

ELATION®



 **PAR IP COMPACT OPS**
user manual

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DOCUMENT VERSION



Due to additional product features and/or enhancements, an updated version of this document may be available online. Please 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
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04/21/2026	1.2	N/C	No Change	Updated Dimensional Drawings, Specifications
05/07/2026	1.3	N/C	No Change	Updated: Overview, Accessory Installation, Torque Settings for Screws

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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.

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

Safety Cable (x1)	MFL-30 Lens (x1)
VNSP-11 Lens (x1)	WFL-52 Lens (x1)
NSP-22 Lens (x1)	Gel Frame (x1)

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

It is strongly recommended to power the fixture down completely when not in use. Doing so will reduce wear on the fixture due to sustained or extended operational periods, thereby maximizing its operational lifespan.

IP65 RATED - OPS

The International Protection (IP) rating system is commonly expressed as “IP” (Ingress Protection) followed by two numbers (i.e. IP65), where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture, and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. An **IP65** rated lighting fixture is designed and tested to protect against the ingress of dust (**6**), and low-pressure water jets from any direction (**5**).

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.

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 manufacturer's warranty and increase the risk of damage and/or personal injury.



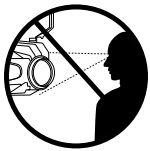
PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.



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 MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.



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



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

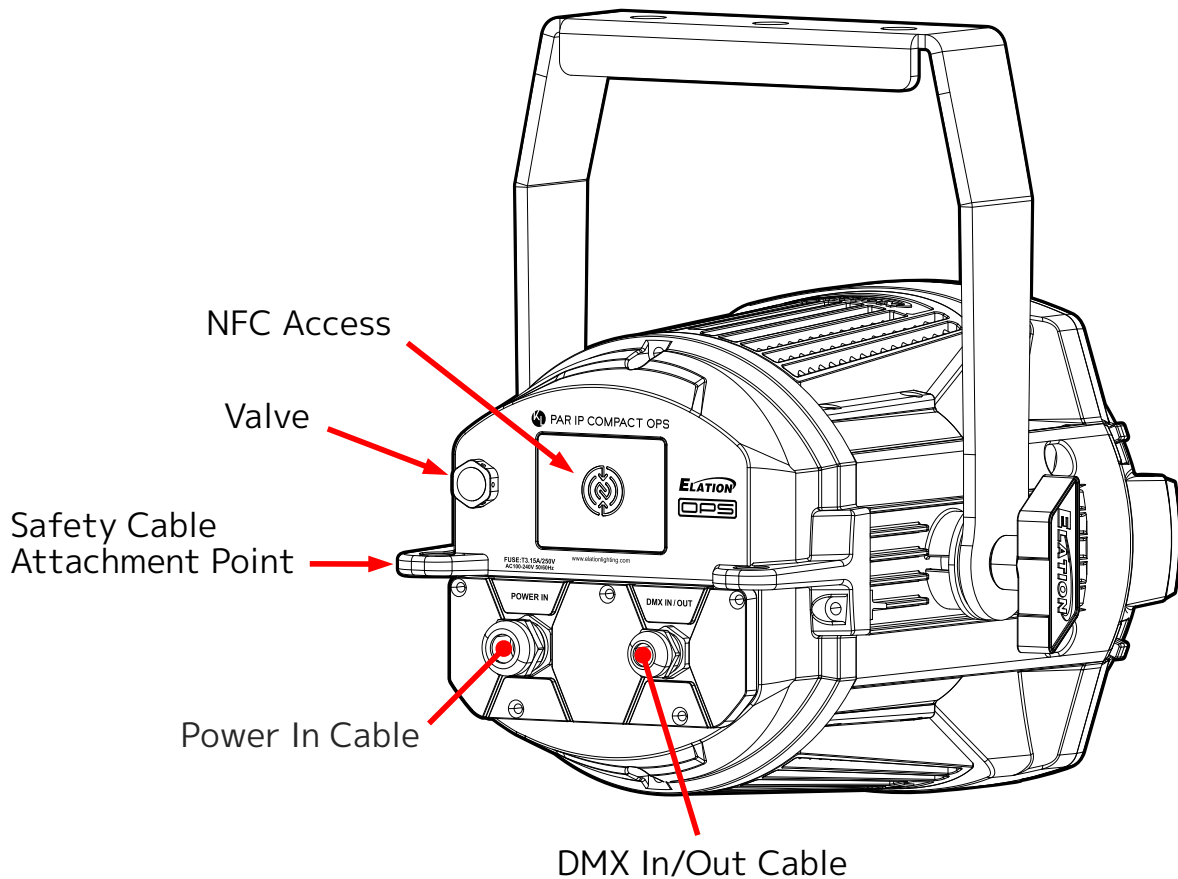
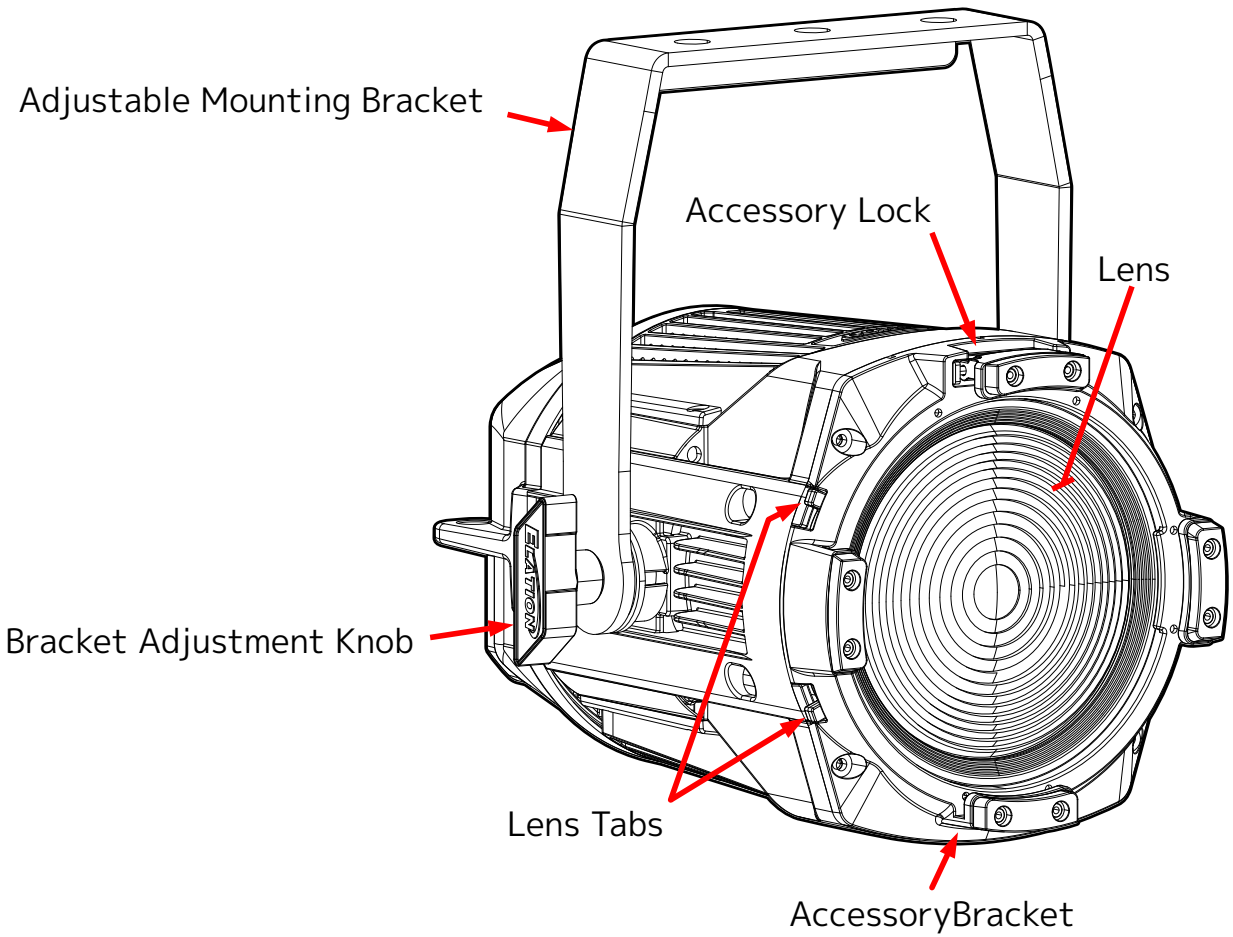


**MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 1 FOOT (0.3 METERS)
AMBIENT OPERATING TEMPERATURE RANGE IS 5°F TO 113°F (-15°C TO 45°C)
MINIMUM DISTANCE OF FLAMMABLE MATERIALS FROM THE SURFACE 3.2 FEET (1 METER)**

SAFETY GUIDELINES

- **DO NOT** shake fixture, and avoid using brute force when installing and/or operating the fixture.
- **DO NOT** operate the fixture if the power cord is frayed, crimped, damaged, and/or if any of the power cord connectors are damaged and do not plug 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 the same power rating.
- **DO NOT** block any air ventilation slots.
- All fan and air inlets must remain clean and never blocked.
- Leave approx. 6" (15cm) between the fixture and other devices or a wall in order to allow for proper cooling.
- Always disconnect the fixture from the 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 on the wire portion of the cord.
- If this fixture is installed in an overhead position with the optional gel frame or barndoors fitted, the fixture must be positioned with the lens frame latch oriented upward. Doing so will ensure that the gel frame or barndoor assembly will not fall in the event that the latch fails.
- 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. This 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 for service.
- The luminaire is intended for professional use only.
- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or similar qualified person
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 2.6m is not expected.

OVERVIEW



TORQUE SETTINGS FOR SCREWS

IN ORDER TO MAINTAIN THE IP65 RATING ON THE LIGHTING FIXTURES, ALL SCREWS MUST BE TIGHTENED TO THE FOLLOWING TORQUE SPECIFICATION USING A TORQUE DRIVER.

Refer to the table and diagram below for torque specifications.

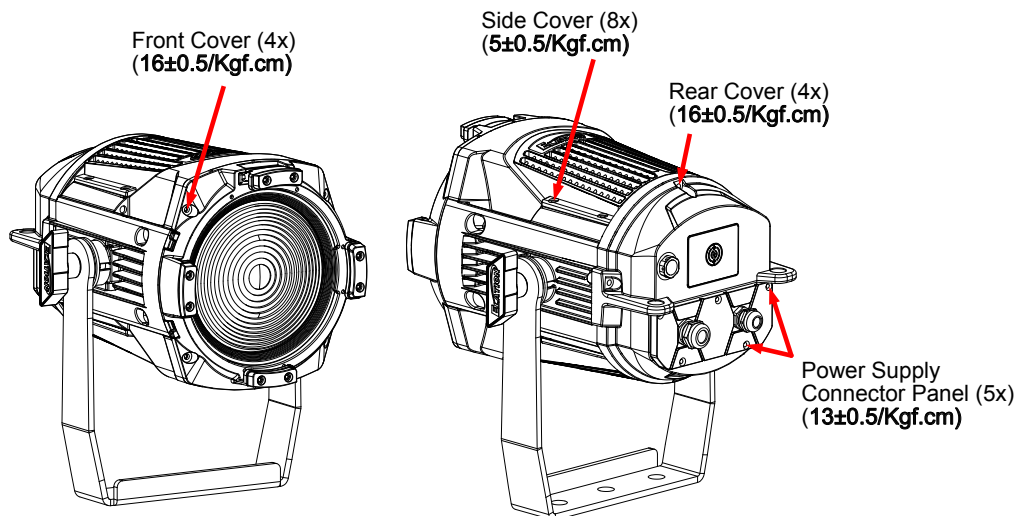
TORQUE DRIVERS (Recommended): UTICA TS-30 (shown)

ALTERNATE DRIVERS:

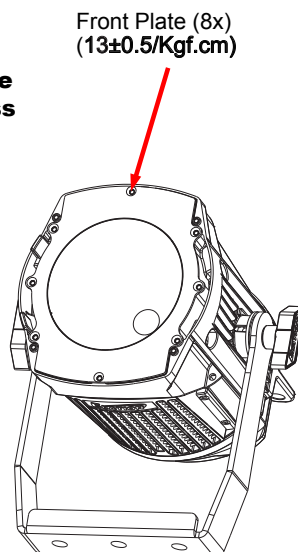
- Proto J6107A
- Wiha 28887



CAUTION! DO NOT OVER TORQUE SCREWS, AS THIS CAN CAUSE LEAKAGE ISSUES!

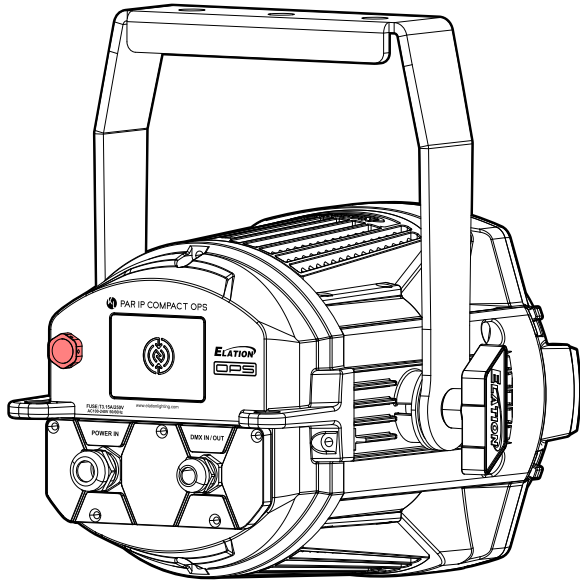


NOTE: Front Cover must be removed in order to access Front Plate



IP TEST PARAMETERS

Following any repair or maintenance procedure that requires disassembly of the fixture, use Elation’s IP Tester to confirm the IP integrity of the fixture. This fixture features two air valves: one on the front of the unit beside the lens, as well as one on the rear panel beside the control panel. Air valve locations are shown in the diagram below. Please contact Elation Service for information regarding the Elation IP Tester, or visit the product information page online at: <https://www.elationlighting.com/ip-tester>



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 PROXIMITY TO THE LENS OF THE FIXTURE WHILE PERFORMING THE TEST!

DE-HUMIDIFICATION: IP65 fixtures operating in high-humidity environments may experience residual fogging or condensation. Such fogging will not affect the fixture, and can be removed using the following procedure: position the unit with the air valve pointing upwards, then open the air valves and run the unit for 1-2 hours after reaching operating temperature. Then, while the fixture is still hot, re-install the air valve and allow the unit to cool down. Please note: this procedure should be performed in a dry, climate-controlled environment. Avoid additional fogging by drying the fixture completely before placing into a road case.



IP PRESSURE TESTING PARAMETERS					
Low Pressure Limit	High Pressure Limit	Inflation Time	Equilibrium Time	Detection Time	Acceptable Leakage
2.901 psi (20.0 KPa)	3.336 psi (23.0 KPa)	30 sec	15 sec	15 sec	0.015 psi (0.1 KPa) (100 Pa)

INSTALLATION GUIDELINES



FLAMMABLE MATERIAL WARNING

Keep fixture minimum 1.6 feet (0.5m) 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 SURFACES/OBJECTS IS 1 FOOT (0.3 METER).
MINIMUM DISTANCE TO FLAMMABLE MATERIALS IS 1.6 FEET (0.5 METER).
AMBIENT TEMPERATURE RANGE IS 5° F TO 113° F (-15° 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 is intended for installation in dry, indoor environments only! Damage resulting from exposure to rain or moisture will void your manufacturer's warranty.

Fixture ambient operating temperature range is **5°F to 113°F (-15°C to 45°C)**. Do not operate the fixture when the ambient temperature falls outside of this range.

Fixture(s) should be installed away from walking paths, seating areas, or areas where unauthorized personnel might reach the fixture by hand.

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

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

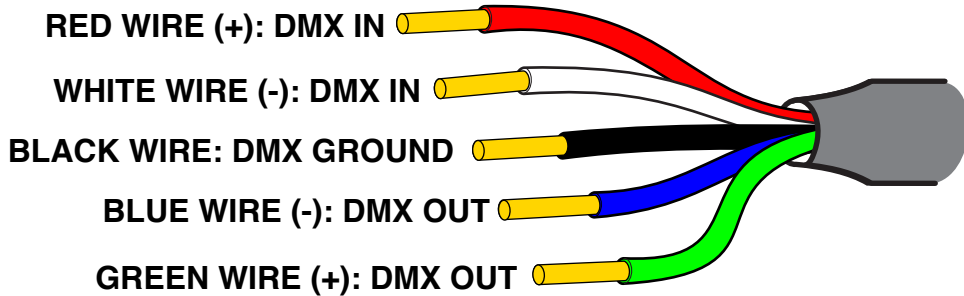
If this fixture is installed in an overhead position with the optional gel frame or barndoors fitted, the fixture must be positioned with the lens frame latch oriented upward. Doing so will ensure that the gel frame or barndoor assembly will not fall in the event that the latch fails.

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

Powering down the fixture when not in use is strongly recommended.

INSTALLATION GUIDELINE

DMX Hardwire Guidelines for OPS Installation (IP65-rated)



Power Connection

Connect In/Out to 100–240VAC 50/60Hz overload-protected supply. Use surge protection to safeguard control and power electronics.

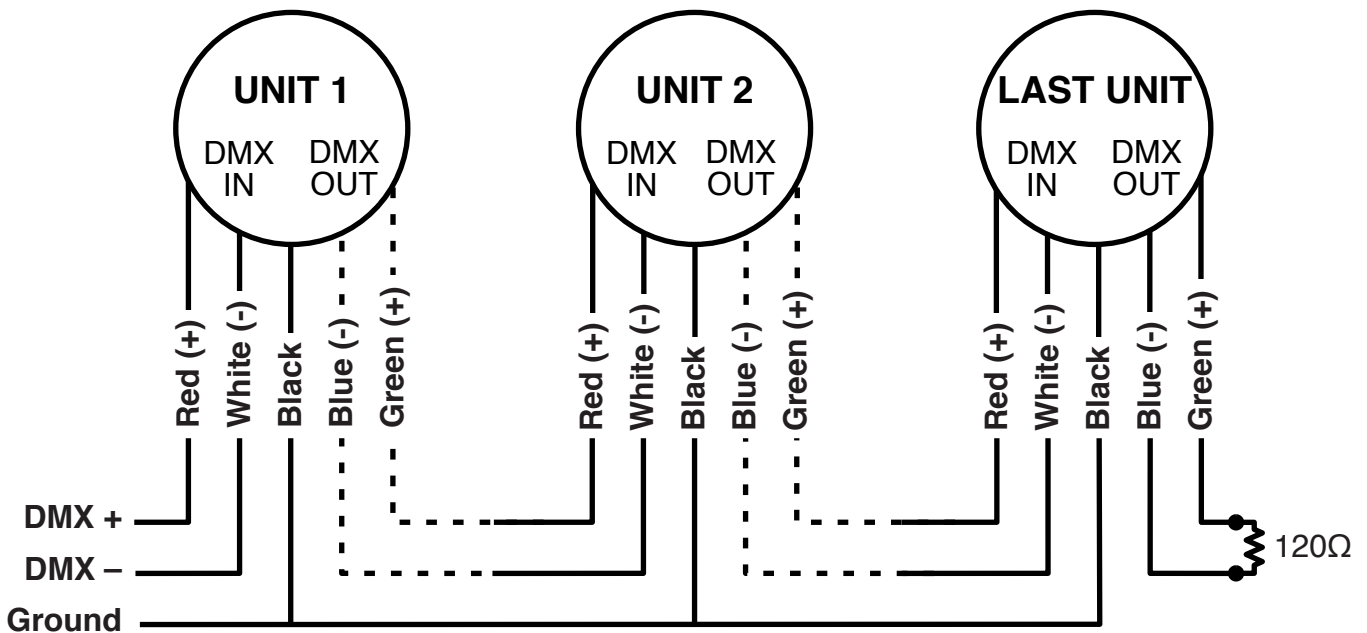
In-Rush Current

LED fixtures exhibit brief in-rush current on power-up due to switching power supplies. Limit fixtures per power input to avoid over-current trips (refer to model-specific manual for power ratings and derating).

Wired DMX Control

For custom hardwire installations, use shielded twisted-pair RS-485 cable (120 Ω impedance, e.g., Belden 9841). Daisy-chain as shown. Install 120 Ω terminator across DMX + and DMX – at the last fixture.

DMX Wiring Diagram



DMX Best Practices

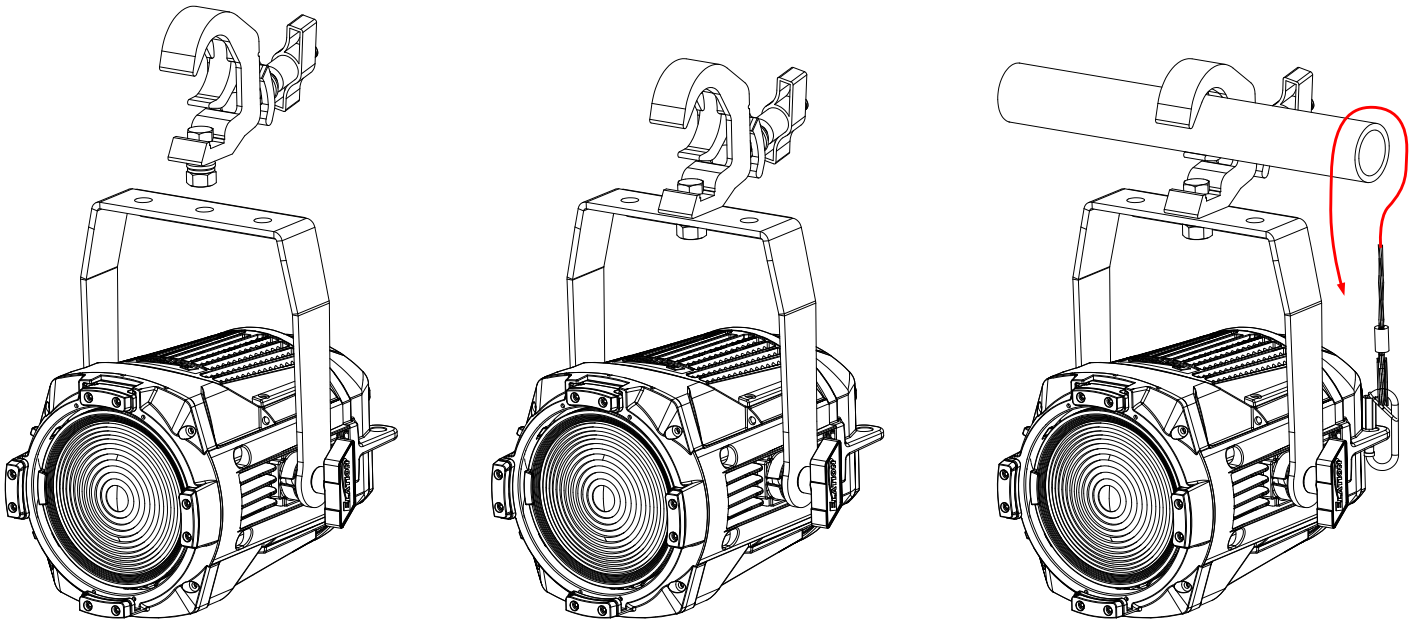
- Use 120 Ω twisted-pair shielded cable
- Always terminate last fixture with 120 Ω resistor
- No passive Y-splits; use powered splitter/buffer if needed
- Never cross DMX + and DMX –

Installation Requirements

- Use overload-protected supply
- Seal all cable access points and enclosures
- Follow local codes during planning and installation
- Use suitable connectors in junction boxes
- Connections must be made, inspected, and certified by a qualified electrician

INSTALLATION GUIDELINES

CLAMP INSTALLATION: Insert a bolt of appropriate size and rating for the desired clamp (not included) through the mounting hole of the clamp and into the center mounting hole on the fixture's yoke. Thread a matching washer and locking nut onto the bolt to securely attach the clamp to the yoke.



ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS. ONLY USE DESIGNATED RIGGING POINTS FOR SAFETY CABLE, AND NEVER ATTACH A SAFETY CABLE TO A CARRYING HANDLE.



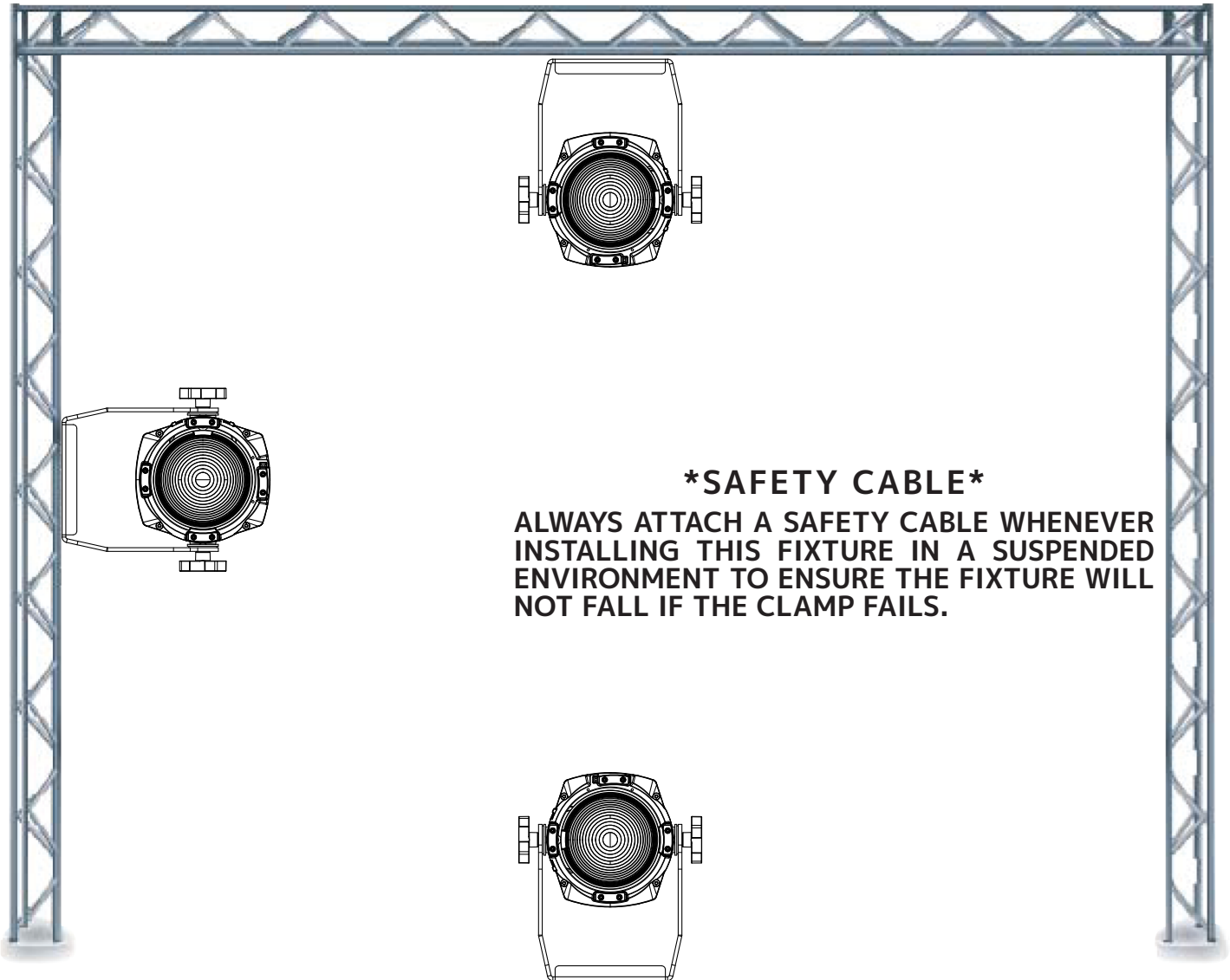
IF THE FIXTURE IS FITTED WITH THE OPTIONAL GEL FRAME OR BARNDOOR ASSEMBLY, THE FIXTURE MUST BE ORIENTED WITH THE LATCH FACING UPWARDS. THIS IS TO PREVENT THESE ACCESSORIES FROM FALLING IN THE EVENT THAT THE LATCH FAILS.

INSTALLATION GUIDELINES

RIGGING

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

The fixture is fully operational in the following positions: hanging from a horizontal truss, suspended sideways from a vertical truss, or standing upright on a flat, level surface. See the illustration below for reference.



ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS. ONLY USE DESIGNATED RIGGING POINTS FOR SAFETY CABLE, AND NEVER ATTACH A SAFELY CABLE TO A CARRYING HANDLE.



IF THE FIXTURE IS FITTED WITH THE OPTIONAL GEL FRAME OR BARNDOOR ASSEMBLY, THE FIXTURE MUST BE ORIENTED WITH THE LATCH FACING UPWARDS. THIS IS TO PREVENT THESE ACCESSORIES FROM FALLING IN THE EVENT THAT THE LATCH FAILS.

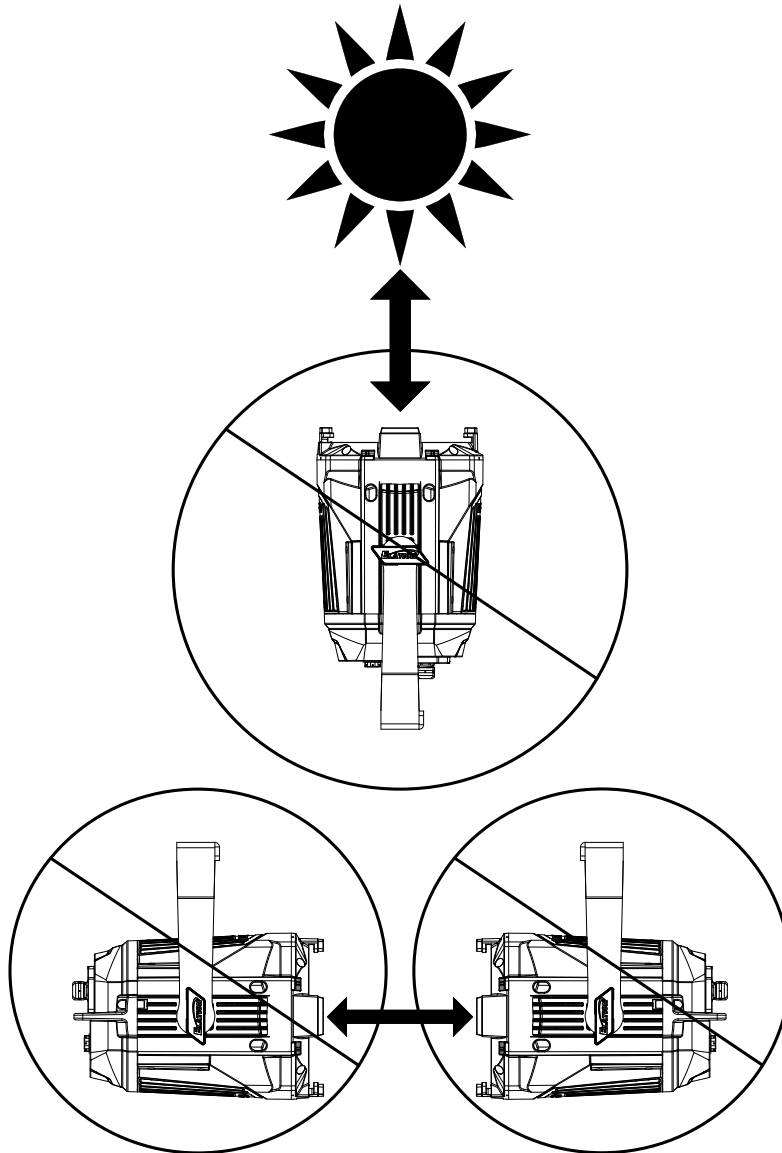
INSTALLATION GUIDELINES

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.

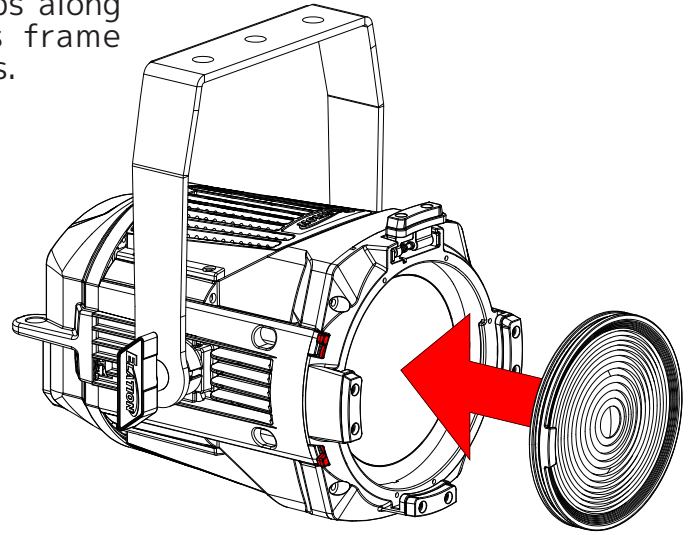
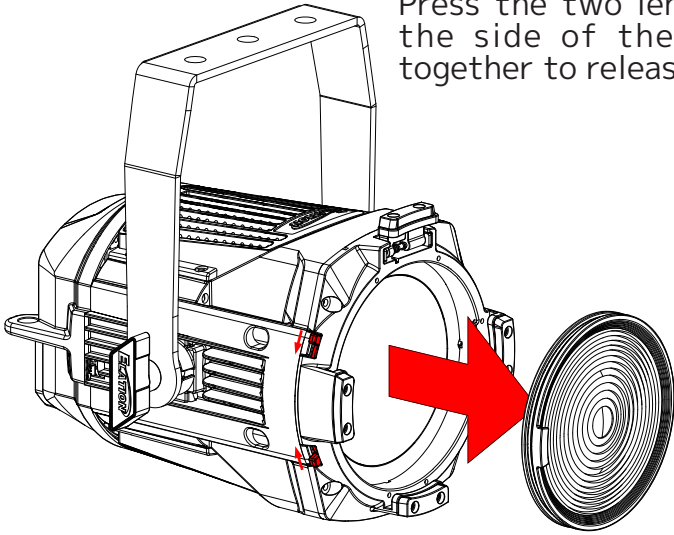
This issue is not specific only to Elation lighting fixtures, but rather it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can reduce the risk of potential damage. Contact Elation Service for more details.

DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER FIXTURES, OR LASERS UNDER ANY CIRCUMSTANCES. PLEASE NOTE THAT THIS INCLUDES EXTENDED PERIODS OF NON-USE, AS DAMAGE CAN OCCUR EVEN WHEN THE FIXTURE IS OFF. NEVER FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.



ACCESSORY INSTALLATION - LENSES

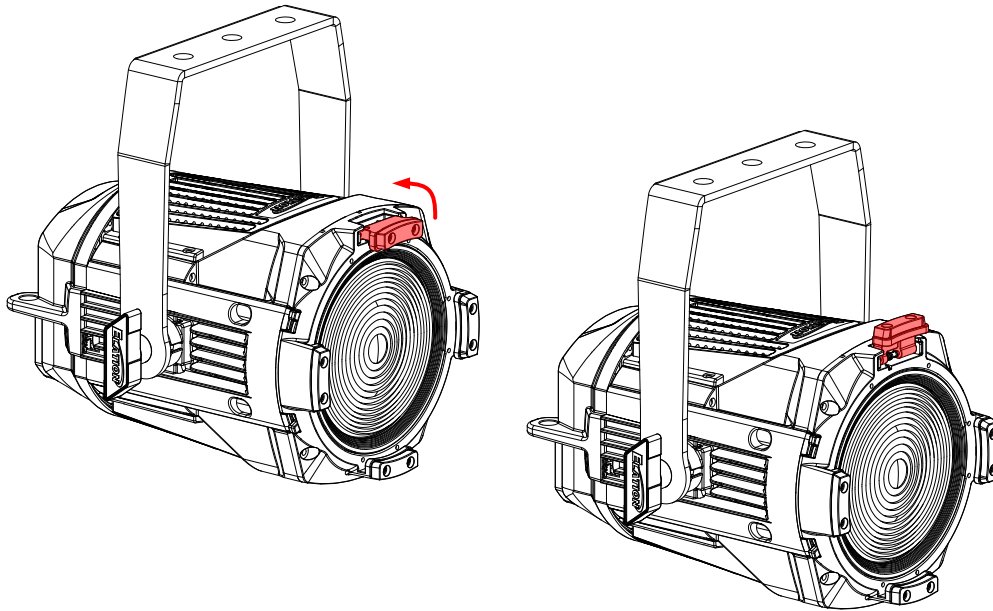
Press the two lens tabs along the side of the lens frame together to release lens.



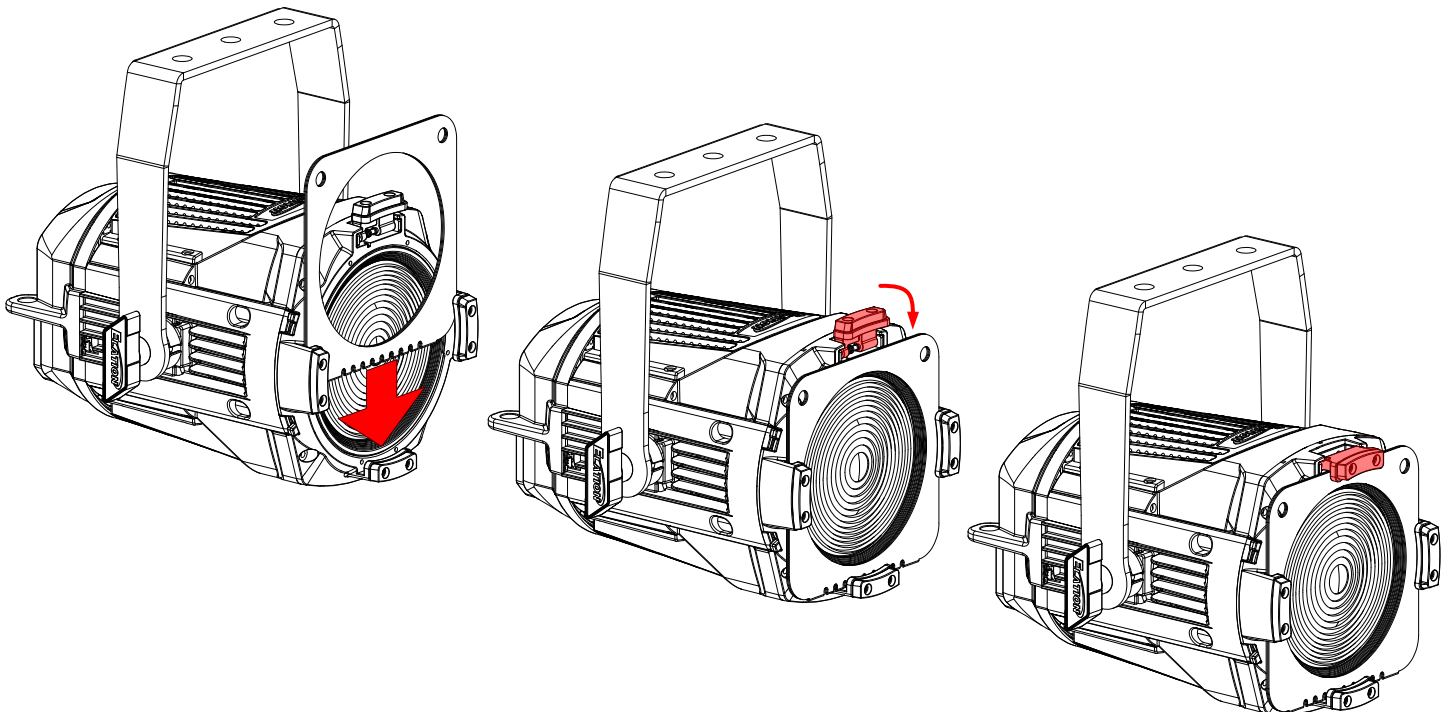
Remove lens and install replacement lens.

ACCESSORY INSTALLATION - GEL FRAME

1. Position the fixture with the lens facing towards you and the Accessory Lock oriented upwards. Lift the Accessory Lock 90° to open it.



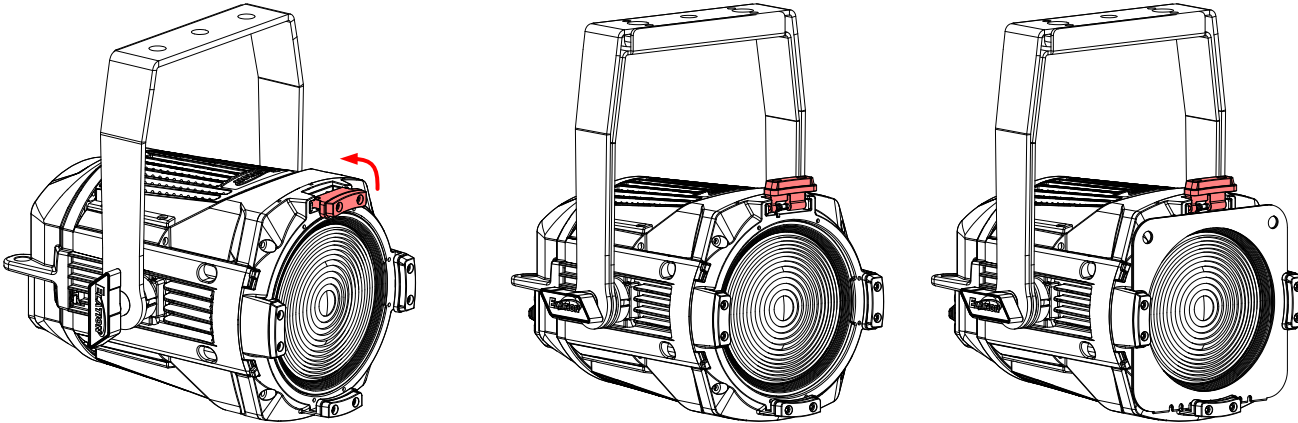
2. Slide the gel frame into place in the Accessory slot. Close the Accessory Lock.



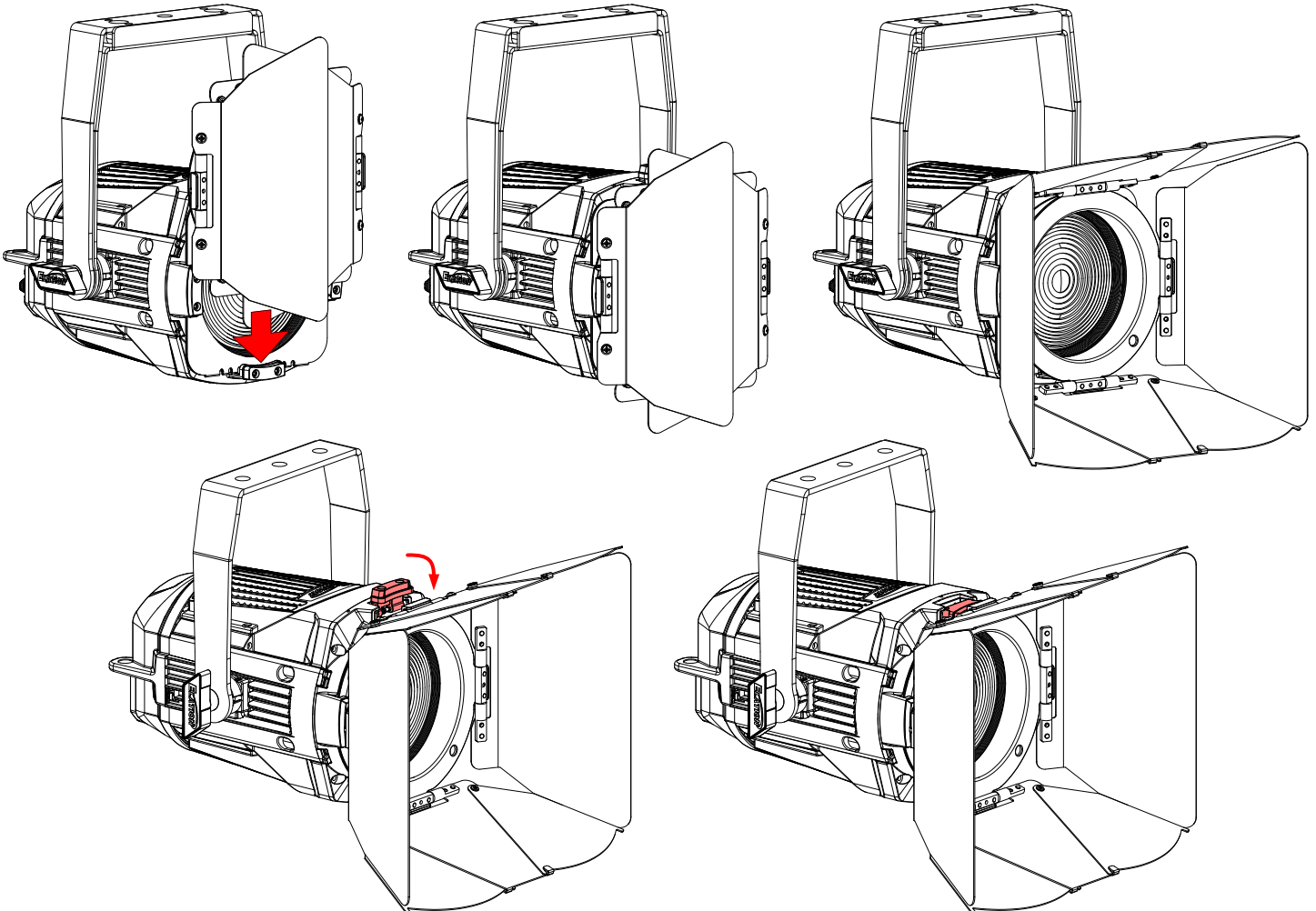
IF THE FIXTURE IS FITTED WITH THE OPTIONAL GEL FRAME OR BARNDOR ASSEMBLY, THE FIXTURE MUST BE ORIENTED WITH THE LATCH FACING UPWARDS. THIS IS TO PREVENT THESE ACCESSORIES FROM FALLING IN THE EVENT THAT THE LATCH FAILS.

ACCESSORY INSTALLATION - BARNDOORS

1. Position the fixture with the lens facing towards you and the Accessory Lock oriented upwards. Lift the Accessory Lock 90° to open it.



2. Slide the barndoors into place in the lens frame slot. If the gel frame has been installed, make sure that the barndoor is installed in front of the gel frame. Close the Accessory Lock and open the Barndoor panels outward.



IF THE FIXTURE IS FITTED WITH THE OPTIONAL GEL FRAME OR BARNDOOR ASSEMBLY, THE FIXTURE MUST BE ORIENTED WITH THE LATCH FACING UPWARDS. THIS IS TO PREVENT THESE ACCESSORIES FROM FALLING IN THE EVENT THAT THE LATCH FAILS.

NEAR FIELD COMMUNICATION (NFC)

Near Field Communication (NFC) is a short-range wireless technology, operating at 13.56 MHz, that enables secure data exchange between devices within a proximity of 6-inches. With NFC, one can use an Android or iOS device to configure an NFC compatible fixture. NFC has three modes of operation: Reader/Writer Mode, which allows an NFC device to read or write data to an NFC tag; Peer-to-Peer Mode, enabling data exchange between two NFC devices; and Card Emulation Mode, which lets an NFC device emulate a contactless smart card. The technology is built on RFID standards, including ISO/IEC 14443 and ISO/IEC 18092, ensuring compatibility between NFC devices. Despite its lower data transfer rates compared to Wi-Fi or Bluetooth, ranging from 106 kbps to 424 kbps, NFC incorporates encryption and authentication protocols. NFC tags on lighting fixtures simplify setup and adjustments, and aid in tracking and maintenance when integrated into lighting equipment.

NFC Setup and Usage

- Enable NFC: Activate NFC on both the control device and the fixture.
- Physical Proximity: Bring the control device near the designated NFC area of the fixture indicated by the NFC directional mark shown here.



- Initiate Connection: The NFC-enabled device should automatically detect the fixture, prompting a connection notification.
- Confirmation: Accept the connection request to establish a link between the control device and the fixture.
- Configuration Options: Adjust lighting settings, presets, and modes via the control device, depending on fixture capabilities.
- Data Exchange: Use NFC to transfer presets, scenes, and firmware updates between devices, simplifying data sharing.

Tips for Successful NFC Interaction

- Proximity: Maintain a short-range distance, within 6-inches, between the control device and the indicated NFC area of the fixture.
- Device Compatibility: Ensure your device supports NFC, and has the necessary apps for interaction.
- Interference: Avoid obstacles between the devices, like metal objects, to ensure smooth communication.
- Security: Disable NFC when not in use for added security against unauthorized access.

ARIA SETUP AND GUIDELINES

This fixture is equipped with Aria X2. Please note that Aria's wireless functions are switched off by default. Activate Aria X2 and Bluetooth in the system menu to take advantage of the fixture's wireless feature set for wireless connectivity and over the air software updates.

2.4GHZ Versus Sub-Gig (GHz) Frequencies:

Sub-GHz frequencies provide superior reliability and range compared to higher frequencies, making them perfect for consistent communication across vast distances or in difficult conditions. Devices operating in the sub-GHz range, which refers to frequencies below 1 GHz, can transmit signals over significant distances and can penetrate physical barriers such as walls and buildings more effectively. Additionally, these frequencies experience less interference compared to those in the heavily congested 2.4-GHz band, which is commonly used by wireless devices.

In the United States, the 900 MHz band is a versatile frequency range that is utilized by various services, with the FCC overseeing its allocation and regulation.

In the European Union, the 868 MHz frequency is designated by ETSI as the Sub-Gig frequency.

In summary, if an application demands high data rates and more bandwidth in urban or densely populated areas where interference management is feasible, the 2.4 GHz frequency is a suitable choice. On the other hand, for applications requiring long-range communication and better obstacle penetration, particularly in rural or industrial settings with fewer regulatory constraints, a sub-GHz frequency (<1 GHz) is a better option.

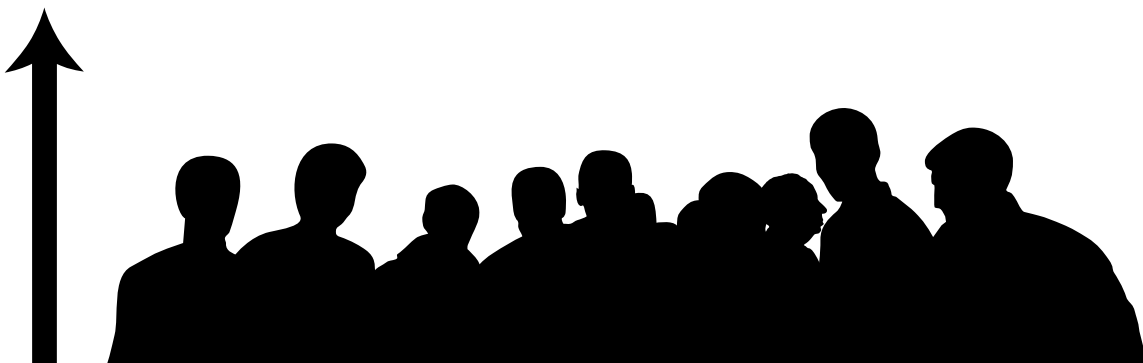
Installation Recommendations:

With the many factors that affect and/or interrupt a wireless signal such as walls, glass, metal, objects, and people, it is highly recommended to:

- Install devices a minimum of 9.8 ft. (3m) above audiences and/or ground level where practical.
- Adjust the wireless antenna in a vertical upright position
- Position devices in direct line of sight of the controlling device

Careful planning and testing of the selected installation location is critical to ensure optimum and reliable wireless operation.

**9.8 ft (3m)
Above Ground**



ARIA SETUP AND GUIDELINES

GENERAL INFORMATION

The Aria Bluetooth app has the ability to connect wirelessly to any device that has Aria wireless DMX installed and has Bluetooth enabled.

Before installing the fixture in a remote location, double check that the fixture's main power is switched on, and that the Bluetooth function has been enabled in the fixture's system menu. Certain fixtures may have Bluetooth disabled by default. If this function is disabled, then the fixture cannot be configured remotely using the Aria app, and will have to be configured directly from the fixture's control screen.

Additionally, the user should consider setting the fixture's No DMX setting to "Hold Last". This will allow the fixture to continue running using the current settings, even if the Aria app device moves out of range, the app is closed, or the signal is otherwise interrupted, minimizing disruption in the operation of the fixtures.

LEGACY DEVICES

Please note that legacy connected devices, such as those using Wifly, E-Fly, or Magfly, are not compatible with this app. For such legacy devices, the use of a bridge is recommended, as the bridge can communicate with these devices via its SM220 protocol.

The Aria X2 BLE app is currently available from the Apple app store.

FIXTURE IDENTIFICATION

Aria compatible devices can be identified and connected via the Fixtures tab in the app. This tab displays a field of twenty-four buttons that can be assigned to Aria compatible devices that are within range, and the buttons will automatically be assigned to devices in the order in which they are discovered. If more than twenty-four units are within range, it may be necessary to use the filter feature to search for the desired fixture. Button location can be edited by selecting the configuration key, then the user can drag and drop the buttons to the desired location and hit save to keep changes. Once a device is known to the app, it can also be assigned to a particular button. From that point forward, the assigned device will always be assigned to that button location.

IMPORTANT NOTE: For version 0.65 or higher, a shared system password is required to connect to any device.

Unlike wireless DMX, Bluetooth is a connect first protocol. To connect to a device or fixture, tap the assigned button in the **Fixtures** tab. If the connection is successful, a green frame will appear around the button, indicating that the app was able to retrieve the current channel values from the fixture. The app must be connected to a fixture in order to use its channel controls or view and change settings. Please note that not all Aria devices have channel controls.

Additionally, each fixture can only be connected to one device with the app at any given time. Once a fixture is connected to the app installed on one device, any other devices will be blocked from connecting. As a result, when setting up a new fixture for the first time, best practice is to have only a single user with the app open within range, in order to ensure that the fixture pairs to the intended user's device.

ARIA SETUP AND GUIDELINES

The second table section shows all Aria devices detected in range. A checkmark indicates the device is currently assigned to a button. If more than 24 devices are within range, the user may remove or add devices to the buttons list by tapping a row to check or uncheck a device. If all buttons are full, it will be necessary to uncheck a device before adding another.

Filter: The user can filter which Aria devices get button assignments by tapping “filter” at the top of the view. A popup will appear where the user can enter text to filter devices by username, model name, or manufacturer. **Please note that these searches are case sensitive.**

Note: If a device shows an asterisk (*) it means that there is no fixture profile currently available, and therefore there will be limited support available for that device. The user will still be able to connect and adjust channels if the device supports that feature, but the user will not be able to view how many channels the device has or the channel names.

SECURITY

Each fixture must have a password saved to be secure. When a new fixture is installed for the first time, its password will automatically be set to the app’s system password on first connection. Once the password has been entered, the user will need to exit out to the main page containing the fixture buttons, then de-select and re-select the fixture to lock in the password. From that point forward only, controlling devices that use the correct password can connect to this fixture. **This security is now required by law in most jurisdictions.**

The app will detect any Aria capable fixture within range, even if the app does not have the password to that fixture and therefore cannot access that fixture. If that fixture is selected in the app, the green frame will momentarily appear around that fixture’s button, but then disappear. This indicates that the fixture is visible but inaccessible.

SYSTEM MENU (ACCESSED THROUGH NFC)

MAIN MENU		OPTIONS / VALUES (Default Settings in BOLD)		
DMX	DMX Address	001 - 512		
	DMX Mode	1Ch Dimmer		
		4Ch Dimmer/CCT		
		6Ch Dim/CCT/Clr		
		10Ch RGBMA		
		11Ch Standard		
		19Ch Extended		
		9Ch CMY		
	15Ch CMY Extended			
	No DMX Status	Hold Last , Fade to Black, Standalone		
	Protocol	Select Signal	DMX	
			Aria In - DMX Out DMX In - Aria Out	
	Aria	Enable Aria	Off / On	
Frequency		2.4 GHz , Sub Gig - US, Sub Gig - EU		
2.4 GHz Chan		00 - 15		
Sub Gig Chan		00 - 09		
Enable Mesh		Off / On		
Enable Bluetooth		Off / On		
SETTINGS	Dim Modes	Standard , Stage, TV, Architectural, Theatre, Stage 2		
		Dim Speed	0s - 10s (Default = 0.1s)	
	Dim to Warm	On / Off		
	Dim Curves	Linear, Square, Square Inverse, S-Curve		
	LED Refresh Rates	900Hz - 1500Hz (1200Hz), 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz		
	Color Tuning	Highest Fidelity, Balanced Output and Fidelity, Highest Output		
	Output Balance	Bright (Highest Output)		
		Uniform (Elation Full Spectrum Match)		
	LED Power Limit	50%, 60%, 70%, 80%, 90%, 100%		
	Fan Mode	Auto , High, Silent		
Reset Defaults	Yes / No			
INFORMATION	Time	Current Run Time, Total Run Time, Last Run Time		
	Temperature	Current, Max Resettable		
	Software Version	Vx.x		
SERVICE Passcode = 050	Calibration	Red	000 - 255	
		Green	000 - 255	
		Blue	000 - 255	
		Mint	000 - 255	
		Amber	000 - 255	
	Reset Last Run	Yes / No		

FAN CONTROL

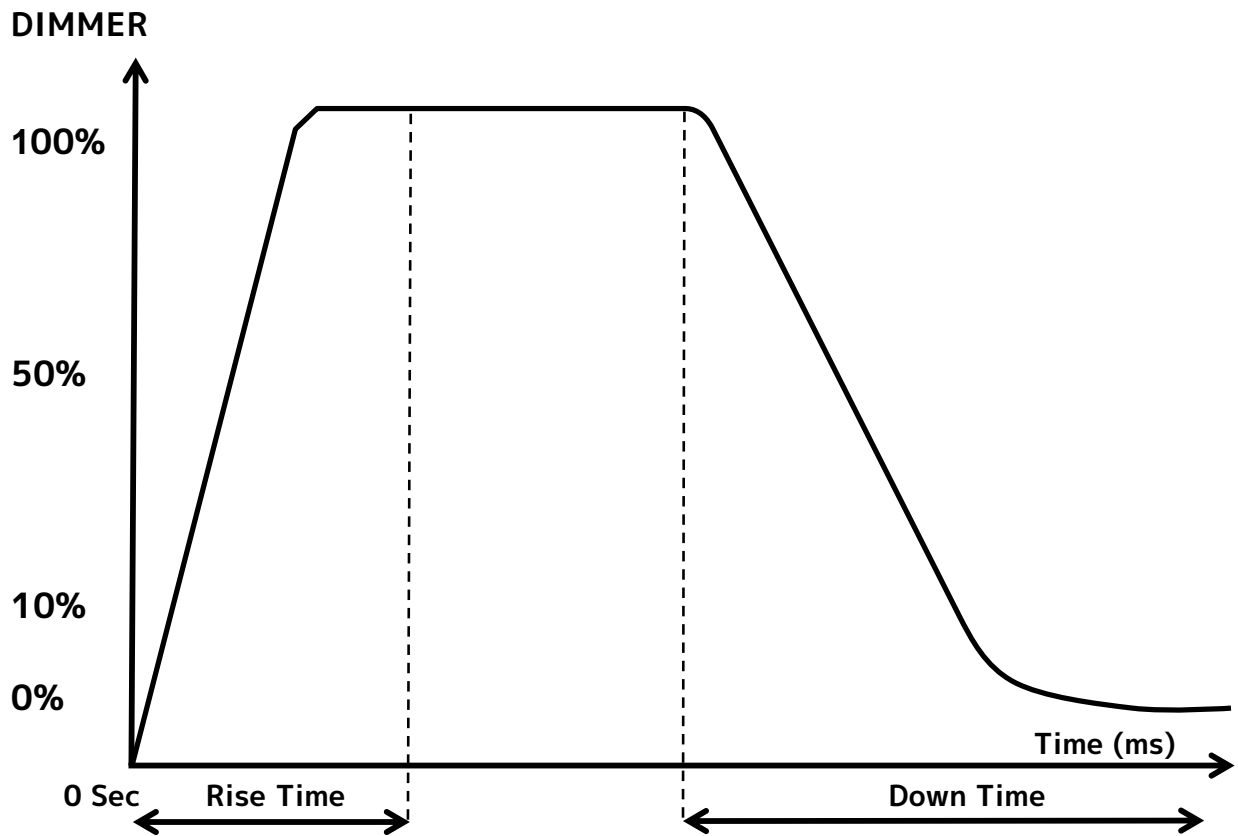
The Elation KL Par IP Compact is a high-performance fixture suited for multiple applications. For noise critical environments such as Theater, Opera, or Orchestral Halls, it offers various fan operation modes which remove unwanted noise distractions for the audience and performers. Fan Modes can be changed 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.

Auto – The default AUTO mode ensures optimal performance of the fixture. Fans only run at the speeds needed to keep the LED engine within a safe temperature range. 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, always, try to keep noise levels at a minimum. The fixture output will only reduce when the LED engine cannot be cooled down to its safe operating range due to high ambient temperature. **Note: Auto is the recommend mode for daily operation of the Elation KL Par IP Compact.**

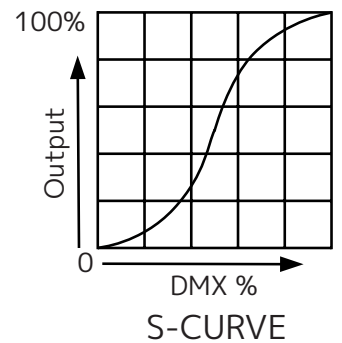
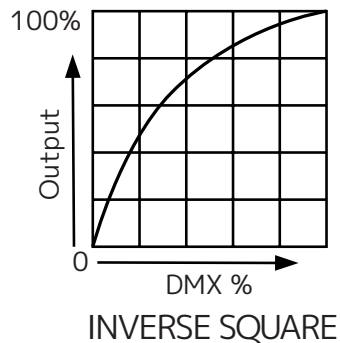
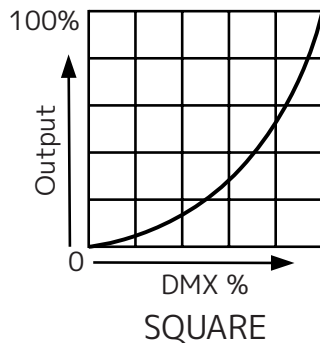
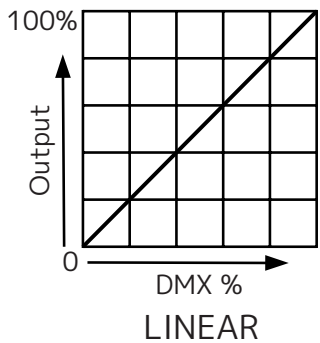
High – This mode is only required in very high ambient temperatures when automatic fan speed adjustments are not desired. High Fan Speed will cool the fixture most efficiently. This mode will increase wear on the fans and should only be utilized in exceptional circumstances. Fans will always run, even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

Silent – Running the fixture in SILENT mode reduces the fixture to about 25% output, and all fans are off. The fixture is totally silent.

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



DMX TRAITS

1CH	4CH	6CH	10CH	11CH	19CH	9CH	15CH	DMX VALUES	FUNCTION	SNAP	DEF VAL
1	1	1		1	1	1	1		Dimmer		0
								0-255	Intensity 0 → 100		
	2	2		2	2	2	2		Dimmer Fine		0
								0-255	Fine Intensity Control		
		3		3	3	3	3		Shutter/Strobe		50
								0-31	Shutter Closed		
								32-63	No function (shutter open)		
								64-95	Strobe effect, slow to fast		
								96-127	No function (shutter open)		
								128-159	Pulse effect in sequences		
								160-191	No function (shutter open)		
								192-223	Random strobe effect, slow to fast		
								224-255	No function (shutter open)		
			1	4	4				Red		
								0-255	0 → 100%		
			2		5				Red Fine		
								0-255	Fine adjustment		
			3	5	6				Green		
								0-255	0 → 100%		
			4		7				Green Fine		
								0-255	Fine adjustment		
			5	6	8				Blue		
								0-255	0 → 100%		
			6		9				Blue Fine		
								0-255	Fine adjustment		
			7	7	10				Mint		
								0-255	0 → 100%		
			8		11				Mint Fine		
								0-255	Fine adjustment		
			9	8	12				Amber		
								0-255	0 → 100%		
			10		13				Amber Fine		
								0-255	Fine adjustment		
						4	4		Cyan		0
								0-255	0 → 100%		
							5		Cyan Fine		0
								0-255	Fine adjustment		
						5	6		Magenta		0
								0-255	0 → 100%		
							7		Magenta Fine		0
								0-255	Fine adjustment		
						6	8		Yellow		0
								0-255	0 → 100%		
							9		Yellow Fine		0
								0-255	Fine adjustment		
		4		9		7			CCT Presets	X	0
								0-23	Open		
								24-85	2400K → 8500K		
								86-255	8500K		
	3				14		10		Variable CCT		0
								0-23	Open		
								24-255	2400K → 8500K		
	4				15		11		Variable CCT Fine		0
								0-255	Fine adjustment		

DMX TRAITS

1CH	4CH	6CH	10CH	11CH	19CH	9CH	15CH	DMX VALUES	FUNCTION	SNAP	DEF VAL
					16		12		Green Shift		0
								0	Idle		
								1-127	Full Minus Green to Neutral		
								128	Neutral White		
								129-255	Neutral to Full Plus Green		
		5		10	17	8	13		Color		0
								0	Open		
								1-179	Virtual Swatch Book		
									Color Scroll		
								180-201	Clockwise, Fast → Slow		
								202-207	Stop		
								208-229	Counter-clockwise, Slow → Fast		
								230-234	Open		
		5		10	17	8	13		Random Slots		0
								235-239	Fast		
								240-244	Medium		
								245-249	Slow		
								250-255	Open		
									Dim Modes		X
								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		
					18		14	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		
								142-149	Idle		
									Dim to Warm		
								150-154	DTW On		
								155-159	DTW Off		
								160-255	Idle		

DMX TRAITS

1CH	4CH	6CH	10CH	11CH	19CH	9CH	15CH	DMX VALUES	FUNCTION	SNAP	DEF VAL
									Control		
								0-29	Idle		
								30-39	Fan Mode Auto		
								40-49	Fan Mode Silent		
								50-59	Fan Mode High		
								60-99	Idle		
									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		
		6		11	19	9	15	115	1050	X	0
								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		
								131	1210		
								132	1220		
								133	1230		
								134	1240		
								135	1250		
								136	1260		
								137	1270		
								138	1280		

DMX TRAITS

1CH	4CH	6CH	10CH	11CH	19CH	9CH	15CH	DMX VALUES	FUNCTION	SNAP	DEF VAL
								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		
		6		11	19	9	15	161	2500	X	0
								162	4000		
								163	5000		
								164	6000		
								165	10000		
								166	15000		
								167	20000		
								168	25000		
								169-174	Idle		
									Color Tuning		
								175-176	Highest Fidelity		
								177-178	Balanced Output and Fidelity		
								179-180	Highest Output (Default)		
									Output Balance		
								181-182	Bright (Highest Output) (Default)		
								183-184	Uniform (Elation Full Spectrum Match)		
								185-200	Idle		
									Dimmer Curves		
								201-210	Linear		
								211-220	Square		
								221-230	Inverse Square		
								231-240	S-Curve (Default)		
								241-255	Idle		

COLOR TEMPERATURE

Colors shown are an approximate representation. <https://www.luxalight.eu/en/cie-convector>

DMX VALUE	COLOR TEMPERATURE (K)	DMX VALUE	COLOR TEMPERATURE (K)
24	2400	55	5500
25	2500	56	5600
26	2600	57	5700
27	2700	58	5800
28	2800	59	5900
29	2900	60	6000
30	3000	61	6100
31	3100	62	6200
32	3200	63	6300
33	3300	64	6400
34	3400	65	6500
35	3500	66	6600
36	3600	67	6700
37	3700	68	6800
38	3800	69	6900
39	3900	70	7000
40	4000	71	7100
41	4100	72	7200
42	4200	73	7300
43	4300	74	7400
44	4400	75	7500
45	4500	76	7600
46	4600	77	7700
47	4700	78	7800
48	4800	79	7900
49	4900	80	8000
50	5000	81	8100
51	5100	82	8200
52	5200	83	8300
53	5300	84	8400
54	5400	85	8500

VIRTUAL COLORS (COLOR SWATCH)

VALUE	FILTER #	COLOR	VALUE	FILTER #	COLOR
1	7	Pale Yellow	31	126	Mauve
2	103	Straw	32	49	Medium Purple
3	151	Gold Tint	33	58	Lavender
4	100	Spring Yellow	34	199	Palace Blue
5	10	Medium Yellow	35	119	Dark Blue
6	101	Yellow	36	132	Medium Blue
7	104	Deep Amber	37	120	Deep Blue
8	15	Deep Straw	38	165	Daylight Blue
9	179	Loving Amber	39	161	Slate Blue
10	21	Gold Amber	40	118	Light Blue
11	105	Orange	41	68	Sky Blue
12	158	Deep Orange	42	143	Pale Navy Blue
13	22	Dark Amber	43	131	Marine Blue
14	778	Millennium Gold	44	115	Peacock Blue
15	135	Deep Golden Amber	45	172	Lagoon Blue
16	24	Scarlet	46	116	Medium Blue Green
17	106	Primary Red	47	90	Dark Yellow Green
18	26	Bright Red	48	139	Primary Green
19	27	Medium Red	49	122	Fern Green
20	19	Fire	50	89	Moss Green
21	157	Pink	51	124	Dark Green
22	36	Medium Pink	52	88	Lime Green
23	111	Dark Pink	53	138	Pale Green
24	128	Bright Pink	54	203	Quarter CT Blue
25	148	Bright Rose	55	202	Half CT Blue
26	332	Special Rose Pink	56	201	FULL CT Blue
27	793	Vanity Fair	57	200	Double CT Blue
28	113	Magenta	58	206	Quarter CT Orange
29	46	Dark Magenta	59	205	Half CT Orange
30	48	Rose Purple	60	204	FULL CT Orange

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
22A6	O206	4706	1ch, 4ch, 6ch, 10ch, 11ch, 19ch, 9ch, 15ch

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:

CODE	PARAMETER	CODE	PARAMETER
0x0011	Proxied Device Count	0x0404	Lamp Mode
0x0200	Sensor Definition	0x0405	Device Power Cycles
0x0201	Sensor Value	0x0603	Realtime Clock
0x0080	Device Model Description	0x1010	Power State
0x0081	Manufacturer Label	0x1031	Preset Playback
0x0082	Device Label	0x0122	Default Slot Value
0x00E0	DMX Personality	0x00B0	Language
0x00E1	DMX Personality Description	0x00A0	Language Capabilities
0x0400	Device Hours	0x00C2	Boot Software Version Label
0x0015	Comms Status	0x00C1	Boot Software Version ID
0x0031	Status ID Description	0x0070	Product Detail ID List
0x0032	Clear Status ID	0x0030	Status Messages
0x0401	Lamp Hours	0x1001	Reset Device
0x0402	Lamp Strikes	0x0090	Factory Defaults
0x0403	Lamp State	0x0000	Undefined PID

MAINTENANCE GUIDELINES



DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

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

Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. 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.

ERROR CODES

ERROR CODE	DESCRIPTION
Fan Error	These messages will appear if there is a fan and/or temperature malfunction.
Temp Error	

Note: Error Codes are subject to change without notice.

SOFTWARE UPDATES



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.

ELATION C-LOADER

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

<https://www.elationlighting.com/c-loader-software-uploader>

ARIA

Alternately, updates can be performed over the Aria connection. Please contact Elation service for details.

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

SPECIFICATIONS

SOURCE

150W 6000K RGBMA LED Engine
30,000 Hour Average LED Life*

*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

Total Lumen Output:
5,474 (Integrating Sphere)
4,722 (Goniometer)
CRI 94.9
TLCI 95

INCLUDED LENSES

VNSP-11
NSP-22
MFL-30
WFL-52

EFFECTS

Variable Strobe Rate: 1- 20Hz
Dim-to-Warm/ Red Shift Emulation
Variable 16-bit Dimming Modes and Curves

COLOR

RGBMA Color Array
CMY Emulation
16bit Fully Variable CCT 2400K - 8500K
Green/Magenta Shift
Virtual Gel Swatch Book

CONTROL / CONNECTIONS

8 DMX Channel Modes (1, 4, 6, 10, 11, 19, 9, 15)
RDM (Remote Device Management)
Aria x2 Wireless Device Management
NFC Configuration
Hard Wired (Bare Wire) IP Rated Power and Data Cables, 3 meters with the following cable options:
2-Wire- Power In & Combination DMX In/Out Cables
4-Wire- Power In, Power Out, DMX In and DMX Out Cables

SIZE / WEIGHT

Length: 7.2" (183mm)
Length (Yoke 90°): 11.1" (283mm)
Width: 9.8" (249mm)
Height (Fixture Body): 10.8" (275mm)
Height (Yoke 0°): 13.1" (332mm)
Weight: 35.5 lbs (16.1kg)

ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz
200W Max Power Consumption
Power Thru Capacity: 10A (6 units @115V, 12 units @240V)
5°F to 113°F (-15°C to 45°C)
BTU/hr (+/- 10%) 682

INCLUDED ITEMS

Gel Frame
Safety Cable
4 Lenses (NSP-22, VNSP-11, MFL-30, and WFL-52)

ORDERING INFORMATION:

KLO812: KL PAR IP COMPACT OPS, White, 2-Wire Backplate
KLO856: KL PAR IP COMPACT OPS, White, 4-Wire Backplate
KLO834: KL PAR IP COMPACT OPS, Black, 2-Wire Backplate
KLO875: KL PAR IP COMPACT OPS, Black, 4-Wire Backplate

OPTIONAL ITEMS

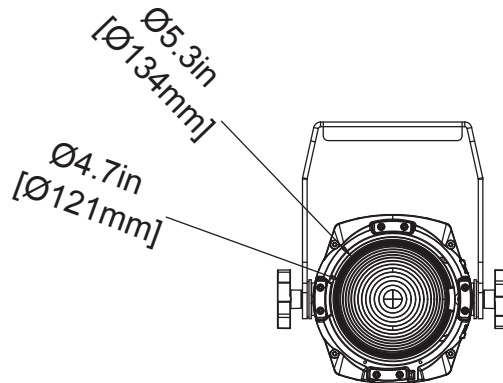
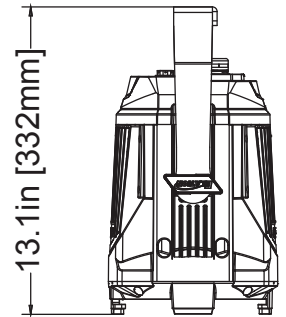
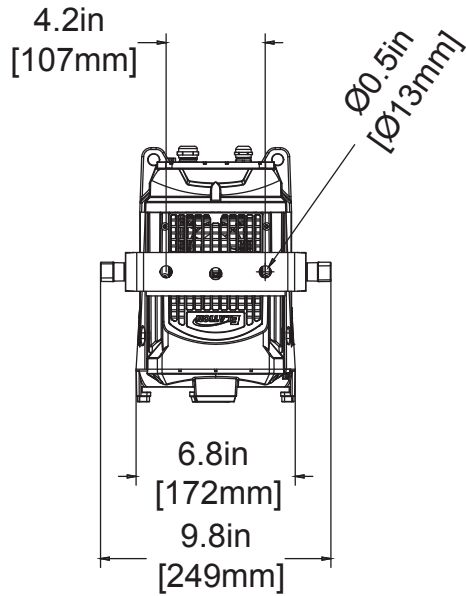
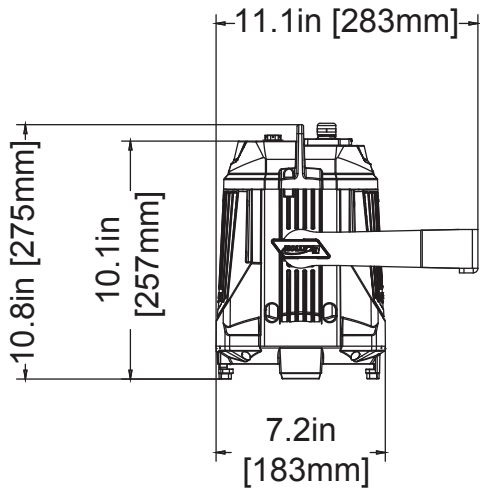
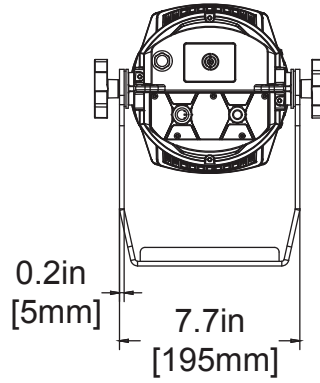
6.25" Barndoors
4 Wire OPS Hardwire Installation Plate (HWP414)
2 Wire OPS Hardwire Installation Plate (HWP212)

APPROVALS / RATINGS

CE | cETLus | IP65 | FCC | UKCA

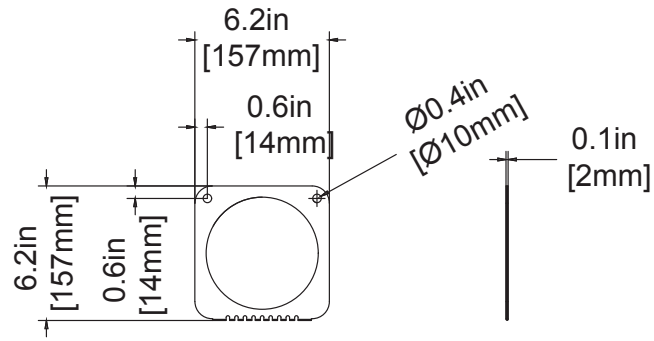
DIMENSIONAL DRAWINGS

FIXTURE

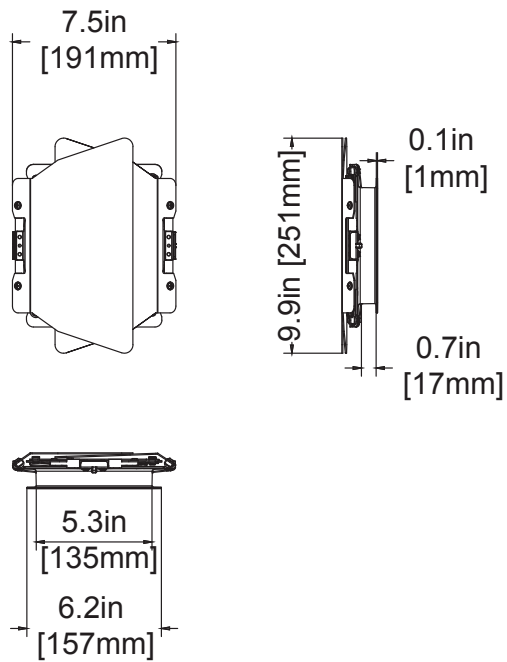


DIMENSIONAL DRAWINGS

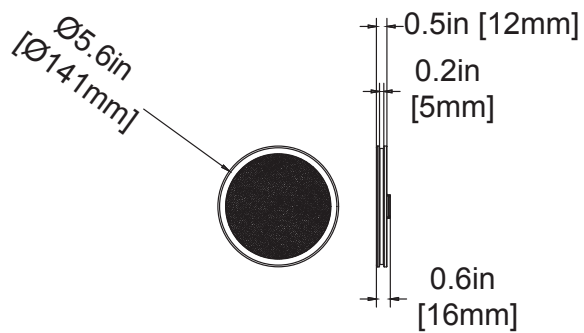
GEL FRAME (not shown to scale)



BARNDOORS (not shown to scale)



LENS (not shown to scale)



ORDERING INFORMATION

SKU (US)	SKU (EU)	DESCRIPTION
KL0812	1236100202	KL Par IP Compact OPS



FCC STATEMENT

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

FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

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

- Reorient or relocate the device.
- increase the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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!

