 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.

Error Codes subject to change without notice	
ERROR CODES	**DESCRIPTION**
Pan Tilt Cyan Megenta Yellow CTO CTB Color Wheel Gobol Gobol_ROT Gobo2 Gobo2_ROT Fixed_Gobo Focus Zoom Prism1 Prism_Rot1 Prism2 Prism_Rot2 Frost1 Frost2 Iris Animation AnimationRot Blade_Rot LED Temp Error Head Temp Error Base Temp Error 3UHeadFan1 Error 3UHeadFan2 Error 3UHeadFan3 Error 3UHeadFan4 Error 3UHeadFan5 Error 5UHeadFan1 Error 8UHeadFan1 Error 11UHeadFan1 Error 11UHeadFan2 Error 11UHeadFan5 Error 11UHeadFan6 Error Base Fan1 Error Base Fan2 Error Base HD Warning. Base HD Higher. Head HD Warning. Head HD Higher. Base HD Error. Head HD Error.	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).

MAINTENANCE GUIDELINES

SPECIALIZED OPS MAINTENANCE

Fixtures in Elation Lighting's OPS Series are high-performance, IP-rated moving light fixtures designed for professional use in extreme conditions. To maintain peak performance and ensure maximized longevity, regular maintenance and proper operational practices are essential. This section provides guidance on maintenance schedules, best practices for cleanliness, and duty cycle recommendations. Please refer all service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from an authorized Elation dealer.

Weekly Maintenance

- Clean the external housing using a soft cloth with mild detergent.
- Inspect the cooling fans and vents for dust buildup and clean as needed.
- Perform a quick function test (pan, tilt, color, gobo, zoom, focus, etc.).

Monthly Maintenance

- Inspect and clean the lens assembly with an approved optical-grade lens cleaner.
- Check all moving parts for smooth operation and apply manufacturer-approved lubricants if necessary.
- Inspect gobo wheels, color wheels, and effects for dust accumulation.
- Check firmware versions and update if needed.

Quarterly Maintenance

- Open fixture housing and inspect for internal dust buildup. Please note that any IP-rated areas must be resealed properly during re-assembly.
- Verify that seals and gaskets maintain IP rating integrity.
- Tighten any loose screws or fasteners.
- Test fixture for proper operation in extreme conditions (if applicable to the environment).

Annual Maintenance

- Perform a full diagnostic check using the fixture's built-in test functions.
- Disassemble and clean optical components, ensuring all are free of residue or buildup.
- Replace any worn-out gaskets, filters, or seals.
- Perform a full recalibration of pan/tilt and effect mechanisms.
- Check internal power supply and ballast for any irregularities.

Indicator LEDs

This fixture features an LED light that indicates fixture status as follows:

- Green: Fixture is working normally.
- Blinking Yellow: Fixture is in the process of resetting, or is receiving a software update.
- Red: Fixture is experiencing an error.

MAINTENANCE GUIDELINES

BEST PRACTICES FOR CLEANING

To maintain optimal performance and prevent premature damage, adhere to the following guidelines:

General Cleaning Guidelines

- Always power down the fixture and disconnect the power cord before cleaning.
- Use a soft, lint-free cloth with mild detergent for external surfaces.
- For internal cleaning, use compressed air to remove dust from sensitive areas.
- Avoid using alcohol-based or abrasive cleaners on optical components.

Lens and Optical Component Care

- Use a microfiber cloth and lens-specific cleaner to remove smudges and dust.
- Avoid touching the lens directly with your fingers, as doing so can leave oil residue on the lens.
- Check for condensation inside the lens and ensure proper ventilation.

Protecting Against Environmental Damage

- When installed in extreme environments, more frequent maintenance will be required.
- For long-term storage, use protective covers to prevent dust accumulation.
- After use in high humidity environments, ensure the fixture is completely dry before it is packed away for storage or transporation.

DUTY CYCLE USAGE AND THERMAL MANAGEMENT

Proper usage will maximize the longevity of OPS fixtures, and adhering to duty cycle guidelines helps prevent overheating and component wear.

Recommended Duty Cycles

- Continuous Operation: OPS fixtures are **NOT** designed for 24/7 operation, and require periodic cooling intervals in high-heat environments. No more than 12 hours per day of operation should be allowed.
- Intermittent Use: When used in show environments with frequent starts/stops, allow for cool-down intervals in order to maintain optimal performance.
- Extreme Weather Use: Ensure fixtures are adequately ventilated and monitored for any excessive moisture ingress.

Thermal Protection Measures

- Monitor temperature warnings via RDM or NFC Aria X2.
- Ensure unobstructed airflow around the unit.
- If running fixtures in direct sunlight, utilize shading to reduce the thermal impact.

SPECIFICATIONS

SOURCE
580W 6,500K Bright White Peak Field LED Engine
30,000 Hour Average LED 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
33,500 Total Lumen Fixture Output
CRI 71+ (85+ with HCRI Filter)
2.5:1 Hotspot Ratio
Zoom Range 5.5° - 50°
Beam Angle 6° - 36.7°
Field Angle 7.6° - 51.3°

EFFECTS
Motorized Zoom
4 Rotating Full Blackout Framing Blades
+/-45° Framing Indexing
Full 360° Bi-Directional Animation Wheel
4-Facet and Linear Rotating Prisms
2 Variable Frost Filters (Light and Wash)
Internal Color, Framing, Prism, and Frost Macros
Motorized Iris with Variable Pulse Effects
Variable 16-bit Dimming Curve Modes
High Speed Electronic Shutter and Strobe
DMX Controllable LED Refresh Rate
Pan Angle: 540°
Tilt Angle: 250°

COLOR
CMY Color Mixing
Linear CTO Color Correction
5 Dichroic Colors including High CRI Filter

GOBOS
3 Gobo Wheels
6 Rotating Gobo (Wheel #1)
7 Rotating Gobos (Wheel #2)
7 Static Gobos (Wheel #3)

CONTROL / CONNECTIONS
2 DMX Channel Modes (43/68 Ch.)
DMX and RDM Protocol Support
(4) Button Touch Control Panel
Full Color 180° Reversible LCD Menu Display
NFC Support
10’ (3m) DMX In/Out combo cable
10’ (3m) Power cable

SIZE / WEIGHT
Length: 18.41 in (468mm)
Width: 14.6 in (370mm)
Height: 26.8in (682mm)
Center-to-Center Spacing 24.6in (626mm)
Weight: 89.9 lbs. (40.8 kg)

EXTERIOR FINISH
RAL9016 (custom colors available on request)
CX Extreme Marine Grade Coating
Stainless Steel 316 Fasteners

ELECTRICAL
AC 100-240V 50/60Hz
Max Power Consumption 1000W
-4° to 113°F (-20°C to 45°C)
BTU/hr (+/- 10%) 3239.5

INCLUDED ITEMS
Omega Brackets (x2)
Safety Cable

APPROVALS / RATINGS
CE | cETLus | FCC | IP66

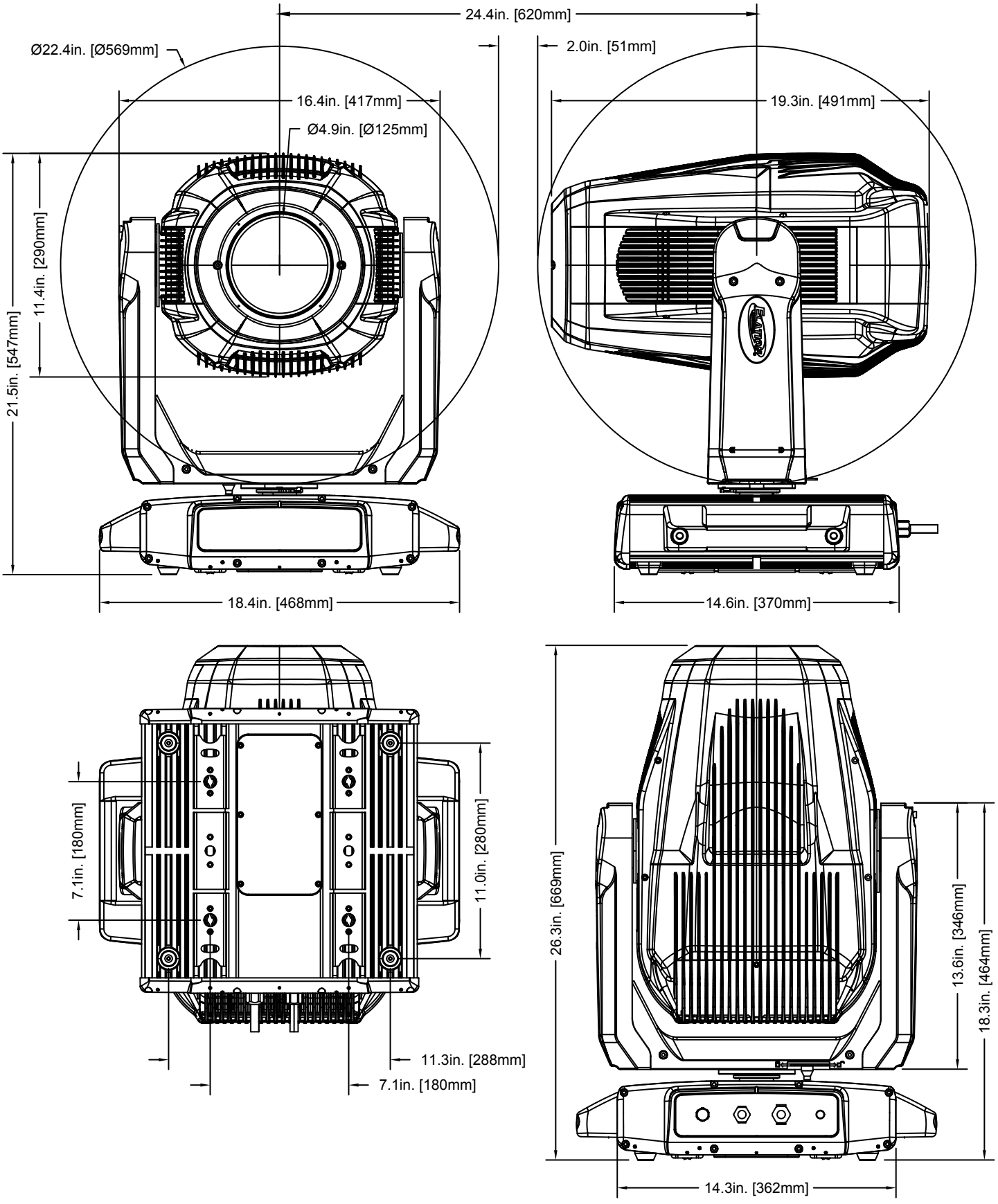
Intertek
4010832

IP66

Specifications and documentation subject to change without notice.

DIMENSIONS

*Drawings not to scale.



OPTIONAL ACCESSORIES

ORDER CODE (US)	ORDER CODE (EU)	ITEM
PRL734	N/A	Proteus Lucius OPS
TRIGGER CLAMP	1741000032	Heavy Duty Wrap Around Hook Style Clamp

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.
- •ncrease 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!