

ELATION®



FRESNEL 6 FC

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.eu for the latest revision/update of this manual, before installation and/or programming.

| Date | Document Version | Software Version | DMX Channel Mode | Notes |
|----------|------------------|------------------|------------------------------|---|
| 04/04/22 | 1.0 | 1.0.1A | 1 / 6 / 11 / 18 / 9 / 14 ch. | Initial Release |
| 09/21/22 | 1.1 | N/C | N/C | Update Dim. Drawings. |
| 11/09/22 | 1.2 | N/C | N/C | Updated specifications |
| 04/18/23 | 1.3 | 1.0.4A | N/C | Update Software/RDM functionality |
| 05/03/24 | 1.4 | N/C | N/C | Updated specifications |
| 01/10/25 | 1.5 | N/C | N/C | Updated specifications |
| 04/29/26 | 1.6 | N/C | N/C | Updated: General Info, System Menu, Encoder Knobs DMX Traits; Added Fan Modes |

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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 professional use only.**

UNPACKING

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

BOX CONTENTS

Power Cable (x1)
Gel Filter (x1)
Barndoor (x1)

CUSTOMER SUPPORT

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

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

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REPLACEMENT PARTS please visit parts.elationlighting.com

LIMITED WARRANTY

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



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



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

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.

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.



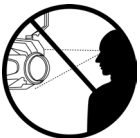
PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.



THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS 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!
NEVER OPERATE THIS UNIT WITH THE CASING REMOVED!
DISCONNECT POWER BEFORE PERFORMING MAINTENANCE!
NEVER TOUCH DURING OPERATION, AS FIXTURE SURFACES MAY BE HOT!
KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!**



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



**FOR USE IN INDOOR OR DRY LOCATIONS ONLY!
DO NOT EXPOSE TO RAIN AND/OR MOISTURE!**



THIS FIXTURE IS IP20 RATED, AND HAS BEEN DESIGNED AND TESTED TO PROTECT AGAINST THE INGRESS OF SOLIDS AS SMALL AS THE SIZE OF AN ADULT FINGER (APPROXIMATELY 12.5MM), BUT IS NOT PROTECTED AGAINST LIQUID INTRUSION OF ANY KIND.



**MINIMUM DISTANCE TO OBJECTS/SURFACES IS 1.0 FOOT (0.3 METER)
MINIMUM DISTANCE TO FLAMMABLE MATERIALS IS 1.6 FEET (0.5 METER)
MAXIMUM AMBIENT OPERATING TEMPERATURE IS 113° F (45° C)**

SAFETY GUIDELINES

DO NOT TOUCH the fixture housing during operation.

DO NOT shake fixture, and avoid brute force when installing and/or operating fixture.

DO NOT operate fixture if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged or do not fit into the fixture securely with ease.

NEVER force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of the same power rating.

DO NOT block any air ventilation slots. All fan and air inlets must remain clean and never blocked. Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.

TURN OFF the power and allow approximately 15 minutes for the fixture to cool down before servicing.

ALWAYS disconnect fixture from power before performing any service and/or cleaning procedure.

ONLY handle power cord by the plug end. Never pull plug out by tugging the wire portion of the cord.

During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the LED and will decrease gradually over time.

Consistent operational breaks will ensure fixture will function properly for many years.

ONLY use the original packaging and materials to transport the fixture for service.

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

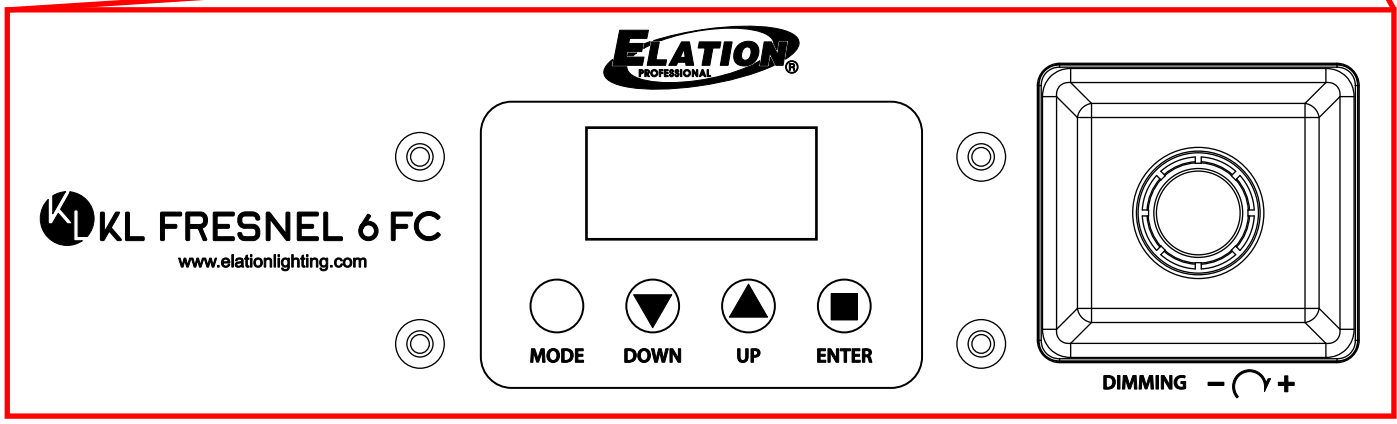
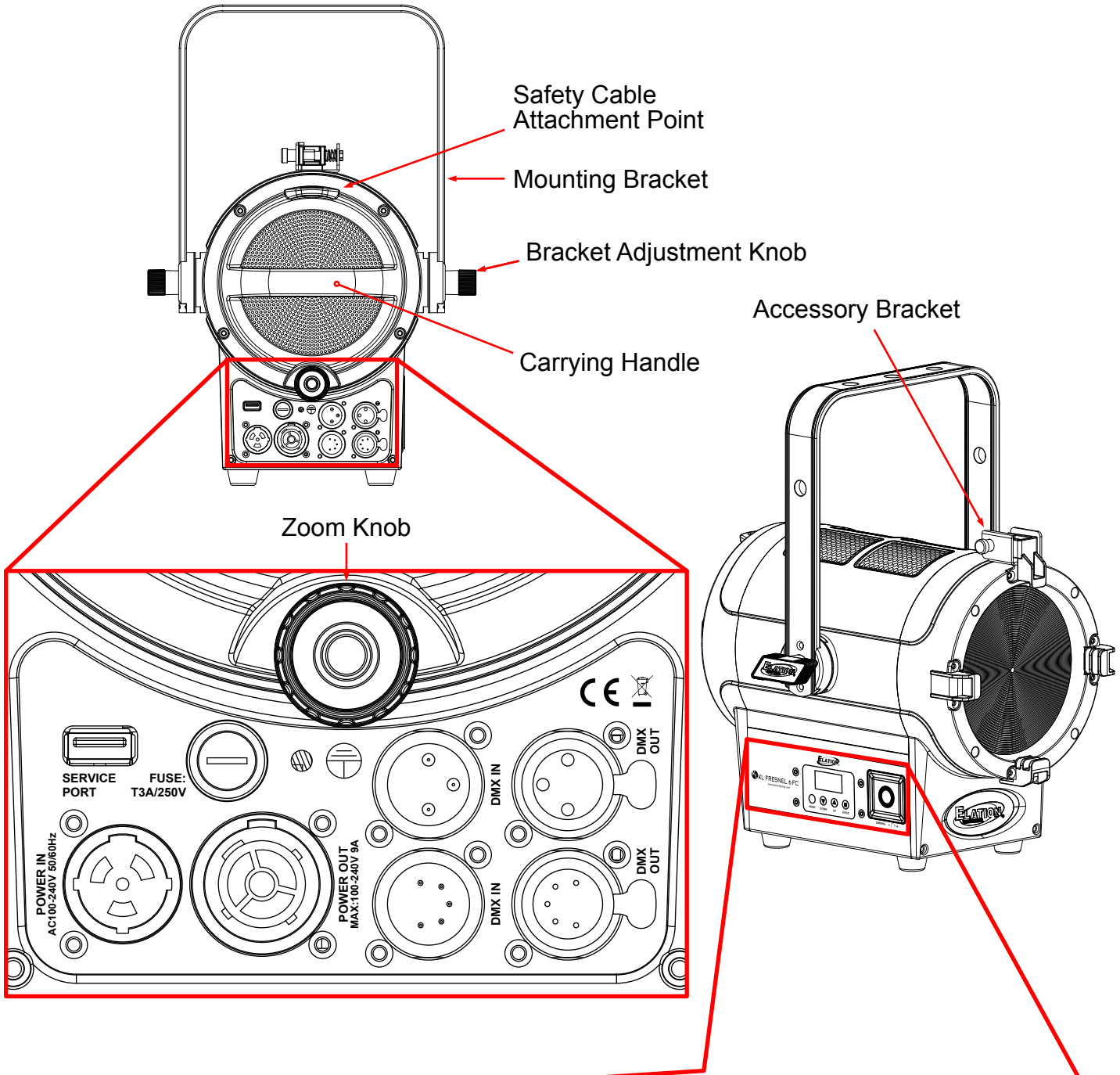
Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from an authorized Elation 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.

NEVER remove the ground prong from the power cable.

OVERVIEW



INSTALLATION INSTRUCTIONS



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 TO FLAMMABLE MATERIALS IS 1.6 FEET (0.5 METERS)

MAXIMUM AMBIENT OPERATING TEMPERATURE IS 113° F (45° C)



INDOOR USE ONLY! THIS DEVICE IS NOT INTENDED FOR OUTDOOR USAGE, OR EXPOSURE TO RAIN OR MOISTURE! USE OF THIS DEVICE OUTDOORS VOIDS YOUR MANUFACTURER'S WARRANTY!



DO NOT PERFORM THE INSTALLATION YOURSELF 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.

Maximum fixture ambient operating temperature is **113°F (45°C)**. Do not operate this fixture when ambient temperature exceeds this rating.

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

Fixture(s) should be installed in areas outside 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 serving.

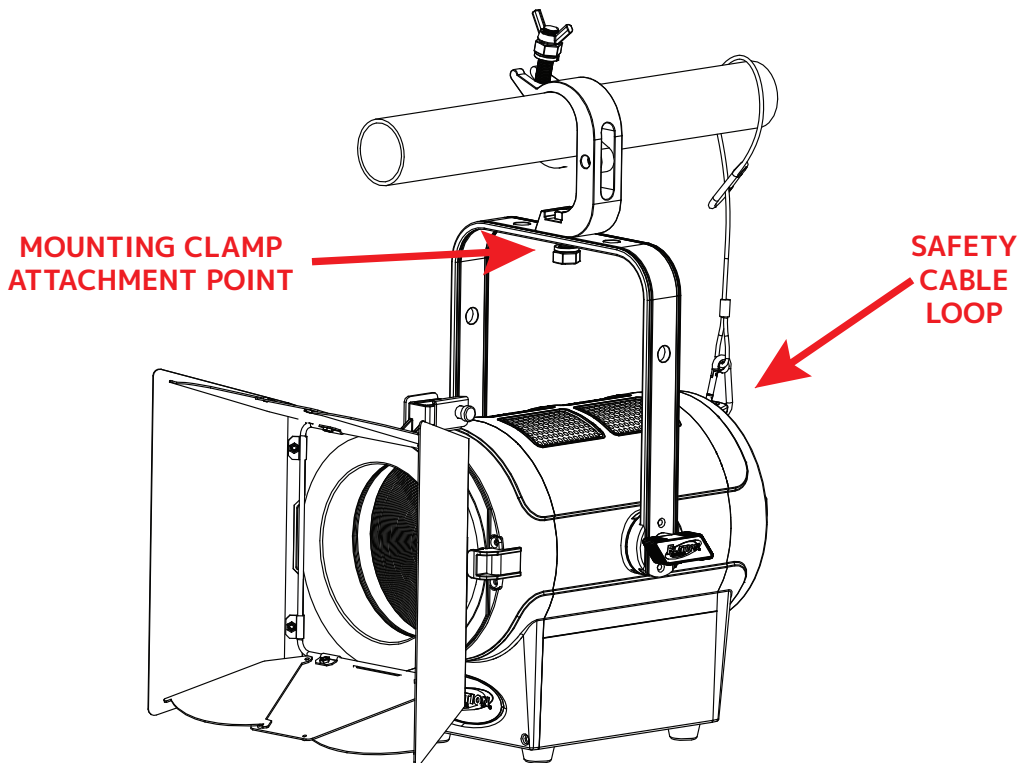
INSTALLATION INSTRUCTIONS

RIGGING

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

CLAMP INSTALLATION

The included yoke bracket features a built-in attachment point for a mounting clamp. The fixture itself also features a safety cable loop, located near the top of the rear panel, as shown in the illustration below. **Please note that the designated safety cable loop is the only safe location to attach a safety cable! Never attach a safety cable to the mounting clamp bracket!**

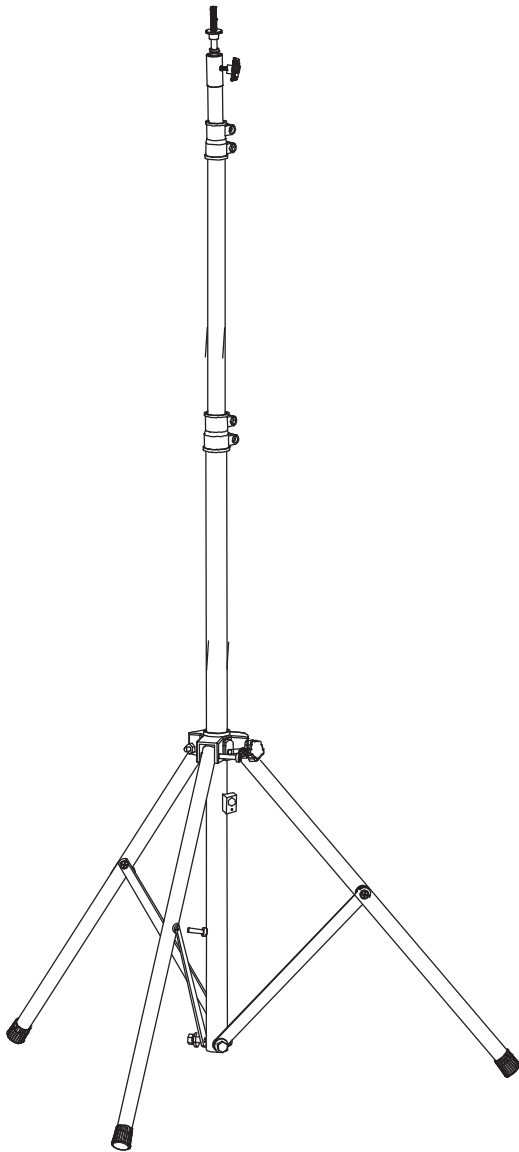
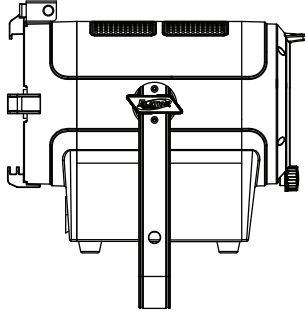


ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

INSTALLATION INSTRUCTIONS

STAND MOUNTING

This unit can also be installed atop a tripod stand. Simply insert the threaded bolt on the top of the tripod stand through the hole in the top of the mounting yoke. Tighten the nut onto the threaded bolt to secure the mounted device in place.



CAUTION!

MAKE SURE THAT THE TRIPOD LEGS AND ALL TELESCOPING ELEMENTS OF THE TRIPOD STAND ARE LOCKED IN PLACE BEFORE INSTALLING THE DEVICE ATOP THE STAND!

**POSITION THE TRIPOD STAND AND MOUNTED DEVICE ONLY ON FLAT, STABLE SURFACES!
DEPLOY TRIPOD LEGS FULLY IN ORDER TO MAXIMIZE STABILITY!**

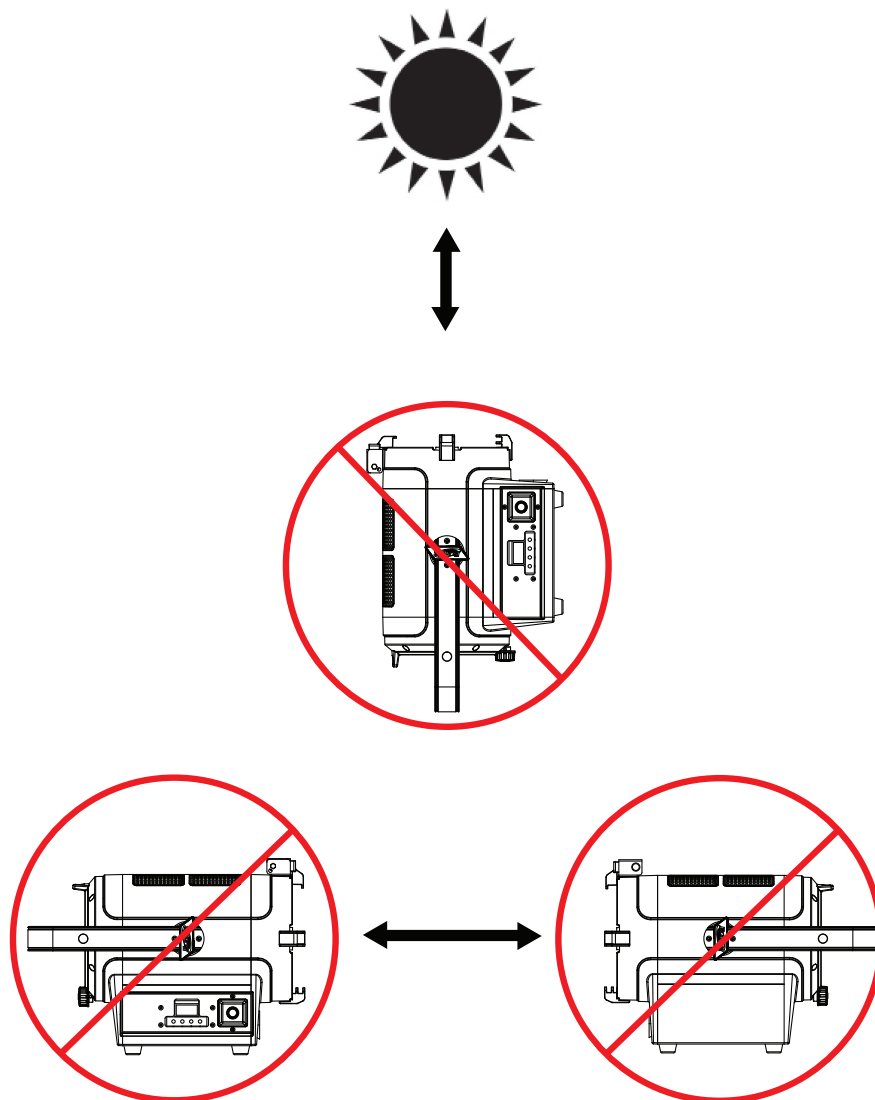
INSTALLATION INSTRUCTIONS

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

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

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

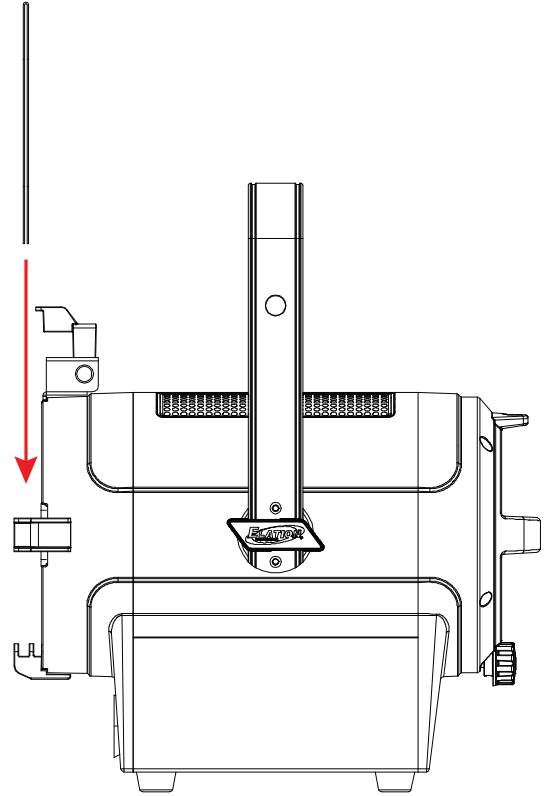
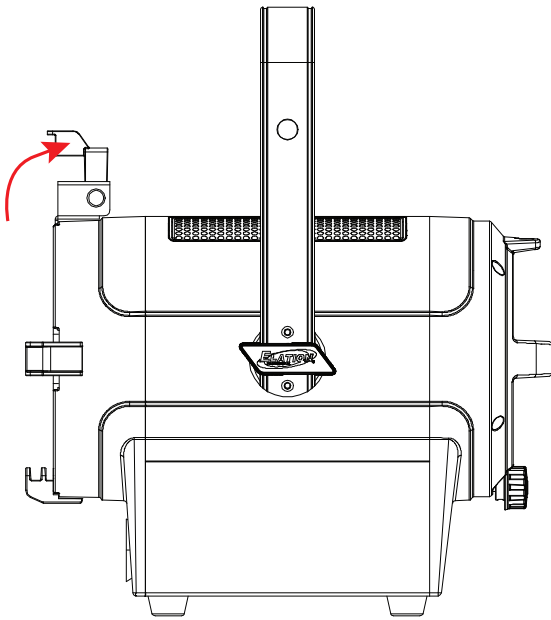
DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING OR MOVING HEAD FIXTURES, AND LASERS DURING UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.



ACCESSORY INSTALLATION

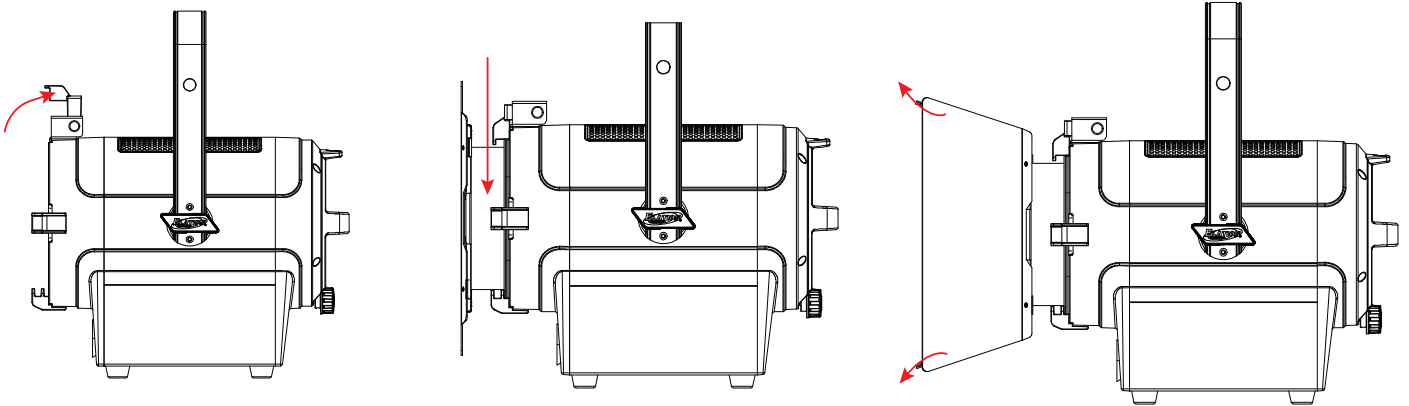
GEL FILTER

This unit includes a gel filter accessory that can be installed or removed. To install, find the lens frame latch positioned at the top of the lens, press the locking mechanism to unlock the latch, and swing the latch upwards (below left). Then simply slide the gel frame into the lens frame (below right), making sure to use the frame slot that is closest to the lens. Flip the lens frame latch back down to secure the gel frame in place.



ACCESSORY INSTALATION

This unit includes a barndoor accessory that can be installed or removed. To install, first find the lens frame latch located at the top of the lens frame. Press the locking mechanism to unlock the latch, then swing the latch upwards (below left). Slide the barndoor into an open lens frame slot (below middle). Flip the lens frame latch back down to secure the barndoor in place, then open the barndoor by pulling outward on the panels (below right).



REMOTE DEVICE MANAGEMENT (RDM)

NOTE: In order for RDM to work properly, RDM enabled equipment must be used throughout the entire system, including DMX data splitters and wireless systems.

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, allowing the DMX systems of the 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.

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.

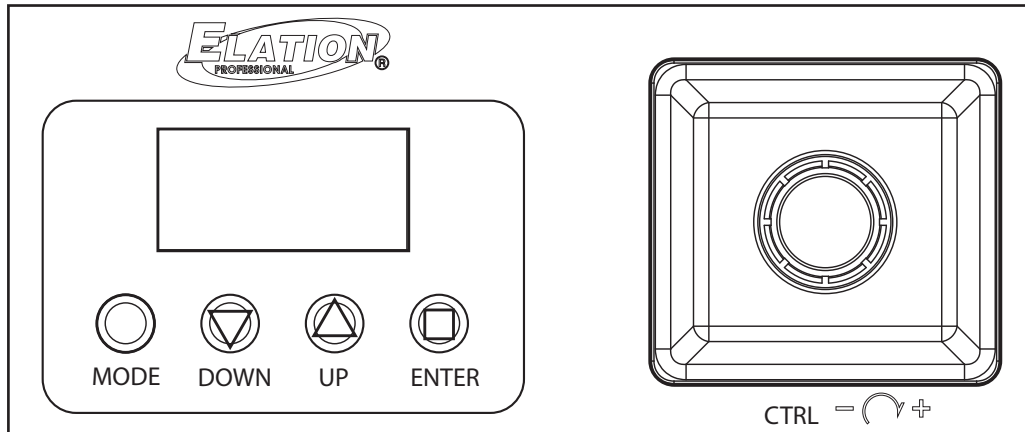
The following parameters are accessible in RDM on this device:

| |
|-----------------------------|
| Sensor Definition |
| Sensor Value |
| Device Model Description |
| Manufacturer Label |
| Device Label |
| DMX Personality |
| DMX Personality Description |
| Device Hours |
| Display Invert |
| Factory Default |

SYSTEM MENU

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

- During normal operation, pressing the MODE button once will access the fixture's main menu.
- Once in the main menu you can navigate through the different functions and access the sub-menus with the DOWN and UP buttons.
- Once you reach a field that requires adjusting, press the ENTER button to activate that field and use the DOWN and UP buttons to adjust the field.
- Pressing the ENTER button once more will confirm the setting.
- Exit the main menu at any time without making any adjustments by pressing the MODE button.



SCREEN LOCK

The screen will lock after a certain period of inactivity. The length of this time period is configurable in the System Menu, under Personality > Display > Display Screen Lock. To unlock the screen, press and hold the MODE button for 3 seconds.

WHITE BALANCE

The white balance menu can be accessed by pressing and holding the MODE, DOWN, and UP buttons simultaneously for 3 seconds. Please note that in this mode, the Color menu will be disabled, and the ColorTemp menu adjusts the color temperature white balance.

CONTROL KNOB

This device features an encoder knob located to the right of the display screen, which is labeled "CTRL." This encoder knob can be used to manually adjust dimming, CCT green shift, color saturation, or manual control. Twisting the knob will scroll through modes and sub-modes, or adjust the value of the select sub-mode, while pressing the button confirms the selection. Please see the **Encoder Knobs** section of this manual for detailed information.



A USB FLASH DRIVE CAN BE USED TO UPDATE THE FIXTURE TO THE LATEST SOFTWARE. Using a USB Flash Drive loaded with the latest software, insert it into the USB Service Port, then navigate to PERSONALITY/SERVICE, enter the passcode (050), and select UPDATE SOFTWARE. A copy of the latest software can be obtained by contacting Elation Support.

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

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323-582-3322 | support@elationlighting.com

ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
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SYSTEM MENU

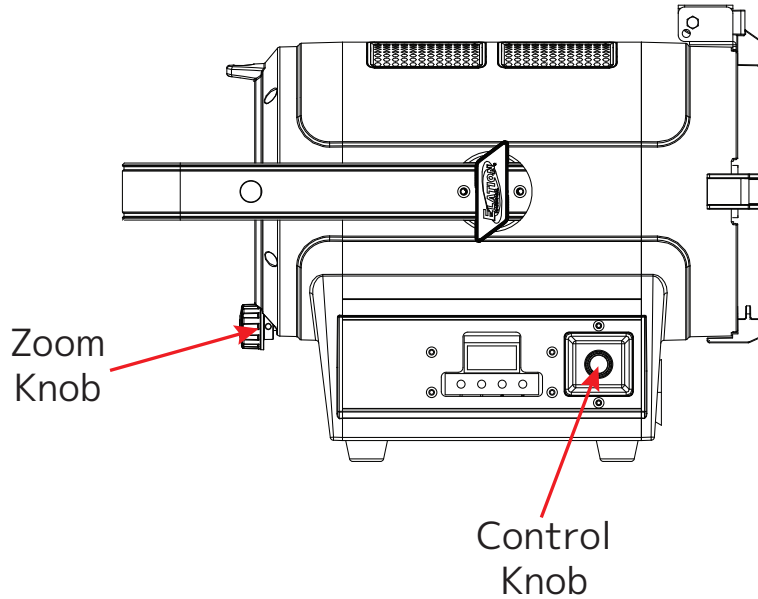
| | | | | |
|---------------|-------------------|--|---|--|
| ENCODER MODE | Disabled | | | |
| | Dimmer | | | |
| | Int CCT Grn | | | |
| | Int Color Sat | | | |
| | Manual Control | | | |
| DMX SETTINGS | DMX Address | 001 - 512 | | |
| | DMX Mode | 1ch Dimmer | | |
| | | 6ch Dimmer Color | | |
| | | 11ch Standard | | |
| | | 18ch Extended | | |
| | | 9ch CMY | | |
| | 14ch CMY Extended | | | |
| No DMX Status | Hold Last | | Defines reaction to loss or interruption of DMX signal | |
| | Fade to Black | | | |
| | Standalone | | | |
| STANDALONE | Dimmer | 0% - 100% | | |
| | CCT | 2400K - 8500K | | |
| | Green Shift | -100% - 100% | | |
| | Virtual Color | Color01 - Color53 | | |
| | | | Default = 6000K | |
| | | | Default = 0% | |
| | | | Built in color program, see Virtual Colors section of this manual | |
| PERSONALITY | Primary | On / Off | | |
| | Secondary | On / Off | | |
| | Dim Mode | Standard , Stage, TV, Architectural, Theatre, Stage 2 | | |
| | | Dim Speed | 0.0s - 10s | |
| | Dim Curves | Linear , Square, Square Inverse, S-Curve | | |
| | LED Refresh Rate | 900-1500Hz, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz | | |
| | LED Power Limit | 50%, 60%, 70%, 80%, 90%, 100% | | |
| | Fan Mode | Auto , Silent, High, Mute | | |
| | Display | Screen Delay | 10s - 5min | |
| | | Screen Lock | Off , 10s - 5min | |
| | | | Yes | |
| | | No | | |
| | Rotate Display | Auto | | |
| | | | Screen returns to home page after a period of inactivity; default = 1min | |
| | | | Screen automatically rotates to keep display oriented upright | |

SYSTEM MENU

| | | | | | |
|--------------------|-------------------------------------|-----------------|-----------------|-----------------|---------------------------------|
| PERSONALITY | Service | Passcode = 050 | Calibration | Red 50-255 | |
| | | | | Green 50-255 | |
| | | | | Blue 50-255 | |
| | | | | ... | |
| | | | Update Software | Yes / No | |
| Factory Restore | Yes / No | | | | |
| | | | Edit RDM UID | xxxxxx | |
| INFORMATION | Life Time | xxxxxx h | | | Total run hours. Not resettable |
| | Last Run Time | xxxxxx h | | | Run hours since last reset |
| | Time Reset | Passcode = 038 | | | Reset run hours |
| | Temperature | Current | | | Current temp reading |
| | | Max Resettable | | | Max temp since last reset |
| | | Reset | Passcode = 038 | | Reset max temp |
| | DMX Values | R: xxx | | | |
| | | G: xxx | | | |
| | | B: xxx | | | |
| | | ... | | | |
| Product IDs | RDM UID | xxxxxx | | | |
| Error Logs | Fixture Errors (display one by one) | | | | |
| | Reset Error Log | No / Yes | Passcode = 050 | | |
| Software Version | Vx.x.x | | | | |

ENCODER KNOBS

This device features two encoder knobs that enable quick, convenient adjustment of various parameters. Please note that any DMX signal will override the encoder knob inputs. The locations of the two encoder knobs are illustrated below:



ZOOM KNOB: Manually adjust the zoom of the fixture in and out.

CONTROL KNOB: Manually adjust dimming, CCT green, color saturation, or manual control as described in the table below.

| MODE | PARAMETER | DISPLAY | RESOLUTION/STEPS | DEFAULT |
|----------------|-------------------|-----------------------------|------------------|---------|
| Dimmer | Intensity | Intensity 0-100% | 1% | 0% |
| Int CCT Grn | Intensity | Intensity 0-100% | 1% | 0% |
| | Color Temperature | CCT 2400-8500K | 100K | 6000K |
| | Green Shift | GRN -100% to +100% | 1% | Neutral |
| Int Color Sat | Intensity | Intensity 0-100% | 1% | 0% |
| | Color | Virtual Color 1-53 | Single Color | - |
| | Saturation | Sat 0-100% | 1% | 100% |
| Manual Control | Intensity | Intensity 0-100% | 1% | 0% |
| | Options | [Parameter Name] 0 - 100 | Strobe | Strobe |
| | | | Red | |
| | | | Green | |
| | | | Blue | |
| | | | Mint | |
| Amber | | | | |
| Regulator | | [Value] 0-100% | 1% | 0% |

FAN MODES

This device is a high-performance fixture suited for multiple applications. For noise critical environments such as Theater, Opera or Orchestra Halls, it offers various fan operation modes which remove any distraction for the audience and performers. Fan Modes can be changed remotely via the DMX control channel, allowing the fixture to offer high output or whisper silent operation at a moment's notice. All Fan Modes smoothly transition over a brief time, preventing unwanted attraction to the fixture.

Auto (Default)—Fans only run at the speeds needed to keep the LED engine within a safe temperature range and ensures optimal performance of the fixture. If possible, they will turn-off, for example, when the fixture is dimmed to a low intensity. Fans sense the ambient and fixture temperature, and will always try to keep noise levels to a minimum. The fixture output will only reduce when the LED engine cannot be cooled down to its safe operating range due to high ambient temperature.

NOTE: Recommended for daily operation.

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

Silent—For very critical noise environments, the fixture offers two additional Low Noise Modes for silent operation. The fixture output will be reduced, however due to the extremely high luminous flux the fixture still offers outstanding performance. In Low Noise Modes all parameters of the fixture operate quieter with reduced fan speeds. Almost all fixture fans are turned off, and only run when necessary. The fixture LED power output is reduced to 50%.

Low Noise Modes

For very critical noise environments, the fixture offers two additional Low Noise Modes for silent operation. The fixture output will be reduced, yet due to the extremely high luminous flux, the fixture still offers outstanding performance. In Low Noise Modes, all parameters of the fixture operate more quietly with reduced fan speeds.

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

DMX TRAITS

| CHANNEL | | | | | | DMX VALUES | FUNCTION |
|----------|----------------|----------|-----------|---------|---------------|----------------------------|--|
| 1ch Dim. | 6ch Dim. Color | 11ch St. | 18ch Ext. | 9ch CMY | 14ch CMY Ext. | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 000 - 255 | Dimmer , 0% to 100% |
| | 2 | 2 | 2 | 2 | 0 | 000 - 255 | Dimmer Fine |
| | 3 | 3 | 3 | 3 | 3 | | Shutter, strobe |
| | | | | | | 000 - 031 | Shutter closed |
| | | | | | | 032 - 063 | No function (shutter open) |
| | | | | | | 064 - 095 | Strobe effect, slow to fast |
| | | | | | | 096 - 127 | No function (shutter open) |
| | | | | | | 128 - 159 | Pulse effect in sequences |
| | | | | | | 160 - 191 | No function (shutter open) |
| | | | | | | 192 - 223 | Random strobe effect, slow to fast |
| | | | | | 224 - 255 | No function (shutter open) | |
| | | | | 4 | 4 | 000 - 255 | Cyan , 0% to 100% |
| | | | | | 5 | 000 - 255 | Cyan Fine |
| | | | | 5 | 6 | 000 - 255 | Magenta , 0% to 100% |
| | | | | | 7 | 000 - 255 | Magenta Fine |
| | | | | 6 | 8 | 000 - 255 | Yellow , 0% to 100% |
| | | | | | 9 | 000 - 255 | Yellow Fine |
| | | 4 | 4 | | | 000 - 255 | Red , 0% to 100% |
| | | | 5 | | | 000 - 255 | Red Fine |
| | | 5 | 6 | | | 000 - 255 | Green , 0% to 100% |
| | | | 7 | | | 000 - 255 | Green Fine |
| | | 6 | 8 | | | 000 - 255 | Blue , 0% to 100% |
| | | | 9 | | | 000 - 255 | Blue Fine |
| | | 7 | 10 | | | 000 - 255 | Mint , 0% to 100% |
| | | | 11 | | | 000 - 255 | Mint Fine |
| | | 8 | 12 | | | 000 - 255 | Amber , 0% to 100% |
| | | | 13 | | | 000 - 255 | Amber Fine |
| | 4 | 9 | 14 | 7 | 10 | | CTO |
| | | | | | | 000 - 023 | Open |
| | | | | | | 024 - 085 | CTO, 2400K - 8500K (see Color Temperature section of this manual) |
| | | | | | | 086 - 255 | 8500K |

DMX TRAITS

| CHANNEL | | | | | | DMX VALUES | FUNCTION |
|----------|----------------|----------|-----------|---------|---------------|--|----------|
| 1ch Dim. | 6ch Dim. Color | 11ch St. | 18ch Ext. | 9ch CMY | 14ch CMY Ext. | | |
| 5 | 10 | 15 | 8 | 11 | | Color Wheel | |
| | | | | | 000 | Open | |
| | | | | | 001 - 179 | Virtual Swatch Book (see Virtual Colors section of this manual) | |
| | | | | | | Color Scroll | |
| | | | | | 180 - 201 | Clockwise, fast to slow | |
| | | | | | 202 - 207 | Stop | |
| | | | | | 208 - 229 | Counter-clockwise, slow to fast | |
| | | | | | 230 - 234 | Open | |
| | | | | | | Random Slots | |
| | | | | | 235 - 239 | Fast | |
| | | | | | 240 - 244 | Medium | |
| | | | | | 245 - 249 | Slow | |
| | | | | | 250 - 255 | Open | |
| 16 | | | | 12 | | Green Shift | |
| | | | | | 000 | Idle | |
| | | | | | 001 - 127 | Full Minus Green to Neutral | |
| | | | | | 128 | Neutral White | |
| | | | | | 129 - 255 | Neutral to Full Plus Green | |
| 17 | | | | 13 | | Dim Modes | |
| | | | | | 000 - 020 | Standard | |
| | | | | | 021 - 040 | Stage | |
| | | | | | 041 - 060 | TV | |
| | | | | | 061 - 080 | Architectural | |
| | | | | | 081 - 100 | Theatre | |
| | | | | | 101 - 120 | Stage 2 | |
| | | | | | | Dimmer Delay Time | |
| | | | | | 121 | 0s | |
| | | | | | 122 | 0.1s | |
| | | | | | 123 | 0.2s | |
| | | | | | 124 | 0.3s | |
| | | | | | 125 | 0.4s | |
| 126 | 0.5s | | | | | | |
| 127 | 0.6s | | | | | | |
| 128 | 0.7s | | | | | | |

DMX TRAITS

| CHANNEL | | | | | | DMX VALUES | FUNCTION | |
|----------|----------------|----------|-----------|---------|---------------|------------|--------------------------------------|---------------------|
| 1ch Dim. | 6ch Dim. Color | 11ch St. | 18ch Ext. | 9ch CMY | 14ch CMY Ext. | | | |
| | | | 17 | | 13 | | Dimmer Delay time (continued) | |
| | | | | | | | 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 |
| | | | 18 | | 14 | | Control | |
| | | | | | | | 000 - 029 | Idle |
| | | | | | | | 030 - 039 | Fan Mode Auto |
| | | | | | | | 040 - 049 | Fan Mode Mute |
| | | | | | | | 050 - 059 | Fan Mode Silent |
| | | | | | | | 060 - 069 | Fan Mode High |
| | | | | | | | 070 - 099 | Idle |
| | | | | | | | | Refresh Rate |
| | | | | | | | 100 | 900 Hz |
| | | | | | | | 101 | 910 Hz |
| | | | | | | | 102 | 920 Hz |
| | | | | | | | 103 | 930 Hz |
| | | | | | | | 104 | 940 Hz |
| | | | | | | | 105 | 950 Hz |
| | | | | | | | 106 | 960 Hz |
| | | | | | | | 107 | 970 Hz |
| | | | | | | | 108 | 980 Hz |
| | | | | | 109 | 990 Hz | | |
| | | | | | 110 | 1000 Hz | | |
| | | | | | 111 | 1010 Hz | | |

DMX TRAITS

| CHANNEL | | | | | | DMX VALUES | FUNCTION |
|----------|----------------|----------|-----------|---------|---------------|------------|----------------------------------|
| 1ch Dim. | 6ch Dim. Color | 11ch St. | 18ch Ext. | 9ch CMY | 14ch CMY Ext. | | |
| | | | | | | | Refresh Rates (continued) |
| | | | | | | 112 | 1020 Hz |
| | | | | | | 113 | 1030 Hz |
| | | | | | | 114 | 1040 Hz |
| | | | | | | 115 | 1050 Hz |
| | | | | | | 116 | 1060 Hz |
| | | | | | | 117 | 1070 Hz |
| | | | | | | 118 | 1080 Hz |
| | | | | | | 119 | 1090 Hz |
| | | | | | | 120 | 1100 Hz |
| | | | | | | 121 | 1110 Hz |
| | | | | | | 122 | 1120 Hz |
| | | | | | | 123 | 1130 Hz |
| | | | | | | 124 | 1140 Hz |
| | | | | | | 125 | 1150 Hz |
| | | | | | | 126 | 1160 Hz |
| | | | | | | 127 | 1170 Hz |
| | | | | | | 128 | 1180 Hz |
| | | | | | | 129 | 1190 Hz |
| | | | | | | 130 | 1200 Hz |
| | | | | | | 131 | 1210 Hz |
| | | | | | | 132 | 1220 Hz |
| | | | | | | 133 | 1230 Hz |
| | | | | | | 134 | 1240 Hz |
| | | | | | | 135 | 1250 Hz |
| | | | | | | 136 | 1260 Hz |
| | | | | | | 137 | 1270 Hz |
| | | | | | | 138 | 1280 Hz |
| | | | | | | 139 | 1290 Hz |
| | | | | | | 140 | 1300 Hz |
| | | | | | | 141 | 1310 Hz |
| | | | | | | 142 | 1320 Hz |
| | | | | | | 143 | 1330 Hz |
| | | | | | | 144 | 1340 Hz |

DMX TRAITS

| CHANNEL | | | | | | DMX VALUES | FUNCTION |
|----------|----------------|----------|-----------|---------|---------------|------------|----------------------------------|
| 1ch Dim. | 6ch Dim. Color | 11ch St. | 18ch Ext. | 9ch CMY | 14ch CMY Ext. | | |
| | | | | | | | Refresh Rates (continued) |
| | | | | | | 145 | 1350 Hz |
| | | | | | | 146 | 1360 Hz |
| | | | | | | 147 | 1370 Hz |
| | | | | | | 148 | 1380 Hz |
| | | | | | | 149 | 1390 Hz |
| | | | | | | 150 | 1400 Hz |
| | | | | | | 151 | 1410 Hz |
| | | | | | | 152 | 1420 Hz |
| | | | | | | 153 | 1430 Hz |
| | | | | | | 154 | 1440 Hz |
| | | | | | | 155 | 1450 Hz |
| | | | | | | 156 | 1460 Hz |
| | | | | | | 157 | 1470 Hz |
| | | | | | | 158 | 1480 Hz |
| | | | | | | 159 | 1490 Hz |
| | 6 | 11 | 18 | 9 | 14 | 160 | 1500 Hz |
| | | | | | | 161 | 2500 Hz |
| | | | | | | 162 | 4000 Hz |
| | | | | | | 163 | 5000 Hz |
| | | | | | | 164 | 6000 Hz |
| | | | | | | 165 | 10,000 Hz |
| | | | | | | 166 | 15,000 Hz |
| | | | | | | 167 | 20,000 Hz |
| | | | | | | 168 | 25,000 Hz |
| | | | | | | 169 - 200 | Idle |
| | | | | | | | Dimmer Curve |
| | | | | | | 201 - 210 | Linear |
| | | | | | | 211 - 220 | Square |
| | | | | | | 221 - 230 | Inverse Square |
| | | | | | | 231 - 240 | S-Curve |
| | | | | | | 241 - 255 | Idle |

COLOR TEMPERATURE TABLE

| DMX VALUE | COLOR TEMP (K) | DMX VALUE | COLOR TEMP (K) |
|-----------|----------------|-----------|----------------|
| 024 | 2400 | 055 | 5500 |
| 025 | 2500 | 056 | 5600 |
| 026 | 2600 | 057 | 5700 |
| 027 | 2700 | 058 | 5800 |
| 028 | 2800 | 059 | 5900 |
| 029 | 2900 | 060 | 6000 |
| 030 | 3000 | 061 | 6100 |
| 031 | 3100 | 062 | 6200 |
| 032 | 3200 | 063 | 6300 |
| 033 | 3300 | 064 | 6400 |
| 034 | 3400 | 065 | 6500 |
| 035 | 3500 | 066 | 6600 |
| 036 | 3600 | 067 | 6700 |
| 037 | 3700 | 068 | 6800 |
| 038 | 3800 | 069 | 6900 |
| 039 | 3900 | 070 | 7000 |
| 040 | 4000 | 071 | 7100 |
| 041 | 4100 | 072 | 7200 |
| 042 | 4200 | 073 | 7300 |
| 043 | 4300 | 074 | 7400 |
| 044 | 4400 | 075 | 7500 |
| 045 | 4500 | 076 | 7600 |
| 046 | 4600 | 077 | 7700 |
| 047 | 4700 | 078 | 7800 |
| 048 | 4800 | 079 | 7900 |
| 049 | 4900 | 080 | 8000 |
| 050 | 5000 | 081 | 8100 |
| 051 | 5100 | 082 | 8200 |
| 052 | 5200 | 083 | 8300 |
| 053 | 5300 | 084 | 8400 |
| 054 | 5400 | 085 | 8500 |

VIRTUAL COLORS

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

SPECIFICATIONS

SOURCE

220W 6500K RGBMA LED Engine

50,000 Hour Average LED Life*

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

PHOTOMETRIC DATA

7,200 Total Lumen Output

CRI 92.5

Zoom Range 10° - 32°

Beam Angle 9.7° - 32.2°

Field Angle 18.7° - 49.3°

EFFECTS

Manual Zoom

Electronic Dimmer and Strobe

Variable 16-bit Dimming Modes and Curves

COLOR

RGBMA Color Array

CMY Emulation

Variable CCT 2,400K - 8,500K

Green/Magenta Shift

Virtual Gel Swatch Book

CONTROL / CONNECTIONS

6 DMX Channel Modes (1 to 18 channels)

Manual and DMX Controlled Dimmer, Color and Zoom

Direct Access Encoder

4 Button Control Panel, LED Display

RDM (Remote Device Management)

3/5pin DMX and IP65 Locking Power In/Out Connection

SIZE / WEIGHT

Length: 13.5" (344mm)

Width: 10.7" (272mm)

Vertical Height: 15.6" (398mm)

Weight: 16.1 lbs. (7.3kg)

ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz

219W Max Power Consumption

Power Thru Capacity: 11A (5 units @ 110V; 12 units @ 240V)

5°F to 113°F (-15°C to 45°C)

BTU/hr (+/- 10%) 746.79

INCLUDED ITEMS

Gel Frame and Rotating 8-leaf Barn Doors

Junior Pin (1 1/8" - 28mm)

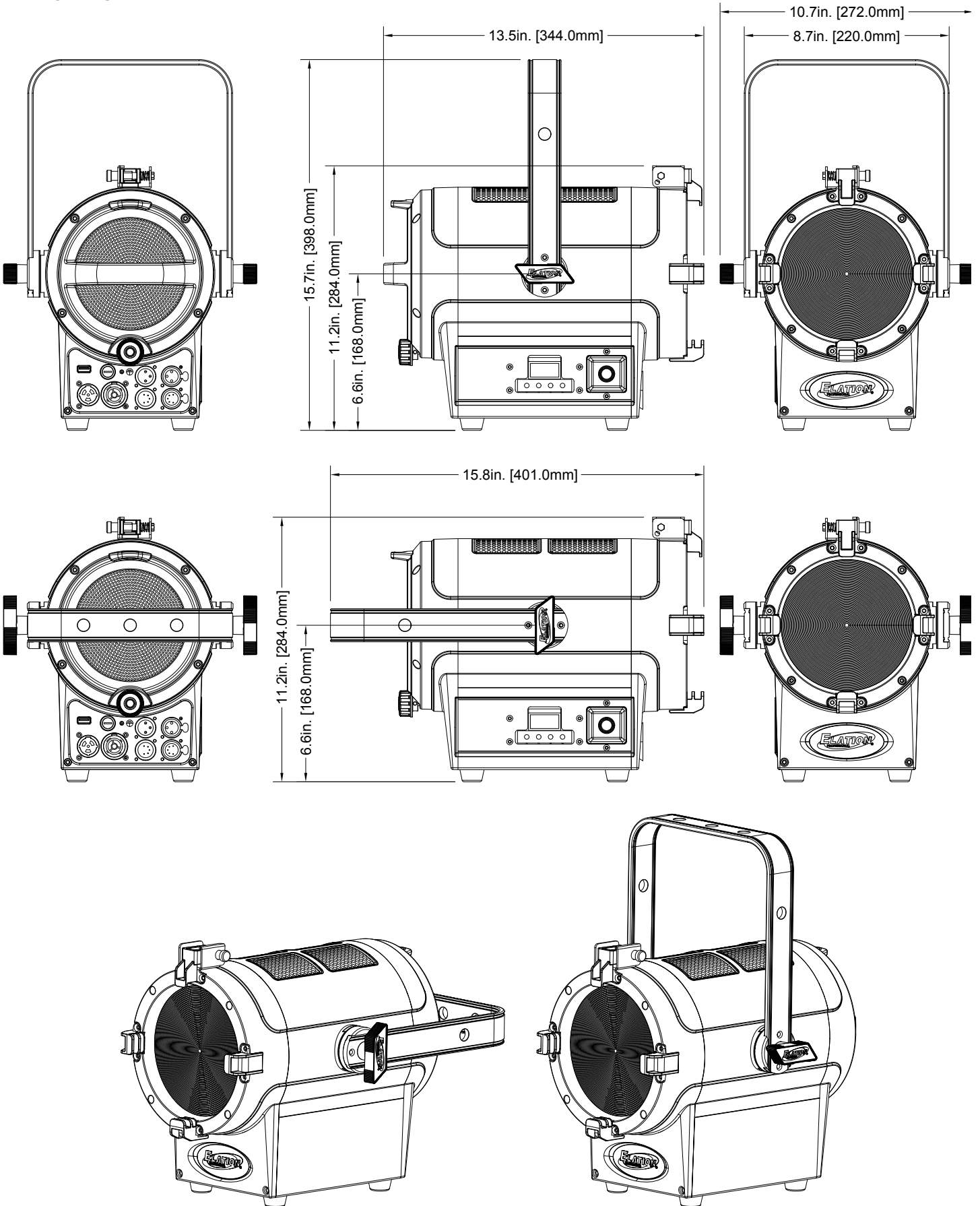
IP65 Locking Power Cable

APPROVALS / RATINGS

CE | cETLus | IP20

DIMENSIONAL DRAWINGS

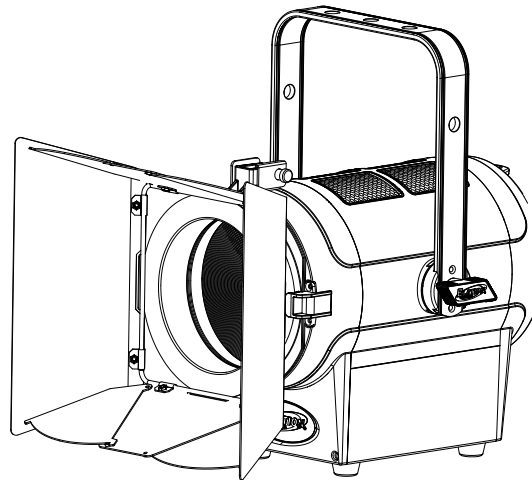
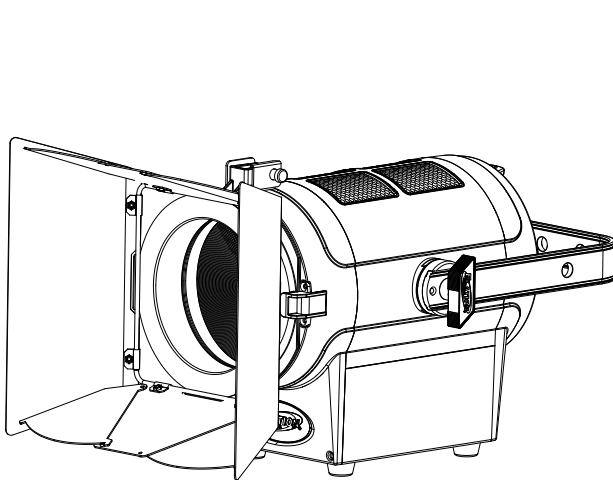
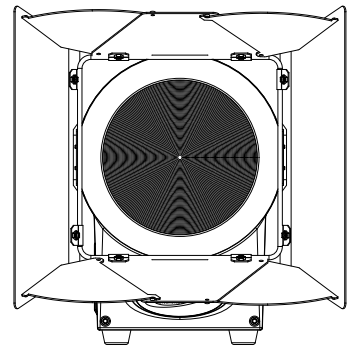
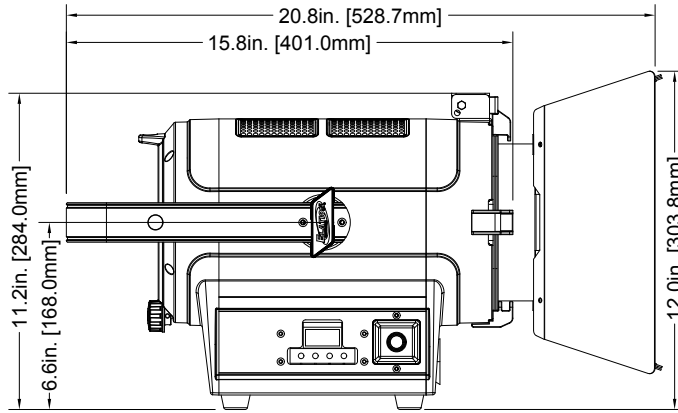
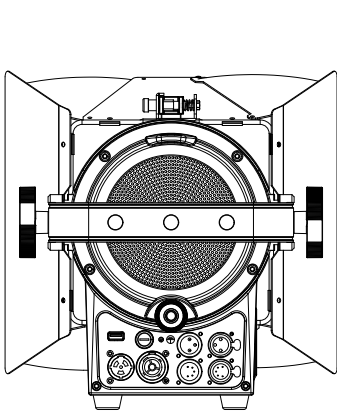
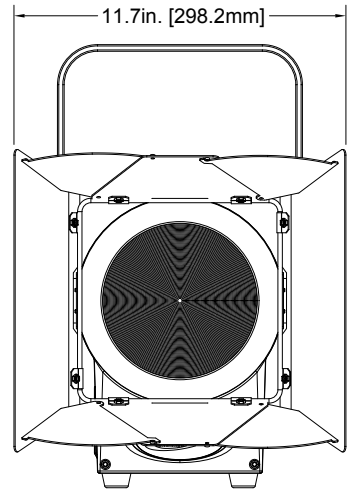
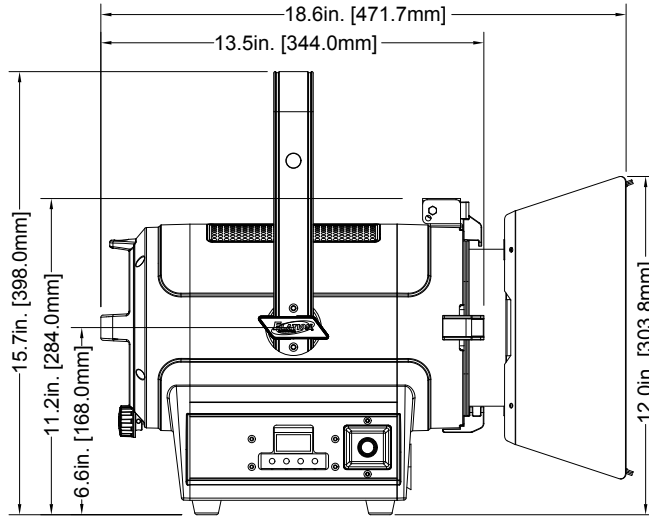
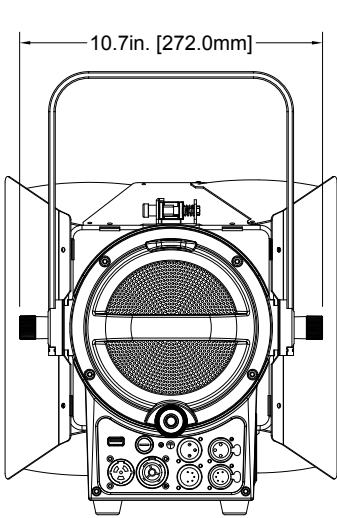
FIXTURE ONLY



Dimensions not drawn to scale.

DIMENSIONAL DRAWINGS

FIXTURE WITH BARDOORS ATTACHED



Dimensions not drawn to scale.

