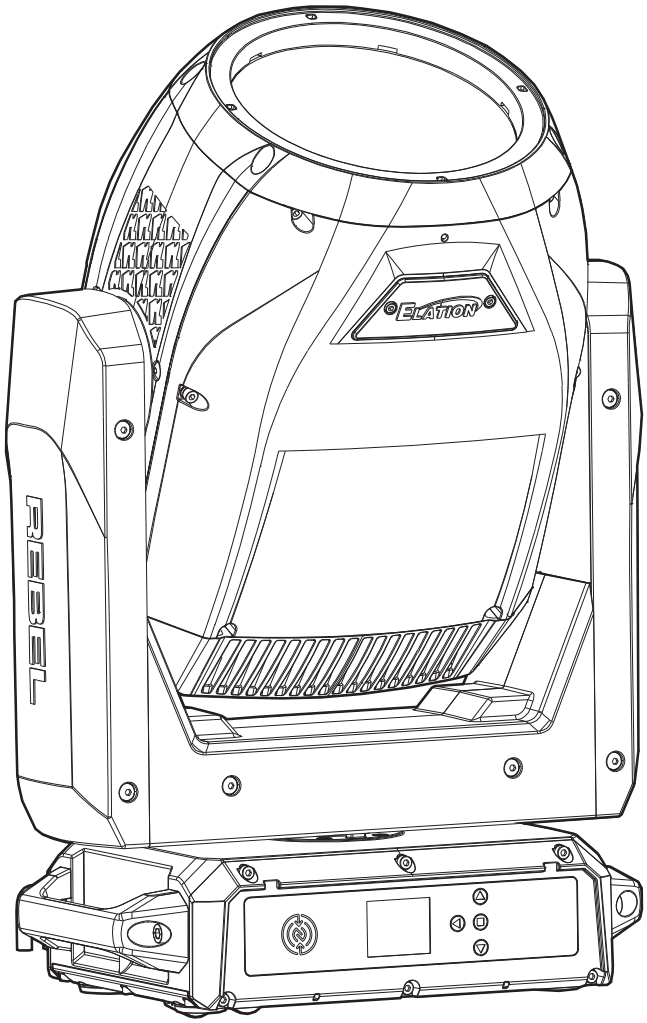
ELATION®



REBEL™ Dartz

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
02/02/2026	1.0	1.01	28 / 35	Initial Release
02/13/2026	1.1	N/C	No Change	Updated IP66 Rated, Gobo Replacement, Specifications
03/11/2026	1.2	N/C	No Change	Updated Gobo Replacement
06/02/2026	1.3	N/C	No Change	Updated: IP65 Rated, Safety Guidelines, Installation Guidelines, Gobos Color and Effects, NFC, Specifications, Dimensional Drawings

CONTENTS

GENERAL INFORMATION

INTRODUCTION
Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information. **This device is intended for professional use only.**

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

BOX CONTENTS
Omega Bracket (x2)
Safety Cable
Power Cable

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

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

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

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

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS 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.

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 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 (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!

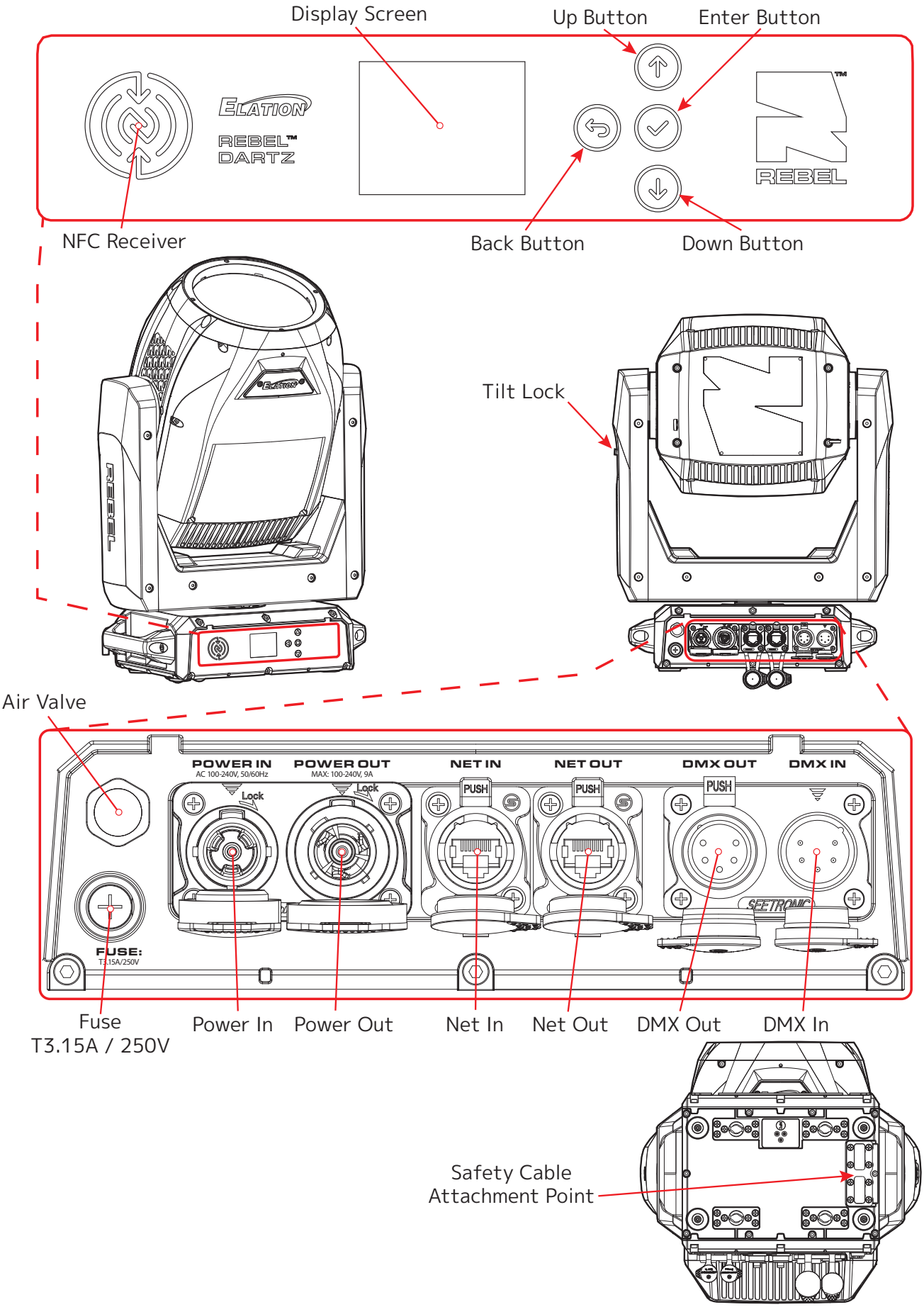
NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!

MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 1.6 FEET (0.5 METERS)
MINIMUM DISTANCE OF FLAMMABLE MATERIALS FROM THE SURFACE 1.6 FEET (0.5 METER)
MINIMUM DISTANCE TO LIGHTED OBJECTS IS 16.4 FEET (5 METERS)
AMBIENT OPERATING TEMPERATURE RANGE IS -4°F TO 113°F (-20°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


Display Screen
Up Button
Enter Button
NFC Receiver
Back Button
Down Button
Tilt Lock
Air Valve
POWER IN
AC 100-240V, 50/60Hz
POWER OUT
MAX: 100-240V, 9A
NET IN
NET OUT
DMX OUT
DMX IN
Lock
PUSH
FUSE:
T3.15A/250V
Fuse
T3.15A / 250V
Power In
Power Out
Net In
Net Out
DMX Out
DMX In
Safety Cable
Attachment Point

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 16.4 FEET (5 METERS)
AMBIENT OPERATING TEMPERATURE RANGE IS -4°F TO 113° F (-20°C TO 45° C).

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

Fixture **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

Before rigging/mounting the fixture to any metal truss/structure or placing the fixture on any surface, a professional equipment installer MUST be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture, clamps, cables, and accessories.

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

Ambient operating temperature range is **-4°F to 113°F (-20°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.

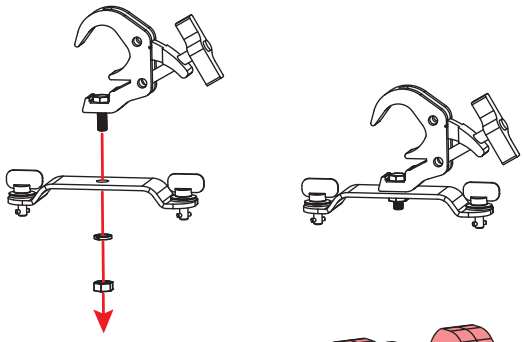
TRANSPORTATION AND STORAGE
Pan and tilt locks are for service purposes only and not intended to secure the fixture during transportation; always disengage them before moving or transporting the unit to avoid damage to the internal mechanics.

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.

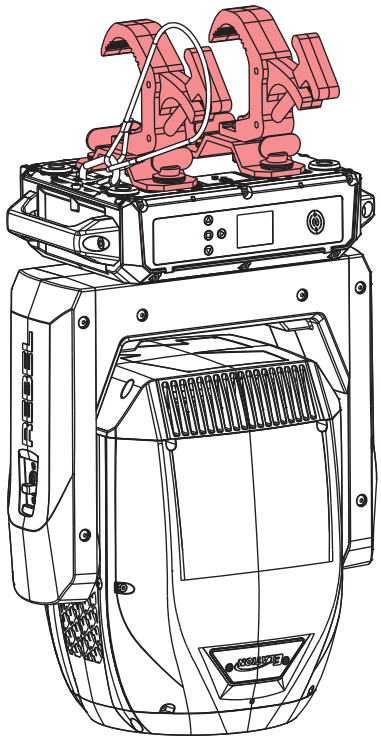
INSTALLATION GUIDELINES

OMEGA BRACKETS WITH CLAMP INSTALLATION:

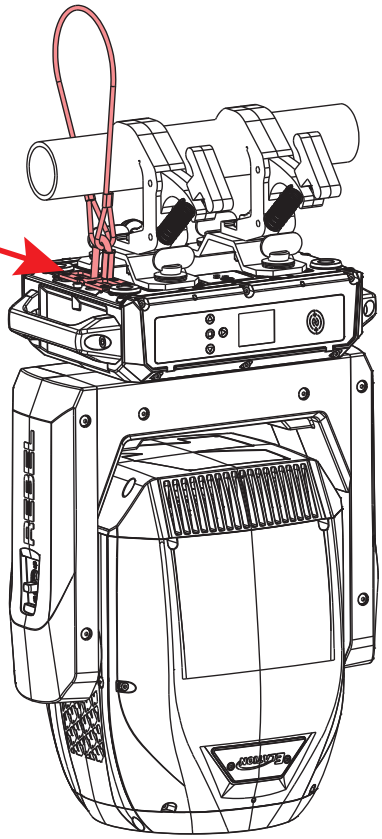
When mounting a fixture to a truss, be sure to secure an appropriately rated professional grade rigging clamp to the included **Omega brackets** using an M10 screw fitted through the center hole of the Omega brackets. Insert the Omega brackets into the matching holes on the bottom of the fixture base. Secure the Omega brackets to the fixture by turning each quick-lock fastener 1/4 turn clockwise, making sure the fastener is completely locked. **Please note that two mounting clamps and two Omega brackets are required to securely install this fixture.** Omega brackets can be installed onto the fixture as illustrated below.



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.



SAFETY CABLE ATTACHMENT POINT



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** (not included) on the underside of the base. Be sure to use only the designated rigging point 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.

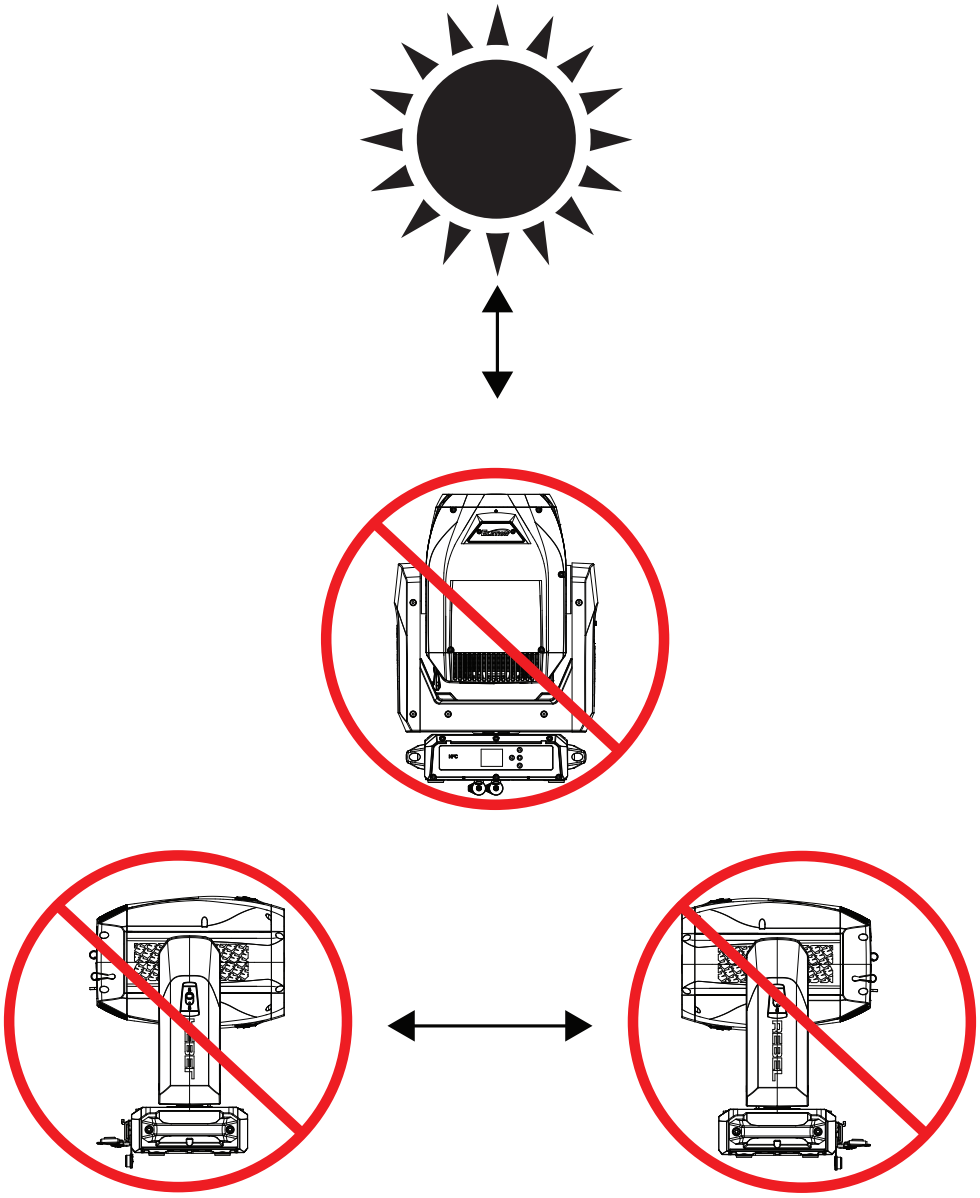
INSTALLATION GUIDELINES

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.

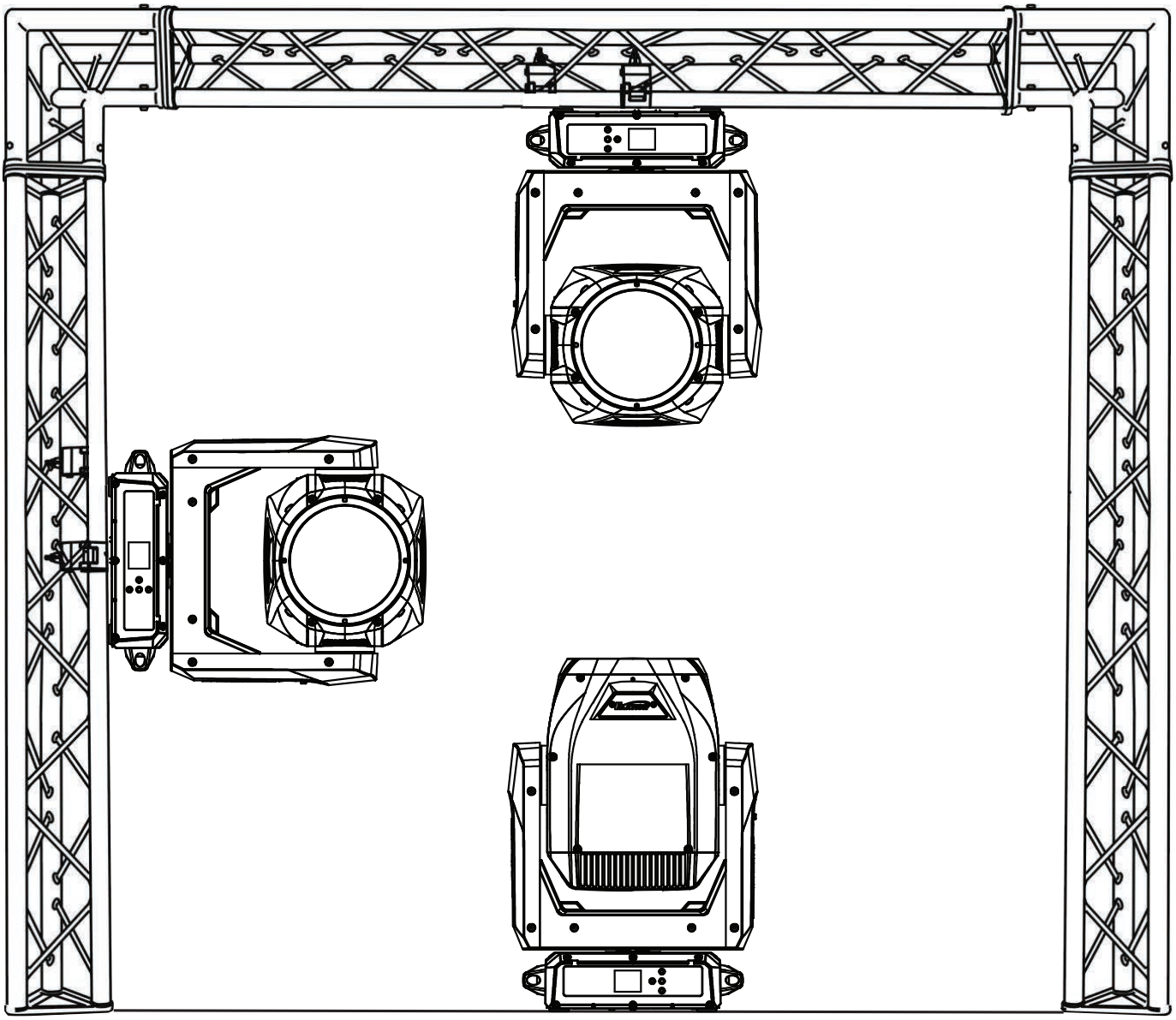


INSTALLATION GUIDELINES

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. See the illustration below for reference.

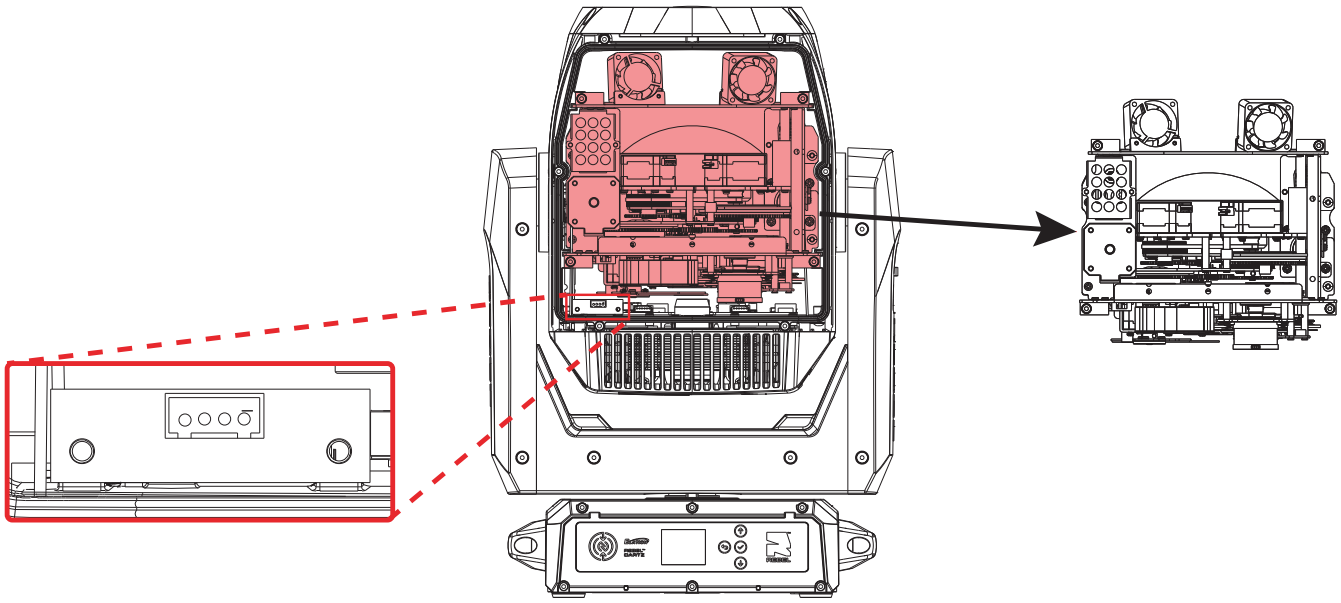


FALLING FIXTURES CAN CAUSE SEVERE INJURY OR SERIOUS EQUIPMENT DAMAGE! FOR THIS REASON, FIXTURES SHOULD BE INSTALLED AND INSPECTED ONLY BY QUALIFIED PERSONNEL. DO NOT INSTALL THE UNIT IF YOU LACK THE QUALIFICATIONS TO DO SO, OR IF YOU HAVE DOUBTS ABOUT THE SAFETY AND SECURITY OF THE INSTALLATION SETUP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

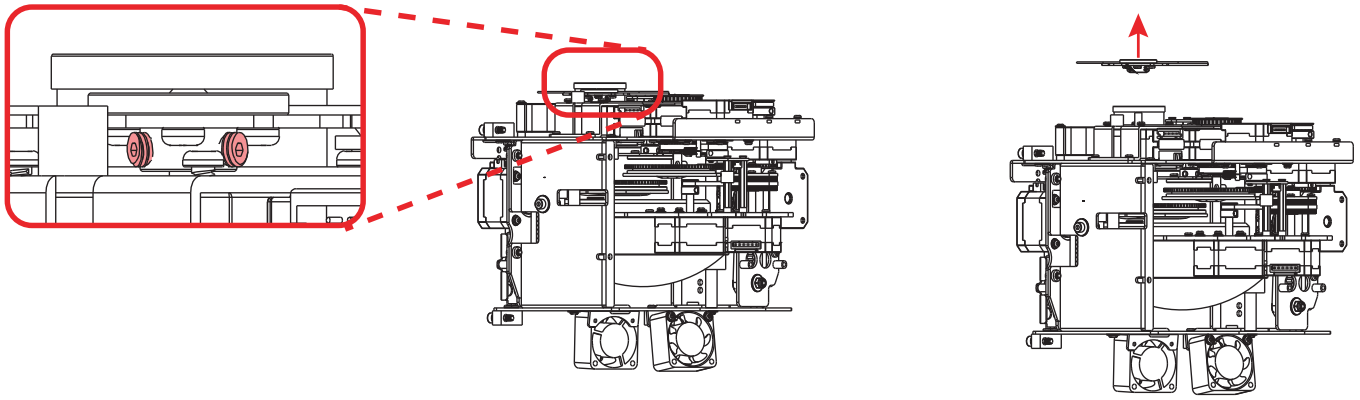
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

GOBO REPLACEMENT

1. Orient the head in the vertical position, then remove the head covers. Locate and disconnect the electrical connector for the gobo module, which should be located at the lower left of the head. Remove the four (4) screws indicated in the diagram below, then remove the gobo module from the head.

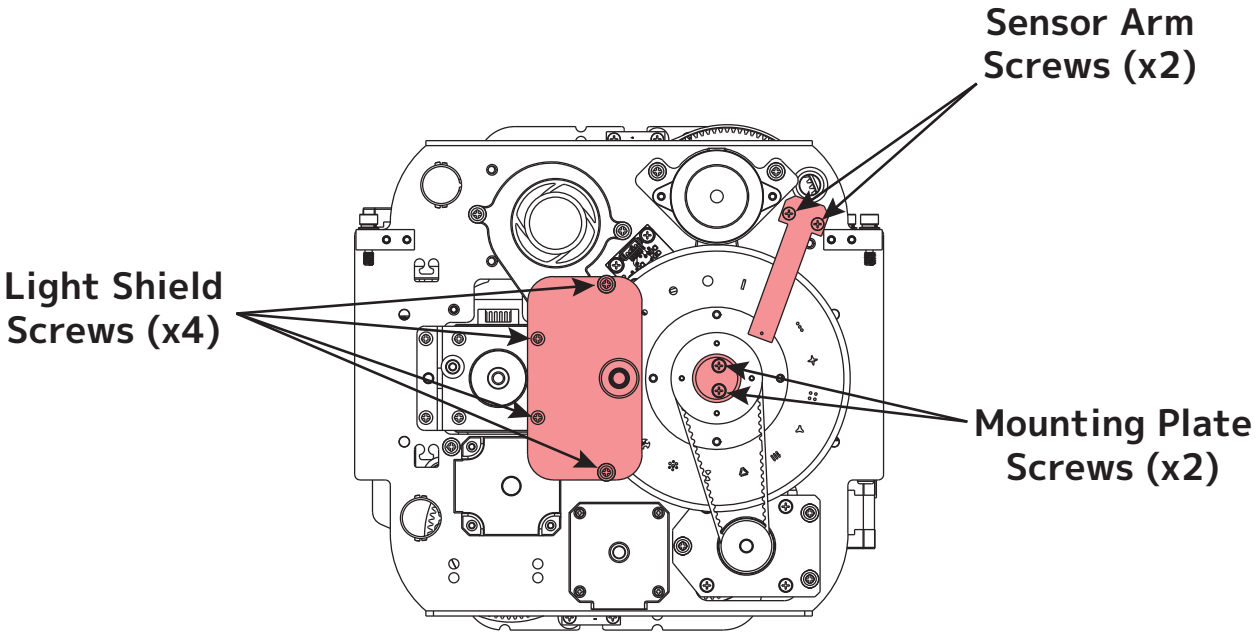


2. Locate and remove the two screws under the color filter. Remove the color filter, then flip the module over to expose the bottom side.

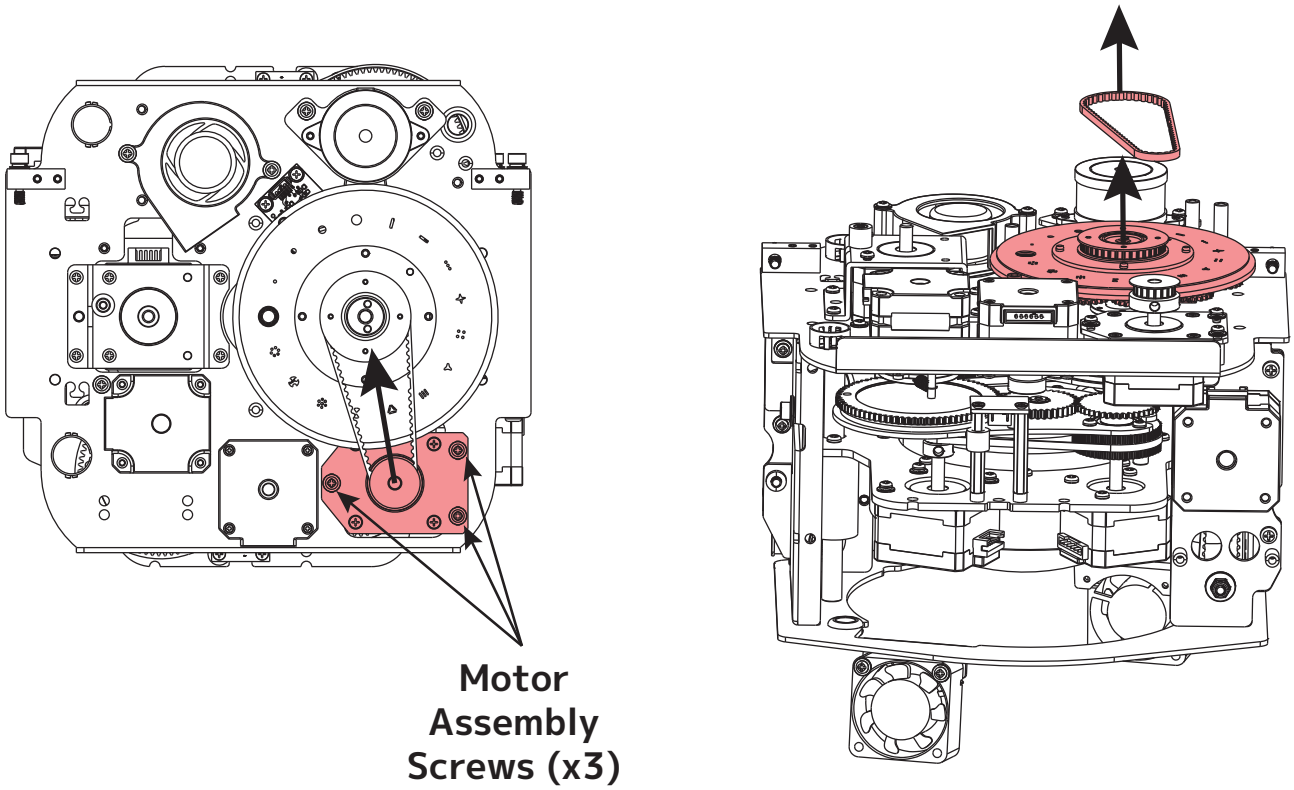


GOBO REPLACEMENT

3. Remove the two screws for the sensor arm, two for the mounting plate, and four for the light shields, as shown below. Remove these components.

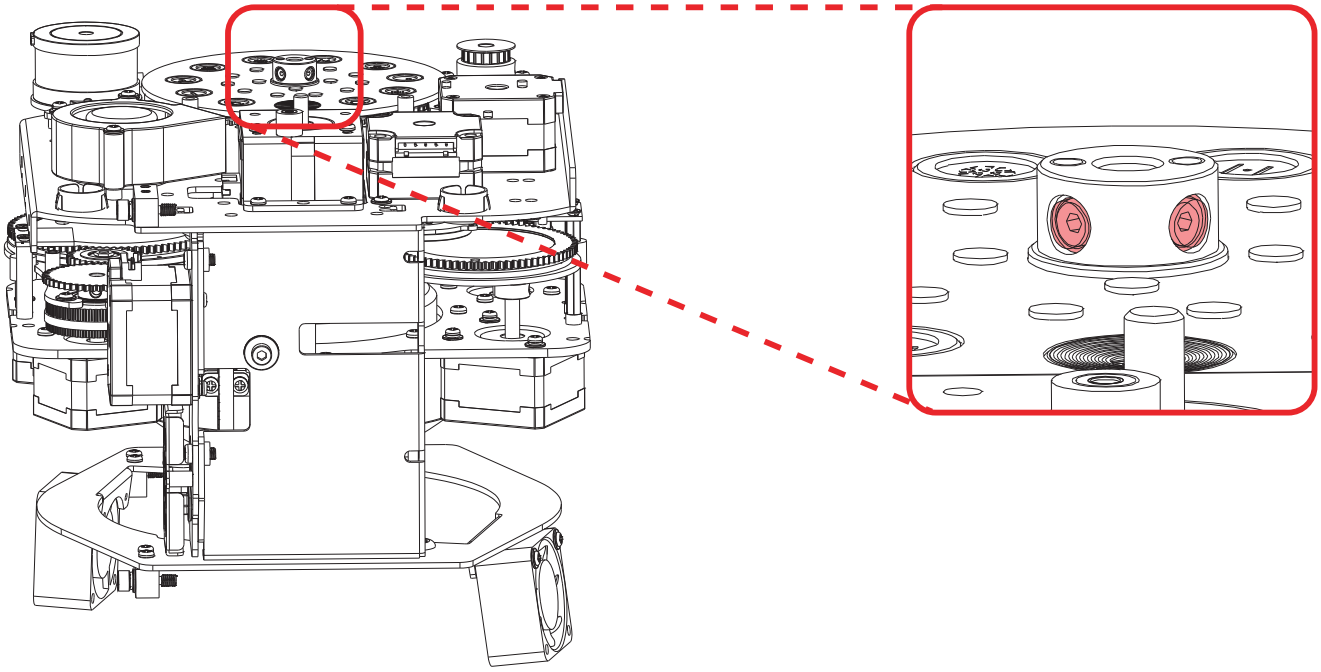


4. Loosen but do not remove the three screws for the motor assembly, then move the motor assembly towards the fixed gobo wheel. This should loosen the tension on the drive belt, which can then be removed along with the fixed gobo wheel.

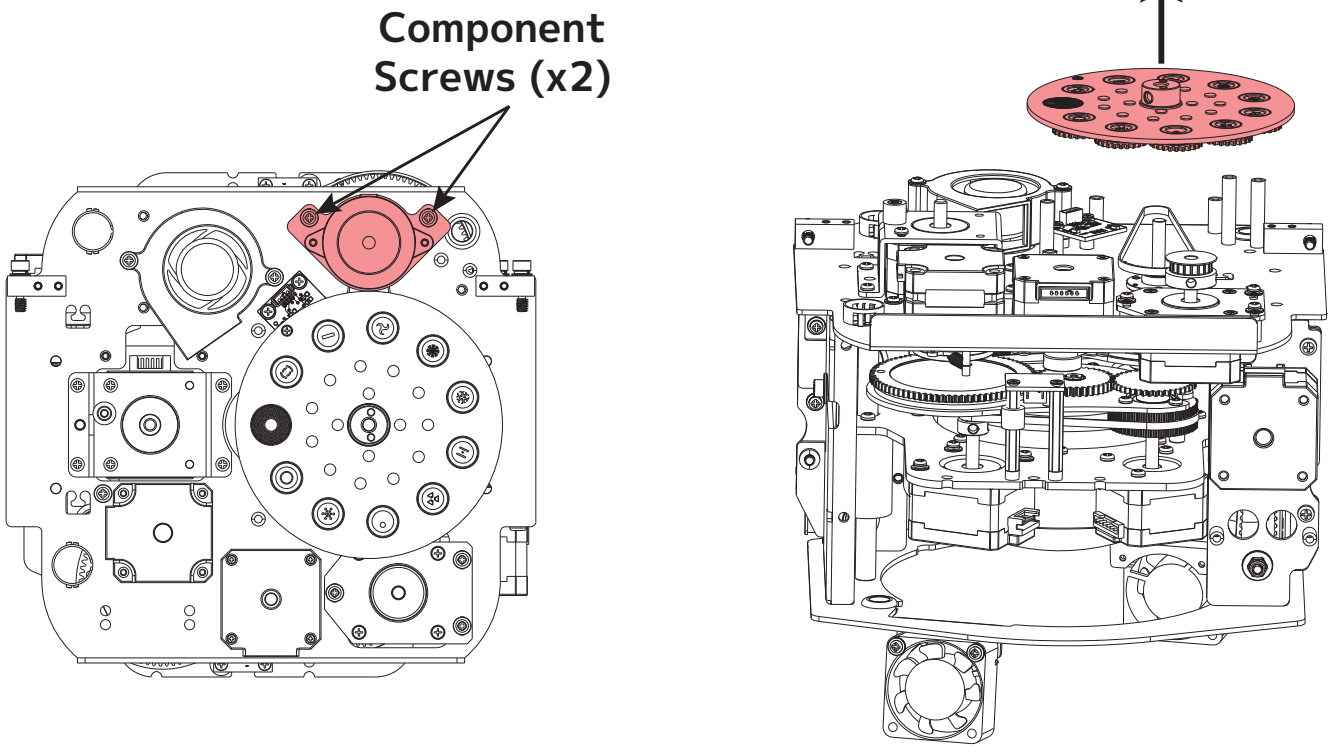


GOBO REPLACEMENT

5. Locate and remove the two screws on the central hub of the rotating gobo wheel, as shown below.

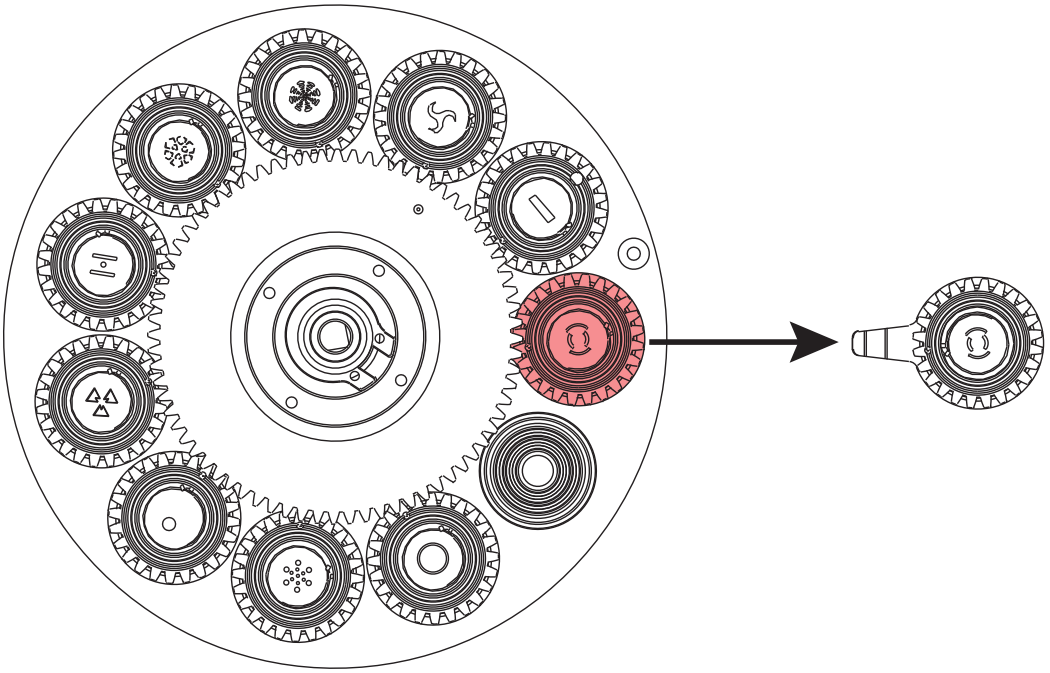


6. Locate and remove the two screws for the component shown on the left, then remove the rotating gobo wheel from the module.

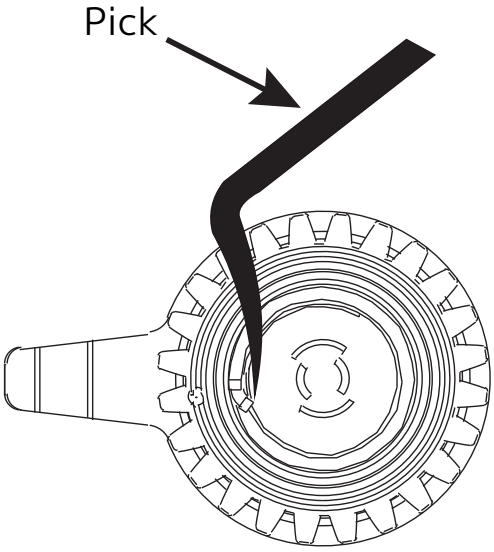


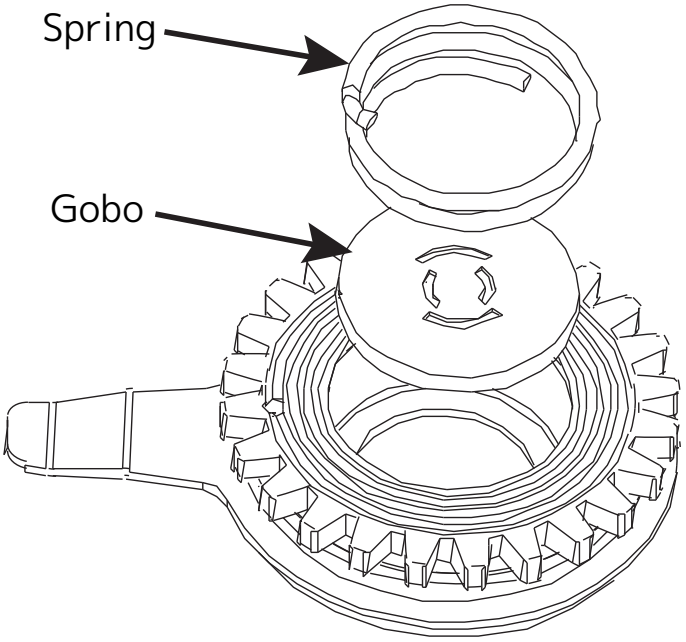
GOBO REPLACEMENT

7. Firmly grasp the gobo holder containing the gobo that you wish to replace. Lift the gobo holder clear of its socket in the gobo wheel, then pull the gobo holder outward. The gobo holder should come free of the gobo wheel.



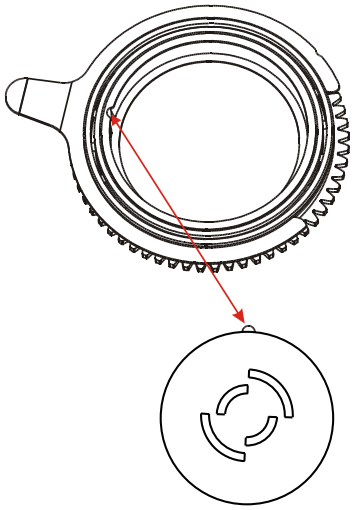
8. Place the gobo holder on a flat, stable surface with the geared wheel facing downwards. Use a pick to press the tab that releases the gobo spring, then remove both the spring and the gobo from the holder. **Use caution to avoid scratching the gobo during this process.**

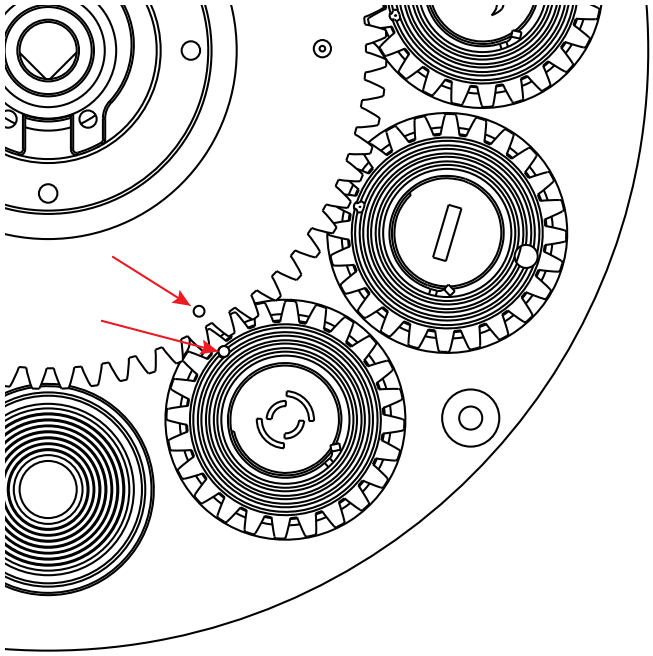




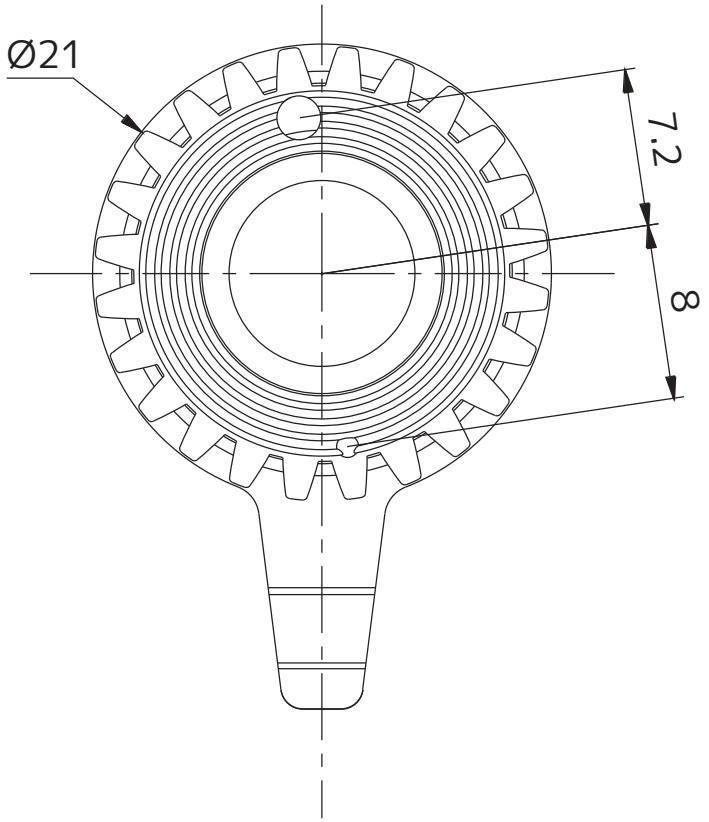
GOBO REPLACEMENT

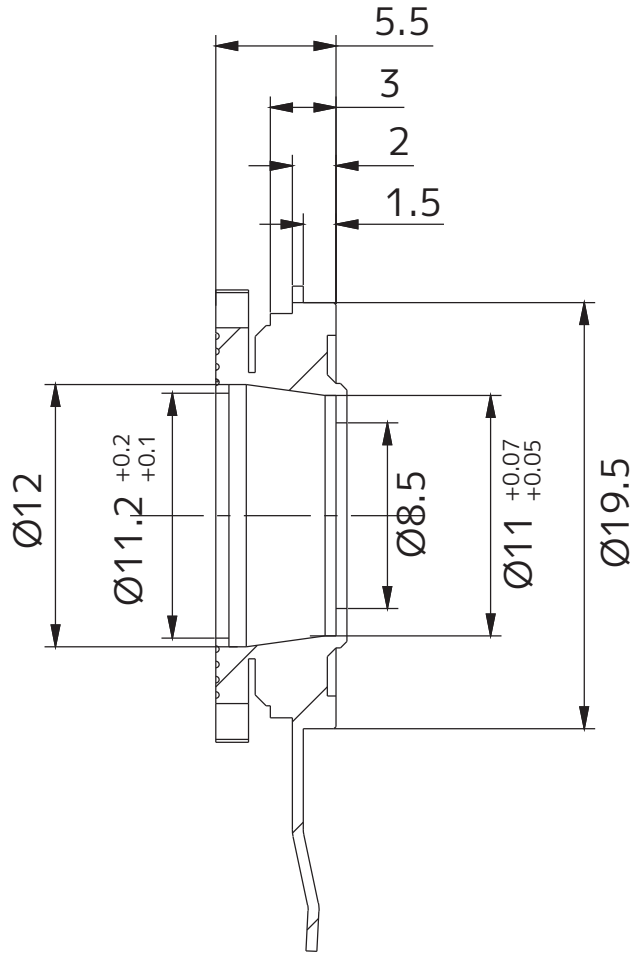
9. Place the new gobo in the gobo holder, making sure that the indexing tab on the gobo is aligned with the notch in the gobo holder. Secure in place with the gobo spring, then reassemble the unit by reversing steps 1-4. When re-inserting the gobo holder in the gobo wheel, make sure that the indexing notches on the gobo holder and gobo wheels are aligned.





GOBO HOLDER DIMENSIONS





GOBOS, COLORS, AND EFFECTS

ROTATING GOBOS

1 2 3 4 5

6 7 8 9 10

FIXED GOBOS

1 2 3 4 5 6 7 8

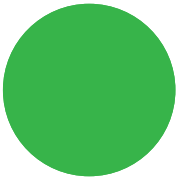
9 10 11 12 13 14 15 16

PRISMS

8 Prism

6 Facet Linear

COLORS



True Green

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.

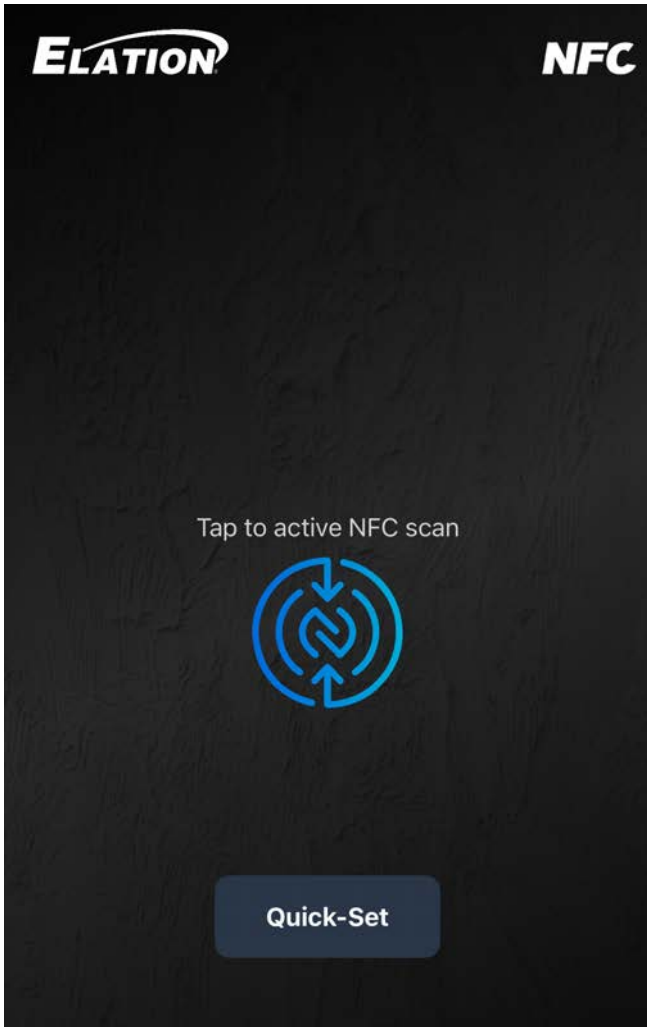
Android Apple

NFC APP HOME PAGE:
Upon opening the NFC app, two options will be displated 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 throught 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 features allows the user to search through a list of available fixtures to select which one to connect to. This option will not appear if not fixtures have been added yet, as seen in the image of the home screen to the right.

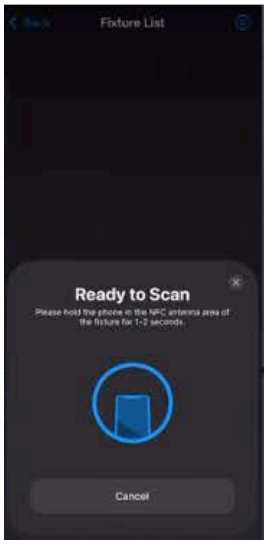


The following sections explain in detail how each option works.

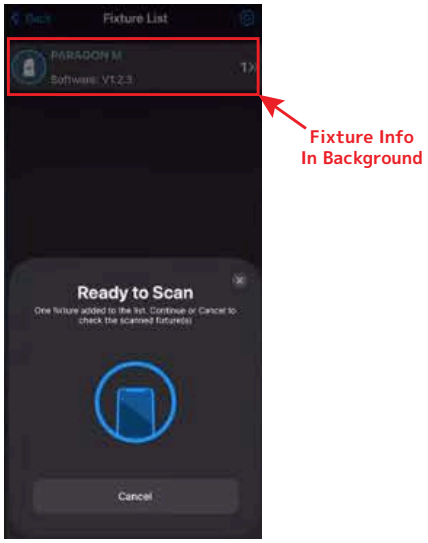
NEAR FIELD COMMUNICATION (NFC)

TAP TO ACTIVATE

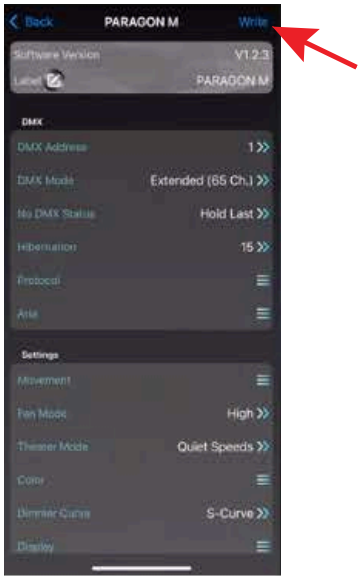
1. When the NFC icon on the app is tapped, a window will appear at the bottom informing the user that the app is ready to scan. At this point, the controlling device should be held up to the NFC icon on the fixture.



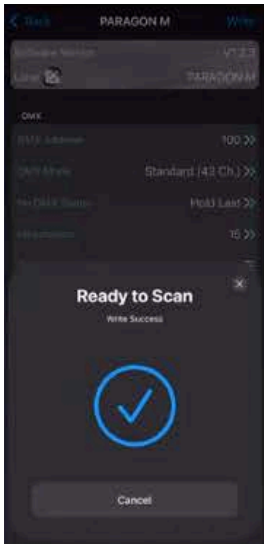
2. The app will pull the settings from the fixture, and the fixture's name will appear in the background. Press "Cancel" on the scan window to close it out and access the fixture shown in the app background.



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.



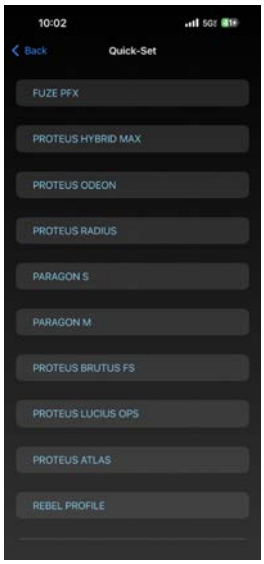
4. A window will open up informing the user that the app is ready to scan. Hold the controlling device up to the NFC icon on the fixture, and the updated settings will be loaded to the fixture. Upon completion, a message stating "Write Success" will be shown.



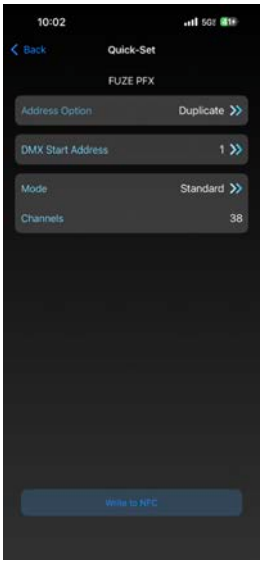
NEAR FIELD COMMUNICATION (NFC)

Quick Set

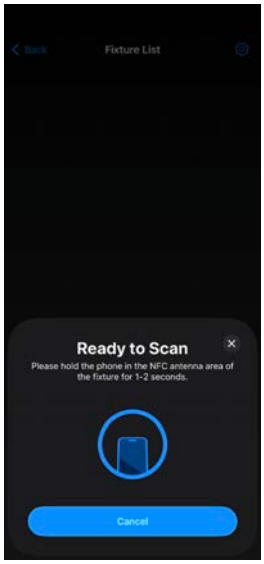
1. Select the fixture model from the list of options that is shown.



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.

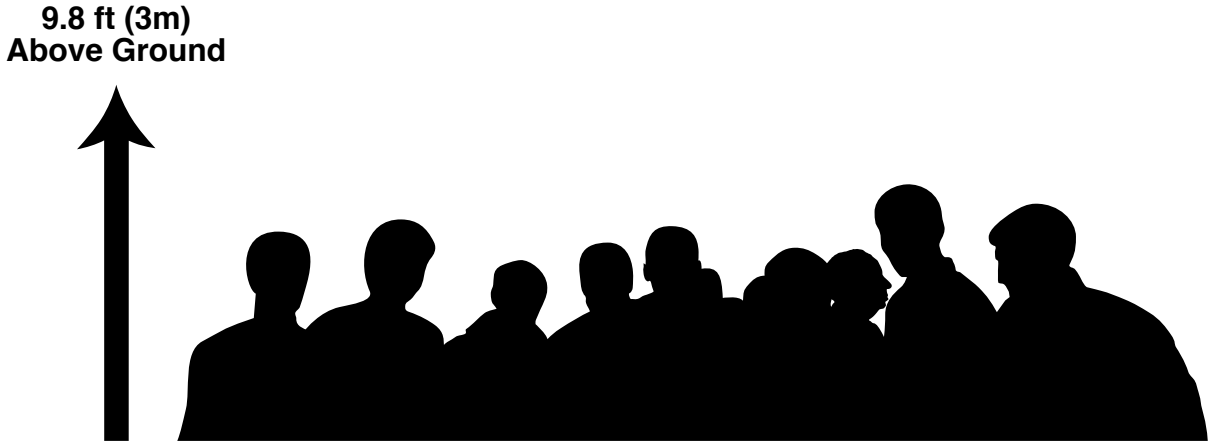
In summary, if an application demands high data rates and more bandwidth in urban or densely populated areas where interference management is feasible, the 2.4 GHz frequency is a suitable choice. On the other hand, for applications requiring long-range communication and better obstacle penetration, particularly 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 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 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
0x22A6	0-0XFFFF	0x0078	Standard (28), Extended (34)

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
0x0011	Proxied Device Count
0x0200	Sensor Definition
0x0201	Sensor Value
0x0080	Device Model Description
0x0081	Manufacturer Label
0x0082	Device Label
0x00E0	DMX Personality
0x00E1	DMX Personality Description
0x0400	Device Hours
0x0015	Comms Status
0x0031	Status ID Description
0x0032	Clear Status ID
0x0401	Lamp Hours
0x0402	Lamp Strikes
0x0403	Lamp State
0x0404	Lamp Mode

CODE	PARAMETER
0x0405	Device Power Cycles
0x0600	Pan Invert
0x0601	Tilt Invert
0x0602	Pan Tilt Swap
0x0500	Display Invert
0x0501	Display Level
0x0603	Realtime Clock
0x1010	Power State
0x1031	Preset Playback
0x0122	Default Slot Value
0x00C2	Boot Software Version Label
0x00C1	Boot Software Version ID
0x0070	Product Detail ID List
0x0030	Status Messages
0x1001	Reset Device
0x0014	Undefined PID

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 **DOWN** and **UP** buttons.
- 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 **BACK** 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.**

ARIA

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.

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		
DMX	DMX Address	**001** - 512	
	DMX Mode	28Ch Standard	
		35Ch Extended	
	No DMX Status	**Hold Last**	
		Fade to Black	
		Sun Protection	
		Hibernation	Off, 1min - 99min **Default = 15min**
		Ethernet Switch to DMX Input	
	Protocol	Select Signal	**DMX**
			Art-Net
			sACN
			Aria In - DMX Out
			DMX In - Aria Out
		Universe	0 - 32767 (**Default = 1**)
		IP Address	**Manual: X.X.X.X**
			DHCP
			Unique Static: 2.X.X.X; 10.X.X.X; 172.X.X.X; 192.X.X.X
		Subnet Mask	**255.0.0.0**
		Ethernet DMX Out	**Off** / On
	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
CONTROL	Manual Control	Dimmer 0% - **100%**	
		Pan	
		Tilt	
		...	
	Reset	All	
		Pan Tilt	
		Gobo	
		Beam	
		Others	

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		
CONTROL (continued)	Self Test	All	
		Dimmer	
		Movement	
		Color Mix	
		Gobo	
		Beam	
SETTINGS	Fan Mode	Mute	
		Studio	
		Low	
		High	
		Auto	
	Movement	Pan Invert	**Off** / On
		Tilt Invert	**Off** / On
		Pan Degree	360 / **540**
		Tilt Degree	360 / **270**
		Pan Tilt Path	Shortest Path / **Continue Path**
		Pan Tilt Speed	Smooth / **Fast**
		Pan Tilt Feedback	Off / **On**
	Auto Green (auto inserts when only Lime LED is on, and overrides DMX)	**On** / Off	
	Dimmer Curve	Linear	
		Square	
		Square Inverse	
		S-Curve	
	Dimmer Mode	Standard	
		Stage	
		TV	
		Architectural	
		Theatre	
		Stage 2	
		Dim Speed	0s - 10s
	LED Refresh Rate	**1200Hz**, 1300Hz, 1400Hz, 1500Hz, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz	
	LED Power Limit	50%	
		60%	
		70%	
		80%	
		90%	
		100%	

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		
SETTINGS (continued)	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 Time	
		Total Run Time	
		Last Run Time	
		LED Time	
	Temperature	Head	
		Base	
		LED	
	Humidity	Head	
		Base	
	Fan	Fan xx	
		...	
	DMX Values	Pan	
		Tilt	
		...	
	Product IDs	RDM UID	
	Error Logs	Fixture Errors	
	Software Version	Vx.x	
	Fixture MAC Address	xx:xx:xx:xx:xx:xx	
SERVICE (Password = 050)	Calibration	Dimmer	
		Pan	
		Tilt	
		...	
	Reset Last Run	Yes / No	
	Reset Error Logs	Yes / No	

DISPLAY SHORTCUTS	
Function	**Key Sequence**
Unlock Display	With fixture powered on, press UP, DOWN, UP, DOWN, ENTER.
Disable Pan/Tilt	With fixture powered on, press and hold UP and DOWN together for 3 seconds
Reset to Factory Defaults	With fixture powered on, press and hold BACK and ENTER for 10 seconds; after countdown, select YES to reset, or NO to return to menu without making changes

SUN PROTECTION MODE

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

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

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

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

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

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

The sun protection position deactivates under the following conditions:
1. Connect DMX signal.
2. Remote DMX control: Hold "Sun Protection Off" for 3s.

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

HIBERNATION MODE

To reduce wear on the fixture and its components, this mode disables motors and most electronics. Set the hibernation mode countdown time in the Display Menu: "DMX / No DMX Status / Hibernation". Hibernation can be fully disabled.

The hibernation mode activates under the following conditions:
1. Loss of DMX: the fixture enters hibernation after the timeout expires. Default is 15 minutes.
2. Remote DMX control: Hold "Hibernate Fixture" for 3s

The hibernation mode deactivates under the following conditions:
1. Connect DMX Signal
2. Remote DMX control: Hold "Hibernate Off" for 3s

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

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

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

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

FAN MODES

The Rebel Dartz 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.

Low/Studio - 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	DEFAULT VALUE
Standard	Extended				
1	1		**Pan**		127
		000 - 255	Left to right		
2	2		**Pan Fine**		127
		000 - 255	Fine position		
3	3		**Tilt**		127
		000 - 255	Forward to backward		
4	4		**Tilt Fine**		127
		000 - 255	Fine position		
5	5		**Pan Rotation**		0
		000 - 002	Disabled		
		003 - 126	Clockwise, fast to slow		
		127 - 129	Stop		
		130 - 253	Counter-clockwise, slow to fast		
		254 - 255	Stop		
6	6		**Tilt Rotation**		0
		000 - 002	Disabled		
		003 - 126	Clockwise, fast to slow		
		127 - 129	Stop		
		130 - 253	Counter-clockwise, slow to fast		
		254 - 255	Stop		
7	7		**Red**		
		000 - 255	0 - 100%		
	8		**Red Fine**		
		000 - 255	Fine saturation		
8	9		**Lime**		
		000 - 255	0 - 100%		
	10		**Lime Fine**		
		000 - 255	Fine saturation		
9	11		**Blue**		
		000 - 255	0 - 100%		
	12		**Blue Fine**		
		000 - 255	Fine saturation		
10	13		**Green Color Filter**		
		000 - 005	Open		
		006 - 255	0 - 100%		
11			**CCT Presets**	X	
		000 - 031	Open		
		032 - 164	3200K to 16000K (see CCT Table)		
		165 - 255	16000K		

DMX TRAITS

MODE/CHANNEL		DMX VALUES	FUNCTION	SNAP	DEFAULT VALUE
Standard	Extended				
	14		**Variable CCT**		
		000 - 031	Open		
		032 - 255	3200K to 16000K		
	15		**Variable CCT Fine**		
		000 - 255	Fine adjustment		
12	16		**Color**		0
		000	Open		
		001 - 179	Virtual Swatch Book (see Virtual Colors Table)		
			Scroll		
		180 - 201	Clockwise, fast to slow		
		202 - 207	Stop		
		208 - 229	Counter-clockwise, slow to fast		
		230 - 234	Open		
			Random Slots		
		235 - 239	Fast		
		240 - 244	Medium		
		245 - 249	Slow		
		250 - 255	Open		
13	17		**Rotating Gobo**	X	0
		000 - 009	Open		
		010 - 019	Rotating Gobo 1		
		020 - 029	Rotating Gobo 2		
		030 - 039	Rotating Gobo 3		
		040 - 049	Rotating Gobo 4		
		050 - 059	Rotating Gobo 5		
		060 - 069	Rotating Gobo 6		
		070 - 079	Rotating Gobo 7		
		080 - 089	Rotating Gobo 8		
		090 - 099	Rotating Gobo 9		
		100 - 109	Rotating Gobo 10		
		110 - 117	Gobo 1 Shake, slow to fast		
		118 - 125	Gobo 2 Shake, slow to fast		
		126 - 133	Gobo 3 Shake, slow to fast		
		134 - 141	Gobo 4 Shake, slow to fast		
		142 - 149	Gobo 5 Shake, slow to fast		
		150 - 157	Gobo 6 Shake, slow to fast		
		158 - 165	Gobo 7 Shake, slow to fast		
		166 - 173	Gobo 8 Shake, slow to fast		
		174 - 181	Gobo 9 Shake, slow to fast		
		182 - 189	Gobo 10 Shake, slow to fast		

DMX TRAITS

MODE/CHANNEL		DMX VALUES	FUNCTION	SNAP	DEFAULT VALUE
Standard	Extended				
13	17		**Scroll**	X	0
		190 - 221	Clockwise, fast to slow		
		222 - 223	Stop		
		224 - 255	Counter-clockwise, slow to fast		
14	18		**Rotating Gobo Index / Rotation**		0
		000 - 127	Index Position		
			Rotate		
		128 - 189	Clockwise, fast to slow		
		190 - 193	Stop		
		194 - 255	Counter-clockwise, slow to fast		
15	19		**Rotating Gobo Index/Rotation Fine**		0
		000 - 255	Index position		
16	20		**Fixed Gobo**	X	0
		000 - 013	Open		
		014 - 018	Gobo 1		
		019 - 023	Gobo 2		
		024 - 028	Gobo 3		
		029 - 033	Gobo 4		
		034 - 038	Gobo 5		
		039 - 043	Gobo 6		
		044 - 048	Gobo 7		
		049 - 053	Gobo 8		
		054 - 058	Gobo 9		
		059 - 063	Gobo 10		
		064 - 068	Gobo 11		
		069 - 073	Gobo 12		
		074 - 078	Gobo 13		
		079 - 083	Gobo 14		
		084 - 088	Gobo 15		
		089 - 093	Gobo 16		
		094 - 099	Gobo 1 Shake, slow to fast		
		100 - 105	Gobo 2 Shake, slow to fast		
		106 - 111	Gobo 3 Shake, slow to fast		
		112 - 117	Gobo 4 Shake, slow to fast		
		118 - 123	Gobo 5 Shake, slow to fast		
		124 - 129	Gobo 6 Shake, slow to fast		
		130 - 135	Gobo 7 Shake, slow to fast		
		136 - 141	Gobo 8 Shake, slow to fast		
		142 - 147	Gobo 9 Shake, slow to fast		
		148 - 153	Gobo 10 Shake, slow to fast		

DMX TRAITS

MODE/CHANNEL		DMX VALUES	FUNCTION	SNAP	DEFAULT VALUE
Standard	Extended				
16	20		**Fixed Gobo (continued)**	X	0
		154 - 159	Gobo 11 Shake, slow to fast		
		160 - 165	Gobo 12 Shake, slow to fast		
		166 - 171	Gobo 13 Shake, slow to fast		
		172 - 177	Gobo 14 Shake, slow to fast		
		178 - 183	Gobo 15 Shake, slow to fast		
		184 - 189	Gobo 16 Shake, slow to fast		
			Scroll		
		190 - 221	Clockwise, fast to slow		
		222 - 223	Stop		
		224 - 255	Counter-clockwise, slow to fast		
17	21		**Rotating Prism 1**	X	0
		000 - 005	Open		
		006 - 255	Prism 1		
18	22		**Rotating Prism 1 Index/Rotation**		0
		000 - 127	Index position		
			Rotate		
		128 - 189	Clockwise, fast to slow		
		190 - 193	Stop		
		194 - 255	Counter-clockwise, slow to fast		
	23		**Rotating Prism 1 Index/Rotation Fine**		0
		000 - 255	Fine adjustment		
19	24		**Rotating Prism 2**	X	0
		000 - 005	Open		
		006 - 255	Prism 2		
20	25		**Rotating Prism 2 Index/Rotation**		0
		000 - 127	Index position		
			Rotate		
		128 - 189	Clockwise, fast to slow		
		190 - 193	Stop		
		194 - 255	Counter-clockwise, slow to fast		
	26		**Rotating Prism 2 Index/Rotation Fine**		0
		000 - 255	Fine adjustment		
21	27		**Focus**		127
		000 - 255	Infinity to near		
22	28		**Focus Fine**		127
		000 - 255	Fine adjustment		

DMX TRAITS

MODE/CHANNEL		DMX VALUES	FUNCTION	SNAP	DEFAULT VALUE
Standard	Extended				
23	29		**Shutter/Strobe**	X	50
		000 - 031	Closed		
		032 - 063	Open		
		064 - 095	Strobe, slow to fast		
		096 - 127	Open		
		128 - 159	Pulse Effect		
		160 - 191	Open		
		192 - 223	Random Strobe, slow to fast		
		224 - 255	Open		
24	30		**Dimmer**		0
		000 - 255	Intensity, 0 to 100%		
25	31		**Dimmer Fine**		0
		000 - 255	Fine adjustment		
26	32		**Frost**	X	0
		000 - 005	Open		
		006 - 255	Frost		
	33		**Dimmer Modes**	X	
		000 - 020	Standard		
		021 - 040	Stage		
		041 - 060	TV		
		061 - 080	Architectural		
		081 - 100	Theatre		
		101 - 120	Stage 2		
			Dimmer 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		

DMX TRAITS

MODE/CHANNEL		DMX VALUES	FUNCTION	SNAP	DEFAULT VALUE
Standard	Extended				
	33		**Dimmer Time (continued)**	X	
		137	6.0s		
		138	7.0s		
		139	8.0s		
		140	9.0s		
		141	10s		
		142 - 255	Idle		
27	34		**Pan/Tilt Speed**	X	0
		000 - 225	Max to min speed		
		226 - 235	Blackout by movement		
		236 - 245	Blackout by wheel changes		
		246 - 255	No function		
28	35		**Control**	X	
		000 - 004	Gobo Wheel Snap		
		005 - 006	Gobo Wheel Fade		
		007 - 009	Auto Green On (Default)		
		010 - 012	Auto Green Off		
			Movement Options		
		013 - 014	Pan Tilt Shortest Path		
		015 - 016	Pan Tilt Continue Path (Default)		
		017 - 018	Pan Range 540 (Default)		
		019 - 020	Pan Range 360		
		021 - 022	Tilt Range 270 (Default)		
		023 - 024	Tilt Range 360		
		025 - 049	Idle		
			Fan Mode		
		050 - 054	Mute		
		055 - 059	Studio		
		060 - 064	Low		
		065 - 069	High		
		070 - 074	Auto (Default)		
		075 - 079	Idle		
			Reset		
		080 - 084	All		
		085 - 087	Pan/Tilt		
		088 - 090	Gobo		
		091 - 093	Beam		
		094 - 096	Others		
		097 - 129	Idle		

DMX TRAITS

MODE/CHANNEL		DMX VALUES	FUNCTION	SNAP	DEFAULT VALUE
Standard	Extended				
28	35		**Refresh Rate (Hz)**	X	
		130 - 168	1200 - 25000 (See Refresh Rates Table)		
		169 - 172	Idle		
		173 - 174	Hibernation Off		
		175 - 176	Hibernation		
		177 - 178	Sun Protection On (Default)		
		179 - 180	Sun Protection Off		
		181 - 190	Pan Tilt Smooth		
		191 - 200	Pan Tilt Fast (Default)		
			Dimmer Curves		
		201 - 210	Linear		
		211 - 220	Square		
		221 - 230	Inverse Square		
		231 - 240	S-Curve (Default)		
		245 - 249	Idle		
		250 - 251	Display Off		
		252 - 253	Display On (Default)		
		254 - 255	Idle		

COLOR TEMPERATURE AND REFRESH RATES

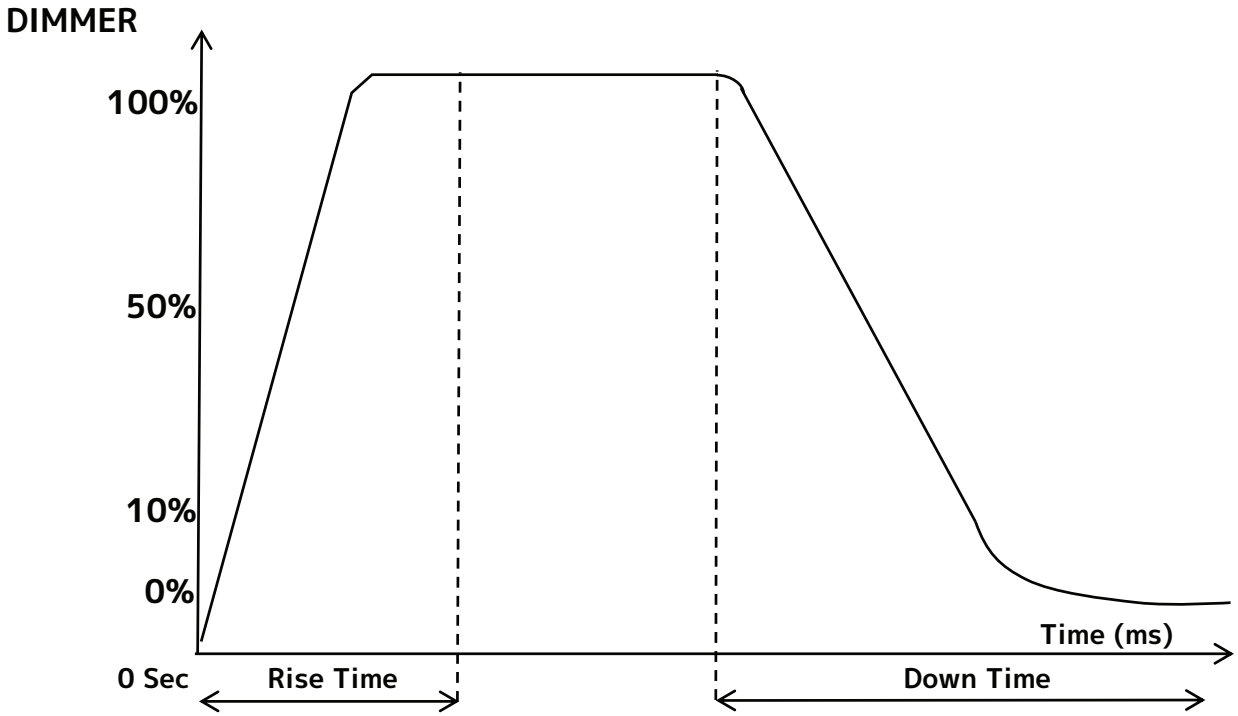
DMX VALUE	COLOR TEMPERATURE (K)
032 - 034	3200
035 - 039	3500
040 - 044	4000
045 - 049	4500
050 - 059	5000
060 - 064	6000
065 - 069	6500
070 - 074	7000
075 - 079	7500
080 - 084	8000
085 - 089	8500
090 - 094	9000
095 - 099	9500
100 - 104	10000
105 - 109	10500
110 - 114	11000
115 - 119	11500
120 - 124	12000
125 - 129	12500
130 - 134	13000
135 - 139	13500
140 - 144	14000
145 - 149	14500
150 - 154	15000
155 - 159	15500
160 - 164	16000

DMX VALUE	REFRESH RATES (HZ)
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
149	1390
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

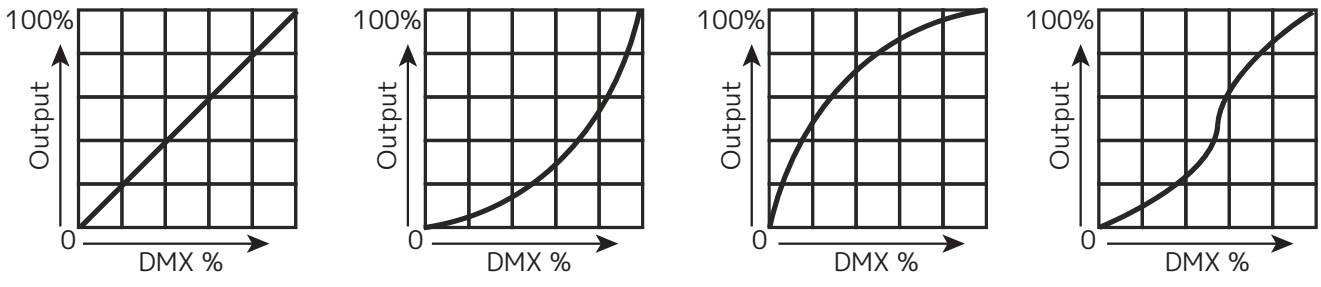
VIRTUAL COLORS

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 (0 → 255)		1 sec Fade Time (0 → 255)	
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660



MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORING 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
Pan	Pan Error
Tilt	Tilt Error
Gobo	Rotating Gobo Error
FixGobo	Fixed Gobo Error
Prism1	Prism 1 Error
Prism1Rot	Prism 1 Rotation Error
Prism2	Prism 2 Error
Prism2Rot	Prism 2 Rotation Error
Focus	Focus Error

CODE	DESCRIPTION
Gobo Fan	Gobo Fan Error
HumiFan1	Humidity Fan 1 Error
HumiFan2	Humidity Fan 2 Error
LedTemp	LED Temperature Error
LedFan1	LED Fan 1 Error
LedFan2	LED Fan 2 Error
BaseTemp	Base Temperature Error
BaseFan	Base Fan Error

TORQUE SETTINGS FOR SCREWS

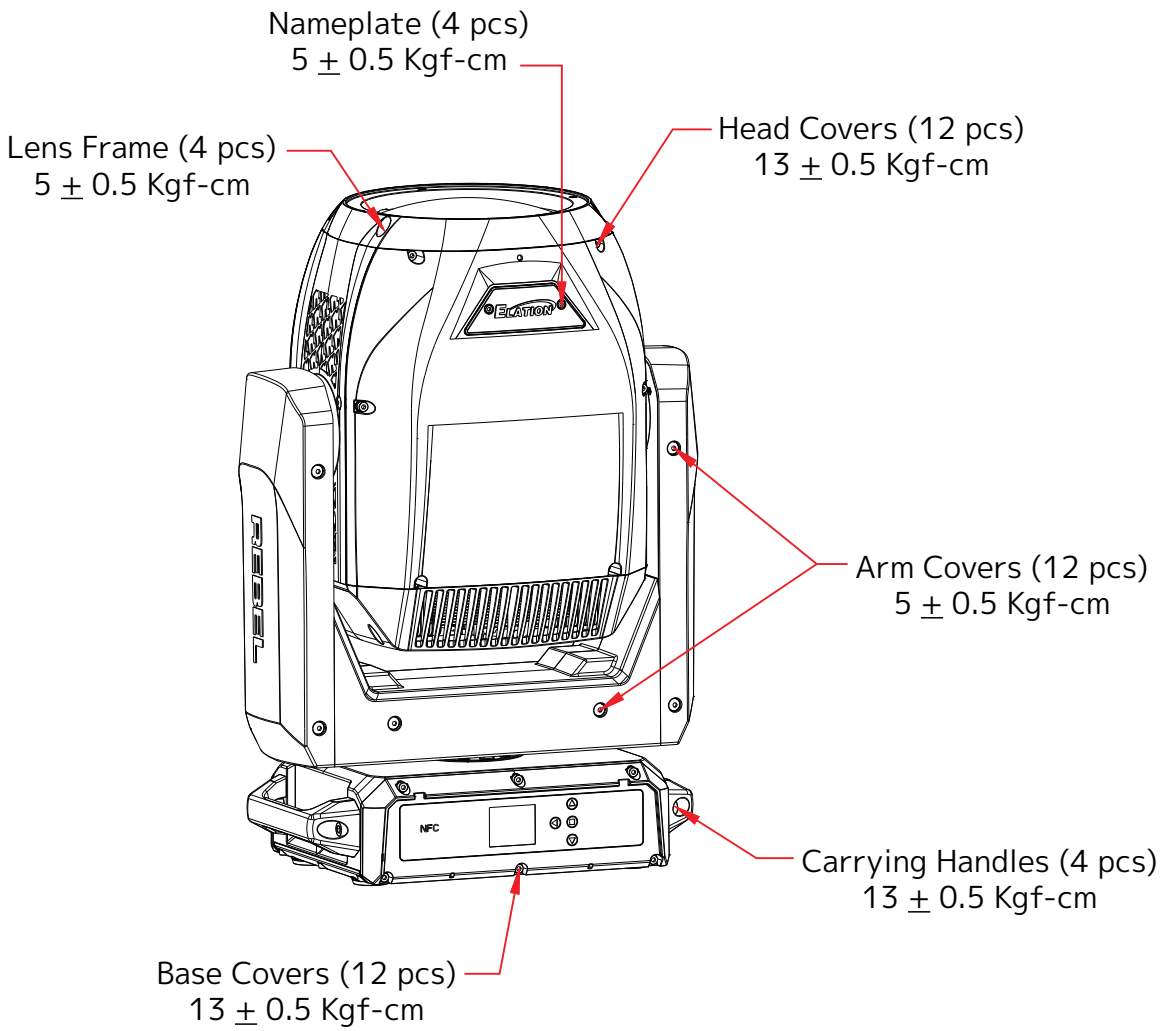
IN ORDER TO MAINTAIN THE IP66 RATING ON THE LIGHTING FIXTURES, ALL SCREWS MUST BE TIGHTENED TO THE FOLLOWING TORQUE SPECIFICATION USING A TORQUE DRIVER.

Refer to the table and diagram below for torque specifications.

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

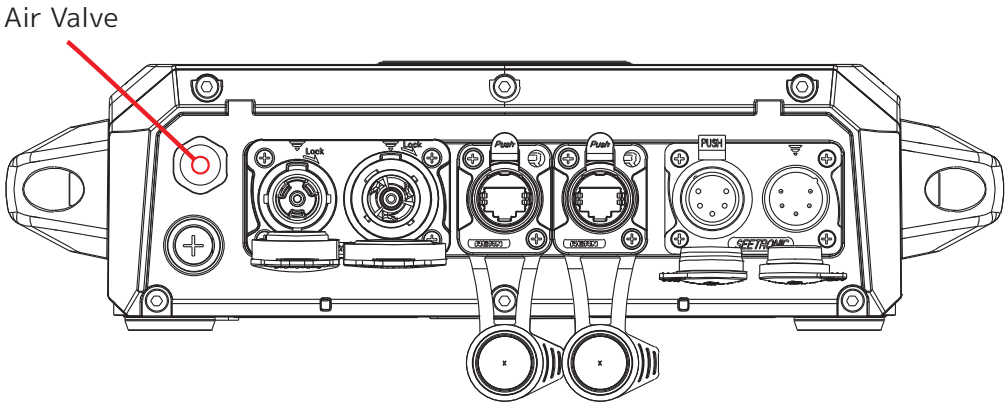
- Proto J6107A
- Wiha 28887

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 base, near the power ports, as 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: IP66 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**	**Stabilization Time**	**Detection Time**	**Acceptable Leakage**
20 kPa	23 kPa	60 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.

ARIA
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

ORDERING INFORMATION

SKU (US)	SKU (EU)	DESCRIPTION
REB224	Pending	Elation Rebel Dartz

SPECIFICATIONS

SOURCE
150W RBL LED Engine
20,000 Hour Average LED Life*
*Test lab conditions. May vary depending on several factors including but not limited to:
Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.

PHOTOMETRIC DATA
Total Lumen Output:
1,785 (Integrating Sphere)
TBA (Goniometer)
125,475 lux @ 5M
Beam Angle 1.5˚

EFFECTS
Variable Strobe Rate: 1- 20Hz
Remote Focus
Heavy Frost Filter
Dual Independent Stacking Prisms (6 Facet Linear & 8 Facet Circular)
Variable 16-bit Dim Curve Modes
DMX Controllable LED Refresh Rate
Pan Angle: 360/540°
Tilt Angle: 360/270°
Continuous 360° Pan and Tilt Rotation

COLOR
RBL Color Array
True Green Color Filter
Variable CCT 3200K- 16000K
Virtual Gel Swatch Book

GOBOS
2 Gobo Wheels
10 Interchangeable-Rotating / Indexing Metal Gobos
16 Static-Stamped Metal Gobos

CONTROL / CONNECTIONS
2 DMX Channel Modes
(4) Button Touch Panel
180° Reversible LCD Menu Display
Hibernation Mode (Power Save)
DMX, RDM, Art-Net and sACN Protocol Support
Aria x2 Wireless Device Management
NFC Configuration
IP65 5pin DMX In/Out
IP65 RJ45 Ethernet In/Out
IP65 Locking Power In/Out

SIZE / WEIGHT
Length: 13.3” (337mm)
Width: 8.6” (219mm)
Height: 18.8” (478mm)
Weight: 35 lbs. (15.9kg)

ELECTRICAL / THERMAL
AC 100-240V 50/60Hz
240W Max Power Consumption
Power Thru Capacity: 10A (4 units @115V, 9 units @240V)
-4°F to 113°F (-20°C to 45°C)

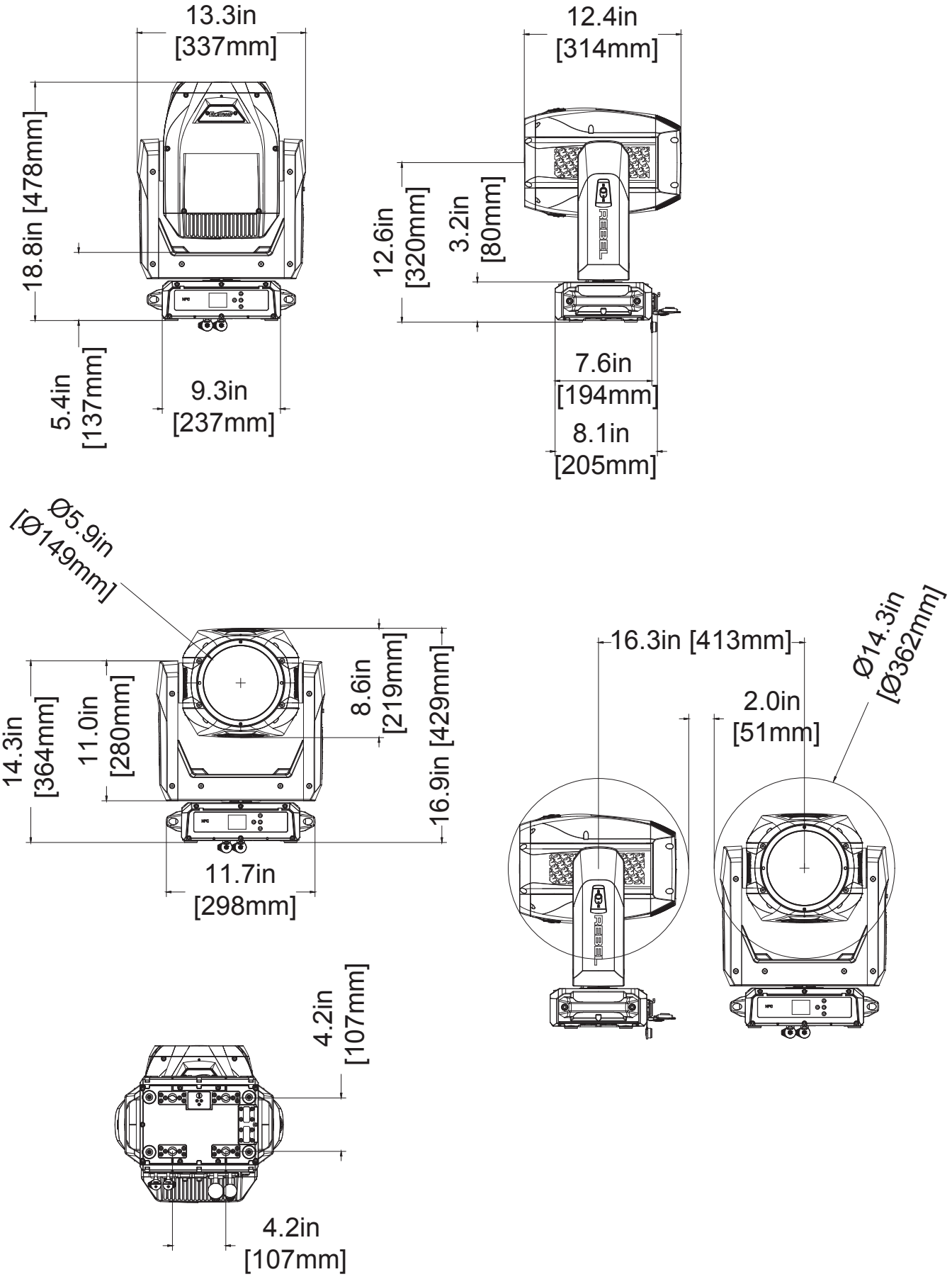
APPROVALS / RATINGS
CE | cETLus | IP65 | FCC

Intertek 4010765

IP66

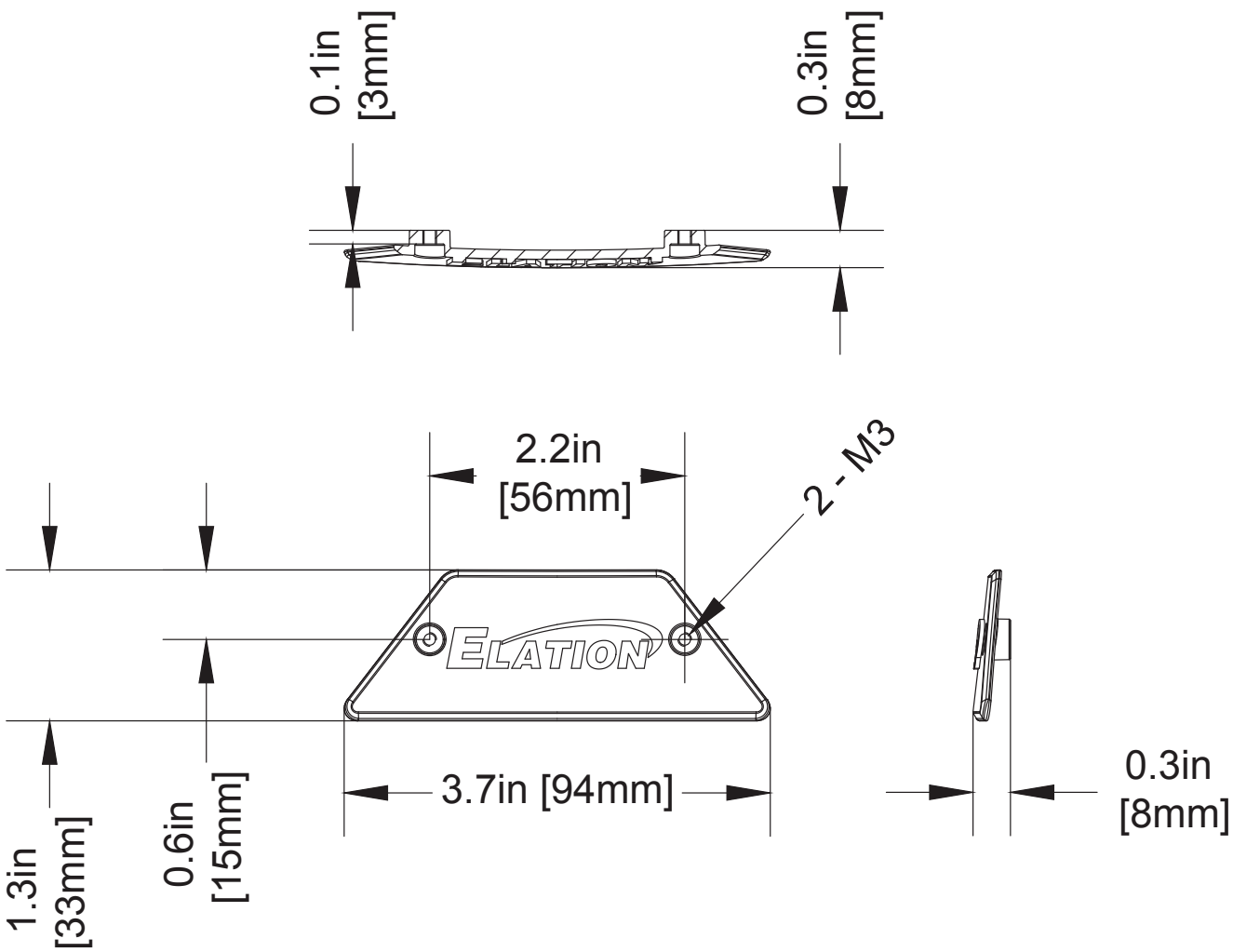
Specifications and documentation subject to change without notice.

DIMENSIONAL DRAWINGS



DIMENSIONAL DRAWINGS

LOGO PLATE



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!

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