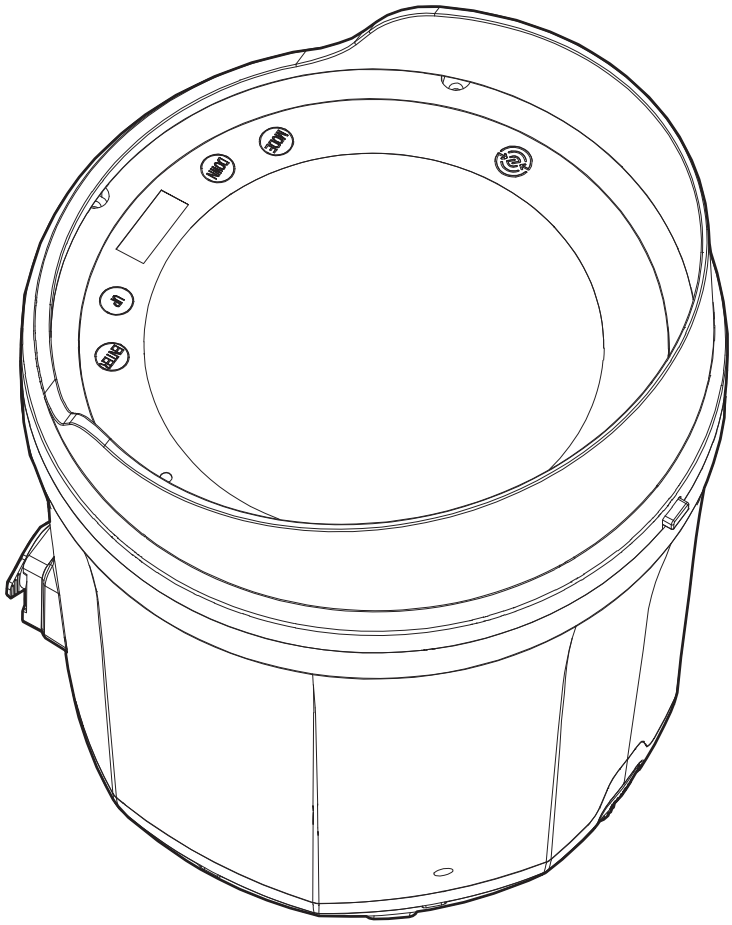
ELATION®



VOLT+ PAR L

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
09/16/2025	1.0	1.01	1 / 3 / 6 / 9 / 11 / 14 / 14 / 20	Initial Release
09/03/2026	1.1	N/C	No Change	Updated: General Info, Overview, Installation Guidelines, Battery Warnings, Safety Guidelines, System Menu, NFC, Specifications

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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

Diffusion Filter

Concentric Ring

Removable Half Snoot

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

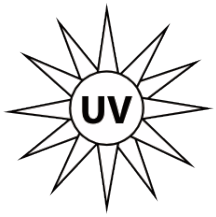
Although the base has limited moving parts, the pan belt should also be inspected for wear. Remember to always perform an IP test anytime a cover is removed.

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 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

⚠CAUTION

HIGH INTENSITY ULTRAVIOLET LIGHT



AVOID DIRECT EYE & SKIN EXPOSURE.
WEAR PROPER EYE & SKIN PROTECTION.
SEE MANUAL FOR SAFETY INSTRUCTIONS.

RISK GROUP 3 - RISK OF EXPOSURE TO ULTRAVIOLET UV RADIATION!

FIXTURE EMITS HIGH INTENSITY WAVELENGTH OF ULTRAVIOLET UV LIGHT FROM THE UV COLOR FILTER.

WEAR PROPER EYE AND SKIN PROTECTION. AVOID PROLONGED PERIODS OF EXPOSURE TO UV COLOR FILTER.

AVOID WEARING WHITE COLOR CLOTHING AND/OR USING UV PAINTS ON SKIN. AVOID DIRECT EYE AND/OR SKIN EXPOSURE AT DISTANCES LESS THAN 11 feet (3.3m).

DO NOT OPERATE FIXTURE WITH DAMAGED/MISSING EXTERNAL COVERS.

DO NOT LOOK DIRECTLY INTO THE UV LIGHT AND/OR VIEW UV LIGHT DIRECTLY WITH OPTICAL INSTRUMENTS THAT MAY CONCENTRATE THE LIGHT/RADIATION OUTPUT.

INDIVIDUALS SUFFERING FROM A RANGE OF EYE CONDITIONS, SUNLIGHT EXPOSURE DISORDERS, OR INDIVIDUALS USING PHOTOSENSITIVE MEDICATION, MAY RECEIVE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET UV LIGHT EMITTED FROM THE UV LED.

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 BE 1 FOOT (0.3 METERS)
MINIMUM DISTANCE TO FLAMMABLE MATERIALS IS 1.6 FEET (0.5 METER)
MINIMUM DISTANCE TO LIGHTED OBJECTS IS 3.2 FEET (1.0 METER)
AMBIENT OPERATING TEMPERATURE RANGE IS -4°F TO 104°F (-20°C TO 40°C)
AMBIENT CHARGING TEMPERATURE RANGE IS 32°F TO 104°F (0°C TO 40°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.

BATTERY WARNINGS

HANDLING PRECAUTIONS

Safe Charging Temperature. Safety ambient temperature for charging the battery is 32°F to 104° F (0°C to 40° C). Do not charge the battery if ambient temperature falls outside of this range.

Do not short circuit the battery. Avoid subjecting the battery to a short circuit, as doing so generates a very high current, resulting in overheating, electrolyte gel leakage, harmful fumes, explosion risk, or other damage to the battery.

Mechanical shock. Dropping, impacting, striking, or bending the unit, or subjecting the unit to any other types of mechanical shock may cause failure or shortend life of the battery.

Do not disassemble the batteries. Never disassemble the batteries, as doing so may result in an internal short circuit in the battery, leading to fire, explosion, release of harmful fumes, or other hazards. Electrolyte gel is harmful, and contact should be avoided whenever possible. Should the electrolyte gel come into contact with the skin or eyes, flush the area of contact immediately with fresh water and seek medical attention immediately.

Do not expose battery to heat or fire. Never incinerate or dispose of the batteries in fire, as this could result in an explosion.

Do not exposure the battery to water or liquids. Never expose or immerse the batteries in liquids of any type, including water, seawater, soft drinks, juices, coffee, or other beverages.

Battery Replacement. For battery replacement please contact customer support.

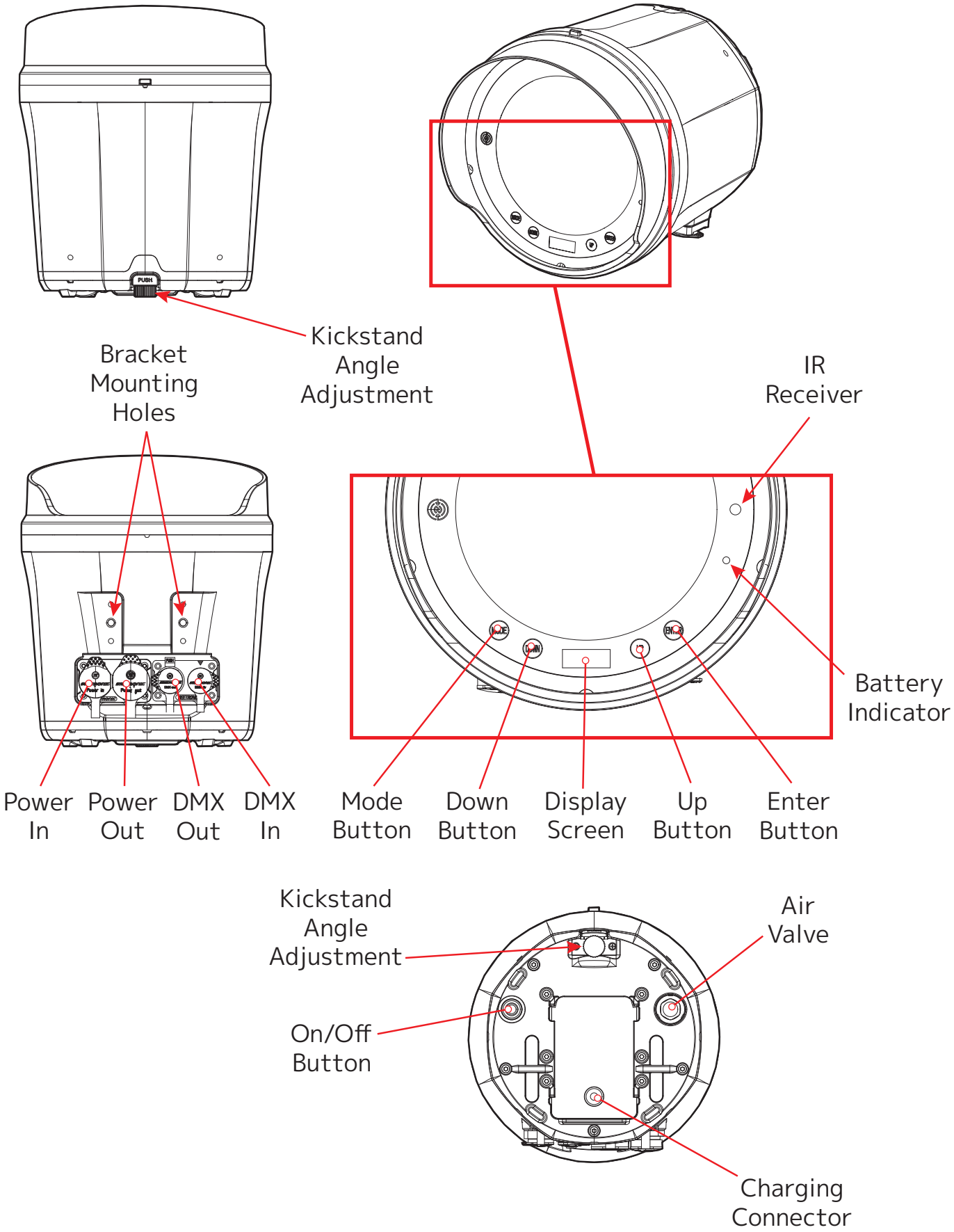
Never use a damaged battery. Shipping carries a risk of damage to the battery. Should damage be observed, including damage to the plastic casing of the battery, deformation of the battery package, chemical or electrolyte odor, or leakage of the electrolyte gel, or any other miscellaneous damage, **DO NOT** use the battery. A battery with a odor of electrolyte or a gel leakage should be placed away from fire to avoid risk of fire or explosion.

Battery Storage. The battery should be stored at room temperature, with a charge of at least 50%. During long periods of storage, it is recommended that the battery be charged every 6 months. Doing so will prolong the life of the battery and will also make sure that the battery charge does not fall below the 30% mark.

Other Chemical Reactions. Because batteries rely on a chemical reaction to work, battery performance will deteriorate over time, even if stored for a long period of time without being used. In addition, if various usage conditions (such as charge, discharge, ambient temperature, etc.) are not maintained within the specified ranges, the life expectancy of the battery maybe shortened or the device in which the battery is used may be damaged by electrolyte gel leakage. If the batteries cannot maintain a charge for long periods of time, even when they are charged correctly, this may indicate the need to replace the battery.

Battery Disposal. Please dispose of battery according to local regulations.

OVERVIEW


Kickstand Angle Adjustment
Bracket Mounting Holes
IR Receiver
Battery Indicator
Power In
Power Out
DMX Out
DMX In
Mode Button
Down Button
Display Screen
Up Button
Enter Button
Kickstand Angle Adjustment
Air Valve
On/Off Button
Charging Connector

INSTALLATION GUIDELINES



FLAMMABLE MATERIAL WARNING
Keep fixture minimum 1.6 feet (0.5m) away from flammable materials and/or pyrotechnics.



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



MINIMUM DISTANCE TO SURFACES/OBJECTS IS 1 FOOT (0.3 METER).
MINIMUM DISTANCE TO FLAMMABLE MATERIALS IS 1.6 FEET (0.5 METER).
MINIMUM DISTANCE TO LIGHTED OBJECTS IS 3.2 FEET (1 METER).
AMBIENT OPERATING TEMPERATURE RANGE IS -4°F TO 104° F (-20°C TO 40° C).
SAFE AMBIENT TEMPERATURE FOR CHARGING BATTERY IS 32°F TO 104° F (0°C TO 40° 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 104°F (-20°C to 40°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.

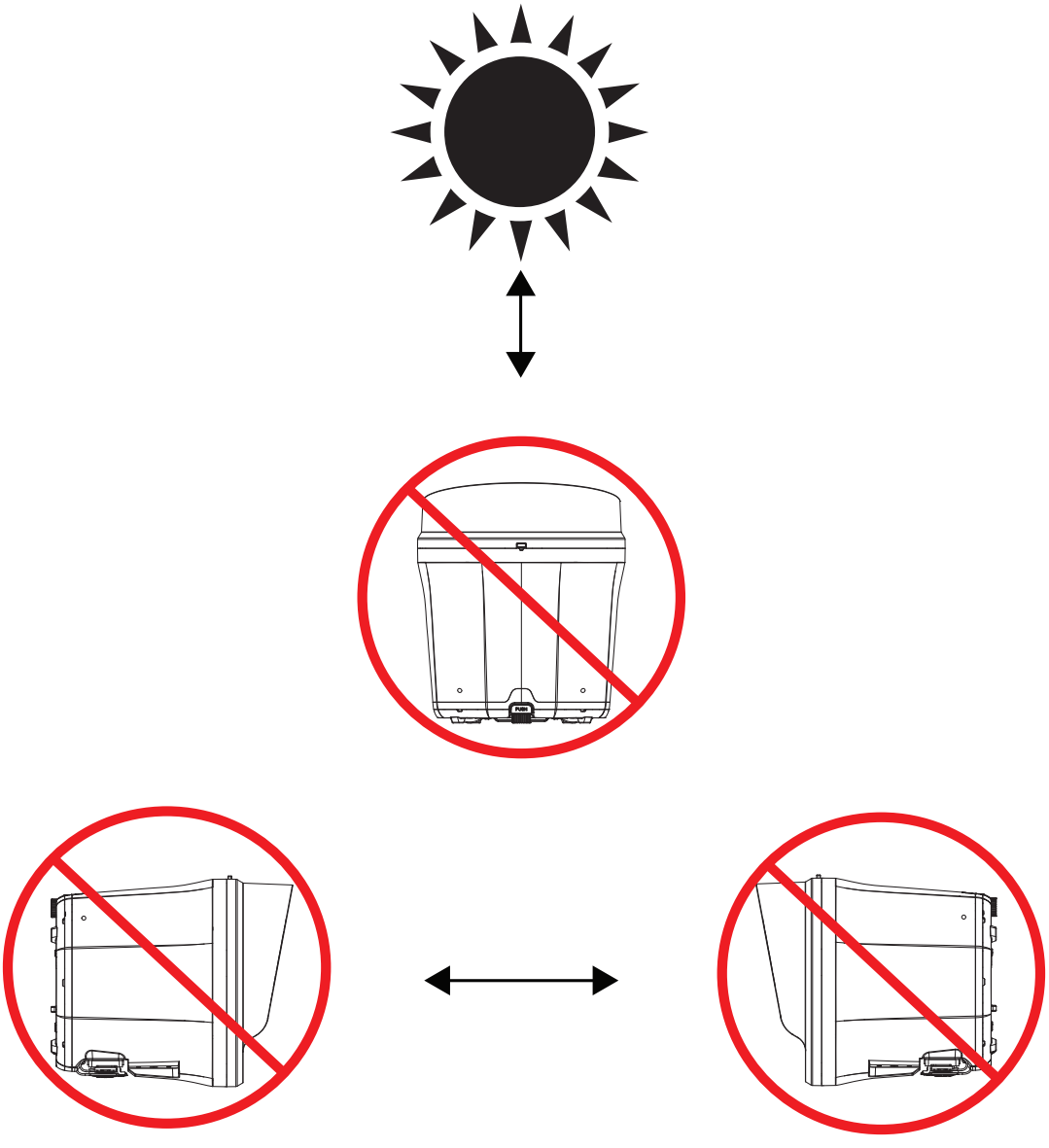
INSTALLATION GUIDELINES

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, lighting and moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of Elation lighting fixtures, can cause severe internal damage including burning of optics, dichroic color filters, glass and metal gobos, prisms, animation wheels, frost filters, iris, shutters, motors, belts, wiring, discharge lamps, and LEDs.

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

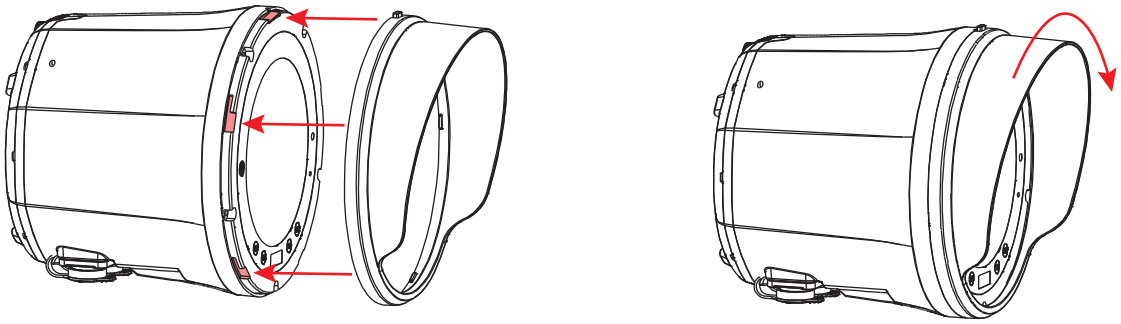
DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER FIXTURES, OR LASERS UNDER ANY CIRCUMSTANCES. PLEASE NOTE THAT THIS INCLUDES EXTENDED PERIODS OF NON-USE, AS DAMAGE CAN OCCUR EVEN WHEN THE FIXTURE IS OFF. NEVER FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE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



ACCESSORY INSTALLATION

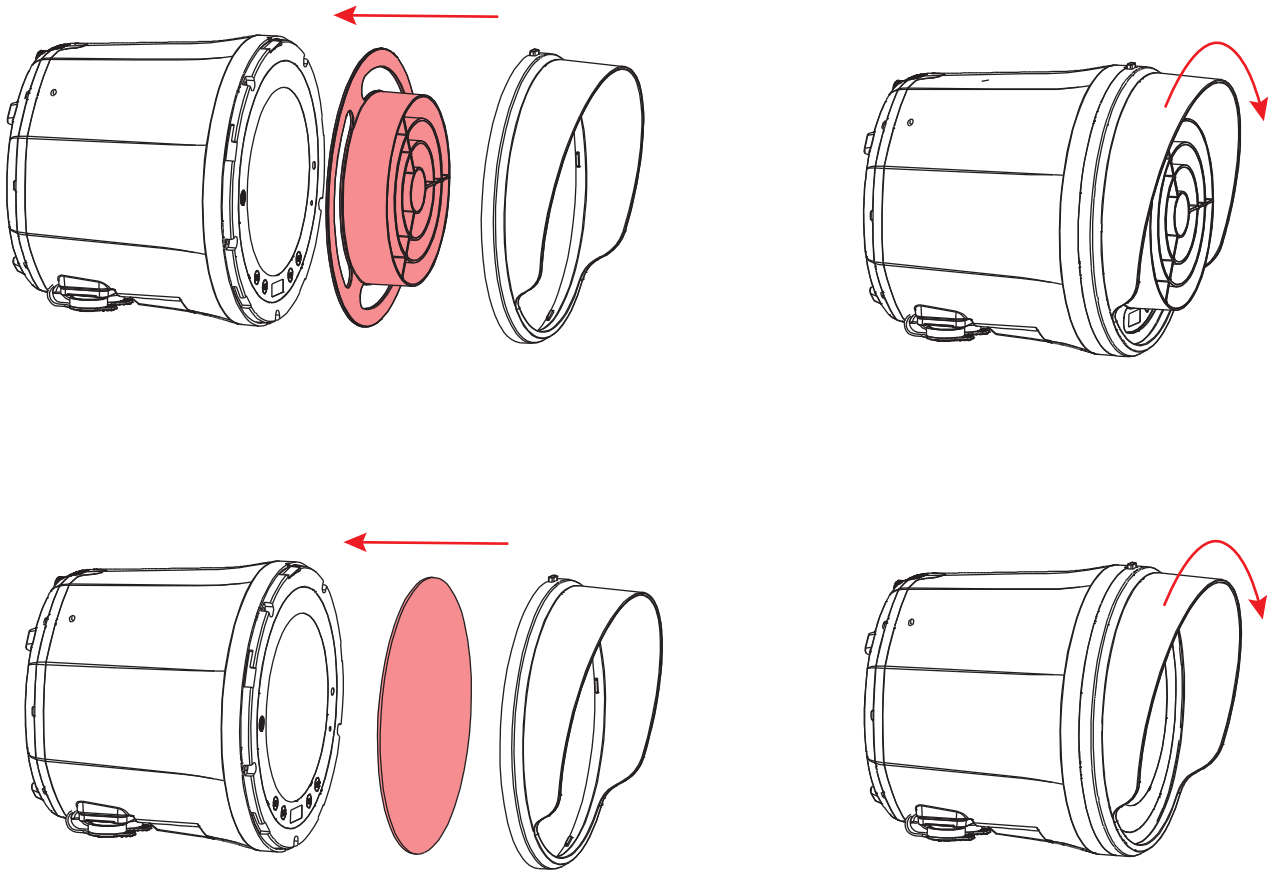
HALF SNOOT

Insert the mounting tabs on the half snoot with the slots in the fixture's lens frame, then twist the half snoot clockwise (when viewed from the front of the fixture) to secure in place.



CONCENTRIC RING & FROST FILTER

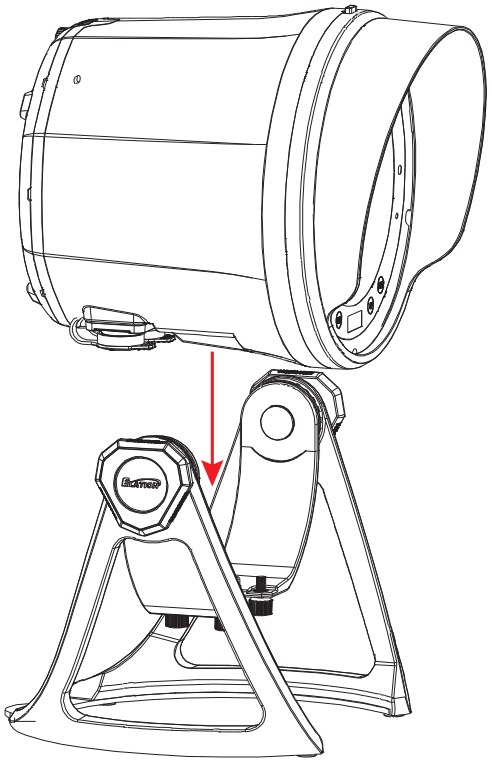
To install either of these accessories, position the desired accessory between the fixture's lens frame and the half snoot. Insert the mounting tabs of the half snoot into the matching slots in the fixture's lens frame, then twist the half snoot clockwise to secure in place.

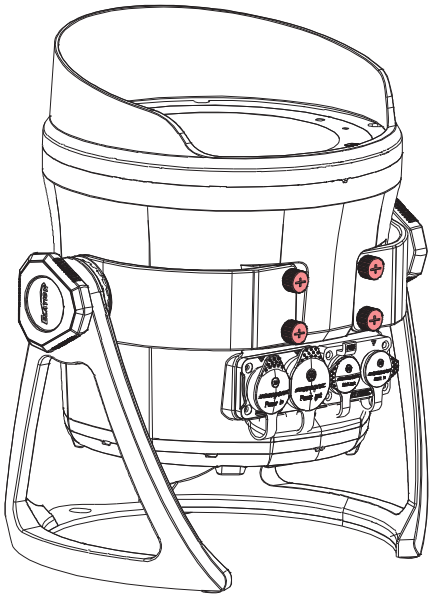


ACCESSORY INSTALLATION

YOKE

Align the four (4) mounting holes on the yoke with the four (4) matching holes on the side of the fixture enclosure. The holes are located on the underside of the fixture beside the DMX and power ports. Insert four (4) screws and tighten to secure the yoke in place.

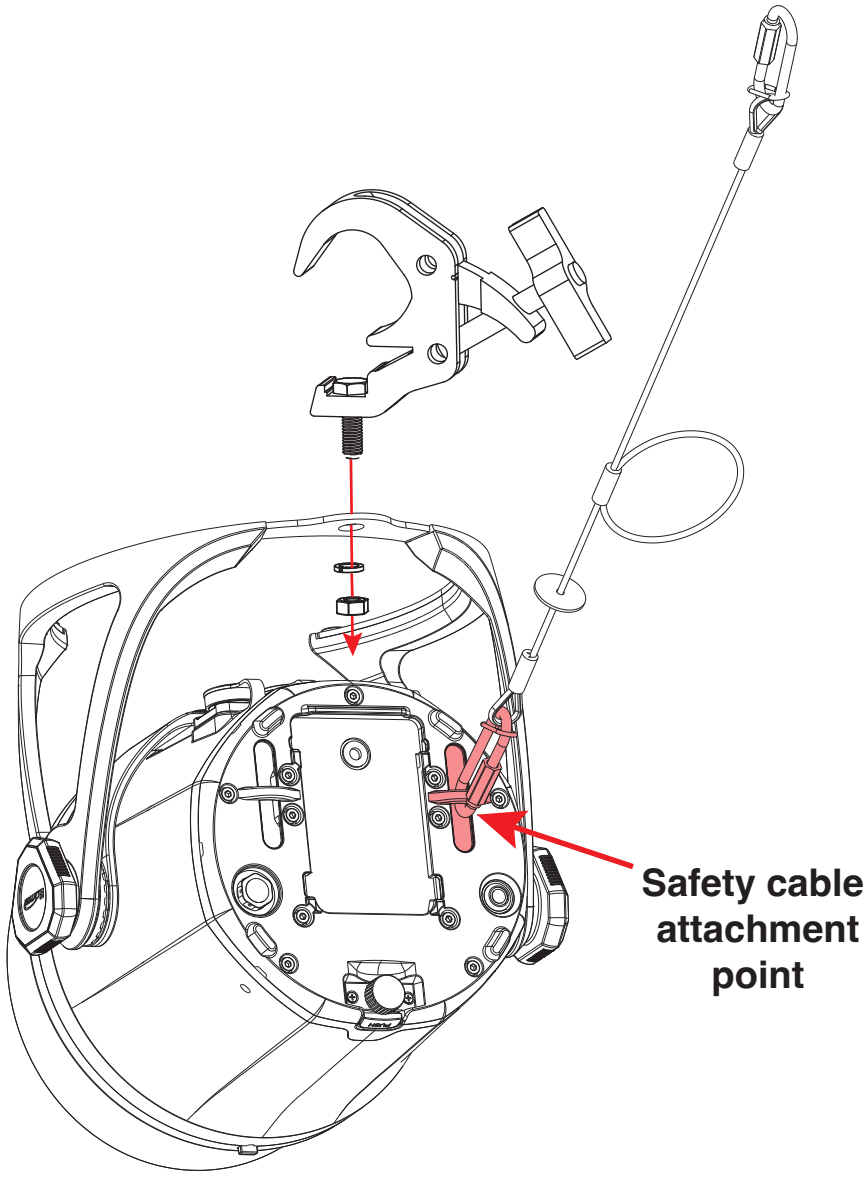




ACCESSORY INSTALLATION

CLAMP INSTALLATION: Insert a bolt of appropriate size and rating for the desired clamp through the mounting hole of the clamp, and then insert it through the center hole on the mounting bracket of the fixture. The bolt should pass through both the clamp and the fixture's bracket. Thread a matching washer and locking nut onto the bolt to secure it in place.

SAFETY CABLE: The fixture provides a built-in rigging points for a Safety Cable on the rear of the fixture, on either side of the charging pad. Be sure to only use these designated rigging points for the safety cable, and never rely on any other location on the fixture to secure the safety cable.



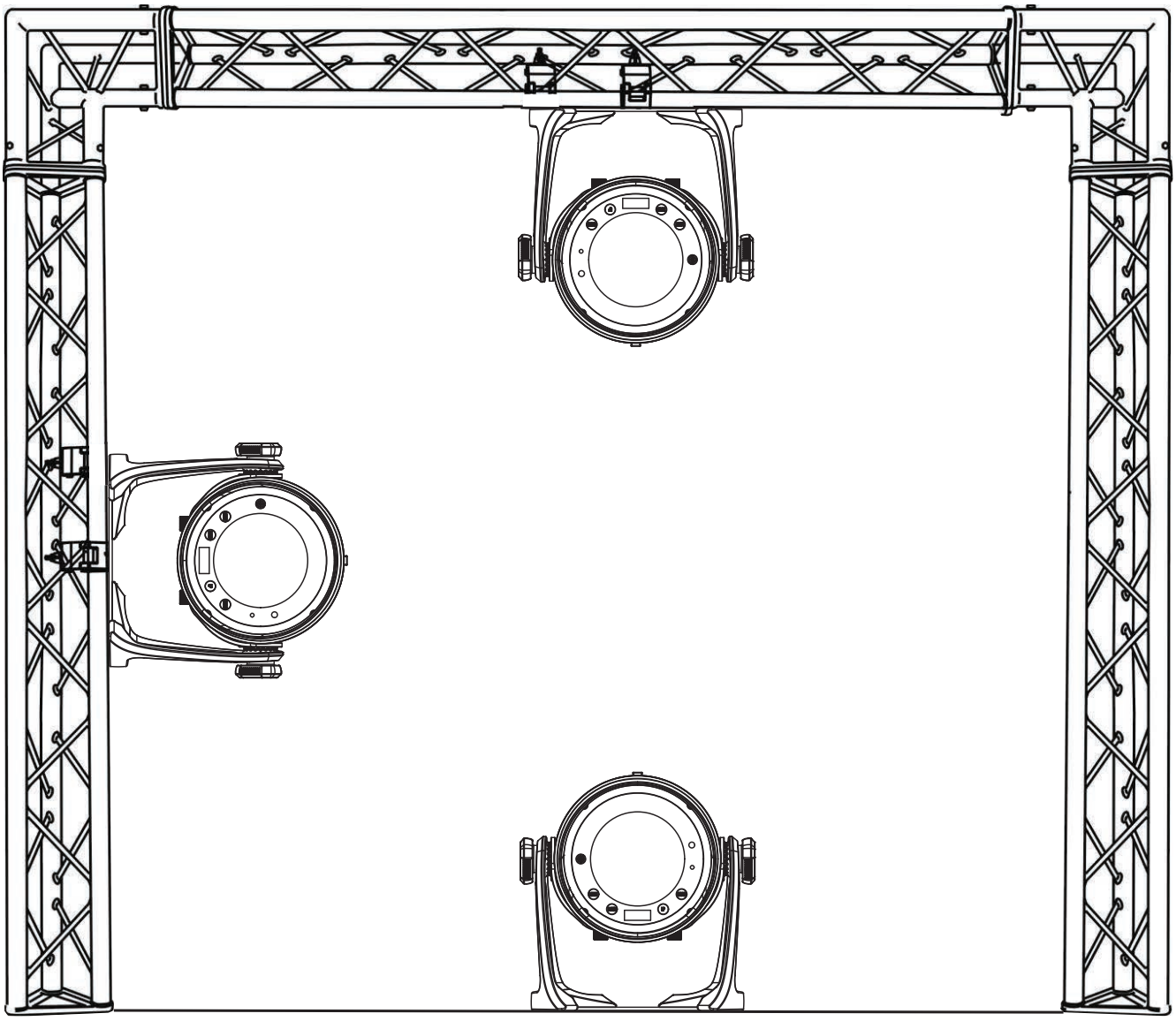
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS. ONLY USE DESIGNATED RIGGING POINTS FOR SAFETY CABLE, AND NEVER ATTACH A SAFELY CABLE TO A CARRYING HANDLE.

ACCESSORY INSTALLATION

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.

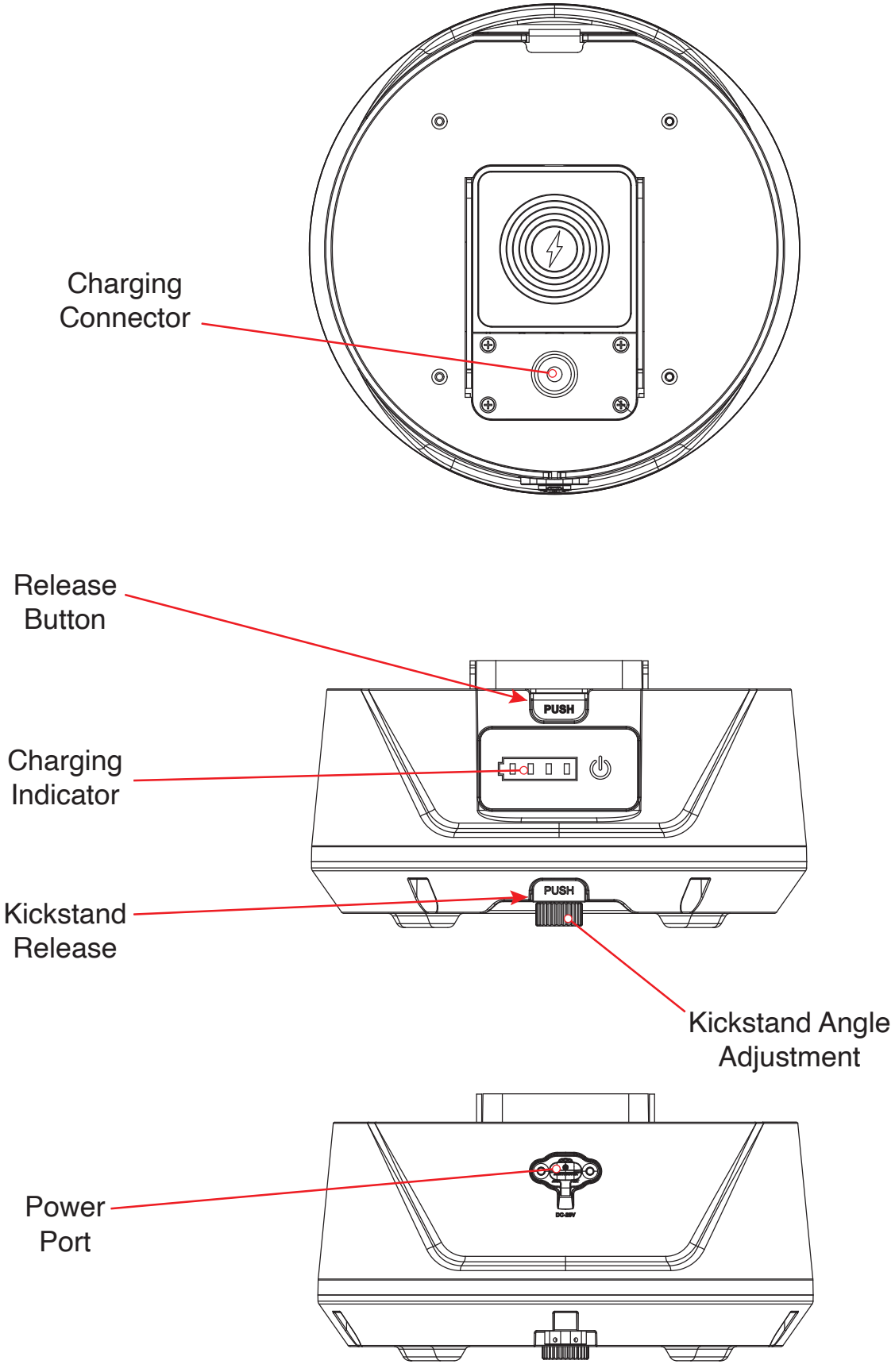
The fixture is fully operational in the following positions: hanging from a horizontal truss, suspended sideways from a vertical truss, or standing upright on a flat, level surface. See the illustration below for reference.



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

ACCESSORY INSTALLATION

BATTERY BASE



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

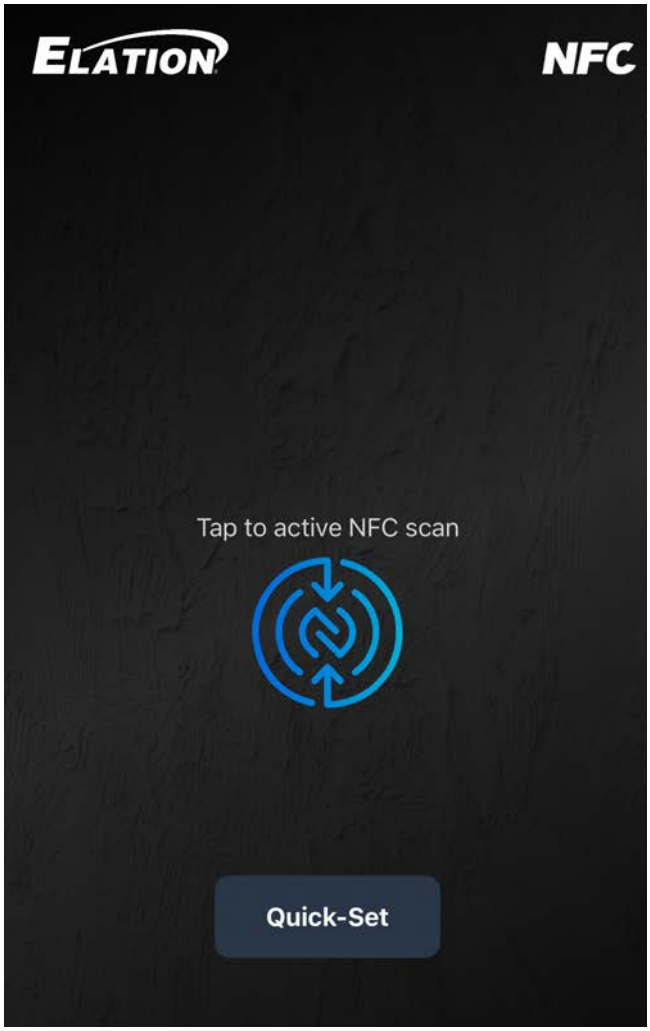
NFC APP HOME PAGE:
Upon opening the NFC app, two options will be displayed on the screen: **Tap to Activate** or **Quick Set.**

- **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 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 no fixtures have been added yet, as seen in the image of the home screen to the right.

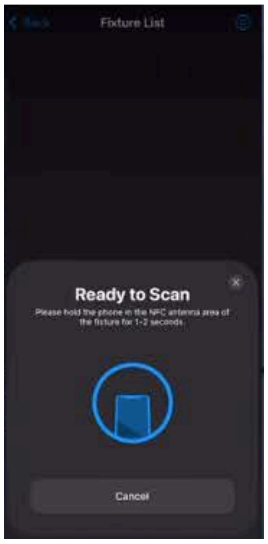


The following sections explain in detail how each option works.

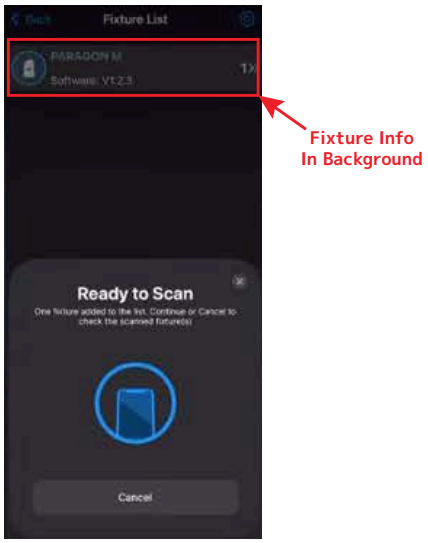
NEAR FIELD COMMUNICATION (NFC)

TAP TO ACTIVATE

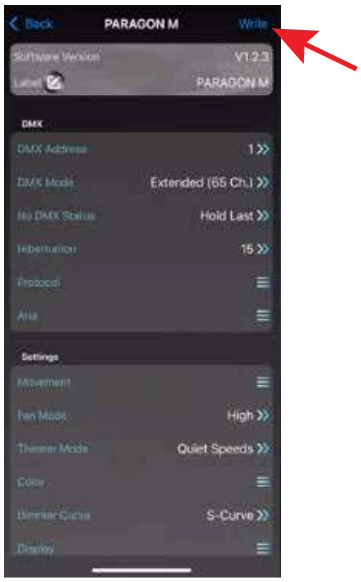
1. When the NFC icon on the app is tapped, a window will appear at the bottom informing the user that the app is ready to scan. At this point, the controlling device should be held up to the NFC icon on the fixture.



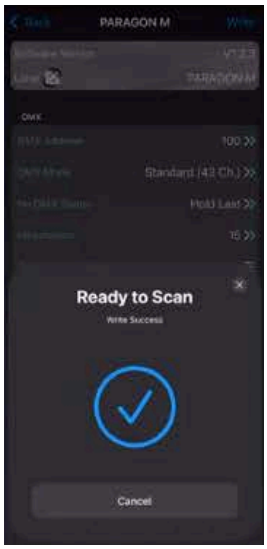
2. The app will pull the settings from the fixture, and the fixture's name will appear in the background. Press "Cancel" on the scan window to close it out and access the fixture shown in the app background.



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.



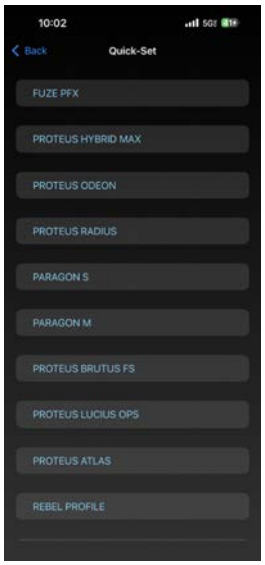
4. A window will open up informing the user that the app is ready to scan. Hold the controlling device up to the NFC icon on the fixture, and the updated settings will be loaded to the fixture. Upon completion, a message stating "Write Success" will be shown.



NEAR FIELD COMMUNICATION (NFC)

Quick Set

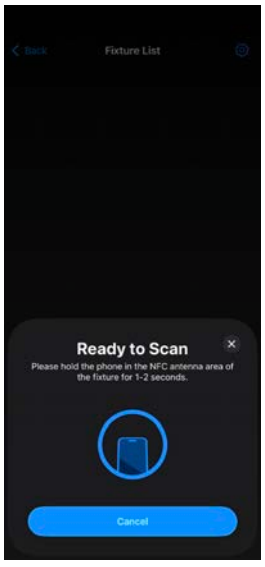
1. Select the fixture model from the list of options that is shown.



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 GUIDELINES

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.

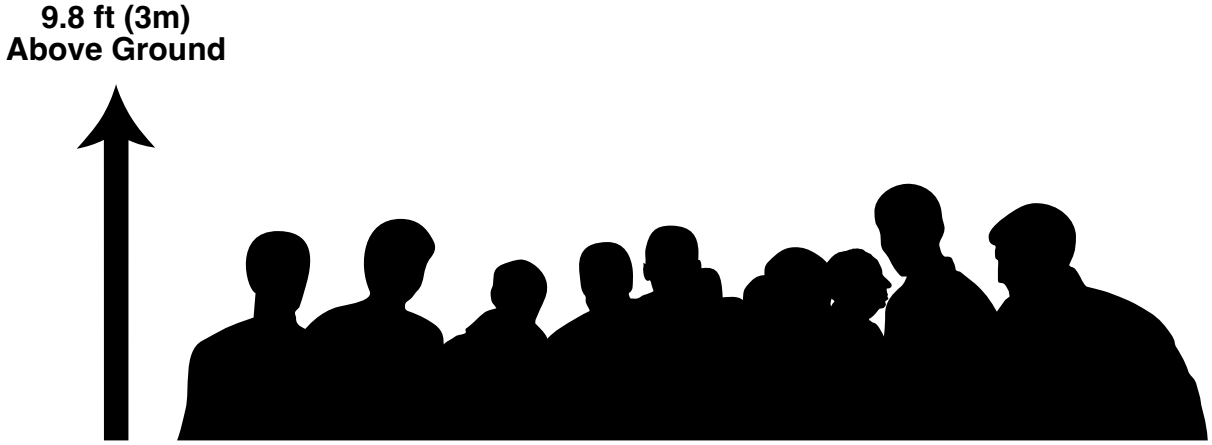
In summary, if an application demands high data rates and more bandwidth in urban or densely populated areas where interference management is feasible, the 2.4 GHz frequency is a suitable choice. On the other hand, for applications requiring long-range communication and better obstacle penetration, particularly 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	0000-FFFF	60	1Ch Dimmer; 3Ch RGB; 6Ch Color; 9Ch Color & Dimmer; 11Ch CMY; 14Ch CMY Extended; 14Ch Standard; 20Ch Extended

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:

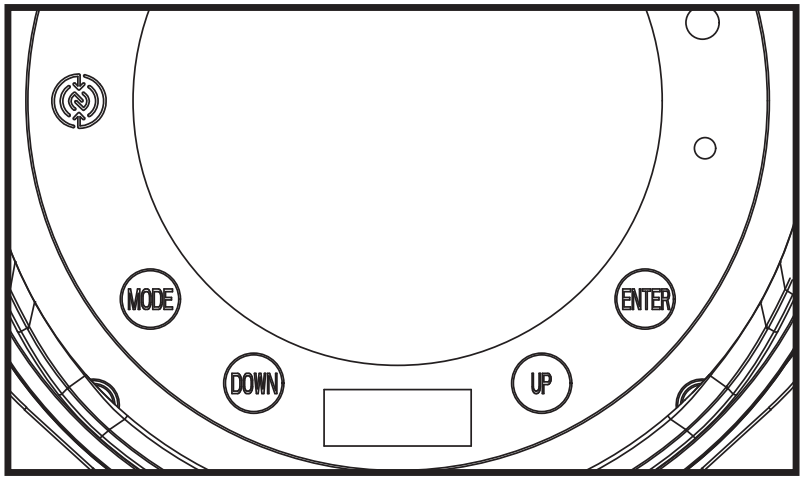
CODE	PARAMETER
0x1031	Preset Playback
0x0122	Default Slot Value
0x00C2	Boot Software Version Label
0x00C1	Boot Software Version ID
0x0070	Product Detail ID List
0x0030	Status Messages
0x0011	Proxied Device Count
0x0200	Sensor Definition
0x0201	Sensor Value
0x0080	Device Model Description
0x0081	Manufacturer Label
0x0082	Device Label

CODE	PARAMETER
0x00E0	DMX Personality
0x00E1	DMX Personality Description
0x0400	Device Hours
0x0015	Comms Status
0x0031	Status ID Description
0x0032	Clear Status ID
0x0405	Device Power Cycles
0x0500	Display Invert
0x0501	Display Level
0x0603	Realtime Clock
0x1010	Power State
0x0020	Queued Message

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.

- During normal operation, pressing the **MODE** button once will access the fixture's main menu.
- Once in the main menu you can navigate through the different functions and access the sub-menus with the **DOWN** and **UP** buttons.
- Once you reach a field that requires adjusting, press the **ENTER** button to activate that field and use the **DOWN** and **UP** buttons to adjust the field.
- Pressing the **ENTER** button once more will confirm the setting.
- Exit the main 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. The keys are locked by default, but can instead be set to unlock after a definted period of inactivity ranging from 10 seconds and 5 minutes, or the keys can be set to remain permanent 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	1ch Dimmer	
		3ch RGB	
		6ch Color	
		9ch Color & Dimmer	
		11ch CMY	
		14ch CMY Extended	
		14ch Standard	
		20ch 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	On / **Off**
		Frequ-ency	**2.4 GHz**
			Sub Gig US
			Sub Gig EU
		2.4 GHz Chan	**00** - 15
		Sub Gig Chan	**00** - 09
		Enable Mesh	On / **Off**
		Enable Bluetooth	On / **Off**

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		
CONTROL	Program	Program 1	
		Program 2	
		Program 3	
		Program 4	
		Edit Program (see Edit Program Menu section)	
	Manual Control	Dimmer	000% - **100%**
		Red	0 - **255**
		Green	0 - **255**
		Blue	0 - **255**
		Lime	0 - **255**
		Amber	0 - **255**
		UV	**0** - 255
		CCT	2400K - 8500K (Default = **6000K**)
		Virtual Color	See Color Macros
	Primary	On / **Off**	
	Secondary	On / **Off**	Unit Number: Mirror Primary, 2, 3, 4...32
	Self Test	All	
		Dimmer	
		Color	
SETTINGS	Dim Modes	**Standard**	
		Stage	
		TV	
		Architectural	
		Theatre	
		Stage 2	
		Dim Speed	0s - 10s (Default = **0.1s**)
	Dim Curves	Linear	
		Square	
		Square Inverse	
		S-Curve	
	LED Refresh Rate	900Hz - 1500Hz, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz (Default = **1200Hz**)	
	Menu Light Dim	**On** / Off	Dim Light Output to 20% if MENU button is pressed
	IR Active	**Off** / On	
	Charging Indicator LED	**On** / Off	
	Runtime Mode	**2 Hours**	
		4 Hours	
		8 Hours	
		12 Hours	

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		
SETTINGS (continued)	LED Power Limit	50%	
		60%	
		70%	
		80%	
		90%	
		100%	
	Display	Screen Delay	10s - 5min (Default = **1min**)
		Screen Lock	Off, 10s - 5min, **Key Lock**
		Rotate Display	Yes / **No** / Auto
	Reset Defaults	Yes / **No**	
INFORMA-TION	Battery	Charge %	
		Charging Time	
	Time	Current Run Time	
		Total Run Time	
		Last Run Time	
	Temperature	Current	
		Battery Temp	
		Max Resettable	
	Humidity	Current	
		Max Resettable	
	DMX Values	Red	
		Green	
		...	
	Product ID	RDM UID	
	Error Logs	Fixture Errors	
	Software Version	Vx.x	
SERVICE (Passcode = 050)	Calibration	Red	0 - 255
		Green	0 - 255
		Blue	0 - 255
		Lime	0 - 255
		Amber	0 - 255
		UV	0 - 255
	Reset Last Run	Yes / No	
	Reset Error Logs	Yes / No	

EDIT PROGRAM MENU

PREBUILT	Rainbow			
	RGB			
	CMY			
	Random Color			
	Dimmer Wave	Red	Dim Wave Intensity	Max% to Min%
		Green		
		Blue		
		Amber		
		UV		
		Magenta		
		Cyan		
		Yellow		
		Cool White		
		Warm White		
		Virtual Color		
	Speed	1 sec - 10 min		
	Fade Time	0 sec - 1 min		
	Fixture Offset	Synchronized		
		2		
		3		
		...		
		10		
		Random		

EDIT PROGRAM MENU

CUSTOM	Number of Steps	1, 2, 3...10			
	Step Effect	Step 1	Red	Intensity	0 - 100%
			Green		
			Blue		
			Amber		
			UV		
			Magenta		
			Cyan		
			Yellow		
			Cool White		
			Warm White		
			Virtual Color	1 - 60	
		...	..	...	...	...
		Step 10	Red	Intensity	0 - 100%
			Green		
			Blue		
			Amber		
			UV		
			Magenta		
			Cyan		
			Yellow		
			Cool White		
			Warm White		
			Virtual Color	1 - 60	
	Step Hold Time	1 sec - 5 min			
	Fade Time	0 sec - 1 min			
	Step Order	Linear			
		Random			
	Fixture Offset	Synchronized			
		2			
		3			
		...			
		10			
		Random			

DMX TRAITS

Features subject to change without notice											
MODE/CHANNEL								DMX VALUES	FUNCTION	SNAP	DEFAULT VALUE
1 ch	3 ch	6 ch	9 ch	11 ch	14 ch-A	14 ch-B	20 ch				
1			1	1	1	1	1		**Dimmer**		0
								0-255	Intensity 0 → 100		
			2	2	2	2	2		**Dimmer Fine**		0
								0-255	Fine Intensity Control		
			3	3	3	3	3		**Shutter/Strobe**	X	50
								0-31	Shutter Closed		
								32-63	No function (shutter open)		
								64-95	Strobe effect, slow to fast		
								96-127	No function (shutter open)		
								128-159	Pulse effect in sequences		
								160-191	No function (shutter open)		
								192-223	Random strobe effect, slow to fast		
								224-255	No function (shutter open)		
	1	1	4			4	4		**Red**		0
								0-255	0 → 100%		
							5		**Red Fine**		0
								0-255	Fine adjustment		
	2	2	5			5	6		**Green**		0
								0-255	0 → 100%		
							7		**Green Fine**		0
								0-255	Fine adjustment		
	3	3	6			6	8		**Blue**		0
								0-255	0 → 100%		
							9		**Blue Fine**		0
								0-255	Fine adjustment		
		4	7			7	10		**Lime**		0
								0-255	0 → 100%		
							11		**Lime Fine**		0
								0-255	Fine adjustment		
		5	8			8	12		**Amber**		0
								0-255	0 → 100%		
							13		**Amber Fine**		0
								0-255	Fine adjustment		
		6	9			9	14		**UV**		0
								0-255	0 → 100%		
							15		**UV Fine**		0
								0-255	Fine adjustment		

DMX TRAITS

Features subject to change without notice											
MODE/CHANNEL								**DMX VALUES**	**FUNCTION**	**SNAP**	**DEFAULT VALUE**
1 ch	**3 ch**	**6 ch**	**9 ch**	**11 ch**	**14 ch-A**	**14 ch-B**	**20 ch**				
				4	4				**Cyan**		0
								0-255	0 → 100%		
					5				**Cyan Fine**		0
								0-255	Fine adjustment		
				5	6				**Magenta**		0
								0-255	0 → 100%		
					7				**Magenta Fine**		0
								0-255	Fine adjustment		
				6	8				**Yellow**		0
								0-255	0 → 100%		
					9				**Yellow Fine**		0
								0-255	Fine adjustment		
				7	10	10	16		**Variable CCT**		0
								0-23	Open		
								24-85	2400K → 8500K		
								86-255	8500K		
				8	11	11	17		**CCT Cross Fade**		0
								0	CCT		
								1-254	Idle		
								255	Color Mix		
				9	12	12	18		**Color Wheel**		0
								0	Open		
								1-179	Color Macros (see table)		
									Color Scroll		
								180-201	Clockwise, fast → slow		
								202-207	Stop		
								208-229	Counter-clockwise, slow → fast		
								230-234	Open		
									Random Slots		
								235-239	Fast		
								240-244	Medium		
								245-249	Slow		
								250-255	Open		

DMX TRAITS

Features subject to change without notice

MODE/CHANNEL								DMX VALUES	FUNCTION	SNAP	DEFAULT VALUE
1 ch	3 ch	6 ch	9 ch	11 ch	14 ch-A	14 ch-B	20 ch				
									Dim Modes		
								0-20	Standard		
								21-40	Stage		
								41-60	TV		
								61-80	Architectural		
								81-100	Theatre		
								101-120	Stage 2		
									Dimmer Delay Time		
								121	0s		
								122	0.1s		
								123	0.2s		
								124	0.3s		
								125	0.4s		
								126	0.5s		
								127	0.6s		
				10	13	13	19	128	0.7s	X	0
								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		
								142-255	Idle		

DMX TRAITS

Features subject to change without notice

MODE/CHANNEL								DMX VALUES	FUNCTION	SNAP	DEFAULT VALUE
1 ch	3 ch	6 ch	9 ch	11 ch	14 ch-A	14 ch-B	20 ch				
									Control		
								0-19	Idle		
								20-29	2hr Run Time		
								30-39	4hr Run Time		
								40-49	8hr Run Time		
								50-59	12hr Run Time		
								60-99	Idle		
									Refresh Rate (Hz)		
								100	900		
								101	910		
								102	920		
								103	930		
								104	940		
								105	950		
								106	960		
								107	970		
								108	980		
								109	990		
								110	1000		
				11	14	14	20	111	1010	X	0
								112	1020		
								113	1030		
								114	1040		
								115	1050		
								116	1060		
								117	1070		
								118	1080		
								119	1090		
								120	1100		
								121	1110		
								122	1120		
								123	1130		
								124	1140		
								125	1150		
								126	1160		
								127	1170		
								128	1180		
								129	1190		
								130	1200		

DMX TRAITS

Features subject to change without notice

MODE/CHANNEL								DMX VALUES	FUNCTION	SNAP	DEFAULT VALUE
1 ch	3 ch	6 ch	9 ch	11 ch	14 ch-A	14 ch-B	20 ch				
									Refresh Rate (Hz) (continued)		
								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		
				11	14	14	20	147	1370	X	0
								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		

DMX TRAITS

Features subject to change without notice											
MODE/CHANNEL								**DMX VALUES**	**FUNCTION**	**SNAP**	**DEFAULT VALUE**
1 ch	**3 ch**	**6 ch**	**9 ch**	**11 ch**	**14 ch-A**	**14 ch-B**	**20 ch**				
									Refresh Rate (Hz) (continued)		
								165	10000		
								166	15000		
								167	20000		
								168	25000		
				11	14	14	20	169-200	Idle	X	0
									Dimmer Curves		
								201-210	Linear		
								211-220	Square		
								221-230	Inverse Square		
								231-240	S-Curve (Default)		
								241-255	Idle		

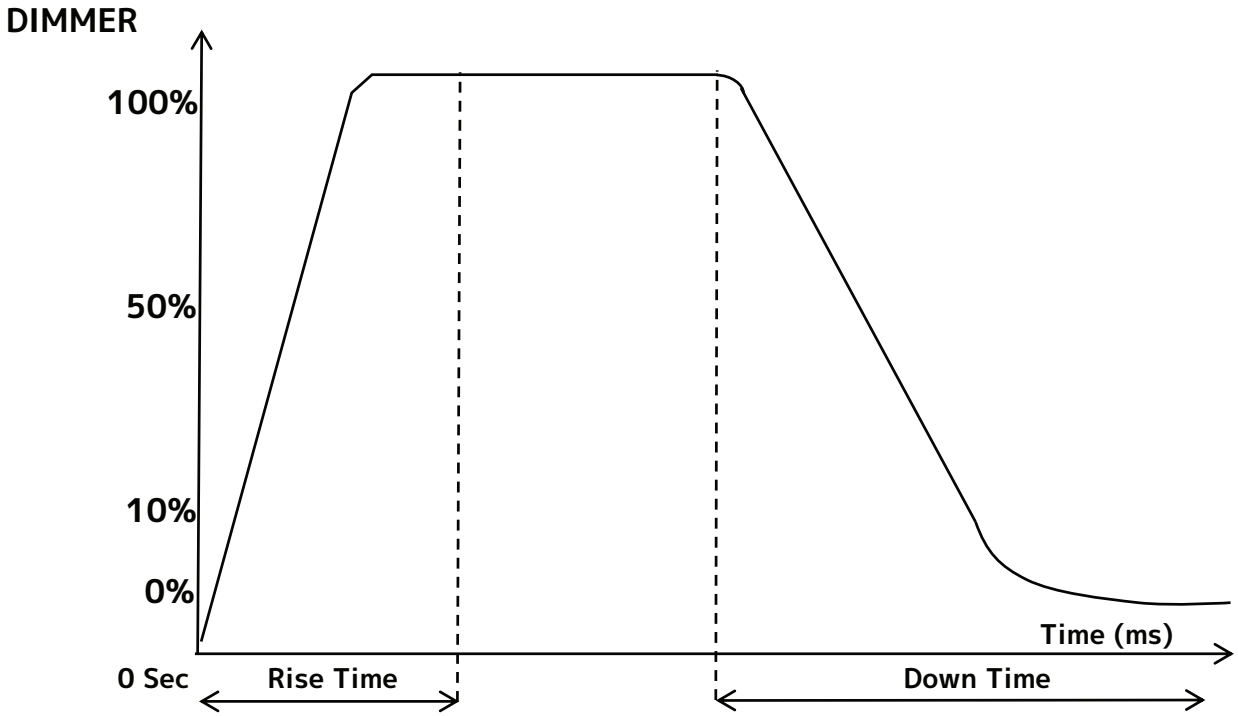
COLOR TEMPERATURE TABLE

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

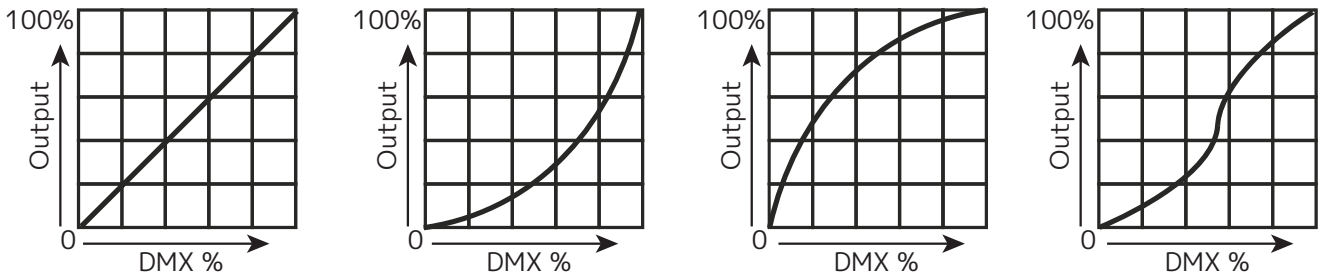
COLOR MACROS

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



REMOTE CONTROL

This unit can be operated using the Elation IR remote control. This capability can be enabled in the System Menu by navigating to Settings > IR Active. When using the IR remote to control multiple units that are operating in primary/secondary mode, follow these steps to set up the units:

1. Power on the unit, and press MODE to scroll to the “Control” menu, then press ENTER.
2. Use the UP and DOWN buttons to scroll to either “Primary” or “Secondary” sub-menu, depending on what status will be assigned to this unit. Press ENTER, then use the UP and DOWN buttons to toggle the setting to “On”. Press ENTER to confirm.
3. Press MODE to navigate to the “DMX” menu, and press ENTER to confirm.
4. Use UP and DOWN to scroll to “Aria Settings” sub-menu and press ENTER.
5. Use the UP and DOWN buttons select either “2.4GHz Chan” or “Sub Gig Chan”, depending on which frequency setting the unit has been set to. Press ENTER, then use UP and DOWN to set the unit to the desired wireless channel.
6. Repeat these steps for each unit. Please note that all units should be set to the same wireless channel.

NOTES:

- Only one unit should be configured as the primary, while all the other units should be configured as secondaries.
- All units in the system should be set to the same wireless channel. If all units are set to the same wireless channel, and the units do not sync up and/or respond to commands, try using a different channel.
- All units should be set to the same DMX channel mode.
- If fixtures fail to sync, verify that all settings mentioned above are the same, then power all devices off, then switch them on again to re-establish the link.

CONTROLS



- **ON** and **OFF:** Turns LED output on or off.
- **+** and **-** buttons: These buttons are used to adjust brightness. 11 levels are available.
- **R/G/B/A/C/M/Y/UV:** Press to enable or disable the color indicated on each button.
- **2700K/3200K/4500K/6500K:** Press to enable or disable the color temperature setting indicated on each button.
- **-COLOR/+COLOR:** Activate color wheel, and rotate color wheel forward or backward.
- **-CCT/+CCT:** Activate color temperature, and decrease or increase the color temperature by increments of 100K.
- **-PROG/+PROG:** Activate internal programs, and cycle through programs in forward to backwards order.
- **-SPEED/+SPEED:** Decrease or increase the speed of the selected program.
- **FADE:** Set the internal program transitions to fade.
- **SNAP:** Set the internal program transitions to snap.
- **2H/4H/8H/12H:** Event run time settings - use to adjust output for extended battery life.

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
Temp Error	Temperature Error

TORQUE SETTINGS FOR SCREWS

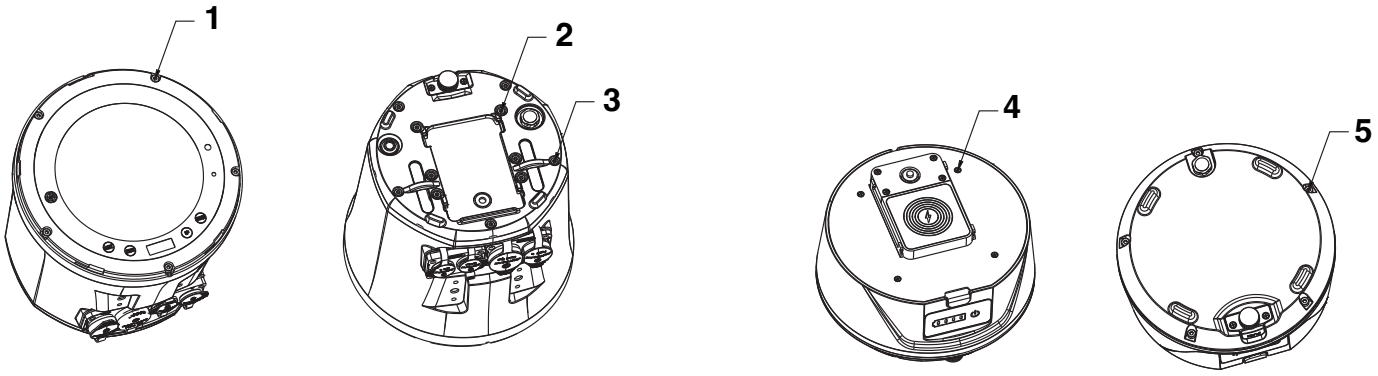
IN ORDER TO MAINTAIN THE IP65 RATING ON THE LIGHTING FIXTURES, ALL SCREWS MUST BE TIGHTENED TO THE FOLLOWING TORQUE SPECIFICATION USING A TORQUE DRIVER.

Refer to the table and diagram below for torque specifications.

TORQUE DRIVERS (Recommended): UTICA TS-30 (shown)
ALTERNATE DRIVERS:
- Proto J6107A
- Wiha 28887



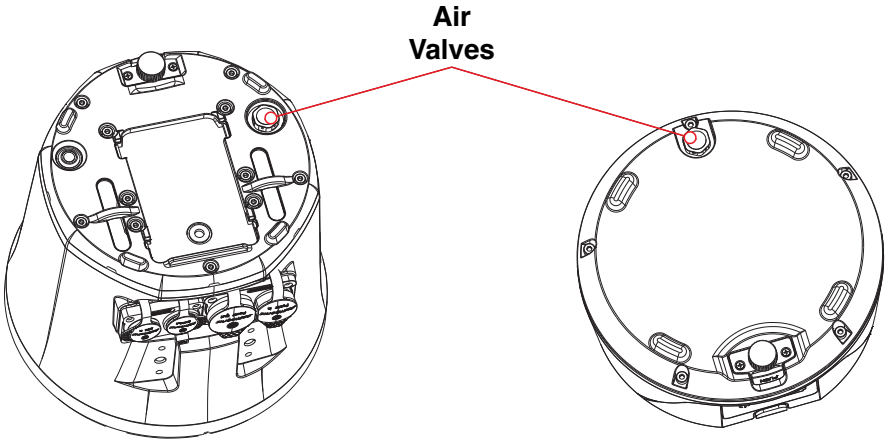
CAUTION! DO NOT OVER TORQUE SCREWS, AS THIS CAN CAUSE LEAKAGE ISSUES!



NO.	LOCATION	QTY.	TORQUE
1	Front Cover	5	11.3 ± 0.4 lb-in (13.0 ± 0.5 Kg-cm)
2	Rear Cover	6	11.3 ± 0.4 lb-in (13.0 ± 0.5 Kg-cm)
3	Rear Cover Base	5	11.3 ± 0.4 lb-in (13.0 ± 0.5 Kg-cm)
4	Charging Base Upper Panel	4	4.3 ± 0.4 lb-in (5.0 ± 0.5 Kg-cm)
5	Charging Base Lower Panel	4	11.3 ± 0.4 lb-in (13.0 ± 0.5 Kg-cm)

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, as well as the optional charging base, each feature and air valve on the underside. Air valve locations are shown in the diagram below. Please contact Elation Service for information regarding the Elation IP Tester, or visit the product information page online at: **https://www.elationlighting.com/ip-tester**



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

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



IP PRESSURE TESTING PARAMETERS			
Test Type	**Low Pressure Limit**	**High Pressure Limit**	**Hold Time**
Pressure Test	2.901 psi (20.0 KPa)	3.336 psi (23.0 KPa)	15 sec
Vacuum Test	N/A	N/A	N/A

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

ORDERING INFORMATION

SKU (US)	SKU (EU)	DESCRIPTION
VOL327	1237000392	Volt+ Par L
VOL555	Pending	Volt+ IR Remote
VOL359	123700389	Volt+ Par L Yoke
VOL345	Pending	Volt+ Par L Lens Kit
VOL402	1237000390	Volt+ Par Battery Base
Pending	Pending	Volt+ Par Stand Adapter
VOL302	Pending	Volt+ Par L 6-Pack

SPECIFICATIONS

SOURCE
60W RGBLA+ UV LED
30,000 Hour Average LED Life*
*May vary depending on several factors including but not limited to:
Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control and Dimming.

PHOTOMETRIC DATA
Total Lumen Output:
3,600 (Integrating Sphere)
CRI- 90.9
TLCI- 80
Beam Angle: 15°
Field Angle: 28°

EFFECTS
Prebuilt & Custom Standalone Effect Sequences
Electronic Dimmer and Strobe
Variable 16-bit Dimming Modes and Curves

COLOR
RGBLA+ UV Color Array
CMY Emulation
Variable CCT 2400K - 8500K
Virtual Gel Swatch Book

CONTROL / CONNECTIONS
8 DMX Channel Modes (1ch, 3ch, 6ch, 9ch, 11ch, 14ch, 14ch, 20ch)
4 Button Control Panel, LED Display
Aria x2 Wireless Device Management
IR Remote
NFC Configuration
5pin DMX and IP65 Locking Power Cable In/Out

SIZE / WEIGHT
Length: 8.11" (206 mm)
Width: 8.11" (206mm)
Vertical Height (with Snoot): 9.28" (235.7mm)
Vertical Height (without Snoot): 7.08" (180mm)
Weight (Fixture Only): 15.1lbs (6.85kg)

ELECTRICAL / THERMAL
AC 100-240V - 50/60Hz
160W Max Power Consumption
5°F to 104°F (-15°C to 40°C)
BTU/hr (+/- 10%) 238.7

BATTERY
Lithium Ion Rechargeable
Battery Capacity: 19.2Ah
Battery Voltage: 18V
Charge Time: 4.5hr
Battery Life: >12hr
Battery Recharge Cycles: >300 to 80% Capacity

INCLUDED ITEMS
Diffusion Filter
Concentric Ring
Removable Half Snoot

OPTIONAL ITEMS
VOLT+ IR REMOTE (VOL555)
VOLT+ PAR L YOKE (VOL359)
VOLT+ PAR L LENS KIT (VOL345)
VOLT+ PAR BATTERY BASE (VOL402)
VOLT+ PAR STAND ADAPTER
VOLT+ PAR L 6-PACK (VOL302)

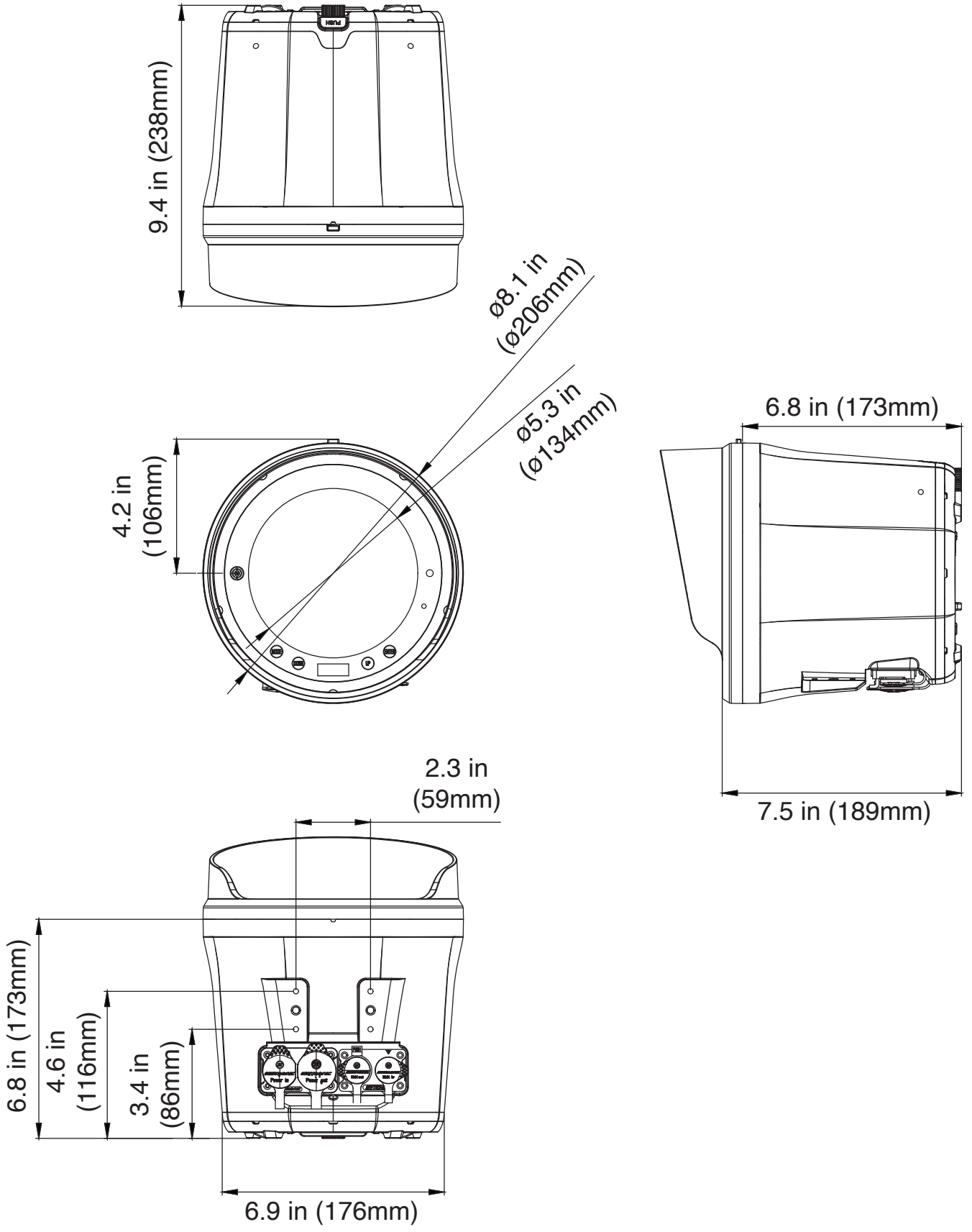
APPROVALS / RATINGS
CE | cETLus | IP65 | FCC | UKCA

Intertek 4010765

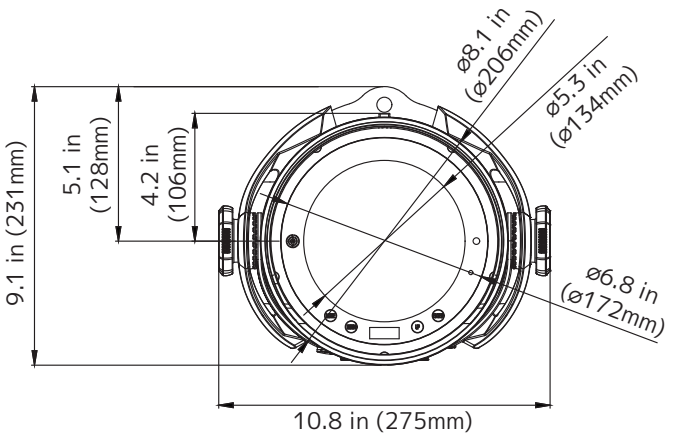
IP65

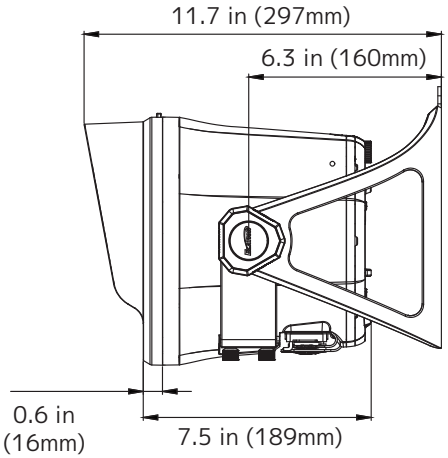
Specifications and documentation subject to change without notice.

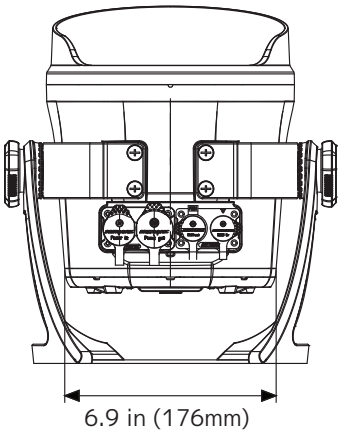
DIMENSIONAL DRAWINGS

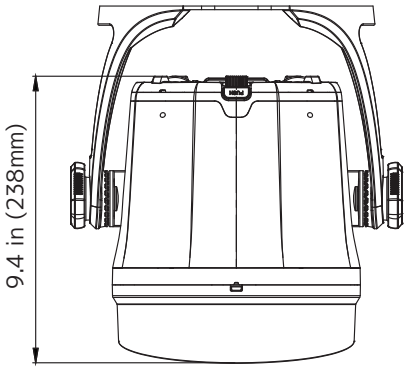


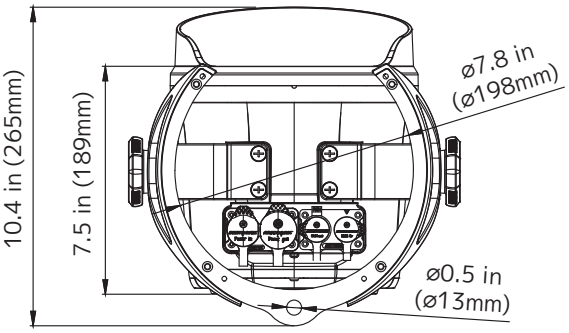
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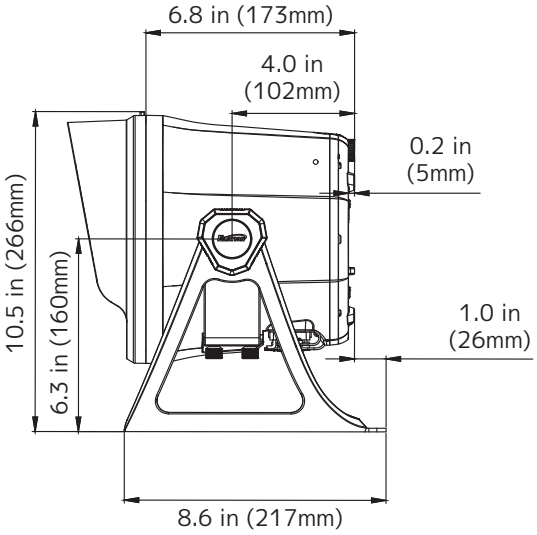


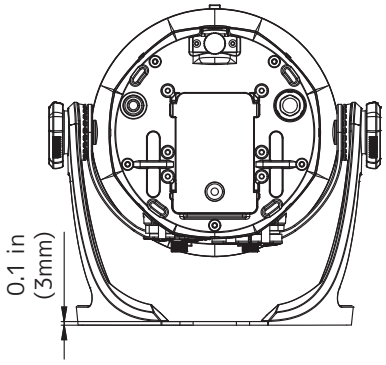




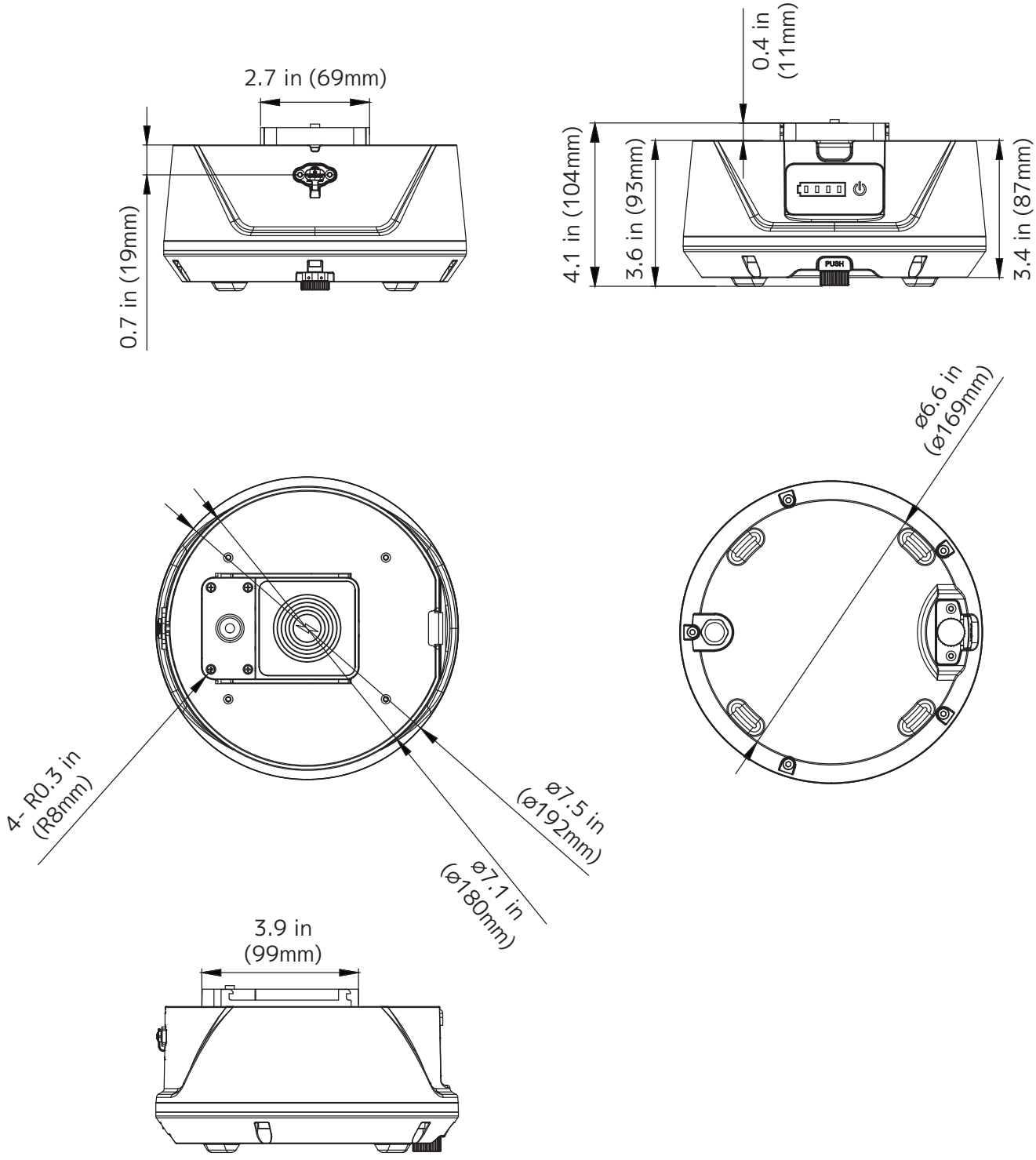








DIMENSIONAL DRAWINGS



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 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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