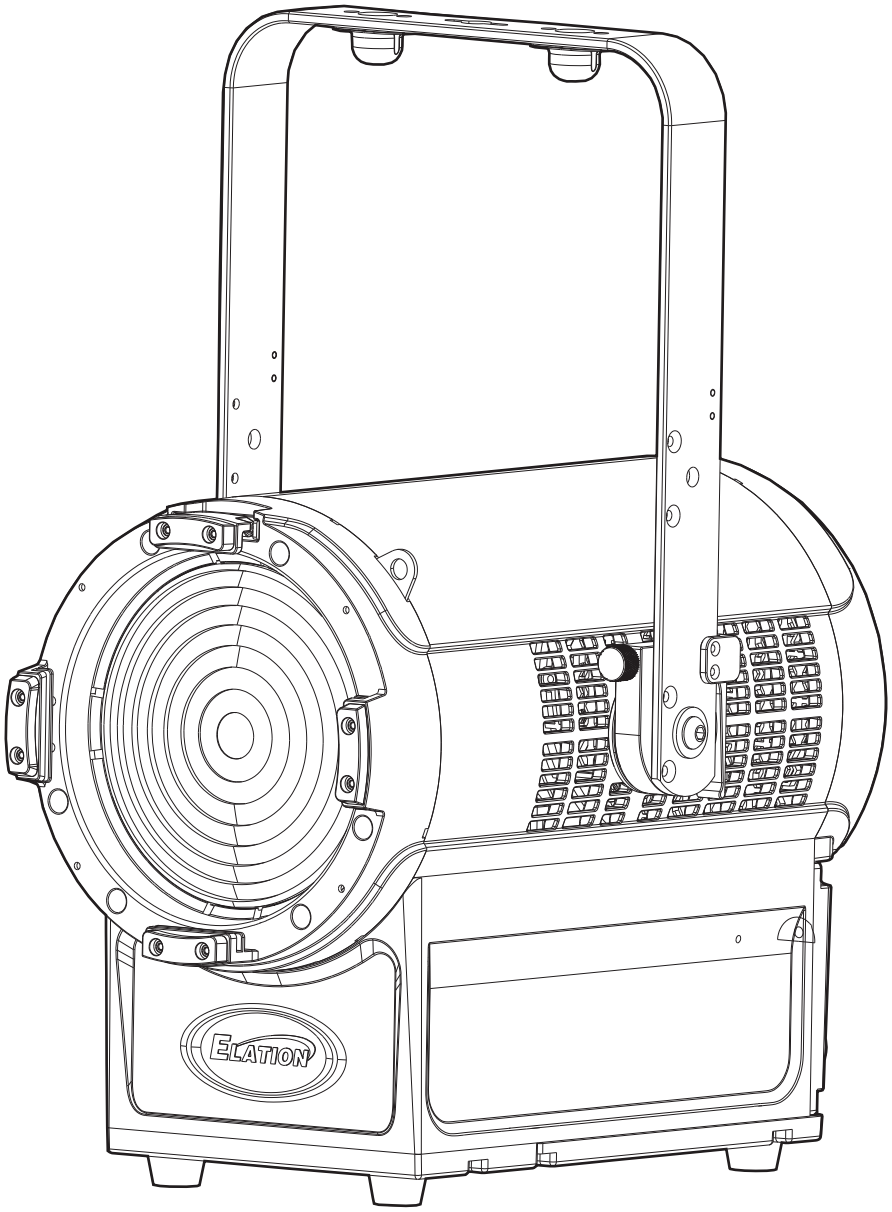
ELATION®



Fresnel 6 IP

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
03/05/2026	1.0	1.01	1 / 5 / 7 / 11 / 12 / 20 / 10 / 16 / 14 Ch	Initial Release
08/17/2026	1.1	N/C	No Change	Updated: General Info, NFC, Specifications, Dimensional Drawings; Added Index

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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

Barndoor (x1)

Gel Frame (x1)

Safety Cable for Fixture (x1)

Safety Cable for Barndoor (x1)

Power Cable (x1)

CUSTOMER SUPPORT

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

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

REPLACEMENT PARTS please visit parts.elationlighting.com

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.

GENERAL INFORMATION

LIMITED WARRANTY

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

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

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

PRODUCT REGISTRATION

To register your product, please visit the page listed below or scan the QR code.

USA: https://www.elationlighting.com/pages/product-warranty-registration

IP65 RATED

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**).

NOTE: THIS FIXTURE IS INTENDED FOR TEMPORARY OUTDOOR USE ONLY!

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.



NOT suitable for maritime/seaside environment installations. Installing this fixture in a maritime/seaside environment may cause corrosion and/or excessive wear to the interior and/or exterior components of the fixture. Damages and/or performance issues resulting from installation in a maritime/seaside environment will void the manufacturer's warranty, and will NOT be subject to any warranty claims and/or repairs.

Maritime installations require additional preparation, and additional service intervals may be needed given the maritime use. In general, IP ratings presuppose freshwater conditions VS maritime conditions, which are typically more "caustic" to IP fixtures (both internally and externally). 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. A waterproof dome or similar device is recommended for use in permanent outdoor installations. When using a dome, refer to manufacturer recommendations for duty-cycle.

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

Exterior Maintenance: 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 basis, except for cooling fans, which should be replaced once the luminaires reach 10,000-hours. This is a prophylactic measure intended to keep the unit running as cool as possible, ensuring 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 (such as 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!

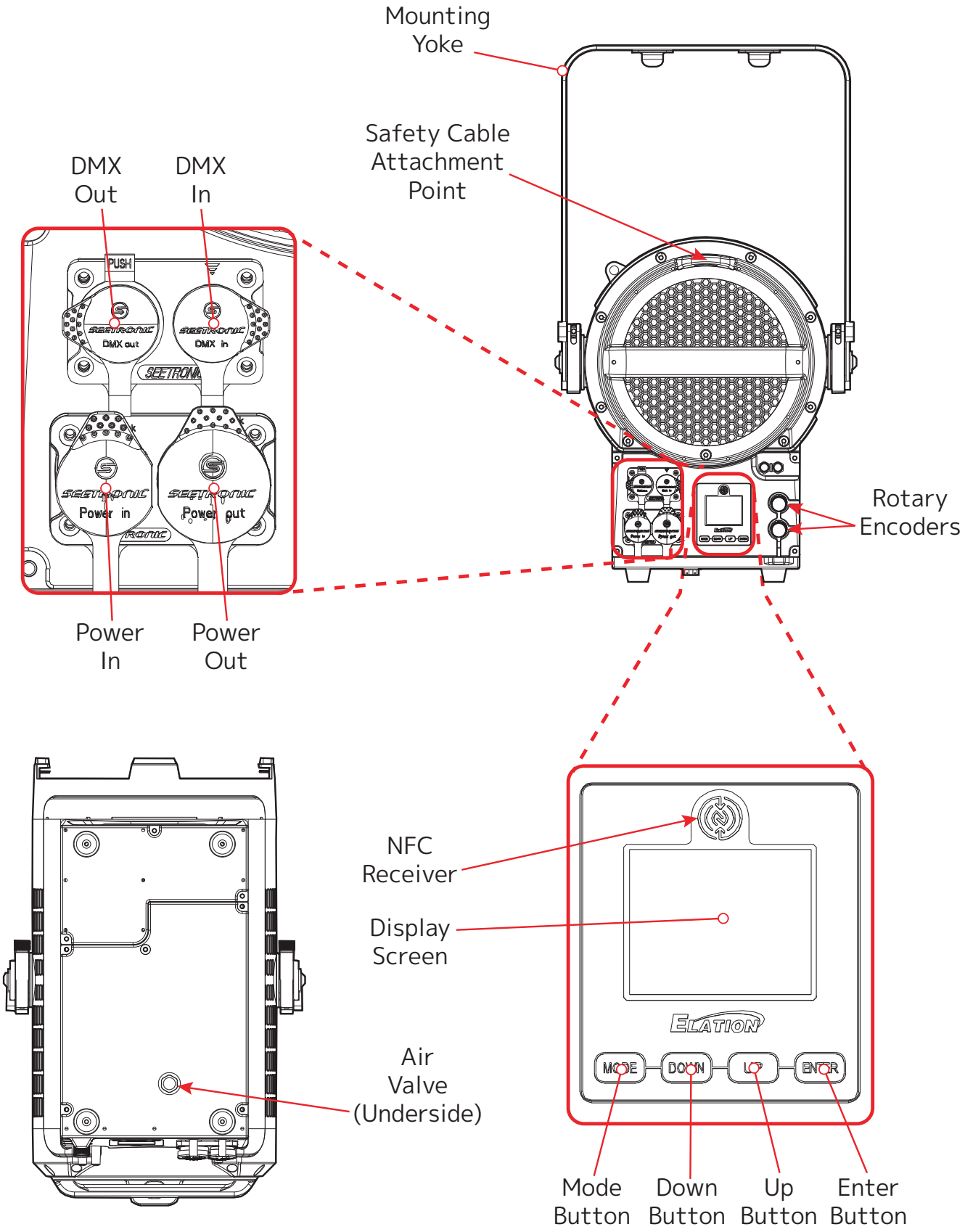


MINIMUM DISTANCE TO OBJECTS/SURFACES IS 1.6 FEET (0.5 METERS)
MINIMUM DISTANCE OF FLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METER)
MINIMUM DISTANCE TO LIGHTED OBJECTS IS 3.3 FEET (1.0 METERS)
AMBIENT OPERATING TEMPERATURE RANGE IS 5°F TO 113°F (-15°C TO 45°C)

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.
- 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.
- This fixture is intended for professional use only.
- The light source contained in this fixture shall only be replaced by the manufacturer or manufacturer's service agent or similar qualified person.

OVERVIEW


Mounting Yoke
Safety Cable Attachment Point
DMX Out
DMX In
PUSH
DMX out
DMX in
Power in
Power out
Power In
Power Out
Rotary Encoders
NFC Receiver
Display Screen
Air Valve (Underside)
ELATION
MODE
DOWN
UP
ENTER
Mode Button
Down Button
Up Button
Enter Button

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 1.6 FEET (0.5 METER).
MINIMUM DISTANCE TO FLAMMABLE MATERIALS IS 1.6 FEET (0.5 METER).
MINIMUM DISTANCE TO LIGHTED OBJECTS IS 3.3 FEET (1.0 METERS)
AMBIENT OPERATING TEMPERATURE RANGE IS -40°F TO 113° F (-40°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.

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 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.

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

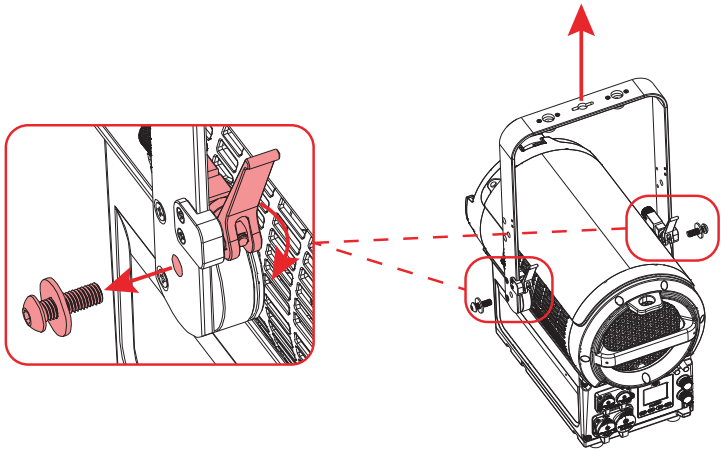
Powering down the fixture when not in use is strongly recommended.

CONDENSATION AND MOISTURE INSPECTION
Before powering on, remove the fixture from its packaging or road case in a dry, controlled environment and inspect for transport damage or signs of condensation/moisture caused by temperature changes (e.g., cold storage to warm venue). Allow full acclimation to ambient temperature (at least 1–2 hours) until any condensation evaporates completely to prevent electrical damage, short circuits, or corrosion. Do not operate if moisture is present, as this may cause irreversible damage and void the warranty. If issues persist, consult the troubleshooting guide or contact technical support.

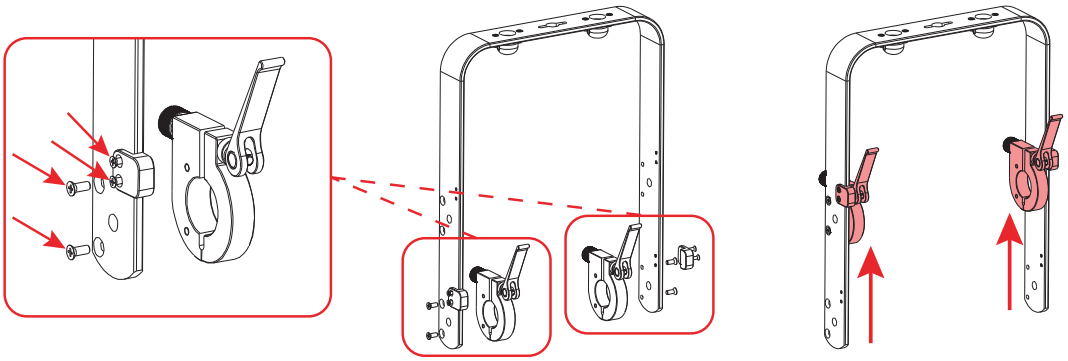
INSTALLATION GUIDELINES

YOKE POSITION: This fixture features a yoke that can be adjusted to a low-clearance position. To change the yoke position, follow the directions below:

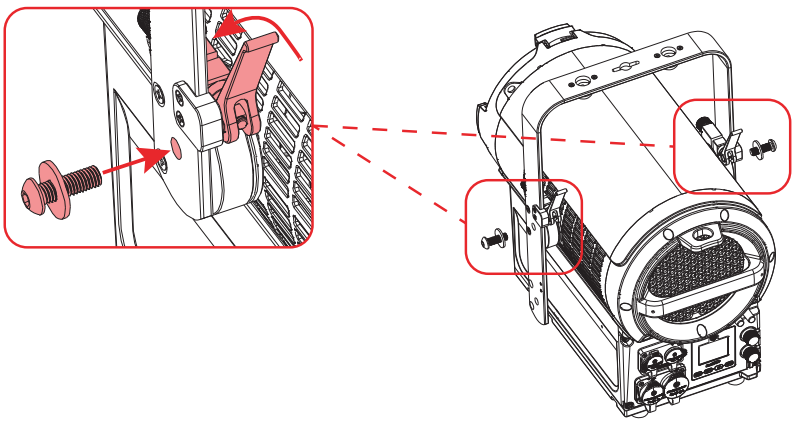
1. Release the yoke adjustment latches, then remove the 2 yoke screws. Remove the yoke from the fixture.



2. Remove the 4 screws per side that secure the yoke latches to the yoke. Move the yoke latches to the upper mounting point, then re-insert and tighten the 4 screws per side to secure in place.



3. Re-install the 2 yoke screws, then lock the yoke adjustment latches in place. The yoke is now secured in position.

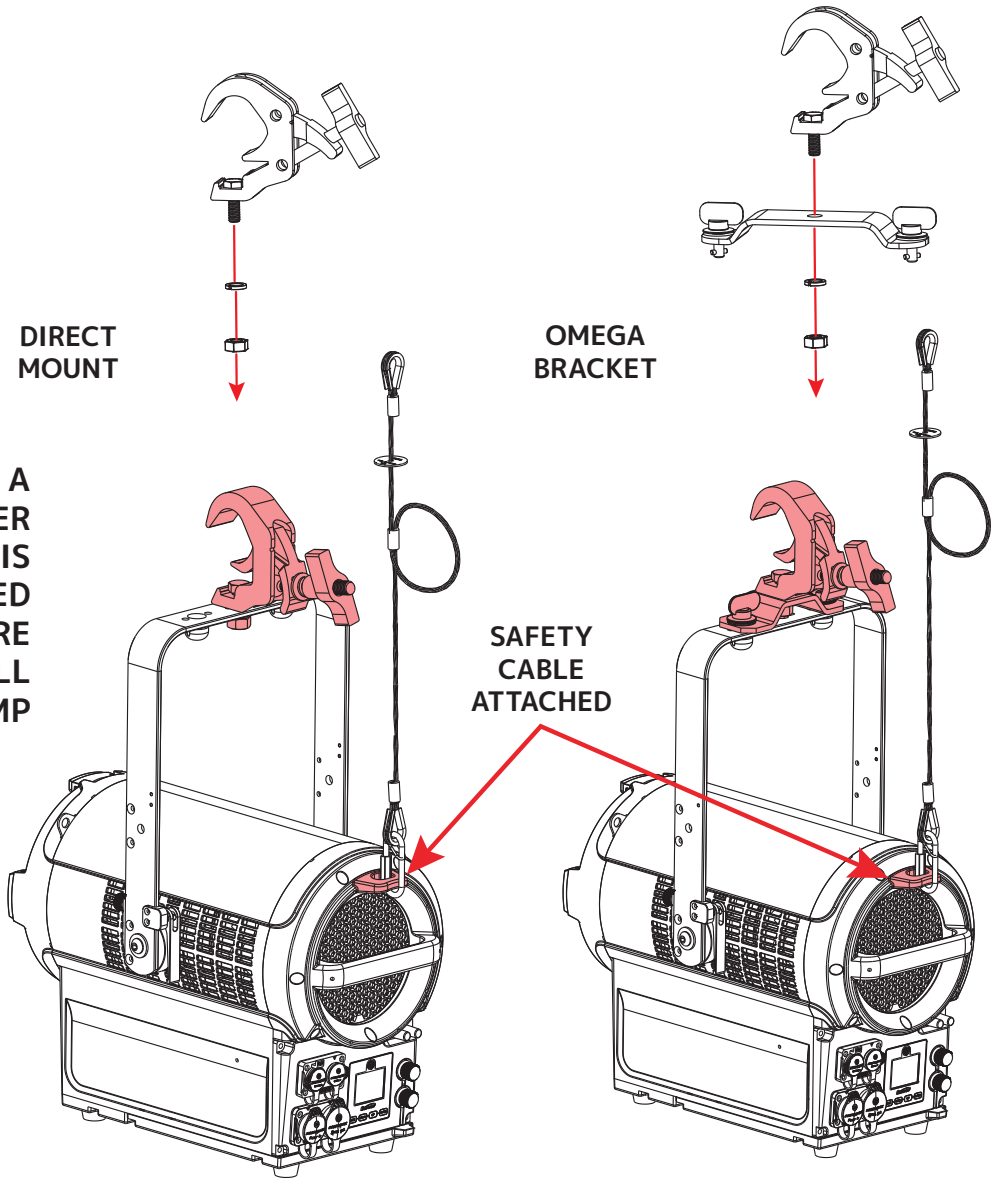


INSTALLATION GUIDELINES

CLAMP INSTALLATION:

When mounting a fixture to a truss, be sure to secure an appropriately rated professional grade rigging clamp to the **Omega bracket** using an M10 screw fitted through the center hole of the Omega bracket. Insert the Omega bracket into the outer mounting holes on the fixture yoke. Secure the Omega brackets to the fixture by turning each quick-lock fastener 1/4 turn clockwise, making sure the fastener is completely locked. Alternately, the clamp can be installed directly to the middle mounting hole on 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.



RIGGING

Overhead rigging requires extensive experience, including but not limited to: calculating working load limits, knowledge of installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt to perform the installation yourself, as improper installation can result in bodily injury. The fixture provides a built in rigging point for a **SAFETY CABLE** on the rear of the fixture. Be sure to use only the designated rigging points for the safety cable, and **NEVER** use the carrying handle to secure the safety cable. Connect the safety cable to the attachment point and route it around the truss.

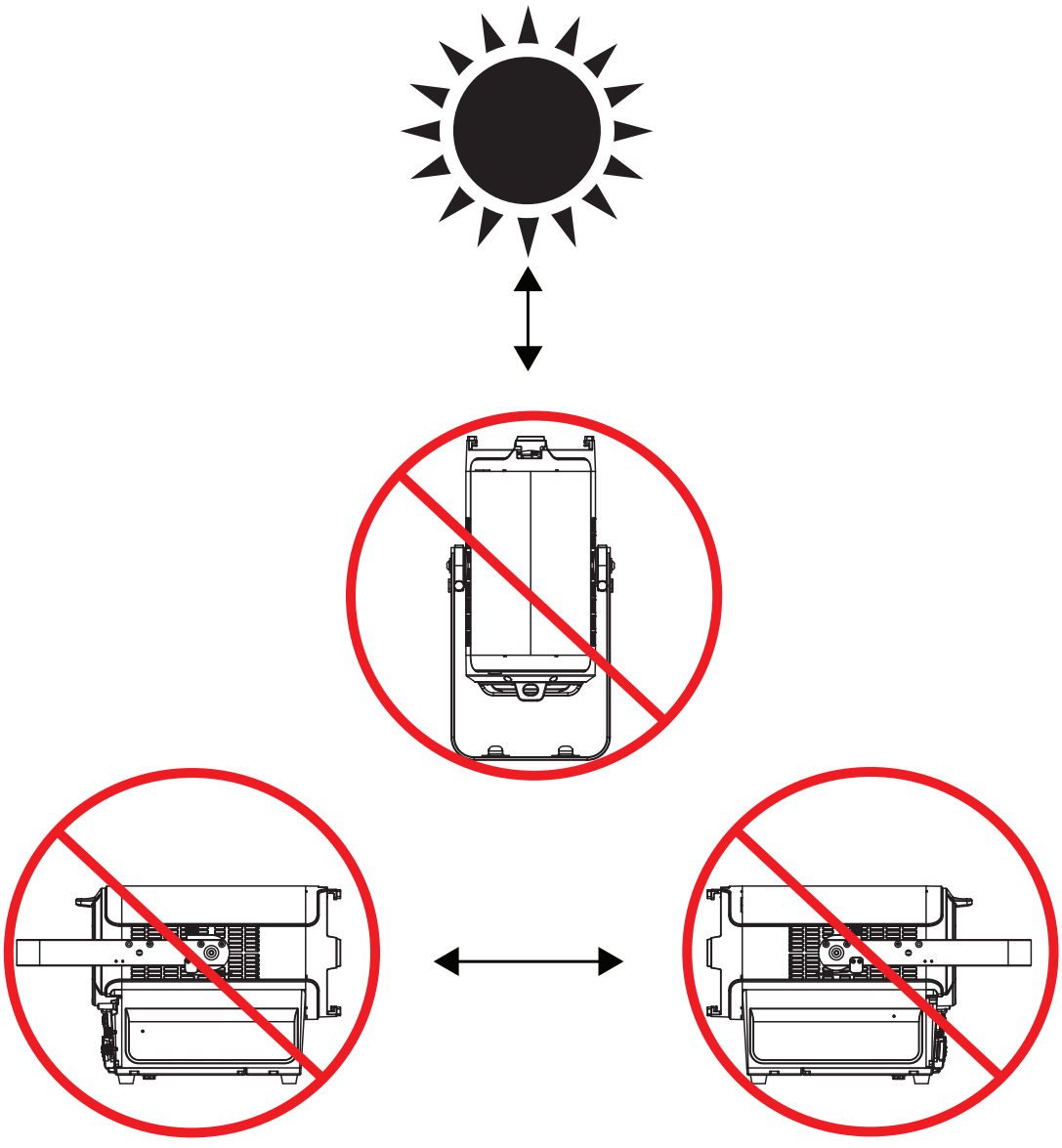
INSTALLATION GUIDELINES

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.

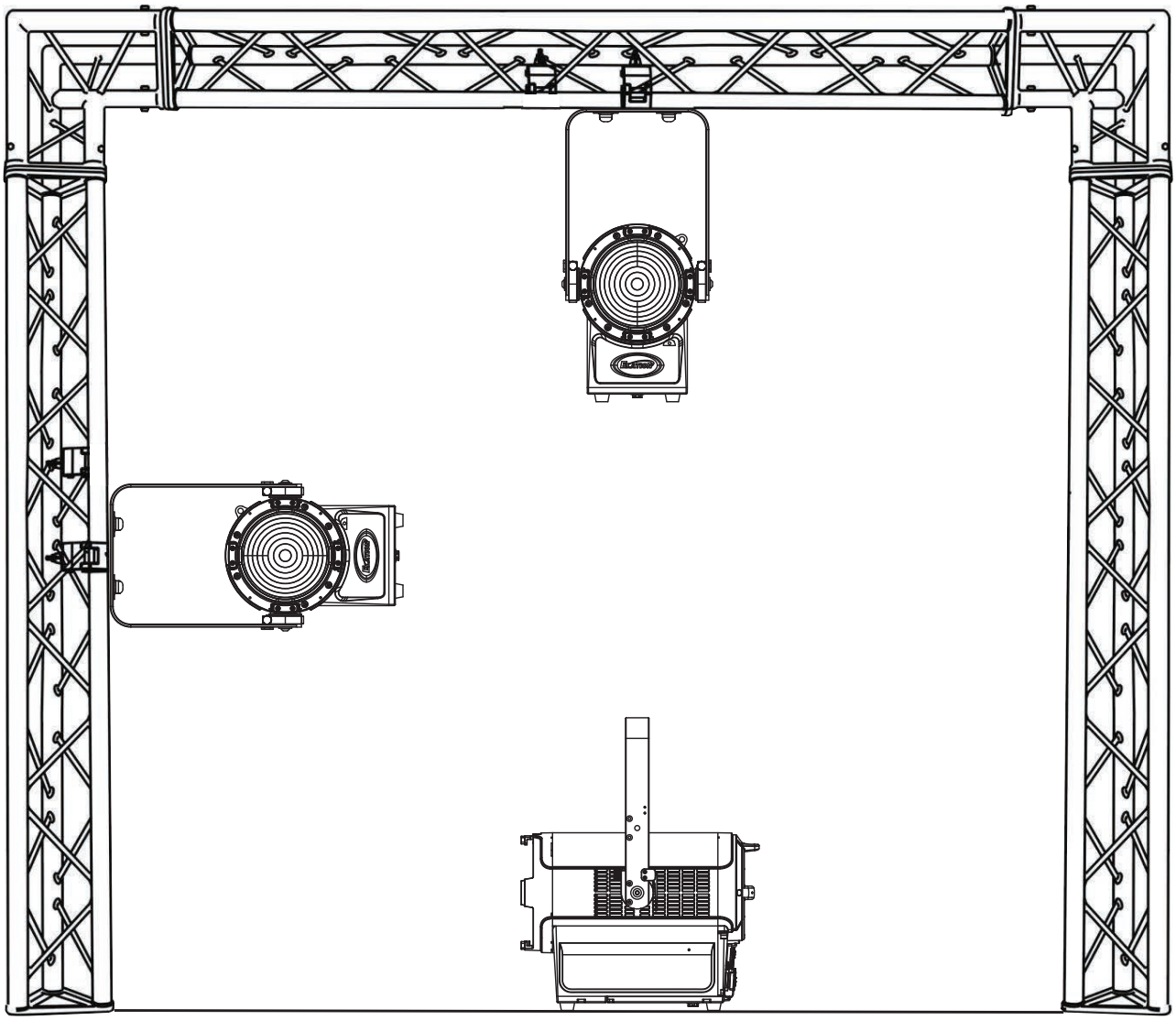


INSTALLATION GUIDELINES

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. Please note, if the fixture is fitted with a gel frame or barndoor, then the fixture should be installed with the latch oriented upwards so that the accessories will not fall in the event that the latch fails. See the illustration below for reference.



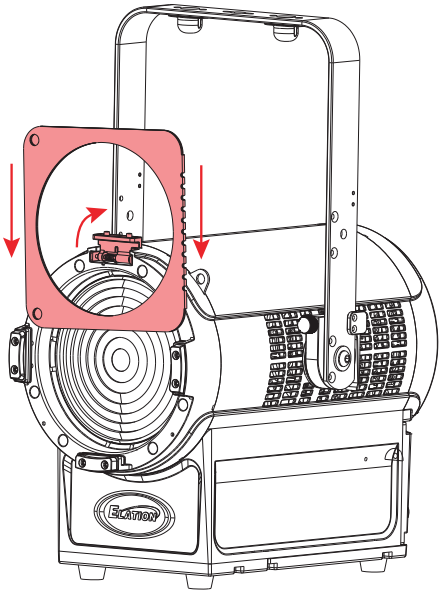
FALLING FIXTURES CAN CAUSE SEVERE INJURY OR SERIOUS EQUIPMENT DAMAGE! FOR THIS REASON, FIXTURES SHOULD BE INSTALLED AND INSPECTED ONLY BY QUALIFIED PERSONNEL. DO NOT INSTALL THE UNIT IF YOU LACK THE QUALIFICATIONS TO DO SO, OR IF YOU HAVE DOUBTS ABOUT THE SAFETY AND SECURITY OF THE INSTALLATION SETUP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

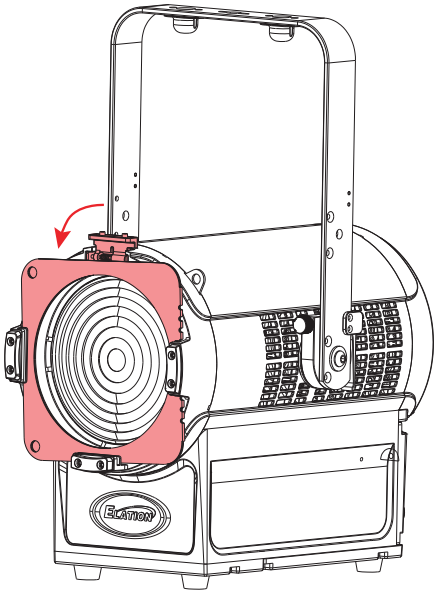
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

ACCESSORY INSTALLATION

GEL FRAME

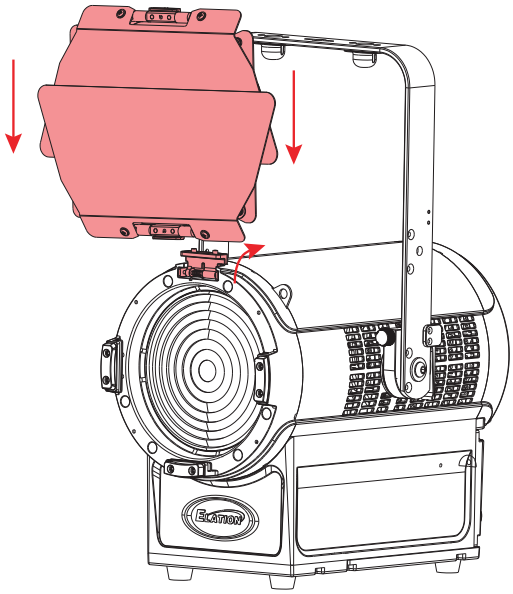
Flip the lens frame latch upwards, then slide the gel frame into the slot around the lens frame. Flip the latch back downwards to secure the gel frame in place.

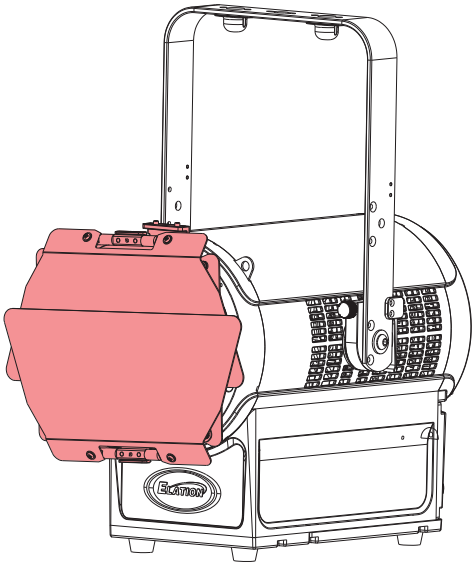




BARNDOOR

Flip lens frame latch upwards, then slide the barndoor into the slot around the lens frame. If the barndoor is being used in conjunction with a gel frame, make sure that the barndoor is placed into the slot in front. Flip the latch back downwards to secure the barndoor in place. Please note that a separate safety cable should be attached to the barndoor.





NEAR FIELD COMMUNICATION (NFC)

INTRODUCTION: 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 operates in a Reader/Writer Mode, which allows an NFC device to read or write data to an NFC tag. In regards to lighting fixtures, NFC can be used to simplify the process of changing the address, mode, or any other setting that would typically be accessed via the control panel. The technology is built on RFID standards, including ISO/IEC 14443 and ISO/IEC 18092, ensuring compatibility between NFC devices. NFC also incorporates encryption and authentication protocols.

Scan the QR code below to download the NFC App.

Android Apple

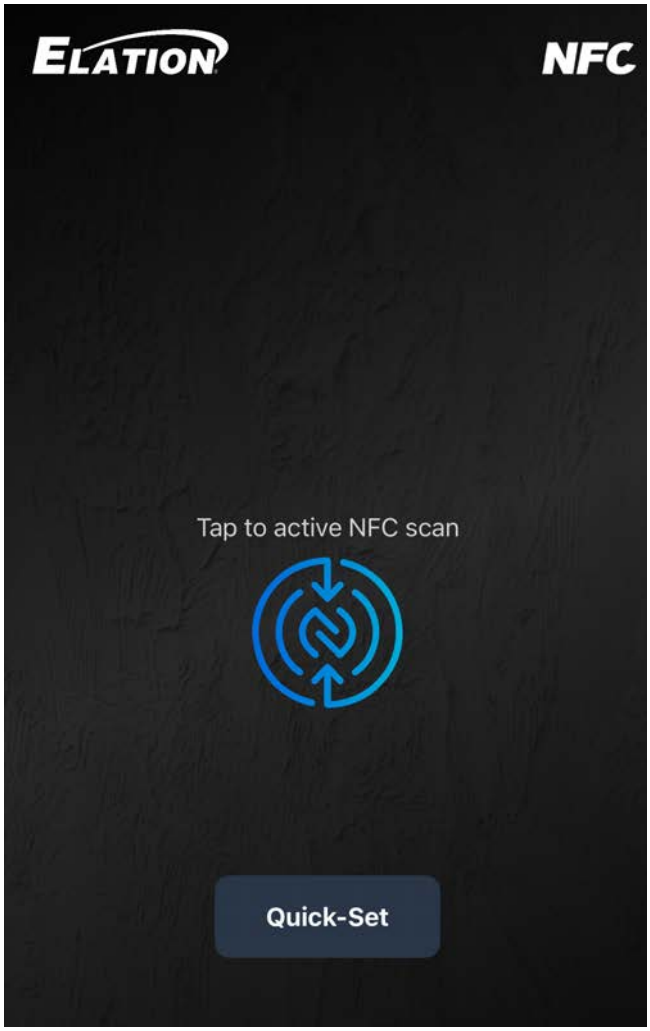
NFC APP HOME PAGE:
Upon opening the NFC app, two options will be displayed on the screen: **Tap to Activate** or **Quick Set.**

- **Tap to Activate:** tap the icon shown below to bring up a scan function that will pull existing settings from a fixture, without needing to search through the list of available fixtures.



- **Quick-Set:** search for a specific fixture and make changes to settings prior to establishing a connection with a fixture.

FIXTURE LIST: In some instances, a Fixture List option will also appear on the app home page. This feature allows the user to search through a list of available fixtures to select which one to connect to. This option will not appear if no fixtures have been added yet, as seen in the image of the home screen to the right.

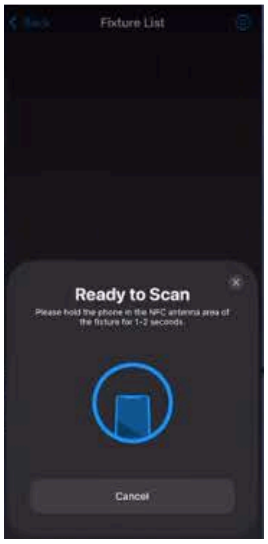


The following sections explain in detail how each option works.

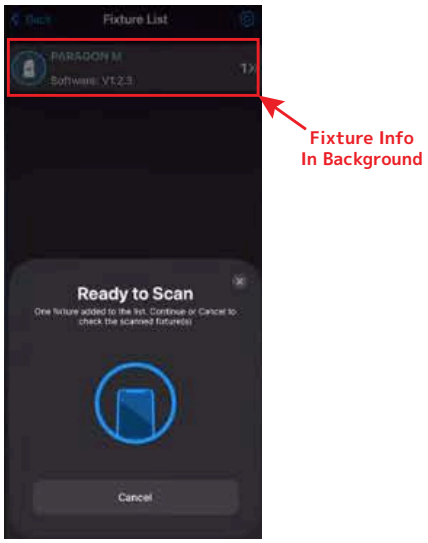
NEAR FIELD COMMUNICATION (NFC)

TAP TO ACTIVATE

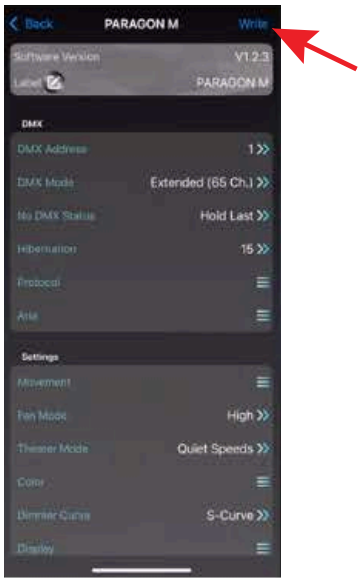
1. When the NFC icon on the app is tapped, a window will appear at the bottom informing the user that the app is ready to scan. At this point, the controlling device should be held up to the NFC icon on the fixture.



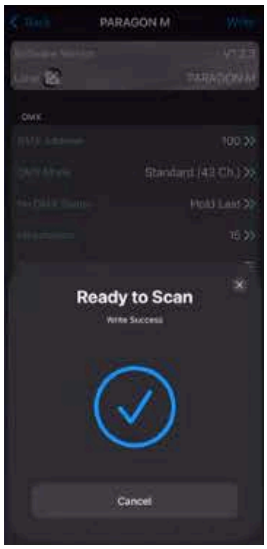
2. The app will pull the settings from the fixture, and the fixture's name will appear in the background. Press "Cancel" on the scan window to close it out and access the fixture shown in the app background.



3. Select the fixture. This opens a window where the user can view or change the settings before uploading them to the fixture. With the settings updated, tap "Write" at the top right of the screen.



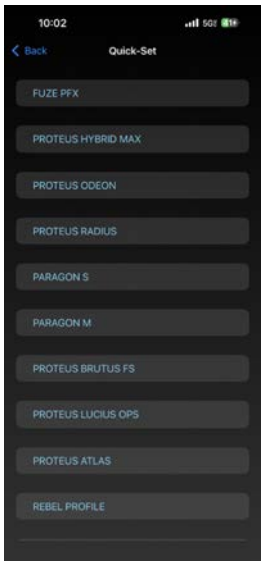
4. A window will open up informing the user that the app is ready to scan. Hold the controlling device up to the NFC icon on the fixture, and the updated settings will be loaded to the fixture. Upon completion, a message stating "Write Success" will be shown.



NEAR FIELD COMMUNICATION (NFC)

Quick Set

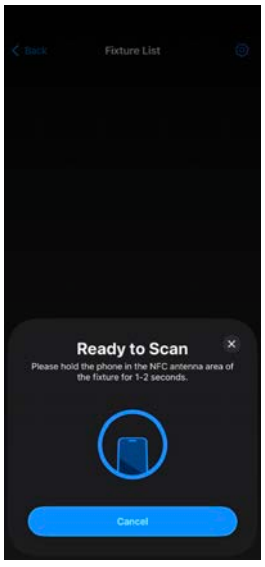
1. Select the fixture model from the list of options that is shown.



2. This will open up a screen where fixture settings can be viewed or changed. In addition to the typical fixture settings that can be found here, there is also an "**Address**" option that can be useful for applying the same settings to multiple fixtures: **Duplicate** will set each fixture configured with the NFC app to the same address, while **Increase** will set each fixture to sequential addresses.



3. When the desired changes have been made, tap "Write to NFC." This will trigger a "Ready to Scan" window to appear.



4. Hold the controlling device up to the fixture's NFC mark for a few seconds. The app will display a success message when the settings have been successfully loaded to the fixture.



NEAR FIELD COMMUNICATION (NFC)

Tips for Successful NFC Interaction

- The NFC chip is typically located near the top of the device for Apple phones, while Android based phones usually have it along the back side.
- Some fixtures will have NFC points on the front of the device (typically near the control panel) as well as on the bottom of the base. This allows NFC functionality even in the event that the fixtures are stored in road cases.
- Fixtures do not necessarily need to be powered on for NFC functionality. In many cases, if the device is off, the information will simply be stored in the chip and accessed when the device is powered on.
- Maintain a short-range distance (6 inches or less) between the control device and the indicated NFC area of the fixture.
- Ensure your device supports NFC, and has the necessary apps for interaction.
- Avoid obstacles between the devices, like metal objects, to ensure smooth communication.
- Ensure that your application is running the latest software version.

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.

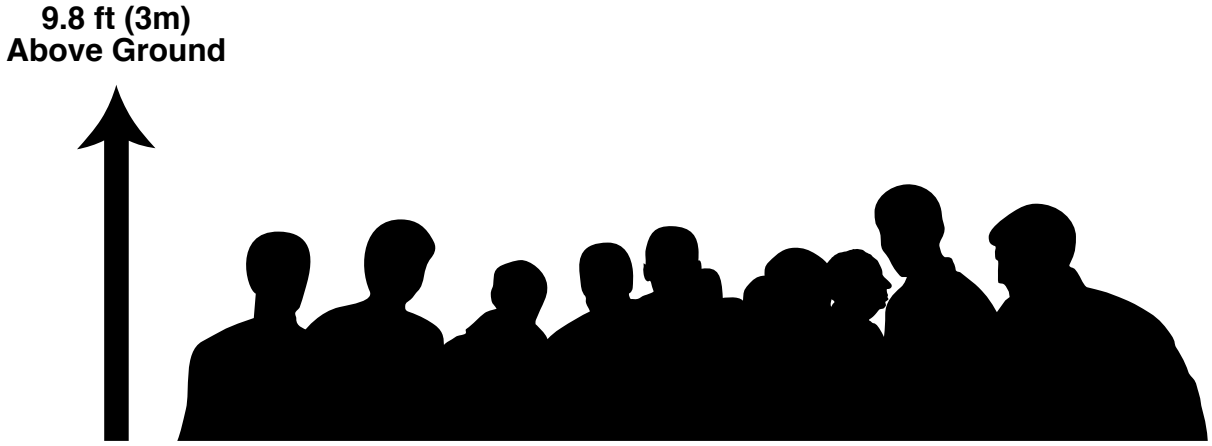
In summary, if an application demands high data rates and more bandwidth in urban or densely populated areas where interference management is feasible, the 2.4 GHz frequency is a suitable choice. On the other hand, for applications requiring long-range communication and better obstacle penetration, particularly 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.



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

DETECTED DEVICES

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.

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	0x006A	KL FRESNEL 6 IP	1Ch, 5Ch, 7Ch, 11Ch, 12Ch, 20Ch, 10Ch, 16Ch, 14Ch

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.

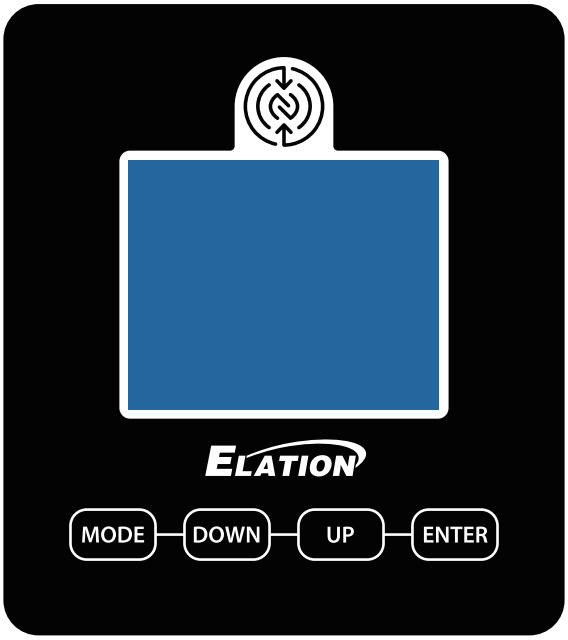
The following parameters are accessible in RDM on this device:

CODE	PARAMETER
0x0200	Sensor Definition
0x0201	Sensor Value
0x0080	Device Model Description
0x0081	Manufacturer Label
0x0082	Device Label
0x00E0	DMX Personality
0x00E1	DMX Personality Description
0x0090	Factory Defaults
0x0020	Queued Message
0x0122	Default Slot Value
0x00C2	Boot Software Version Label
0x00C1	Boot Software Version ID
0x0051	Parameter Description
0x0070	Product Detail ID List

CONTROL PANEL

The fixture includes an easy to navigate system menu. The touch control panel display located on the rear of the fixture (illustrated below) provides access to the main system menu where all necessary system adjustments are made to the fixture.

- Navigate through the main menu options with the **MODE** button.
- Once you reach the desired menu option, press the **ENTER** button to activate that field. Use the **DOWN** and **UP** buttons to adjust the field or to select from the sub-menus, if applicable.
- Pressing the **ENTER** button once more will confirm the setting.
- Exit to the previous menu at any time without making any adjustments by pressing the **MODE** button.



KEY LOCK

The control keys can be configured to lock after a pre-set period of inactivity. By default, the keys will lock after 1 minute of inactivity, but this setting can be configured to activate after a period of inactivity ranging from 10 seconds and 5 minutes, or disabled entirely so that the keys will always remain unlocked. To change this setting, use the control panel keys to navigate to Settings > Display > Screen Lock in the system menu, then use the UP and DOWN keys to select your desired value. Press the ENTER button to confirm your selection. **To unlock the controls, press UP, DOWN, UP, DOWN, ENTER.**

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		
ENCODER MODE	Disabled	For use when running fixture in DMX mode	
	Int CCT GRN Zoom	For use when running fixture in CCT mode with encoder control	
	Int Color Sat Zoom	For use when running fixture in color mode with encoder control	
	Int x,y Zoom	For use when running fixture in x,y mode with encoder control	
	Manual Control	For use when running fixture in manual control mode with encoder control	
DMX	DMX Address	**001** - 512	
	DMX Mode	**1Ch Dimmer**	Encoder 1 assigned to CCT, Encoder 2 assigned to Zoom
		5Ch Dimmer/CCT	
		7Ch Dim/CCT/Clr	
		11Ch RGBMA	
		12Ch Standard	
		20Ch Extended	
		10Ch CMY	
		16Ch CMY Extended	
		14Ch x,y 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	**2.4GHz**
			Sub Gig - US
			Sub Gig - EU
		2.4GHz Chan	**00** - 15
		Sub Gig Chan	**00** - 09
		Enable Mesh	**Off** / On
		Enable Bluetooth	**Off** / On

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		
CONTROL	Dimmer	000% - **100%**	
	Manual Control	Red	0 - **255**
		Green	0 - **255**
		Blue	0 - **255**
		Mint	0 - **255**
		Amber	0 - **255**
		CCT	2400K - 8500K Default = **6000K**
		Green Shift	-100% ~ +100% Default = **0**
		Virtual Color	See Color Macros Table
		Zoom	0% - 100% Default = **50%**
	Primary	On / **Off**	
	Secondary	On / **Off**	
	Self Test	All	
		Dimmer	
		Color	
		Zoom	
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 Rate	900Hz - 1500Hz, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz (Default = **1200Hz**)	
	Color Tuning	Highest Fidelity	
		Balanced Output and Fidelity	
		Highest Output	
	Output Balance	**Bright (Highest Output)**	
		Uniform (Elation Full Spectrum Match)	

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		
SETTINGS (continued)	LED Power Limit	50%	
		60%	
		70%	
		80%	
		90%	
		100%	
	Fan Mode	**Auto**	
		High	
		Silent	
		Mute	
	Display	Screen Delay	10s - 5min (Default = **1min**)
		Screen Lock	Off, 10s - 5min, **Key Lock**
		Rotate Display	Yes / **No** / Auto
	Reset Defaults	Yes / **No**	
INFORMATION	Time	Current Run Time	
		Total Run Time	
		Last Run Time	
	Temperature	Current	
		Max Resettable	
	Humidity	xxx %	
	DMX Values	Red	
		Green	
		...	
	Product IDs	RDM UID	
	Error Logs	Fixture Errors	
	Software Version	Vx.x	
SERVICE (Passcode = 050)	Calibration	Red 000 - 255	
		Green 000 - 255	
		Blue 000 - 255	
		Mint 000 - 255	
		Amber 000 - 255	
		Zoom 000 - 255	
	Reset Last Run (also Resets Max Resettable Temperature)	Yes / No	
	Reset Error Logs	Yes / No	

FAN MODES

The KL Fresnel 6 IP is a high-performance fixture suited for multiple applications. For noise critical environments such as Theater, Opera or Orchestra Halls, it offers various fan operation modes which remove any distraction 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 time, preventing unwanted attraction to the fixture.

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. If possible, they will turn-off, 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 to 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: Recommended for daily operation.

High—Fan speeds are increased throughout for the most efficient cooling of the fixture. 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 down. 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.

Silent - 75-80% max output, fans run at low speed.

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

DMX TRAITS

MODE/CHANNEL									DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	5 ch	7 ch	11 ch	12 ch	20 ch	10 ch	16 ch	14 ch				
1	1	1		1	1	1	1	1		**Dimmer**		0
									000 - 255	Intensity, 0 - 100%		
	2	2		2	2	2	2	2		**Dimmer Fine**		0
									000 - 255	Fine intensity control		
		3		3	3	3	3	3		**Shutter/Strobe**		50
									000 - 031	Shutter closed		
									032 - 063	No function (shutter open)		
									064 - 095	Strobe effect, slow to fast		
									096 - 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**		
									000 - 255	0 - 100%		
			2		5					**Red Fine**		
									000 - 255	Fine adjustment		
			3	5	6					**Green**		
									000 - 255	0 - 100%		
			4		7					**Green Fine**		
									000 - 255	Fine adjustment		
			5	6	8					**Blue**		
									000 - 255	0 - 100%		
			6		9					**Blue Fine**		
									000 - 255	Fine adjustment		
			7	7	10					**Mint**		
									000 - 255	0 - 100%		
			8		11					**Mint Fine**		
									000 - 255	Fine adjustment		
			9	8	12					**Amber**		
									000 - 255	0 - 100%		
			10		13					**Amber Fine**		
									000 - 255	Fine adjustment		
						4	4			**Cyan**		
									000 - 255	0 - 100%		
							5			**Cyan Fine**		
									000 - 255	Fine adjustment		

DMX TRAITS

MODE/CHANNEL									DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	5 ch	7 ch	11 ch	12 ch	20 ch	10 ch	16 ch	14 ch				
						5	6			**Magenta**		
									000 - 255	0 - 100%		
							7			**Magenta Fine**		
									000 - 255	Fine adjustment		
						6	8			**Yellow**		
									000 - 255	0 - 100%		
							9			**Yellow Fine**		
									000 - 255	Fine adjustment		
								4		**x Coordinate**		
									000 - 255	0 - 100%		
								5		**x Coordinate Fine**		
									000 - 255	Fine adjustment		
								6		**y Coordinate**		
									000 - 255	0 - 100%		
								7		**y Coordinate Fine**		
									000 - 255	Fine adjustment		
		4		9		7				**CCT Presets**	X	
									000 - 023	Open		
									024 - 085	2400K - 8500K (see Color Temperature Table)		
									086 - 255	8500K		
										Variable CCT		
	3				14		10	8	000 - 023	Open		
									024 - 255	2400K - 8500K		
	4				15		11	9		**Variable CCT Fine**		
									000 - 255	Fine adjustment		
										Green Shift		
									000	Idle		
					16		12	10	001 - 127	Full Minus Green to Neutral		
									128	Neutral White		
									129 - 255	Neutral to Full Plus Green		
										Color		
									000	Open		
									001 - 179	Virtual Swatch Book (see Virtual Colors Table)		
		5		10	17	8	13	11		**Color Scroll**		
									180 - 201	Clockwise, fast to slow		
									202 - 207	Stop		
									208 - 229	Counter-clockwise, slow to fast		
									230 - 234	Open		

DMX TRAITS

MODE/CHANNEL									DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	5 ch	7 ch	11 ch	12 ch	20 ch	10 ch	16 ch	14 ch				
		5		10	17	8	13	11		**Random Slots**		
									235 - 239	Fast		
									240 - 244	Medium		
									245 - 249	Slow		
									250 - 255	Open		
	5	6	11	11	18	9	14	12		**Zoom**		127
									000 - 255	Narrow to wide		
					19		15	13		**Dim Modes**	X	0
									000 - 020	Standard		
									021 - 040	Stage		
									041 - 060	TV		
									061 - 080	Architectural		
									081 - 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	10.0s		
									142 - 149	Idle		
										Dim to Warm		
									150 - 154	DTW On		
									155 - 159	DTW Off		
									160 - 255	Idle		

DMX TRAITS

MODE/CHANNEL									DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	5 ch	7 ch	11 ch	12 ch	20 ch	10 ch	16 ch	14 ch				
										Control		
									000 - 029	Idle		
									030 - 039	Fan Mode Auto		
									040 - 049	Fan Mode Mute		
									050 - 059	Fan Mode Silent		
									060 - 069	Fan Mode High		
										Reset		
									070 - 079	Reset Zoom		
									080 - 099	Idle		
										Refresh Rate (Hz)		
									100	900		
									101	910		
									102	920		
									103	930		
									104	940		
									105	950		
									106	960		
									107	970		
									108	980		
									109	990		
		7		12	20	10	16	14	110	1000	X	0
									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		

DMX TRAITS

MODE/CHANNEL									DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	5 ch	7 ch	11 ch	12 ch	20 ch	10 ch	16 ch	14 ch				
										Refresh Rate (Hz) (continued)		
									130	1200		
									131	1210		
									132	1220		
									133	1230		
									134	1240		
									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		
		7		12	20	10	16	14	149	1390	X	0
									150	1400		
									151	1410		
									152	1420		
									153	1430		
									154	1440		
									155	1450		
									156	1460		
									157	1470		
									158	1480		
									159	1490		
									160	1500		
									161	2500		
									162	4000		
									163	5000		
									164	6000		
									165	10000		
									166	15000		
									167	20000		
									168	25000		
									169 - 174	Idle		

DMX TRAITS

MODE/CHANNEL									DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	5 ch	7 ch	11 ch	12 ch	20 ch	10 ch	16 ch	14 ch				
										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)		
		7		12	20	10	16	14	183 - 184	Uniform (Elation Full Spectrum Match)	X	0
									185 - 200	Idle		
										Dimmer Curves		
									201 - 210	Linear		
									211 - 220	Square		
									221 - 230	Inverse Square		
									231 - 240	S-Curve		
									241 - 255	Idle		

COLOR TEMPERATURE TABLE

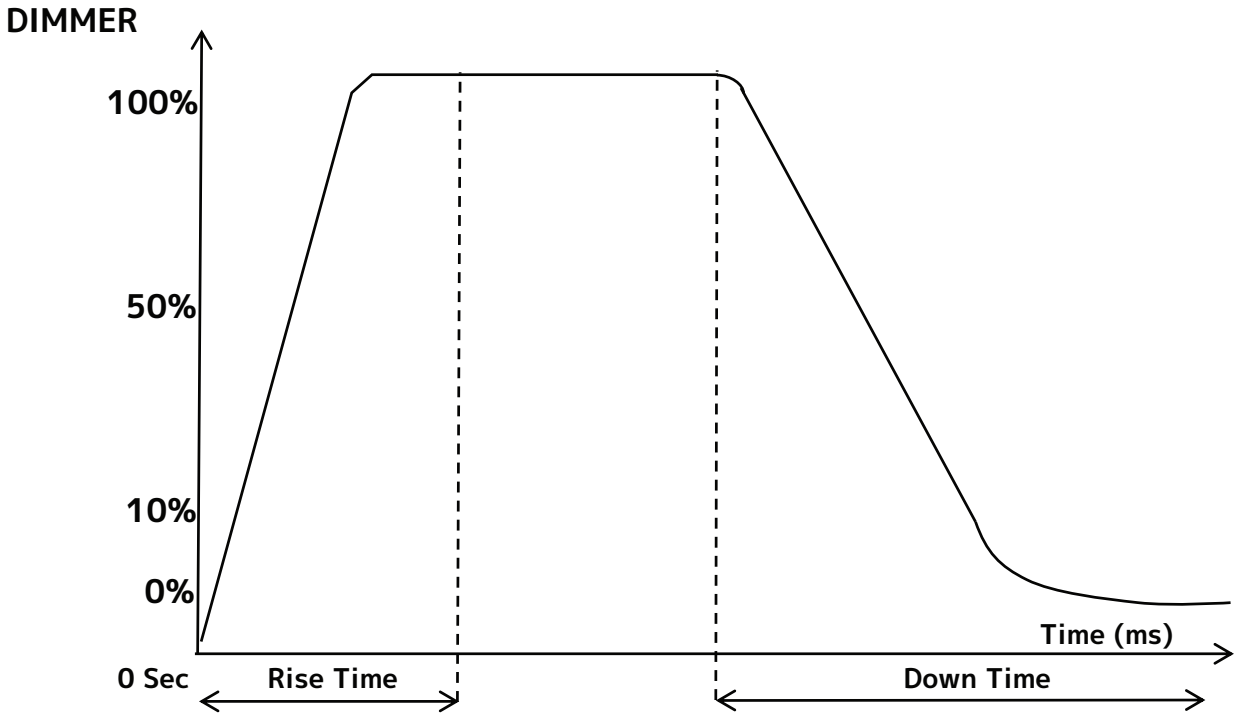
Colors shown are an approximate representation. **https://www.luxalight.eu/en/cie-convertor**

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

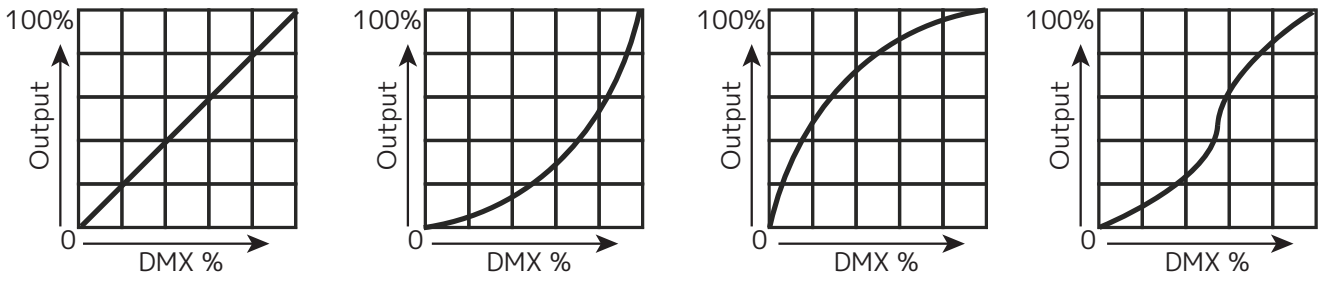
VIRTUAL COLORS

VALUE	FILTER #	COLOR	VALUE	FILTER #	COLOR
1	7	Pale Yellow	32	49	Medium Purple
2	103	Straw	33	58	Lavender
3	151	Gold Tint	34	199	Palace Blue
4	100	Spring Yellow	35	119	Dark Blue
5	10	Medium Yellow	36	132	Medium Blue
6	101	Yellow	37	120	Deep Blue
7	104	Deep Amber	38	165	Daylight Blue
8	15	Deep Straw	39	161	Slate Blue
9	179	Loving Amber	40	118	Light Blue
10	21	Gold Amber	41	68	Sky Blue
11	105	Orange	42	143	Pale Navy Blue
12	158	Deep Orange	43	131	Marine Blue
13	22	Dark Amber	44	115	Peacock Blue
14	778	Millennium Gold	45	172	Lagoon Blue
15	135	Deep Golden Amber	46	116	Medium Blue Green
16	24	Scarlet	47	90	Dark Yellow Green
17	106	Primary Red	48	139	Primary Green
18	26	Bright Red	49	122	Fern Green
19	27	Medium Red	50	89	Moss Green
20	19	Fire	51	124	Dark Green
21	157	Pink	52	88	Lime Green
22	36	Medium Pink	53	138	Pale Green
23	111	Dark Pink	54	203	Quarter CT Blue
24	128	Bright Pink	55	202	Half CT Blue
25	148	Bright Rose	56	201	Full CT Blue
26	332	Special Rose Pink	57	200	Double CT Blue
27	793	Vanity Fair	58	206	Quarter CT Orange
28	113	Magenta	59	205	Half CT Orange
29	46	Dark Magenta	60	204	Full CT Orange
30	48	Rose Purple	61-179	-	No Function
31	126	Mauve			

DIMMER CURVES



Dimming Curve Ramp Effect	0 sec Fade Time (255 / 0)		1 sec Fade Time (255 / 0)	
	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



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

CODE	DESCRIPTION
Fan	Fan error
Temperature	Temperature error
Zoom	Zoom motor error

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.

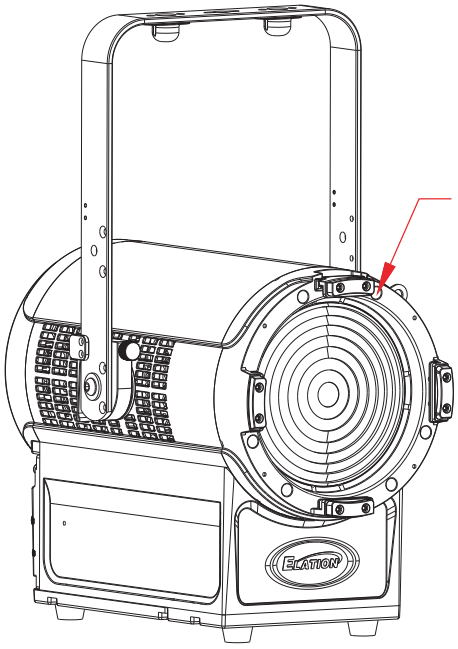
Refer to the table and diagram below for torque specifications.

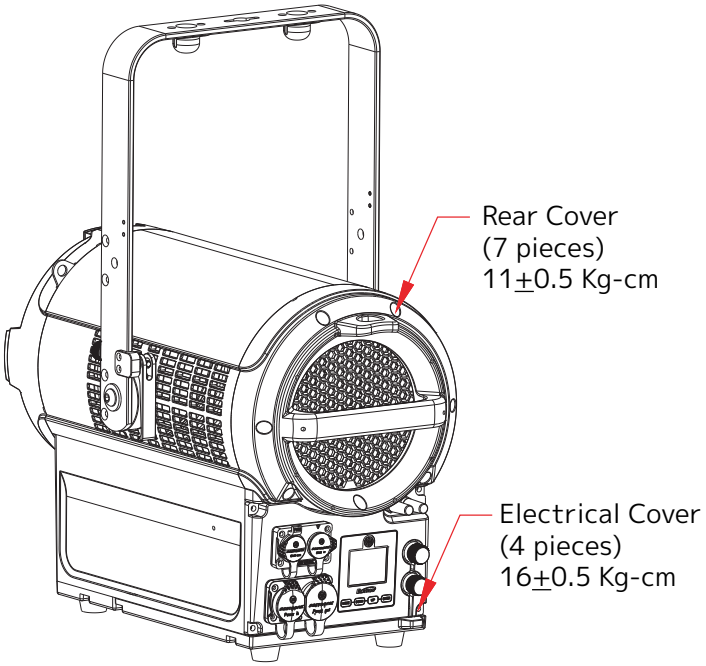
TORQUE DRIVERS (Recommended): UTICA TS-30 (shown)
ALTERNATE DRIVERS:

- Proto J6107A
- Wiha 28887



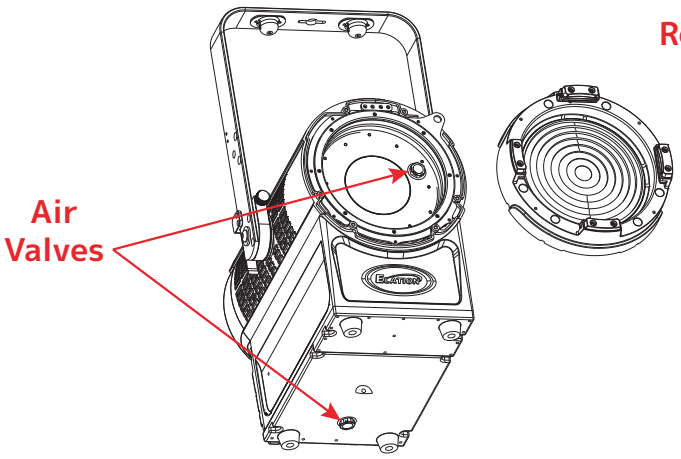
CAUTION! DO NOT OVER TORQUE SCREWS, AS THIS CAN CAUSE LEAKAGE ISSUES!





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 an air valve on the underside of the fixture, as well on the front of the unit behind the lens cover. **Please note that both ports should be tested to confirm IP integrity, and the same test parameter values apply to both valves.** 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					
Minimum Pressure	**Maximum Pressure**	**Inflation Time**	**Stabilization Time**	**Detection Time**	**Acceptable Leakage**
20 kPa	23 kPa	30 s	15 s	15 s	100 Pa

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.

Updates can be performed over the **Aria** connection, or with an **Elation C-Loader** device. Please contact Elation service for details or to order the C-Loader device.

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

ORDERING INFORMATION

SKU (US)	SKU (EU)	DESCRIPTION
KLF913	1237000411	Elation KL Fresnel 6 IP
8050000053	Pending	Omega Bracket

SPECIFICATIONS

SOURCE
250W 6000K RGBMA LED Engine
50,000 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:
7,400 (Integrating Sphere)
TBA (Goniometer)
CRI 94
TLCI 95
Zoom Range 8° - 60°
Beam Angle 7.5° - 42°
Field Angle 12° - 60°

EFFECTS
Motorized Zoom
Variable Strobe Rate: 1- 20Hz
Dim-to-Warm/ Red Shift Emulation
Variable 16-bit Dimming Modes and Curves
DMX Controllable LED Refresh Rate (900Hz-25kHz)

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

CONTROL / CONNECTIONS
9 DMX Channel Modes (1 ,5, 7, 11, 12, 20, 10, 16, 14)
Manual and DMX Controlled Dimmer. Color & Zoom
4 DMX Controllable Fan Modes for Silent Operation
Dual Rotary Encoders
Full Color 180° Reversible LCD Menu Display
RDM (Remote Device Management)
Aria x2 Wireless Device Management
NFC Configuration
IP65 5pin DMX and IP65 Locking Power Cable In/ Out

SIZE / WEIGHT
Length: 15.9" (404 mm)
Length (Yoke 0°): 19.5" (495 mm)
Width: 10.1" (256 mm)
Height (Fixture Body): 11.9" (302 mm)
Height (Yoke 90°): 19.6" (497 mm)
Weight: 25.1 lbs (11.4 kg)

ELECTRICAL / THERMAL
AC 100-240V - 50/60Hz
268W Max Power Consumption
Power Thru Capacity: 4A (1 unit @115V, 3 units @240V)
5°F to 113°F (-15°C to 45°C)
BTU/hr (+/- 10%) 913.8

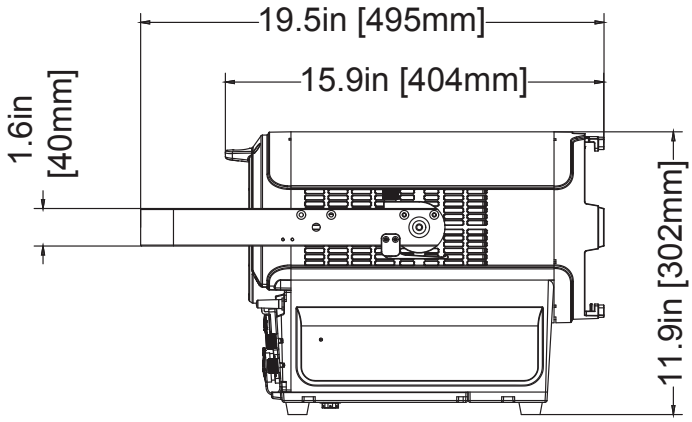
INCLUDED ITEMS
Gel Frame
Safety Cable
Barndoor
IP65 Locking Power Cable

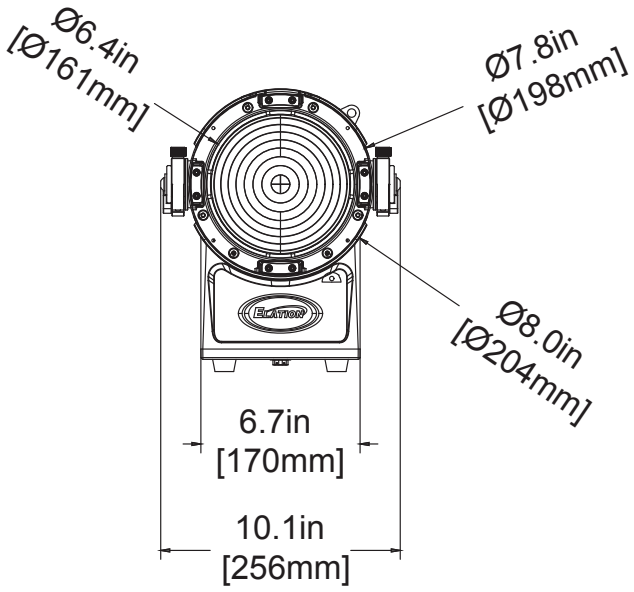
OPTIONAL ITEMS
Omega Bracket

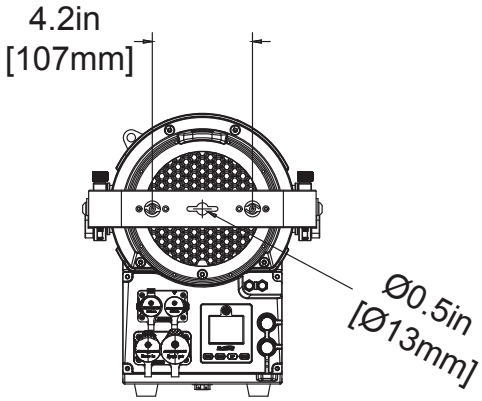
APPROVALS / RATINGS
CE | cETLus | IP65 | FCC | UKCA

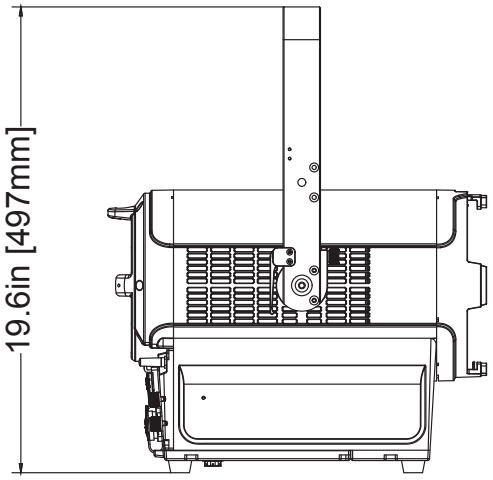
Specifications and documentation subject to change without notice.

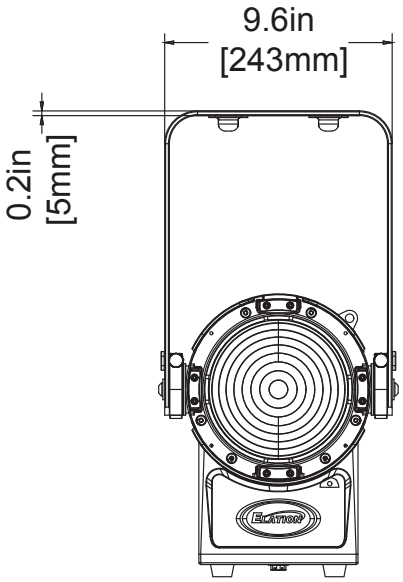
DIMENSIONAL DRAWINGS











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 helping protect 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!

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