

# **ELATION**<sup>®</sup>



**LIMELIGHT**  
**PAR 5**

**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](http://www.elationlighting.com) for the latest revision/update of this manual, before installation and/or programming.

| Date     | Document Version | Software Version | DMX Channel Mode                                 | Notes                             |
|----------|------------------|------------------|--|-----------------------------------|
| 04/10/24 | 1.0              | 1.01             | 4 / 12 / 15 / 13 / 17 Ext / 17 Std Zones / 25 Ch | Initial Release                   |
| 04/22/24 | 1.1              | N/C              | No Change  | Updated Control Panel, DMX Set Up |
| 06/17/24 | 1.2              | N/C              | No Change  | Updated Specifications            |

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# 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 use by trained personnel only, and is not suitable for private use.**

## 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

Power Cable (x1)  
Safety Cable (x1)

## CUSTOMER SUPPORT

Contact ELATION Service for any product related service and support needs. Also visit [forums.elationlighting.com](https://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](mailto:support@elationlighting.com)

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**REPLACEMENT PARTS** please visit [parts.elationlighting.com](https://parts.elationlighting.com)



## IMPORTANT NOTICE!

**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.**

## LIMITED WARRANTY (USA ONLY)

- A. Elation Professional hereby warrants, to the original purchaser, Elation Professional products to be free of manufacturing defects in material and workmanship for a period of two years (730 days), and Elation Professional product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days), from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, send the product only to the Elation Professional factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional shall have no liability what so ever for loss and/or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Elation Professional concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional factory unless prior written authorization was issued to purchaser by Elation Professional; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.
- D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Elation Professional will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.
- E. Elation Professional reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.
- G. This warranty is the only written warranty applicable to Elation Professional products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

### WARRANTY RETURNS

All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

# 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**).

**Maritime/Coastal Environment Installations:** A coastal environment is seaside adjacent, and caustic to electronics through exposure to atomized salt-water and humidity, whereas maritime is anywhere within 5-miles of a coastal environment.

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.

**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](mailto:service@elationlighting.com) for any needed parts or manuals.

# SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee 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 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.



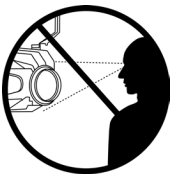
**PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.**



**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 DEVICE 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 THIS UNIT INTO A DIMMER PACK  
DO NOT REMOVE THE COVER PANELS FOR ANY REASON  
NEVER OPERATE THIS UNIT WITH THE CASING REMOVED  
UNPLUG FROM POWER DURING LONG PERIODS OF NON-USE  
DISCONNECT POWER BEFORE PERFORMING MAINTENANCE**



**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!  
RETINA INJURY RISK - MAY INDUCE BLINDNESS!  
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!  
FIXTURE SHOULD BE PLACED A MINIMUM OF 1.0 FOOT (0.3 METERS) FROM ANY NEARBY OBJECTS OR SURFACES.**



**FIXTURE SHOULD BE PLACED A MINIMUM OF 1.6 FEET (0.5 METERS) FROM ANY FLAMMABLE MATERIALS.  
MAXIMUM AMBIENT OPERATING TEMPERATURE IS 113°F (45°C)**

# SAFETY GUIDELINES

**For Your Own Personal Safety, Please Read and Understand This Manual Completely Before You Attempt To Install Or Operate This Unit!**

- Do not touch the fixture housing during operation, as it may be hot.
- Do not shake the fixture, and avoid using brute force when installing and/or operating.
- Use only the original packaging and materials to transport or ship the fixture for service. Make sure to retain the original packaging for this purpose.
- Be sure that the local power outlet matches the required voltage for the device.
- Do not open up the device for any reason. There are no user serviceable parts inside.
- Disconnect the device's main power when left unused for long periods of time.
- Never connect this device to a dimmer pack.
- Do not attempt to operate this device if it has been damaged in any way.
- Never operate this device with the cover removed.
- Do not attempt to operate this device if the power cord has been frayed or broken.
- Never force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace immediately with a new cord of the same power rating.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Only handle the power cord by the plug end. Never disconnect the plug by tugging on the wire portion of the power cord.
- Disconnect from main power before making any type of connection.
- Never block the air ventilation slots. Always be sure to mount this device in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Always mount this unit in a safe and stable matter.
- Please route your power cord out of the way of foot traffic. Power cords should be routed so they are not likely to be walked on or pinched by items placed upon or against them.
- Before performing any servicing, turn off and disconnect the device from power and allow at least 15 minutes for the device to cool.
- Consistent operational breaks will ensure that this fixture will function properly for many years.
- The device should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged.
  - B. Objects have fallen on, or liquid has been spilled into, the device.
  - C. The device has been immersed in liquid.
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

**Keep all flammable materials away from this fixture!**



# MAINTENANCE GUIDELINES



**DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!**

## **CLEANING**

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean periodically with a soft cloth to avoid dirt/debris accumulation.

**NEVER** use alcohol, solvents, or ammonia-based cleaners.

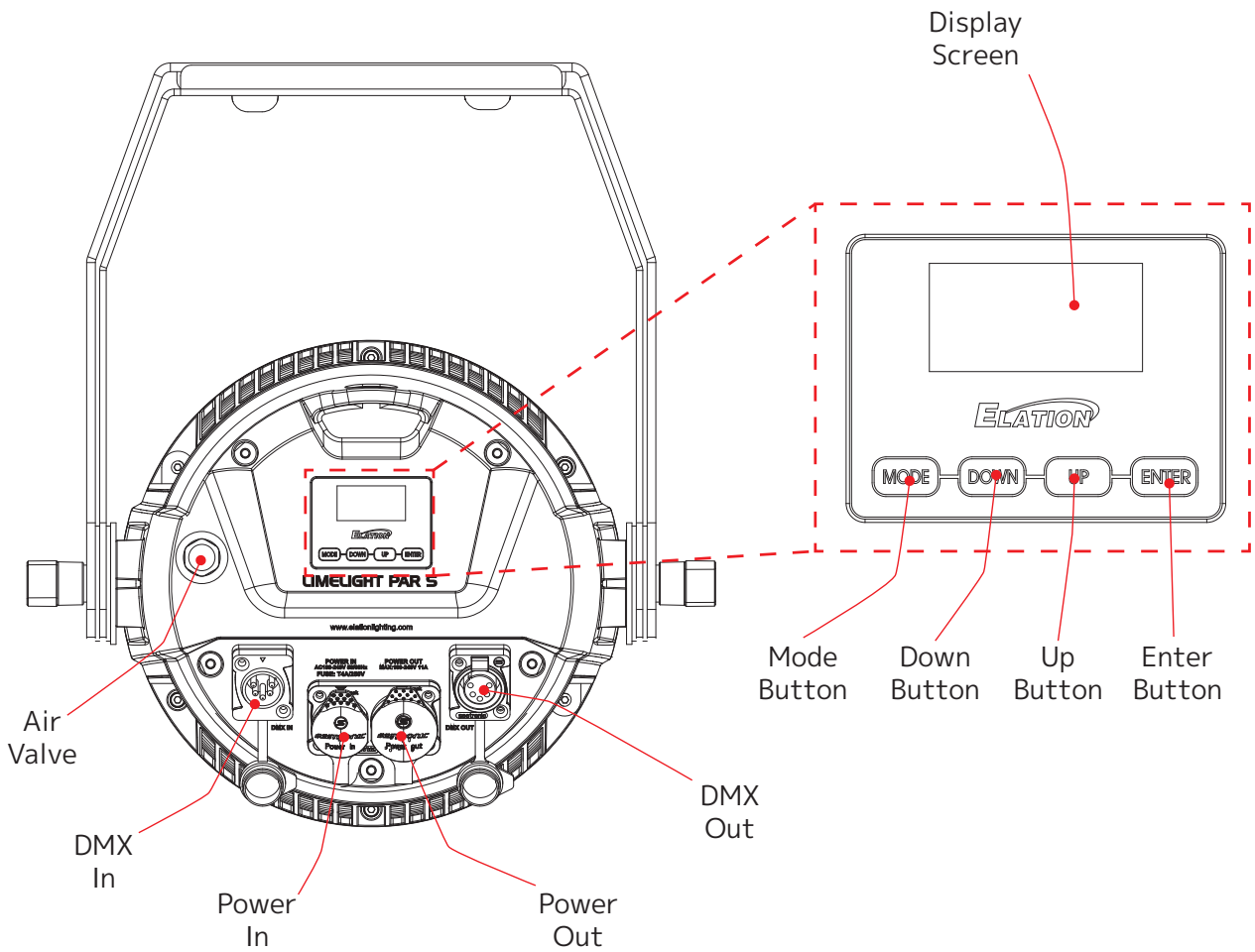
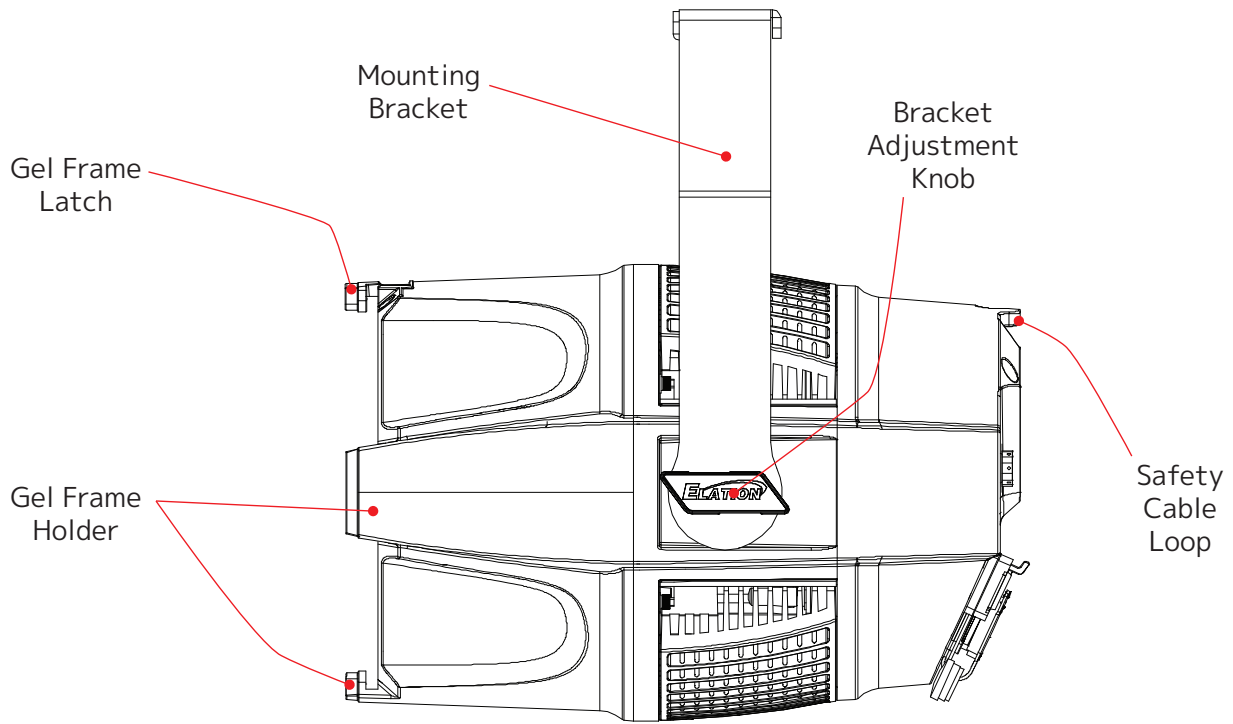
## **MAINTENANCE**

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 an authorized Elation dealer.

Please refer to the following points during routine inspections:

- A detailed electrical 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.

# OVERVIEW



# INSTALLATION GUIDELINES



## FLAMMABLE MATERIAL WARNING

Keep fixture minimum 5.0 feet (1.5m) 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 OBJECTS/SURFACES IS 1 FOOT (0.3 METERS)



## MINIMUM DISTANCE OF FLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METER)



## MAXIMUM AMBIENT TEMPERATURE 113° F (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 a single fixture or multiple fixtures to any metal truss/structure or placing the fixture(s) 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(s), clamps, cables, and accessories.

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.

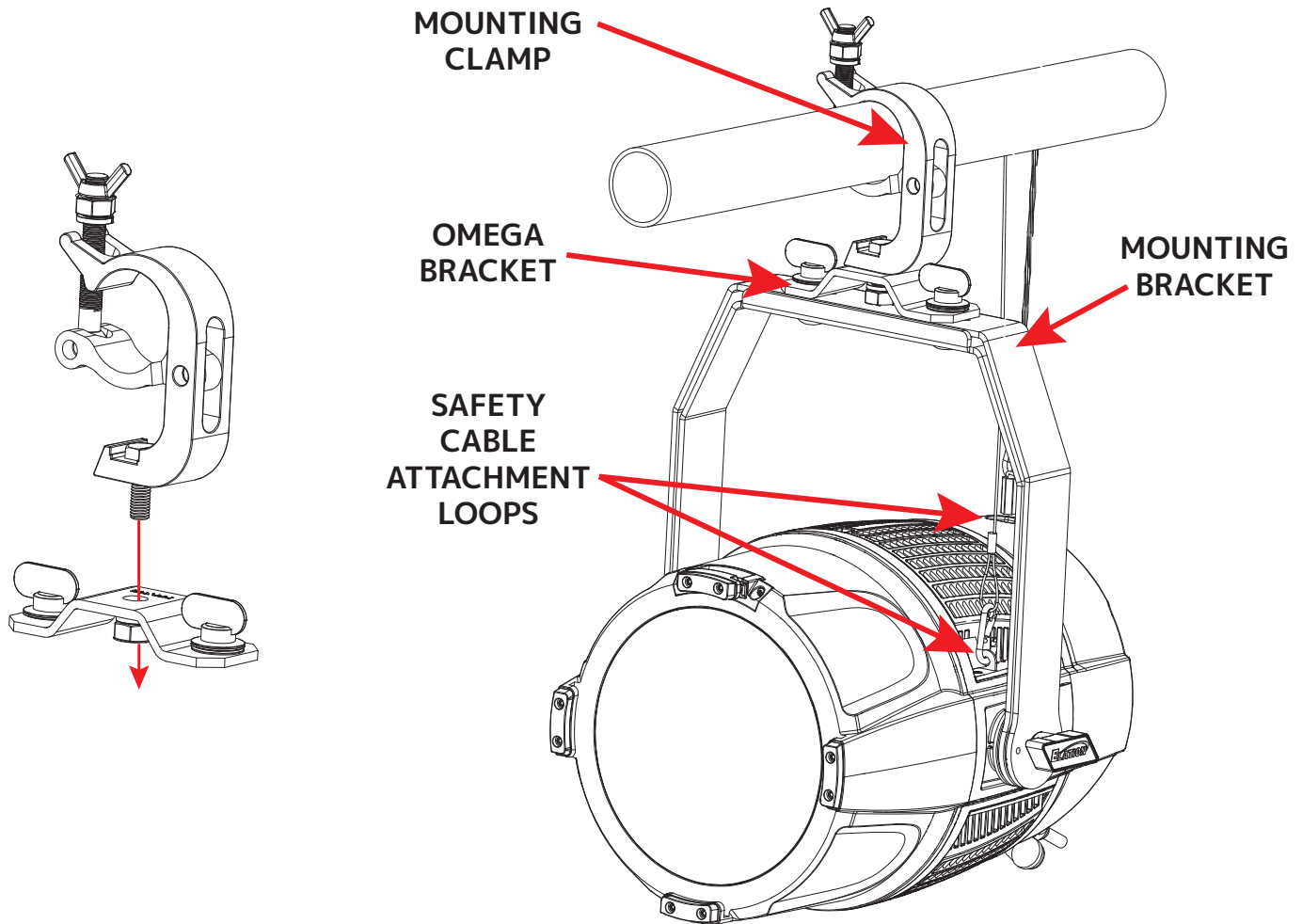
Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

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

# INSTALLATION GUIDELINES

## OMEGA BRACKET WITH CLAMP INSTALLATION

When mounting the fixture to a truss, secure an appropriately rated professional grade rigging clamp to the Omega Bracket by inserting and appropriately sized bolt through both clamp and Omega bracket, then fasten them together using a matching bolt. Attach the Omega bracket to the fixture using the attachment points located on the top of the mounting bracket. Attach a safety cable of the appropriate weight rating to one of the provided attachment points: either on the rear panel of the fixture above the display screen, or at the base of the mounting bracket.

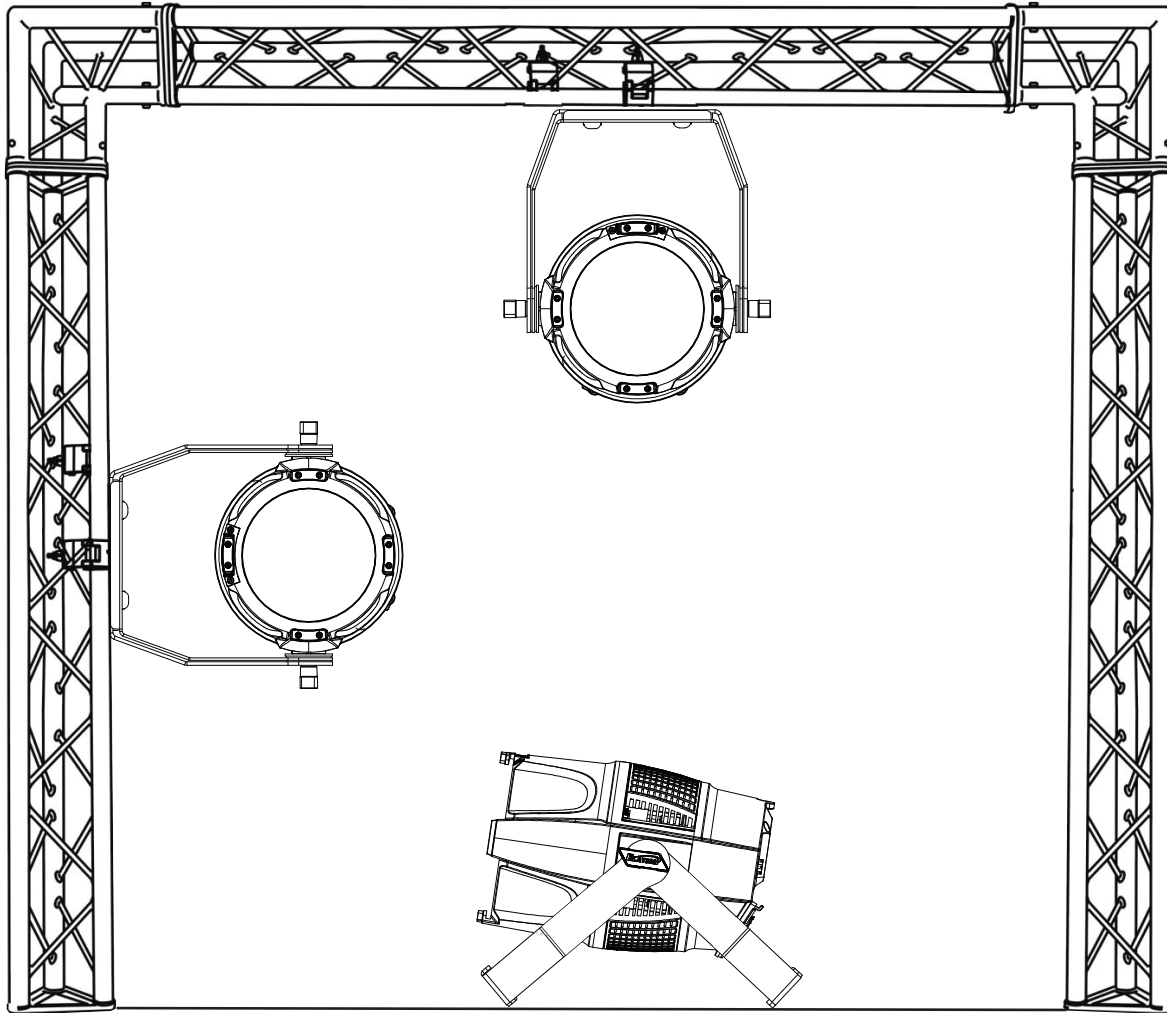


**ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.**

# INSTALLATION GUIDELINES

## FIXTURE INSTALLATION

This fixture is fully operational in three different mounting positions: hanging upside-down, mounted sideways on trussing, or set on a flat level surface. Be sure this fixture is kept well away from any flammable materials (decoration etc.). Always use and install a safety cable of the proper rating as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.



**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.**



**IF FIXTURE IS INSTALLED WITH ACCESSORIES FITTED, THE FIXTURE SHOULD ALWAYS BE INSTALLED WITH THE GEL FRAME LATCH ORIENTED UPWARDS, IN ORDER TO ENSURE THAT THE ACCESSORIES WILL NOT FALL IN THE EVENT THAT THE LATCH FAILS**

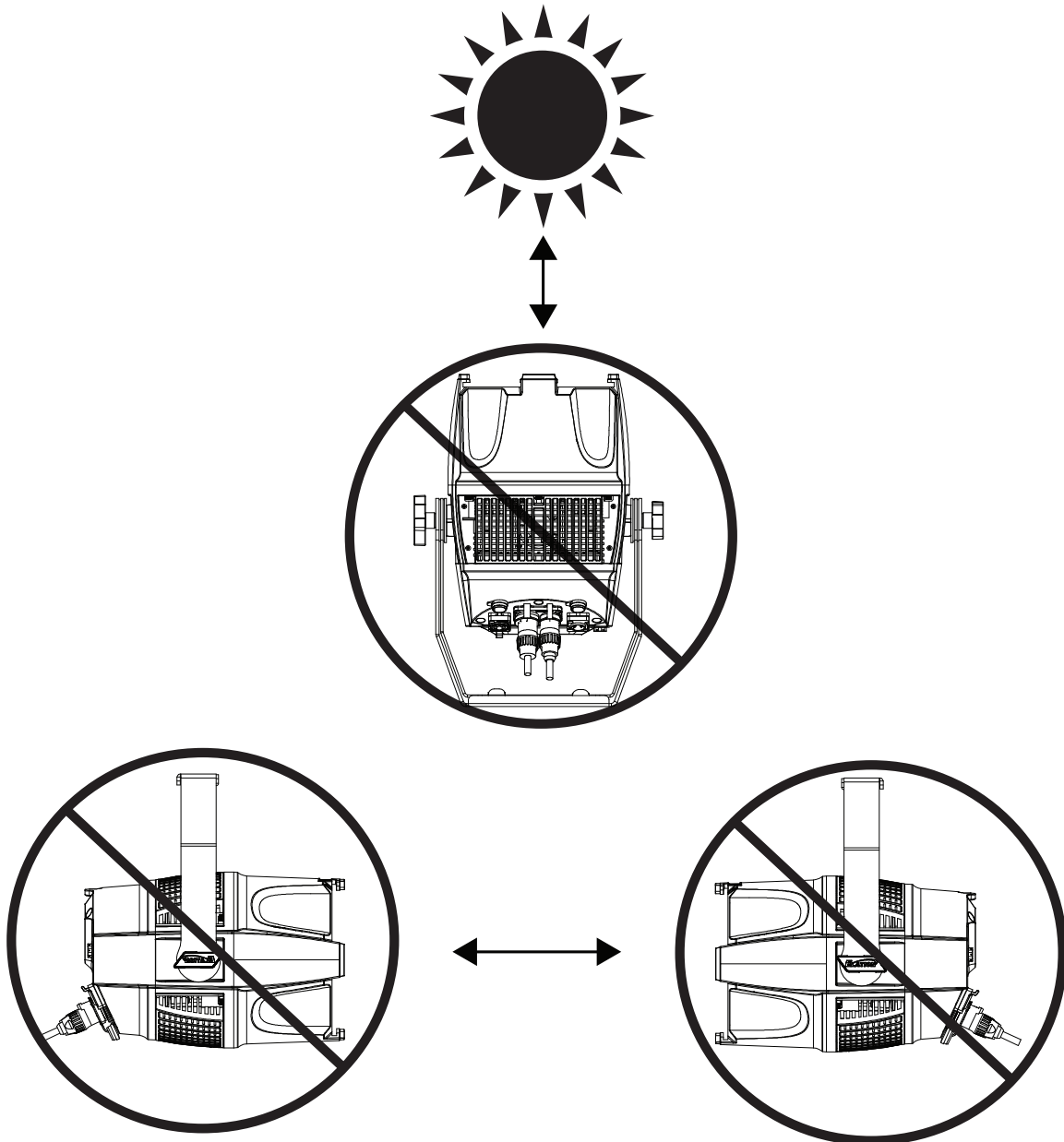
# INSTALLATION GUIDELINES

## POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

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

This issue is not specific only to ELATION lighting fixtures, it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can prevent any potential damage from occurring if followed. Contact ELATION Service for more details.

**DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING MOVING HEAD FIXTURES, AND LASERS WHILE UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.**

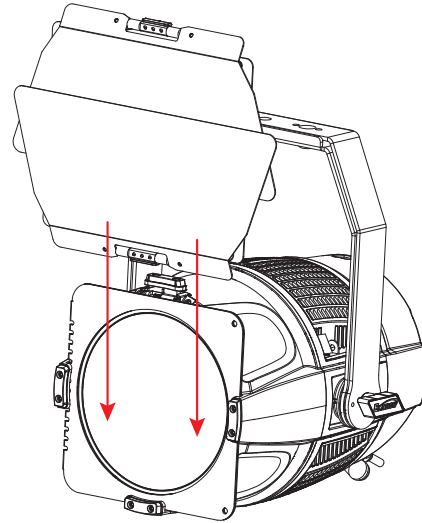
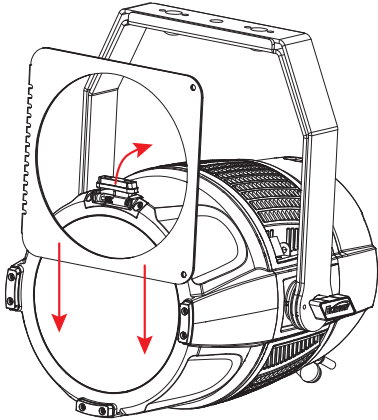


# ACCESSORY INSTALLATION

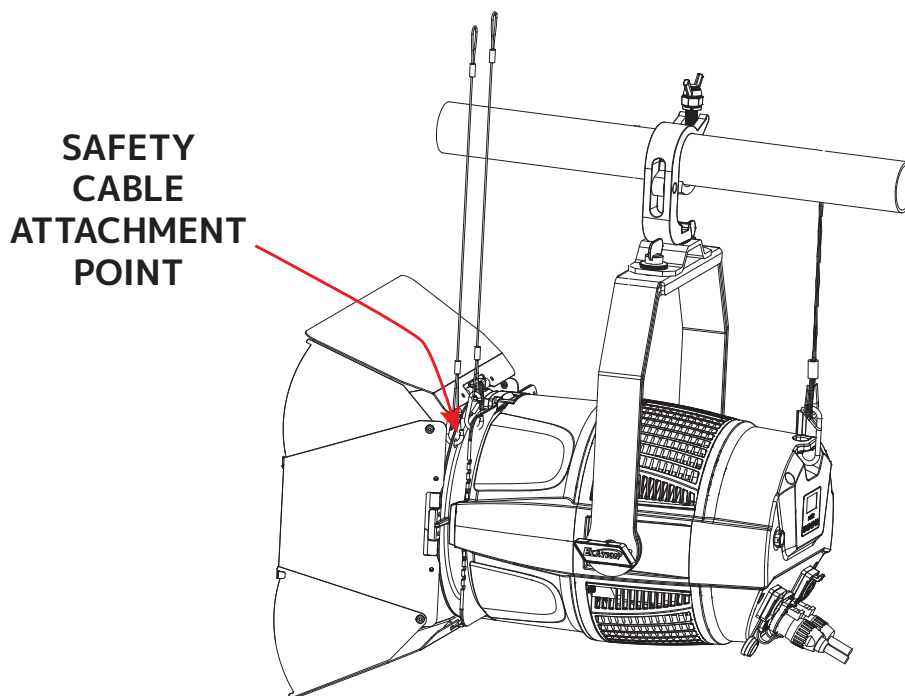
## GEL FRAME AND BARNDOORS

This fixture can be fitted with an optional gel frame and an optional set of barndoors. Follow the instructions below to install these accessories.

1. Open the gel frame latch and slide the gel frame into place in front of the fixture's lens.
2. Slide the barndoors into place in front of the gel frame. Close the gel frame latch to secure the accessories in place.



3. If the fixture is being installed in an overhead location, such as hanging from a truss, the barndoors must be secured with their own independent safety cable. The safety cable attachment points can be found at the base of the barndoor unit near where it comes into contact with the fixture. Additionally, always orient the unit with the gel frame latch facing upwards, so that the accessories will not fall in the event that the latch fails.



# 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, and allows the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is 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 its 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:

| Device ID   | Device Model ID | RDM Code | Personality ID  |
|-------------|-----------------|----------|---|
| 0x0040 XXXX | 0x0040          | 0x22A6   | 001: RGB 4Ch<br>002: CMY 12Ch<br>003: CMY Extended 15Ch<br>004: Standard 13Ch<br>005: Extended 17Ch<br>006: Standard Zones 17Ch<br>007: Extended Zones 25Ch |

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:

|                             |                       |
|-----------------------------|-----------------------|
| Preset Playback             | Device Hours          |
| Default Slot Value          | Comms Status          |
| Boot Software Version Label | Status ID Description |
| Boot Software Version ID    | Clear Status ID       |
| Product Detail ID List      | Lamp Hours            |
| Status Messages             | Lamp Strikes          |
| Proxied Device Count        | Lamp State            |
| Sensor Definition           | Lamp On Mode          |
| Sensor Value                | Device Power Cycles   |
| Device Model Description    | Display Invert        |
| Manufacturer Label          | Display Level         |
| Device Label                | Real Time Clock       |
| DMX Personality             | Power State           |
| DMX Personality Description | Queued Message        |

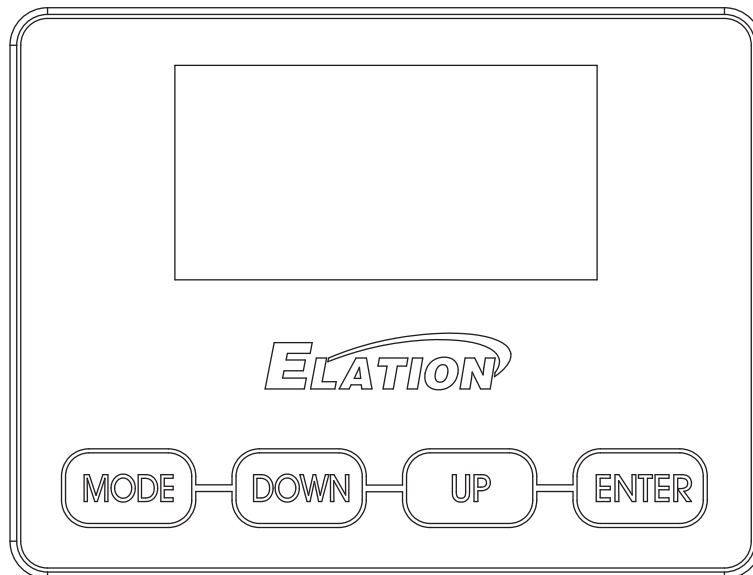


# CONTROL PANEL

The fixture includes an easy to navigate system menu. The control panel display is located on the rear panel of the fixture (see image below) and provides access to the main system menu, where all necessary system adjustments are made to the fixture. During normal operation, you can navigate through the different menu options with the DOWN and UP buttons. To select the option shown on the screen, press the ENTER button, then 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 MENU button.

The control panel also features a battery charge indicator near the control buttons, as well as a service port for updating the device's software (see the note below).

In default setting, the screen will remain on as long as that device is connected to power. However, it can be configured to lock after a certain period of inactivity by navigating to Settings > Display > Screen Lock in the System Menu. To unlock the device, press and hold the MODE button for 10 seconds.



**PLEASE NOTE:** For units installed in an outdoor setting, the display screen and control panel may interpret a raindrop as a command input and change the fixture's setting (phantom touch) if the display screen is not locked. **The default setting for this unit is to have the display screen unlocked (Settings > Display > Screen Lock > Off).** Therefore, to avoid unintentional command inputs, the Screen Lock setting should be configured so that the screen and control will lock after the selected period of inactivity.

**SOFTWARE UPDATE: AN ELATION C-LOADER II CAN BE USED TO UPDATE THE FIXTURE TO THE LATEST SOFTWARE.** To order this device, please contact Elation Support for further details.

**ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST**  
323-582-3322 | Fax 323-832-9142 | 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

# SYSTEM MENU

| ELATION LIMELIGHT PAR S |                      |  |   |   |
|-------------------------|----------------------|--|---|---|
| DMX                     | DMX Address          | <b>001</b> - 512   |   | Set DMX address   |
|                         | DMX Mode             | 4Ch RGB  |   | Select DMX channel mode   |
|                         |                      | 12Ch CMY   |   |   |
|                         |                      | 15Ch CMY Extended  |   |   |
|                         |                      | <b>13Ch Standard</b>   |   |   |
|                         |                      | 17Ch Extended  |   |   |
|                         |                      | 17Ch Standard Zones  |   |   |
|                         |                      | 25Ch Extended Zones  |   |   |
|                         | No DMX Status        | <b>Hold Last</b>   |   | Fixture holds last settings received if DMX signal is lost or interrupted |
|                         |                      | Fade to Black  |   | Fixture takes all channels to 0 if DMX signal is lost or interrupted      |
| Standalone              |                      | Fixture defaults to standalone mode if DMX signal is lost or interrupted |   |   |
| Protocol                | Select Signal        | <b>DMX</b>   | Select signal protocol                  |   |
|                         |                      | Aria In - DMX Out  |   |   |
|                         |                      | DMX In - Aria Out  |   |   |
| Aria                    | Aria Channel         | <b>0</b> - 14  | Select Aria channel                     |   |
| CONTROL                 | Manual Control       | Dimmer   | 000% - <b>100%</b>                      | Manually configure each parameter   |
|                         |                      | Red  | 0 - <b>255</b>                          |   |
|                         |                      | Green  | 0 - <b>255</b>                          |   |
|                         |                      | Blue   | 0 - <b>255</b>                          |   |
|                         |                      | Lime   | 0 - <b>255</b>                          |   |
|                         |                      | CCT  | 2400K - 8500K<br>Default = <b>6000K</b> |   |
|                         |                      | Green Shift  | -100% ~ +100%<br>Default = <b>0</b>     |   |
|                         |                      | Virtual Color  | see <b>Color Macros Table</b> section   |   |
|                         | Zoom                 | 000% - 100%<br>Default = <b>50%</b>                                      |   |   |
|                         | Primary              | On / <b>Off</b>  |   | Set unit as primary   |
| Secondary               | On / <b>Off</b>      |  | Set unit as secondary                   |   |
| Zoom Speed              | <b>Fast</b> / Smooth |  | Set zoom speed                          |   |

# SYSTEM MENU

| ELATION LIMELIGHT PAR S |                  |   |   |                                 |
|-------------------------|------------------|---|---|---------------------------------|
| CONTROL<br>(continued)  | Reset Zoom       | Yes / <b>No</b>   |   | Reset zoom position             |
|                         | Self Test        | All   |   | Run the selected self test      |
|                         |                  | Dimmer  |   |                                 |
|                         |                  | Color   |   |                                 |
| Zoom                    |                  |   |   |                                 |
| SETTINGS                | Dim Modes        | <b>Standard</b>   |   | Select dim mode                 |
|                         |                  | Stage   |   |                                 |
|                         |                  | TV  |   |                                 |
|                         |                  | Architectural   |   |                                 |
|                         |                  | Theatre   |   |                                 |
|                         |                  | Stage 2   |   |                                 |
|                         |                  | Dim Speed   | 0s - 10s<br>Default = <b>0.1s</b>                                 | Set dim speed                   |
|                         | Dim Curves       | Linear  |   | Select dim curve                |
|                         |                  | Square  |   |                                 |
|                         |                  | Square Inverse  |   |                                 |
|                         |                  | <b>S-Curve</b>  |   |                                 |
|                         | LED Refresh Rate | 900Hz - 1500Hz, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz<br>Default = <b>1200Hz</b> |   | Set LED refresh rate            |
|                         | LED Power Limit  | 50%   |   | Set LED power output limitation |
|                         |                  | 60%   |   |                                 |
|                         |                  | 70%   |   |                                 |
| 80%                     |                  |   |   |                                 |
| 90%                     |                  |   |   |                                 |
| <b>100%</b>             |                  |   |   |                                 |
| Fan Mode                | <b>Auto</b>      |   | Set fan mode  |                                 |
|                         | High             |   |   |                                 |
|                         | Silent           |   |   |                                 |
| Display                 | Screen Delay     | 10s - 5min<br>Default = <b>1min</b>   | Screen goes into standby mode after selected period of inactivity |                                 |
|                         | Screen Lock      | <b>Off</b> , 10s - 5min   | Screen and controls lock after selected period of inactivity      |                                 |
|                         | Rotate Display   | Yes   |   | Select display orientation      |
|                         |                  | <b>No</b>   |   |                                 |
| Auto                    |                  |   |   |                                 |
| Reset Defaults          | Yes / <b>No</b>  |   | Return unit to factory default settings                           |                                 |

# SYSTEM MENU

| ELATION LIMELIGHT PAR S               |                 |                  |                                  |  |
|---------------------------------------|-----------------|------------------|----------------------------------|--|
| <b>INFORMATION</b>                    | Time            | Current Run Time |                                  | Display current fixture run time                   |
|                                       |                 | Total Run Time   |                                  | Display total lifetime fixture run time            |
|                                       |                 | Last Run Time    |                                  | Display fixture run times since last reset         |
|                                       | Temperature     | Current          |                                  | Current fixture temperature                        |
|                                       |                 | Max Resettable   |                                  | Max recorded fixture temperature since last reset  |
|                                       | DMX Values      | Red              |                                  | Display current DMX value of selected parameter    |
|                                       |                 | Green            |                                  |  |
|                                       |                 | ...              |                                  |  |
|                                       | Product IDs     | RDM UID          |                                  | Display RDM UID                                    |
|                                       | Error Logs      | Fixture Errors   |                                  | Display recorded fixture errors one by one         |
| Software Version                      | Vx.x            |                  | Display current software version |  |
| <b>SERVICE<br/>Passcode =<br/>050</b> | Aria Activation | <b>On / Off</b>  |                                  | Activate or deactivate Aria                        |
|                                       | Calibration     | Red              | 000 - 255                        | Calibrate each parameter                           |
|                                       |                 | Green            | 000 - 255                        |  |
|                                       |                 | Blue             | 000 - 255                        |  |
|                                       |                 | Lime             | 000 - 255                        |  |
|                                       |                 | Zoom             | 000 - 255                        |  |
|                                       | Reset Last Run  | Yes / No         |                                  | Reset Last Run Time and Max Resettable Temperature |
| Reset Error Logs                      | Yes / No        |                  | Clear Error Logs                 |  |

# FAN MODES

The Limelight Par S is a high-performance fixture suited for multiple applications. For noise critical environments such as Theater, Opera, or Orchestral Halls, it offers various fan operation modes which remove unwanted noise distractions for the audience and performers. Fan Modes can be changed remotely via the DMX control channel, allowing the fixture to offer high output or whisper-silent operation at a moment's notice. All Fan Modes smoothly transition over a brief 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. They will turn off if possible; for example, when the fixture is dimmed to a low intensity. Fans sense the ambient and fixture temperature and will, at all times, try to keep noise levels at a minimum. The fixture output will only be reduced when the LED engine cannot be cooled to its safe operating range due to a high ambient temperature.

**NOTE: This mode is recommended for daily operation.**

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

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

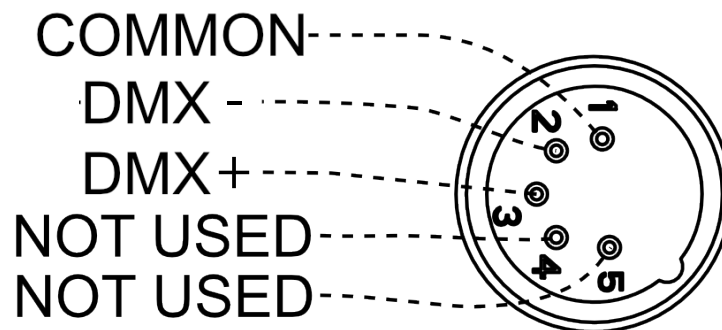
## DMX SET UP

**DMX-512:** DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).

**DMX Linking:** DMX is a language allowing all makes and models of different manufacturers to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, try to use the shortest cable path possible when linking several DMX fixtures. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example, a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line: at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

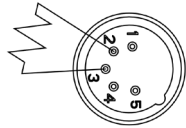
**Data Cable (DMX Cable) Requirements (For DMX Operation):** This unit can be controlled via DMX-512 protocol. The DMX address is set on the rear panel of the unit. Your unit and your DMX controller require a standard 5-pin XLR connector for data input and data output. We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male XLR connector at one end and a female XLR connector at the other. Also remember that DMX cable must be daisy chained and cannot be split.

**Notice:** Be sure to follow the illustration below when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.



# DMX SET UP

**Special Note: Line Termination.** When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will reduce the risk of erratic behavior.



A DMX512 terminator reduces signal errors, avoiding most signal reflection interference. Connect PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture in series with a 120 Ohm, 1/4 W Resistor to terminate the DMX512.

## DMX ADDRESSING.

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to “listen” to the digital control signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture. Setting all fixtures to the same DMX address will cause all fixtures to react in the same way. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to “listen” to the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

For example, when this unit is operating in 4 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 5 (1 + 4), the third unit to 9 (1 + 4 + 4), and so on. See the chart below for more details.

| CHANNEL MODE                           | UNIT 1 ADDRESS | UNIT 2 ADDRESS | UNIT 3 ADDRESS | UNIT 4 ADDRESS |
|--|----------------|----------------|----------------|----------------|
| 4Ch                                    | 1              | 5              | 9              | 13             |
| 12Ch                                   | 1              | 13             | 25             | 37             |
| 15Ch                                   | 1              | 16             | 31             | 46             |
| 13Ch                                   | 1              | 14             | 27             | 40             |
| 17Ch<br>(Extended &<br>Standard Zones) | 1              | 18             | 35             | 52             |
| 25Ch                                   | 1              | 26             | 51             | 76             |

# DMX TRAITS

| RGB 4Ch | CMY 12Ch | CMY Ext 15Ch | Std 13Ch | Ext 17Ch | Std Zones 17Ch | Ext Zones 25Ch | DMX Values | Function                                  | Snap | Def Value |
|---------|----------|--------------|----------|----------|----------------|----------------|------------|---|------|-----------|
|         | 1        | 1            | 1        | 1        | 1              | 1              | 0 - 255    | <b>Dimmer</b><br>Intensity 0 → 100%       |      | 0         |
|         | 2        | 2            | 2        | 2        | 2              | 2              | 0 - 255    | <b>Dimmer Fine</b><br>Fine Adjustment     |      | 0         |
|         | 3        | 3            | 3        | 3        | 3              | 3              | 0 - 31     | <b>Shutter / Strobe</b><br>Shutter closed |      | 50        |
|         |          |              |          |          |                |                | 32 - 63    | No function (shutter open)                |      |           |
|         |          |              |          |          |                |                | 64 - 95    | Strobe effect, slow to fast               |      |           |
|         |          |              |          |          |                |                | 96 - 127   | No function (shutter open)                |      |           |
|         |          |              |          |          |                |                | 128 - 159  | Pulse effect in sequences                 |      |           |
|         |          |              |          |          |                |                | 160 - 191  | No function (shutter open)                |      |           |
|         |          |              |          |          |                |                | 192 - 223  | Random strobe effect, slow to fast        |      |           |
|         |          |              |          |          |                |                | 224 - 255  | No function (shutter open)                |      |           |
| 1       |          |              | 4        | 4        | 4              | 4              | 0 - 255    | <b>Red</b><br>0 → 100%                    |      | 0         |
|         |          |              |          | 5        |                | 5              | 0 - 255    | <b>Red Fine</b><br>Fine Adjustment        |      | 0         |
| 2       |          |              | 5        | 6        | 5              | 6              | 0 - 255    | <b>Green</b><br>0 → 100%                  |      | 0         |
|         |          |              |          | 7        |                | 7              | 0 - 255    | <b>Green Fine</b><br>Fine Adjustment      |      | 0         |
| 3       |          |              | 6        | 8        | 6              | 8              | 0 - 255    | <b>Blue</b><br>0 → 100%                   |      | 0         |
|         |          |              |          | 9        |                | 9              | 0 - 255    | <b>Blue Fine</b><br>Fine Adjustment       |      | 0         |
|         |          |              | 7        | 10       | 7              | 10             | 0 - 255    | <b>Lime</b><br>0 → 100%                   |      | 0         |
|         |          |              |          | 11       |                | 11             | 0 - 255    | <b>Lime Fine</b><br>Fine Adjustment       |      | 0         |
|         |          |              |          |          | 8              | 12             | 0 - 255    | <b>Red 2</b><br>0 → 100%                  |      | 0         |
|         |          |              |          |          |                | 13             | 0 - 255    | <b>Red Fine 2</b><br>Fine Adjustment      |      | 0         |
|         |          |              |          |          | 9              | 14             | 0 - 255    | <b>Green 2</b><br>0 → 100%                |      | 0         |
|         |          |              |          |          |                | 15             | 0 - 255    | <b>Green Fine 2</b><br>Fine Adjustment    |      | 0         |
|         |          |              |          |          | 10             | 16             | 0 - 255    | <b>Blue 2</b><br>0 → 100%                 |      | 0         |
|         |          |              |          |          |                | 17             | 0 - 255    | <b>Blue Fine 2</b><br>Fine Adjustment     |      | 0         |



# DMX TRAITS

| RGB<br>4Ch | CMY<br>12Ch | CMY<br>Ext<br>15Ch | Std<br>13Ch | Ext<br>17Ch | Std<br>Zones<br>17Ch | Ext<br>Zones<br>25Ch | DMX<br>Values | Function   | Snap | Def<br>Value |
|------------|-------------|--------------------|-------------|-------------|----------------------|----------------------|---------------|--|------|--------------|
|            |             |                    |             |             | 11                   | 18                   |               | <b>Lime 2</b>  |      | 0            |
|            |             |                    |             |             |                      |                      | 0 - 255       | 0 → 100%   |      |              |
|            |             |                    |             |             |                      | 19                   |               | <b>Lime Fine 2</b>   |      | 0            |
|            |             |                    |             |             |                      |                      | 0 - 255       | Fine Adjustment  |      |              |
|            | 4           | 4                  |             |             |                      |                      |               | <b>Cyan</b>  |      | 0            |
|            |             |                    |             |             |                      |                      | 0 - 255       | 0 → 100%   |      |              |
|            |             | 5                  |             |             |                      |                      |               | <b>Cyan Fine</b>   |      | 0            |
|            |             |                    |             |             |                      |                      | 0 - 255       | Fine Adjustment  |      |              |
|            | 5           | 6                  |             |             |                      |                      |               | <b>Magenta</b>   |      | 0            |
|            |             |                    |             |             |                      |                      | 0 - 255       | 0 → 100%   |      |              |
|            |             | 7                  |             |             |                      |                      |               | <b>Magenta Fine</b>  |      | 0            |
|            |             |                    |             |             |                      |                      | 0 - 255       | Fine Adjustment  |      |              |
|            | 6           | 8                  |             |             |                      |                      |               | <b>Yellow</b>  |      | 0            |
|            |             |                    |             |             |                      |                      | 0 - 255       | 0 → 100%   |      |              |
|            |             | 9                  |             |             |                      |                      |               | <b>Yellow Fine</b>   |      | 0            |
|            |             |                    |             |             |                      |                      | 0 - 255       | Fine Adjustment  |      |              |
| 4          | 7           | 10                 | 8           | 12          | 12                   | 20                   |               | <b>Zoom</b>  |      | 0            |
|            |             |                    |             |             |                      |                      | 0 - 255       | Narrow → Wide  |      |              |
|            | 8           | 11                 | 9           | 13          | 13                   | 21                   |               | <b>Zoom Fine</b>   |      | 0            |
|            |             |                    |             |             |                      |                      | 0 - 255       | Fine Adjustment  |      |              |
|            | 9           | 12                 | 10          | 14          | 14                   | 22                   |               | <b>Variable CCT</b>  |      | 0            |
|            |             |                    |             |             |                      |                      | 0 - 23        | Open   |      |              |
|            |             |                    |             |             |                      |                      | 24 - 85       | 2400K → 8500K, see <b>Color Temperature Table</b> section    |      |              |
|            |             |                    |             |             |                      |                      | 86 - 255      | 8500K  |      |              |
|            | 10          | 13                 | 11          | 15          | 15                   | 23                   |               | <b>Color</b>   |      | 0            |
|            |             |                    |             |             |                      |                      | 0             | Open   |      |              |
|            |             |                    |             |             |                      |                      | 1 - 179       | Virtual Swatch Book, see <b>Virtual Colors Table</b> section |      |              |
|            |             |                    |             |             |                      |                      |               | <b>Color Scroll</b>  |      |              |
|            |             |                    |             |             |                      |                      | 180 - 201     | Clockwise, fast → slow                                       |      |              |
|            |             |                    |             |             |                      |                      | 202 - 207     | Stop   |      |              |
|            |             |                    |             |             |                      |                      | 208 - 229     | Counter-clockwise, slow → fast                               |      |              |
|            |             |                    |             |             |                      |                      | 230 - 234     | Open   |      |              |
|            |             |                    |             |             |                      |                      |               | <b>Random Slots</b>  |      |              |
|            |             |                    |             |             |                      |                      | 235 - 239     | Fast   |      |              |
|            |             |                    |             |             |                      |                      | 240 - 244     | Medium   |      |              |
|            |             |                    |             |             |                      |                      | 245 - 249     | Slow   |      |              |
|            |             |                    |             |             |                      |                      | 250 - 255     | Open   |      |              |

# DMX TRAITS

| RGB<br>4Ch | CMY<br>12Ch | CMY<br>Ext<br>15Ch | Std<br>13Ch | Ext<br>17Ch | Std<br>Zones<br>17Ch | Ext<br>Zones<br>25Ch | DMX<br>Values | Function                   | Snap | Def<br>Value |
|------------|-------------|--------------------|-------------|-------------|----------------------|----------------------|---------------|----------------------------|------|--------------|
|            |             |                    |             |             |                      |                      |               | <b>Dim Modes</b>           |      |              |
|            |             |                    |             |             |                      |                      | 0 - 20        | Standard                   |      |              |
|            |             |                    |             |             |                      |                      | 21 - 40       | Stage                      |      |              |
|            |             |                    |             |             |                      |                      | 41 - 60       | TV                         |      |              |
|            |             |                    |             |             |                      |                      | 61 - 80       | Architectural              |      |              |
|            |             |                    |             |             |                      |                      | 81 - 100      | Theatre                    |      |              |
|            |             |                    |             |             |                      |                      | 101 - 120     | Stage 2                    |      |              |
|            |             |                    |             |             |                      |                      |               | <b>Dimmer Delay Time</b>   |      |              |
|            |             |                    |             |             |                      |                      | 121           | 0s                         |      |              |
|            |             |                    |             |             |                      |                      | 122           | 0.1s                       |      |              |
|            |             |                    |             |             |                      |                      | 123           | 0.2s                       |      |              |
|            |             |                    |             |             |                      |                      | 124           | 0.3s                       |      |              |
|            |             |                    |             |             |                      |                      | 125           | 0.4s                       |      |              |
|            |             |                    |             |             |                      |                      | 126           | 0.5s                       |      |              |
|            | 11          | 14                 | 12          | 16          | 16                   | 24                   | 127           | 0.6s                       | X    | 0            |
|            |             |                    |             |             |                      |                      | 128           | 0.7s                       |      |              |
|            |             |                    |             |             |                      |                      | 129           | 0.8s                       |      |              |
|            |             |                    |             |             |                      |                      | 130           | 0.9s                       |      |              |
|            |             |                    |             |             |                      |                      | 131           | 1.0s                       |      |              |
|            |             |                    |             |             |                      |                      | 132           | 1.5s                       |      |              |
|            |             |                    |             |             |                      |                      | 133           | 2.0s                       |      |              |
|            |             |                    |             |             |                      |                      | 134           | 3.0s                       |      |              |
|            |             |                    |             |             |                      |                      | 135           | 4.0s                       |      |              |
|            |             |                    |             |             |                      |                      | 136           | 5.0s                       |      |              |
|            |             |                    |             |             |                      |                      | 137           | 6.0s                       |      |              |
|            |             |                    |             |             |                      |                      | 138           | 7.0s                       |      |              |
|            |             |                    |             |             |                      |                      | 139           | 8.0s                       |      |              |
|            |             |                    |             |             |                      |                      | 140           | 9.0s                       |      |              |
|            |             |                    |             |             |                      |                      | 141           | 10s                        |      |              |
|            |             |                    |             |             |                      |                      | 142 - 255     | Idle                       |      |              |
|            |             |                    |             |             |                      |                      |               | <b>Control</b>             |      |              |
|            |             |                    |             |             |                      |                      | 0 - 19        | Idle                       |      |              |
|            |             |                    |             |             |                      |                      | 20 - 29       | Fan Mode: Auto (Default)   |      |              |
|            |             |                    |             |             |                      |                      | 30 - 39       | Fan Mode: Silent           |      |              |
|            |             |                    |             |             |                      |                      | 40 - 49       | Fan Mode: High             | X    | 0            |
|            | 12          | 15                 | 13          | 17          | 17                   | 25                   | 50 - 59       | Reset Zoom                 |      |              |
|            |             |                    |             |             |                      |                      | 60 - 69       | Zoom Speed: Fast (Default) |      |              |
|            |             |                    |             |             |                      |                      | 70 - 79       | Zoom Speed: Smooth         |      |              |
|            |             |                    |             |             |                      |                      | 80 - 99       | Idle                       |      |              |
|            |             |                    |             |             |                      |                      |               |                            |      |              |

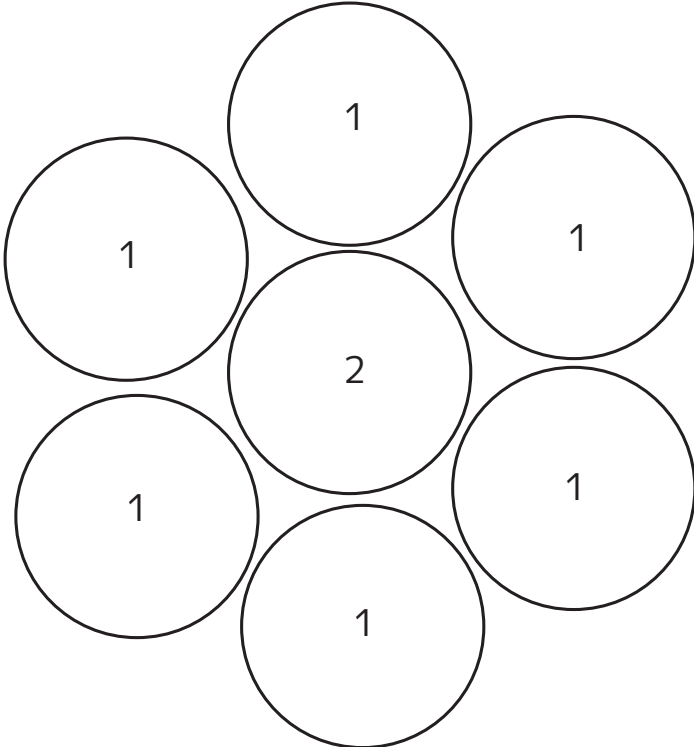
# DMX TRAITS

| RGB<br>4Ch | CMY<br>12Ch | CMY<br>Ext<br>15Ch | Std<br>13Ch | Ext<br>17Ch | Std<br>Zones<br>17Ch | Ext<br>Zones<br>25Ch | DMX<br>Values | Function                 | Snap | Def<br>Value |
|------------|-------------|--------------------|-------------|-------------|----------------------|----------------------|---------------|--------------------------|------|--------------|
|            |             |                    |             |             |                      |                      |               | <b>Refresh Rate (Hz)</b> |      |              |
|            |             |                    |             |             |                      |                      | 100           | 900                      |      |              |
|            |             |                    |             |             |                      |                      | 101           | 910                      |      |              |
|            |             |                    |             |             |                      |                      | 102           | 920                      |      |              |
|            |             |                    |             |             |                      |                      | 103           | 930                      |      |              |
|            |             |                    |             |             |                      |                      | 104           | 940                      |      |              |
|            |             |                    |             |             |                      |                      | 105           | 950                      |      |              |
|            |             |                    |             |             |                      |                      | 106           | 960                      |      |              |
|            |             |                    |             |             |                      |                      | 107           | 970                      |      |              |
|            |             |                    |             |             |                      |                      | 108           | 980                      |      |              |
|            |             |                    |             |             |                      |                      | 109           | 990                      |      |              |
|            |             |                    |             |             |                      |                      | 110           | 1000                     |      |              |
|            |             |                    |             |             |                      |                      | 111           | 1010                     |      |              |
|            |             |                    |             |             |                      |                      | 112           | 1020                     |      |              |
|            |             |                    |             |             |                      |                      | 113           | 1030                     |      |              |
|            |             |                    |             |             |                      |                      | 114           | 1040                     |      |              |
|            |             |                    |             |             |                      |                      | 115           | 1050                     |      |              |
|            |             |                    |             |             |                      |                      | 116           | 1060                     |      |              |
|            |             |                    |             |             |                      |                      | 117           | 1070                     |      |              |
|            |             |                    |             |             |                      |                      | 118           | 1080                     |      |              |
|            |             |                    |             |             |                      |                      | 119           | 1090                     |      |              |
|            | 12          | 15                 | 13          | 17          | 17                   | 25                   | 120           | 1100                     | X    | 0            |
|            |             |                    |             |             |                      |                      | 121           | 1110                     |      |              |
|            |             |                    |             |             |                      |                      | 122           | 1120                     |      |              |
|            |             |                    |             |             |                      |                      | 123           | 1130                     |      |              |
|            |             |                    |             |             |                      |                      | 124           | 1140                     |      |              |
|            |             |                    |             |             |                      |                      | 125           | 1150                     |      |              |
|            |             |                    |             |             |                      |                      | 126           | 1160                     |      |              |
|            |             |                    |             |             |                      |                      | 127           | 1170                     |      |              |
|            |             |                    |             |             |                      |                      | 128           | 1180                     |      |              |
|            |             |                    |             |             |                      |                      | 129           | 1190                     |      |              |
|            |             |                    |             |             |                      |                      | 130           | 1200                     |      |              |
|            |             |                    |             |             |                      |                      | 131           | 1210                     |      |              |
|            |             |                    |             |             |                      |                      | 132           | 1220                     |      |              |
|            |             |                    |             |             |                      |                      | 133           | 1230                     |      |              |
|            |             |                    |             |             |                      |                      | 134           | 1240                     |      |              |
|            |             |                    |             |             |                      |                      | 135           | 1250                     |      |              |
|            |             |                    |             |             |                      |                      | 136           | 1260                     |      |              |
|            |             |                    |             |             |                      |                      | 137           | 1270                     |      |              |
|            |             |                    |             |             |                      |                      | 138           | 1280                     |      |              |
|            |             |                    |             |             |                      |                      | 139           | 1290                     |      |              |
|            |             |                    |             |             |                      |                      | 140           | 1300                     |      |              |
|            |             |                    |             |             |                      |                      | 141           | 1310                     |      |              |

# DMX TRAITS

| RGB<br>4Ch | CMY<br>12Ch | CMY<br>Ext<br>15Ch | Std<br>13Ch | Ext<br>17Ch | Std<br>Zones<br>17Ch | Ext<br>Zones<br>25Ch | DMX<br>Values | Function                             | Snap | Def<br>Value |
|------------|-------------|--------------------|-------------|-------------|----------------------|----------------------|---------------|--------------------------------------|------|--------------|
|            |             |                    |             |             |                      |                      |               | <b>Refresh Rate (Hz) (continued)</b> |      |              |
|            |             |                    |             |             |                      |                      | 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                                 |      |              |
|            | 12          | 15                 | 13          | 17          | 17                   | 25                   | 158           | 1480                                 | X    | 0            |
|            |             |                    |             |             |                      |                      | 159           | 1490                                 |      |              |
|            |             |                    |             |             |                      |                      | 160           | 1500                                 |      |              |
|            |             |                    |             |             |                      |                      | 161           | 2500                                 |      |              |
|            |             |                    |             |             |                      |                      | 162           | 4000                                 |      |              |
|            |             |                    |             |             |                      |                      | 163           | 5000                                 |      |              |
|            |             |                    |             |             |                      |                      | 164           | 6000                                 |      |              |
|            |             |                    |             |             |                      |                      | 165           | 10000                                |      |              |
|            |             |                    |             |             |                      |                      | 166           | 15000                                |      |              |
|            |             |                    |             |             |                      |                      | 167           | 20000                                |      |              |
|            |             |                    |             |             |                      |                      | 168           | 25000                                |      |              |
|            |             |                    |             |             |                      |                      | 169 - 200     | No function                          |      |              |
|            |             |                    |             |             |                      |                      |               | <b>Dimmer Curves</b>                 |      |              |
|            |             |                    |             |             |                      |                      | 201 - 210     | Linear (Default)                     |      |              |
|            |             |                    |             |             |                      |                      | 211 - 220     | Square                               |      |              |
|            |             |                    |             |             |                      |                      | 221 - 230     | Inverse Square                       |      |              |
|            |             |                    |             |             |                      |                      | 231 - 240     | S-Curve                              |      |              |
|            |             |                    |             |             |                      |                      | 241 - 255     | Idle                                 |      |              |

# PIXEL GROUPING



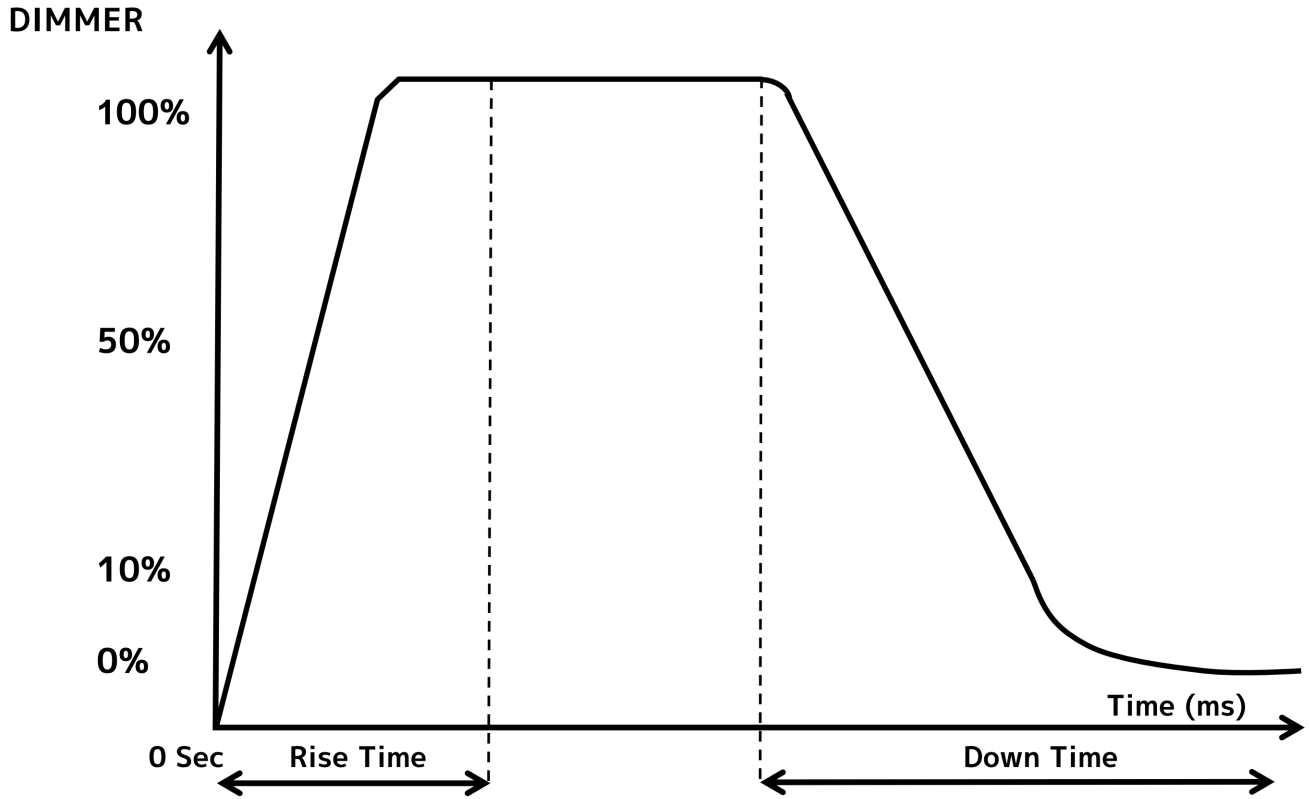
# VIRTUAL COLOR TABLE

| Value | Filter Number | Name              | Value  | Filter Number | Name              |
|-------|---------------|-------------------|--------|---------------|-------------------|
| 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           | Millenium 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             |        |               |                   |

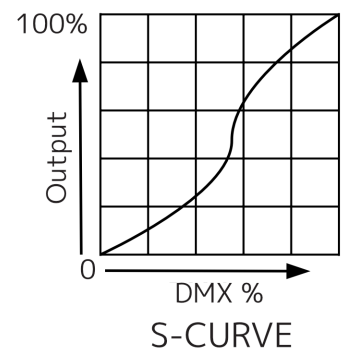
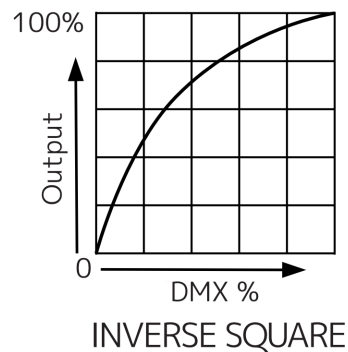
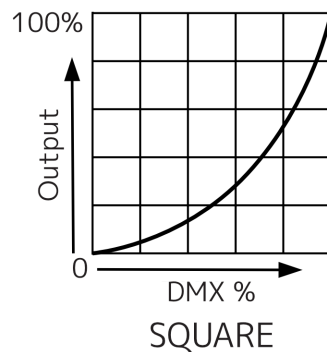
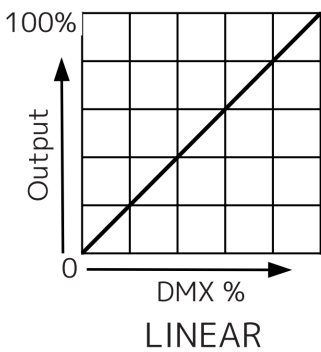
# COLOR TEMPERATURE TABLE

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

# DIMMER MODES & CURVES



| Dimming Curve<br>Ramp Effect | 0 sec Fade Time |                | 1 sec Fade Time |                |
|------------------------------|-----------------|----------------|-----------------|----------------|
|                              | Rise Time (ms)  | Down Time (ms) | Rise Time (ms)  | Down Time (ms) |
| Standard (default)           | 0               | 0              | 0               | 0              |
| Stage                        | 780             | 1100           | 1540            | 1660           |
| TV                           | 1180            | 1520           | 1860            | 1940           |
| Architectural                | 1380            | 1730           | 2040            | 2120           |
| Theatre                      | 1580            | 1940           | 2230            | 2280           |
| Stage 2                      | 0               | 1100           | 0               | 1660           |





# PRIMARY-SECONDARY SET UP

This function allows you to link units together to run in a Primary-Secondary set-up, in which one unit will act as the controlling unit and the others will react to the controlling unit's built-in programs. Any unit can be configured to act as a Primary or as a Secondary, but only one unit in a given system can be programmed to act as the Primary.

## Primary-Secondary Connections and Settings:

1. Daisy chain your units via the XLR connectors on the bottom of each unit. Use standard XLR data cables to link your units together. Remember that the male XLR connector is the input and the female XLR connector is the output. The first unit in the chain (primary) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.
2. On the unit that you want to designate as the primary, use the display screen and control panel to navigate to **Control > Primary**, then press the ENTER button to confirm. Configure the operation of the device as desired.
3. On the units that you want to designate as secondaries, use the display screen and control panel to navigate to **Control > Secondary**, then press the ENTER button to confirm. The secondary units will now follow the operation of the primary unit.

## NOTES:

- Only one unit should be configured as the primary, while all the other units should be configured as secondaries.
- 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.

## MULTI UNIT POWER LINKING

This feature allows you to connect the fixtures to one another using the power cable input and output sockets.

**The maximum number of units that can be linked in this manner is as follows:**

- 5 units when running on 120V power.
- 10 units when running on 230V power.

**DO NOT EXCEED THIS MAXIMUM NUMBER WHEN POWER LINKING UNITS!**

All linked units must be of the same make and model type. Do not mix and match units!

## MAINTENANCE GUIDELINES



**DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!**

### CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky, or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean the external lens surface regularly with a soft cloth to avoid dirt/debris accumulation.

**NEVER use alcohol, solvents, or ammonia-based cleaners.**

### MAINTENANCE

Regular inspections are recommended to ensure 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. A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- B. 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.
- C. 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).
- D. Electric power supply cables must not show any damage, material fatigue, or sediments.

**NEVER remove the ground prong from the power cable.**

# 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.

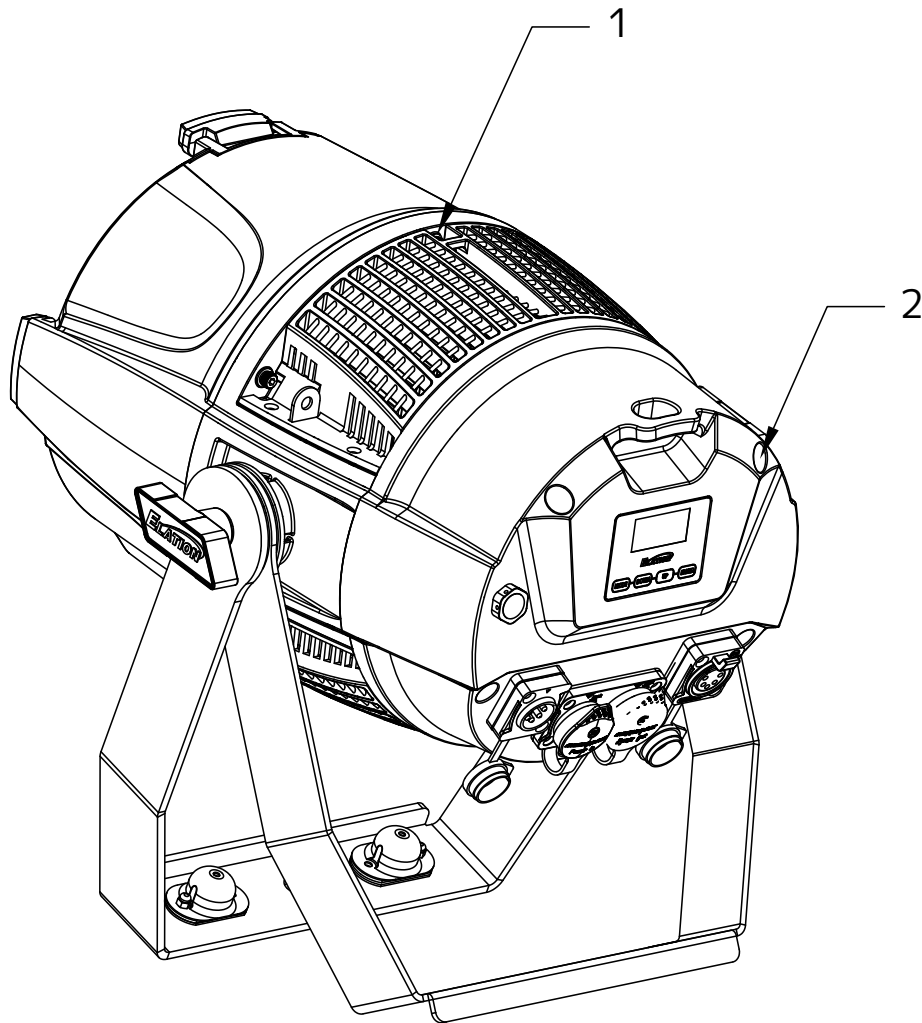
TORQUE DRIVERS (Recommended): UTICA TS-30 (shown)

ALTERNATE DRIVERS:

- Proto J6107A
- Wiha 28887



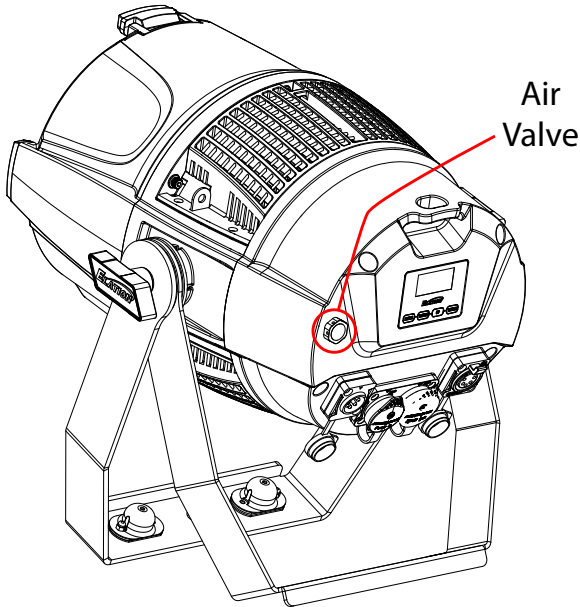
**CAUTION! DO NOT OVER TORQUE SCREWS, AS THIS CAN CAUSE LEAKAGE ISSUES!**



| NO. | LOCATION          | QUANTITY | TORQUE                              |
|-----|-------------------|----------|-------------------------------------|
| 1   | Fixed Front Cover | 6        | 11.3 ± 0.4 lb-in (13.0 ± 0.5 kg-cm) |
| 2   | Fixed Rear Cover  | 5        | 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. The air valve is located on the back panel next to the display screen, 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 CLOSE PROXIMITY TO THE FIXTURE'S LENS WHILE PERFORMING THE TEST!**

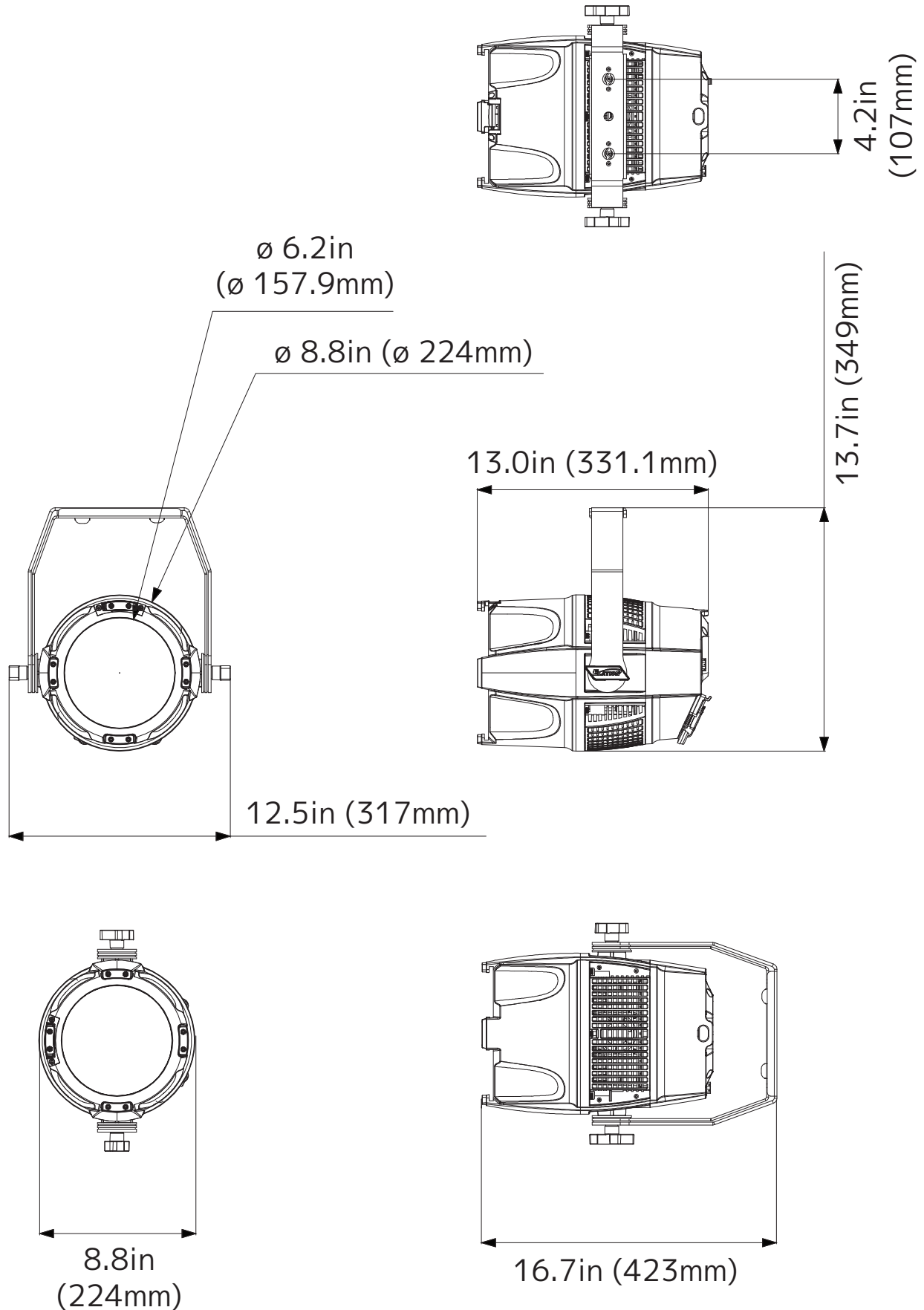
**DE-HUMIDIFICATION:** IP65 fixtures operating in high-humidity environments may experience residual fogging or condensation. Such fogging will not damage the fixture, and can be removed using the following procedure: position the unit with the air valve pointing upwards, then open the air valve and 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 that this procedure should be performed in a dry, air-conditioned environment. Avoid additional fogging by drying the fixture completely before placing into a road case.



| IP PRESSURE TESTING PARAMETERS |                       |                |                  |                |                       |
|--------------------------------|-----------------------|----------------|------------------|----------------|-----------------------|
| Low Pressure Limit             | High Pressure Limit   | Inflation Time | Equilibrium Time | Detection Time | Max Leakage           |
| 2.901 psi<br>(20.0 KPa)        | 3.336 psi<br>(23 KPa) | 30 sec         | 15 sec           | 15 sec         | 0.014 psi<br>(100 Pa) |

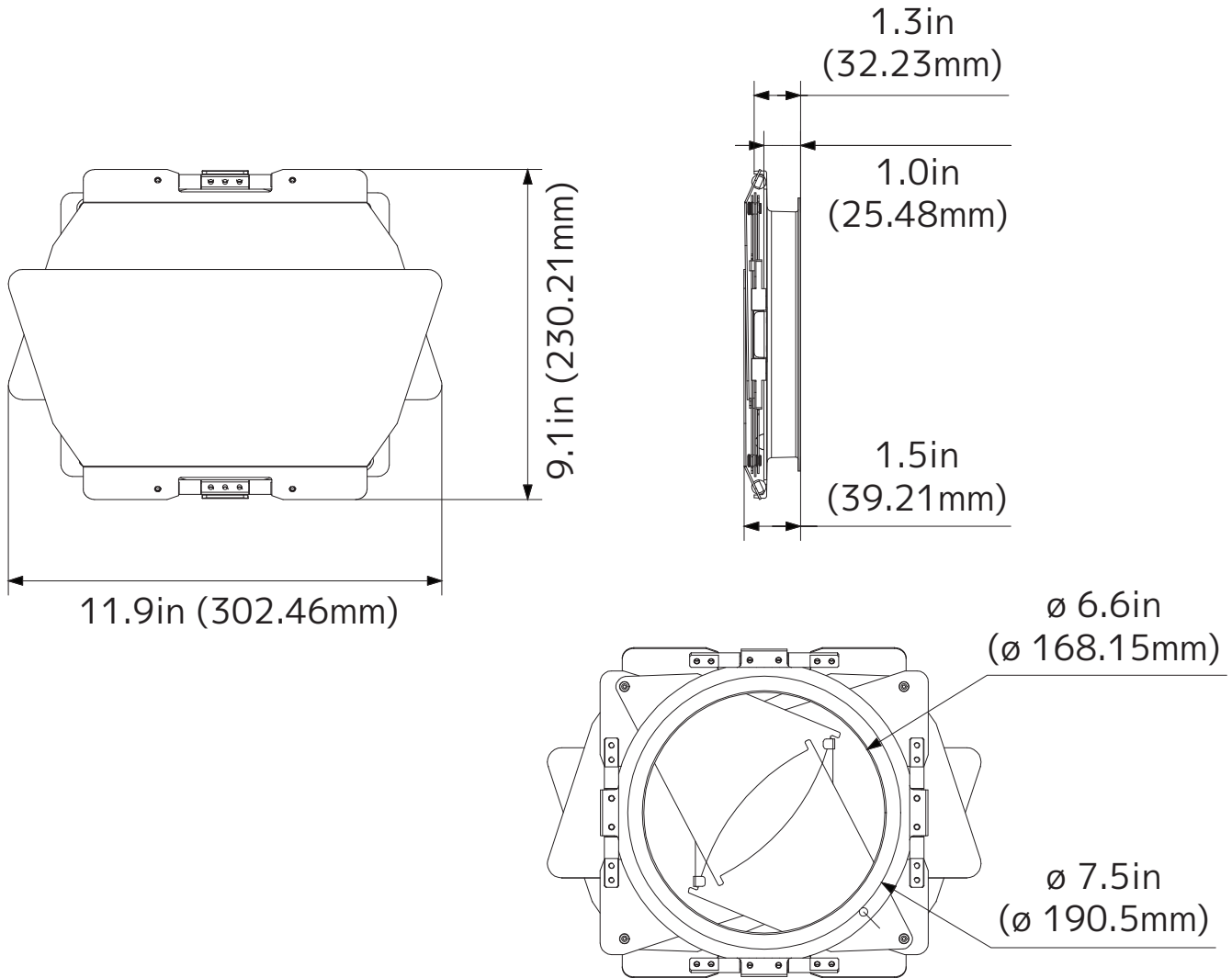
# DIMENSIONAL DRAWINGS

## FIXTURE

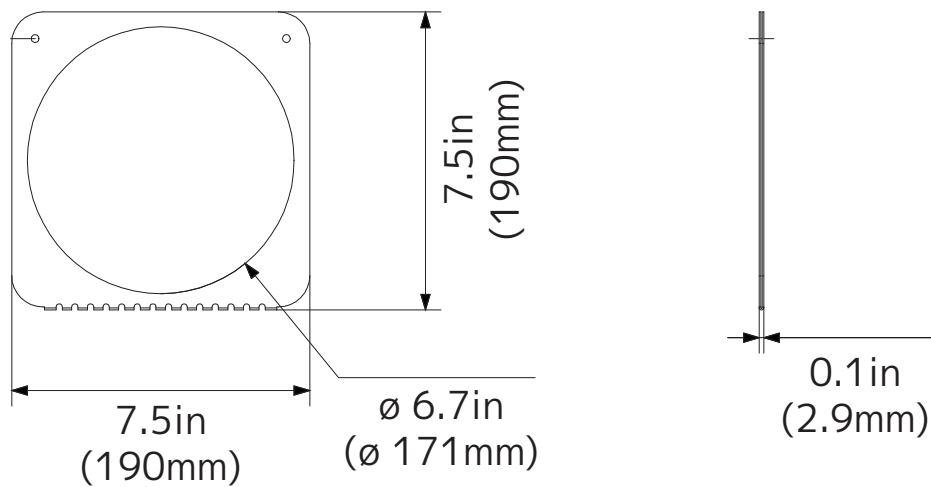


# DIMENSIONAL DRAWINGS

## BARNDOOR



## GEL FRAME



# SPECIFICATIONS

## SOURCE

(7) 60W RGBL LEDs

30,000 Hour Average LED Life\*

\*May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control and Dimming.

## PHOTOMETRIC DATA

Total Lumen Output

- 5,345 (Integrating Sphere)
- 4,844 (Goniometer)
- CRI 82.8
- TLCI 74

Zoom Range 5° - 42°

Beam Angle: 5° - 42°

Field Angle: 8° - 60°

## EFFECTS

Dual Zone LED Control

Electronic Dimmer and Strobe

Variable 16-bit Dimming Modes and Curves

## COLOR

RGBL Color Array

CMY Emulation

Variable CCT 2400K - 8500K

Virtual Gel Swatch Book

## CONTROL / CONNECTIONS

7 DMX Channel Modes (4ch/12ch/15ch/13ch /17ch/17ch/25ch)

Manual and DMX Controlled Dimmer and Color

4 Button Control Panel, LED Display

Aria x2 Wireless Device Management

RDM (Remote Device Management)

5pin DMX and IP65 Locking Power Cable In/Out

## SIZE / WEIGHT

Length: 12.5" (317mm)

Width: 8.8" (224mm)

Vertical Height: 16.7" (423mm)

Weight: 20.1lbs. (9.1kg)

## ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz

332W Max Power Consumption

Power Thru Capacity: @110V: 5 Units;

@240V: 10 Units

5°F to 113°F (-15°C to 45°C)

1132.8 BTU/hr (+/- 10%)

## INCLUDED ITEMS

IP65 Locking Power Cable

Safety Cable

## OPTIONAL ITEMS

7.5" Gel Frame

7.5" Black Barndoor

# 8050000053 - Omega Bracket

## APPROVALS / RATINGS

CE | cETLus(pend) | UL | IP65c | FCC | UKCA



# ORDERING INFORMATION

| SKU (US)   | SKU (EU)   | ITEM DESCRIPTION        |
|------------|------------|-------------------------|
| LLP301     | 1237000277 | Elation Limelight Par S |
| KLP959     | 1236100143 | KL Par 7.5" Barndoor    |
| PENDING    | PENDING    | 7.5" Gel Frame          |
| 8050000053 | PENDING    | Omega Bracket           |

# ERROR CODES

| Error Codes subject to change without notice |                   |
|--|-------------------|
| ERROR CODES                                  | DESCRIPTION       |
| FAN  | Cooling Fan Error |
| TEMP   | Temperature Error |
| ZOOM   | Zoom Motor Error  |

## 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.

Europe Energy Saving Notice

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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