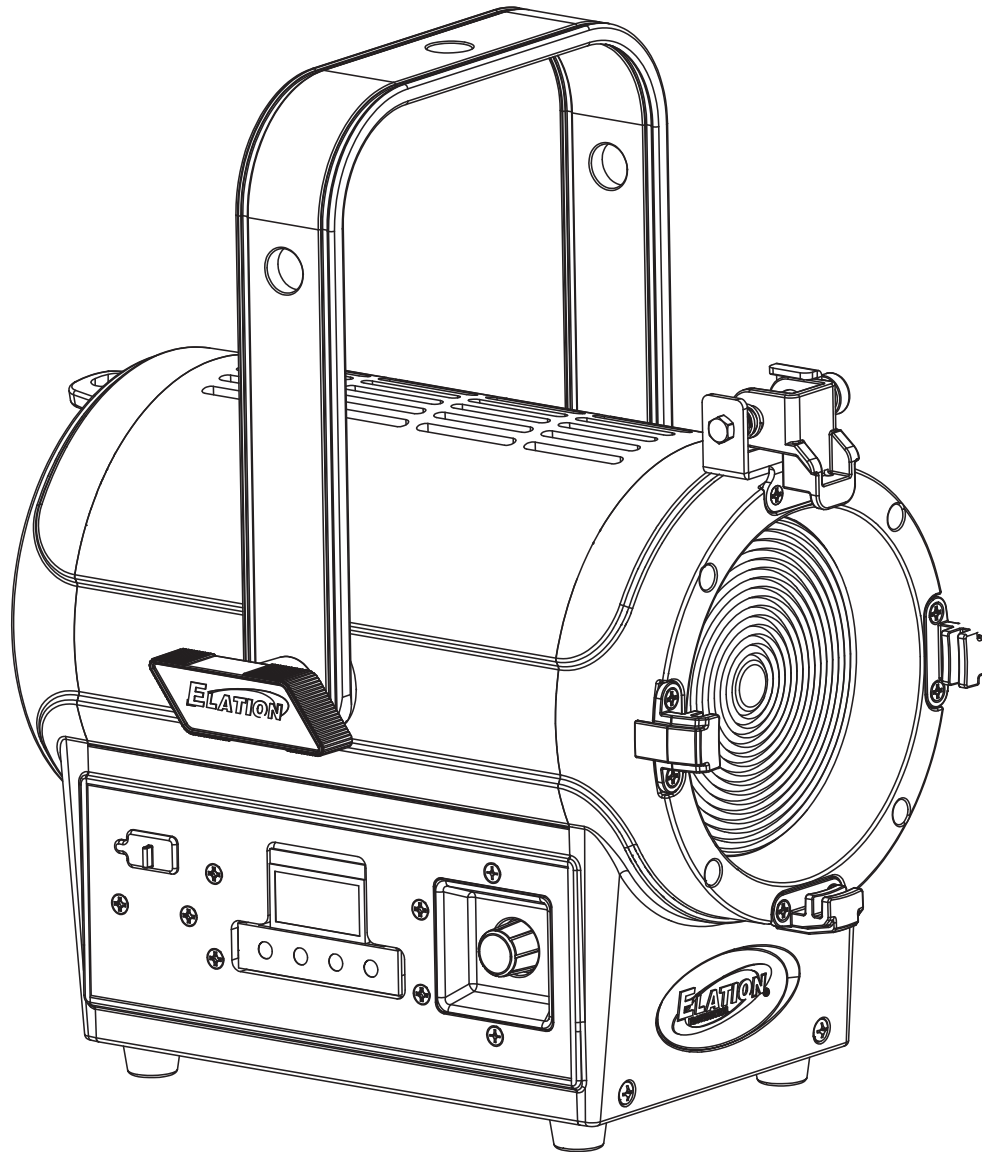


ELATION[®]



FRESNEL 4 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.com for the latest revision/update of this manual, before installation and/or programming.

| Date | Document Version | Software Version \geq | DMX Channel Modes | Notes |
|----------|------------------|-------------------------|---|-----------------|
| 06/14/24 | 1.0 | 1.01 | 1 / 2 / 6 / 11 / 18 / 19 / 9 / 14 / 15 Ch | Initial Release |
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CONTENTS

| | |
|---|-----------|
| General Information | 4 |
| Limited Warranty (USA Only) | 5 |
| Safety Guidelines | 6 |
| Maintenance Guidelines | 8 |
| Overview | 9 |
| Installation Guidelines | 10 |
| Accessory Installation | 14 |
| Remote Device Management (RDM) | 15 |
| System Menu | 16 |
| Encoder Mode | 20 |
| Fan Modes | 21 |
| DMX Setup | 22 |
| DMX Traits | 24 |
| Color Macros Table | 29 |
| Color Temperature | 30 |
| Dimmer Modes and Dim Curves | 31 |
| Software Updates | 32 |
| Specifications | 33 |
| Dimensional Drawings | 34 |
| Optional Accessories FCC Statement | 35 |

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 product is intended to be used by professionally 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

Barn Door
Gel Frame
Power Cable

CUSTOMER SUPPORT

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

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

ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
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REPLACEMENT PARTS please visit parts.elationlighting.com

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.

SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. Elation Professional is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture and only the original rigging parts (omega brackets) included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufactures 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
MANUFACTURES WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS
TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND
GUIDELINES IN THIS MANUAL VOID THE MANUFACTURES WARRANTY AND ARE
NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.**



**DO NOT PLUG FIXTURE INTO A DIMMER PACK!
NEVER OPEN THIS FIXTURE WHILE IN USE!
UNPLUG POWER BEFORE SERVICING FIXTURE!
NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!
KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!**



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

SAFETY GUIDELINES

DONOT TOUCH the fixture housing during operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before serving.

DO NOT shake fixture, 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 and do not insert 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 similar power rating.

DO NOT block any air ventilation slots.

All fan and air inlets must remain clean and never blocked.

Allow approx. 1.6 ft (0.5m) between fixture and other devices or a wall for proper cooling.

When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always install fixture with an appropriately rated safety cable.

Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging 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 lamp 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 in for service.

MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Frequent cleaning is recommended to insure 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 at least every 20 days with a soft cloth to avoid dirt/debris accumulation. **NEVER use alcohol, solvents, or ammonia-based cleaners.**

MAINTENANCE

Regular inspections are recommended to insure proper function and extended life.

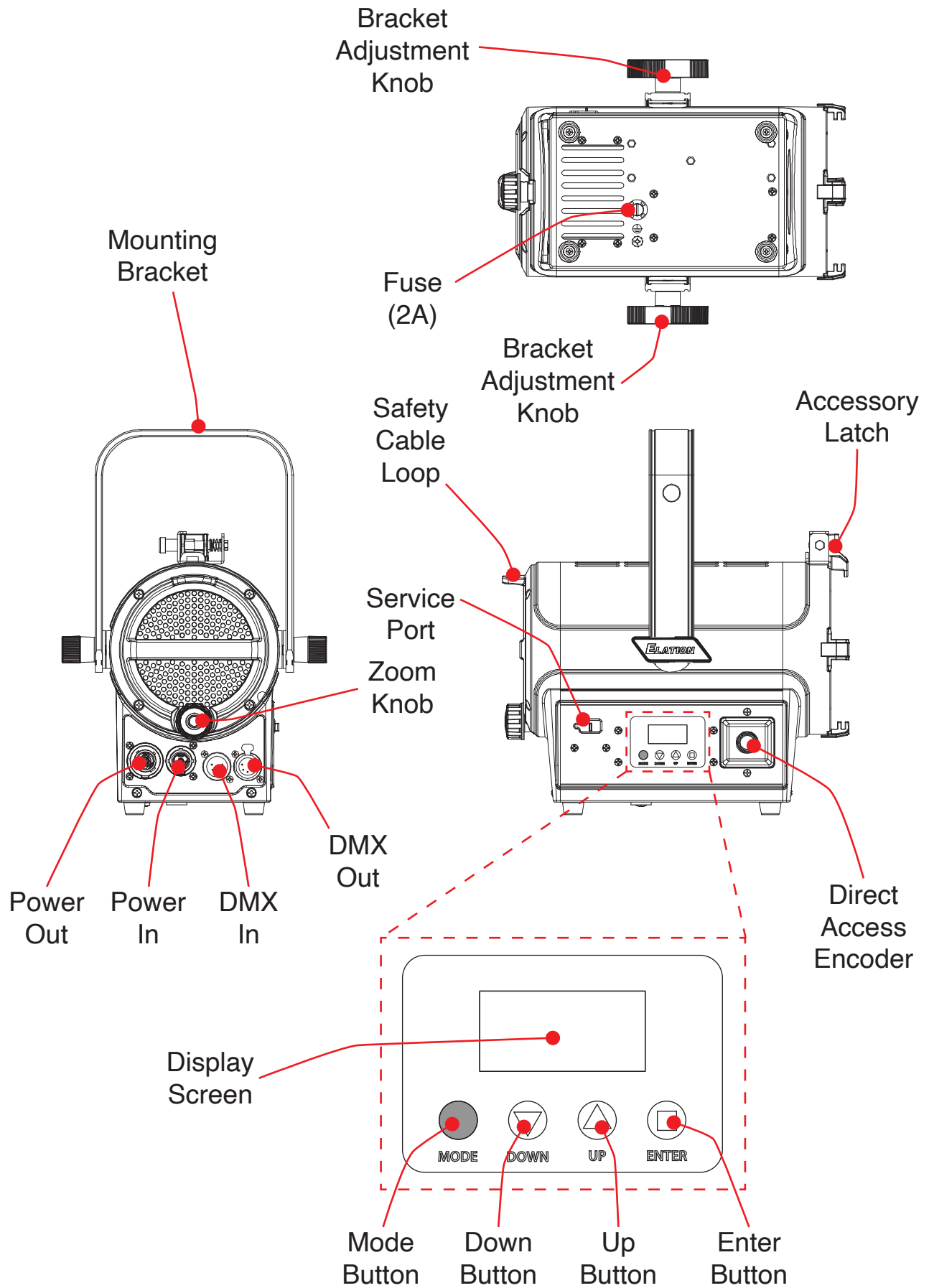
There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation dealer.

Please refer to the following points during routine inspections:

- A detailed 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 GUIDELINES



FLAMMABLE MATERIAL WARNING

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



ELECTRICAL CONNECTIONS

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



USE CAUTION WHEN POWER LINKING OTHER MODEL FIXTURES AS THE POWER CONSUMPTION OF OTHER MODEL FIXTURES MAY EXCEED THE MAX POWER OUTPUT ON THIS FIXTURE. CHECK SILK SCREEN FOR MAX AMPS.



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 interconnected fixtures for custom matrix designs 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 ambient operating temperature range is **-4° to 113°F. (-20° to 45°C)**. Do not use the fixture when ambient temperature falls outside this range.

Fixture(s) should be installed in areas outside walking paths, seating areas, or away from 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 that meets all local, national, and country codes and regulations. Allow approximately 15 minutes for the fixture to cool down before servicing.

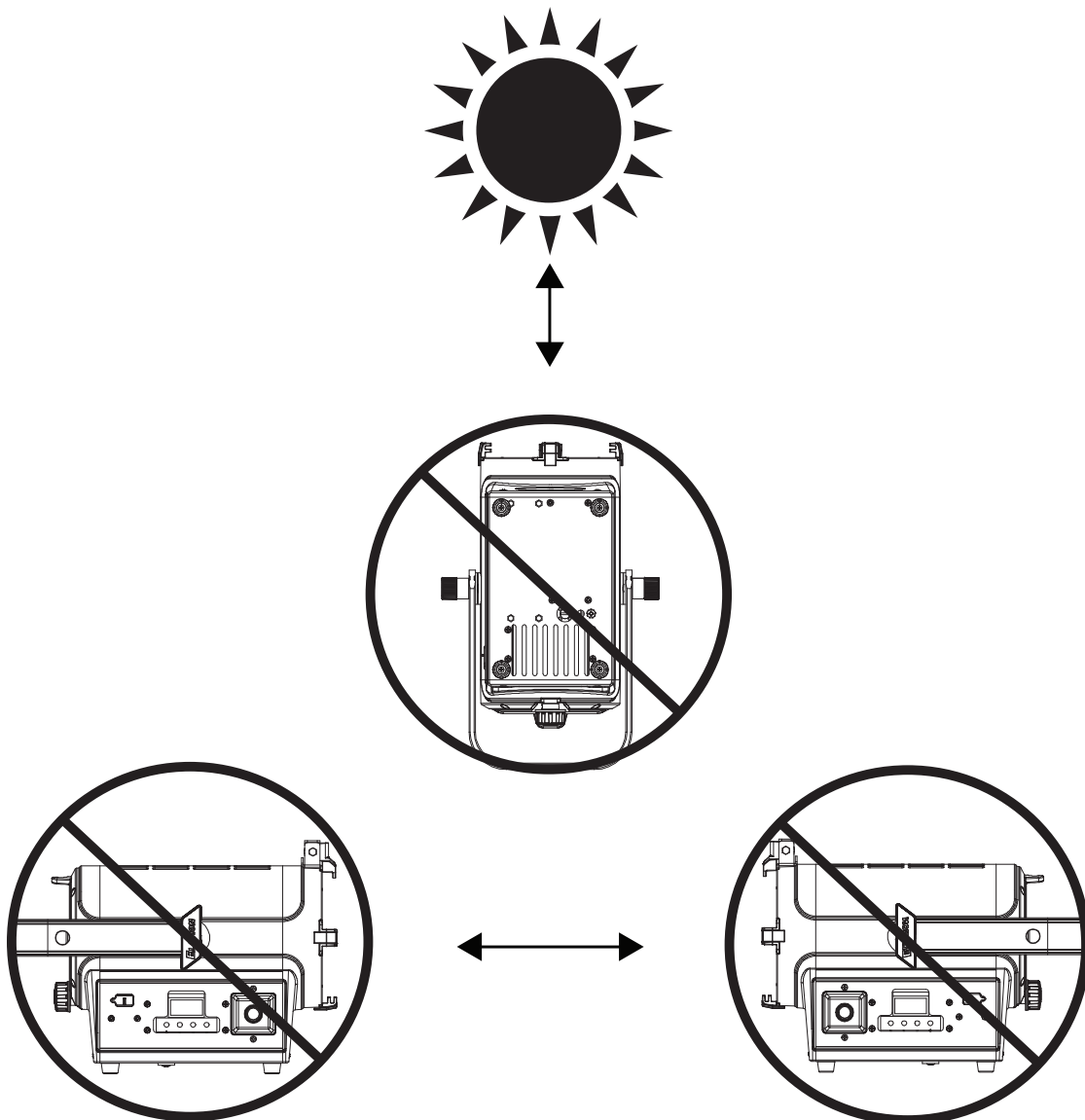
INSTALLATION GUIDELINES

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.

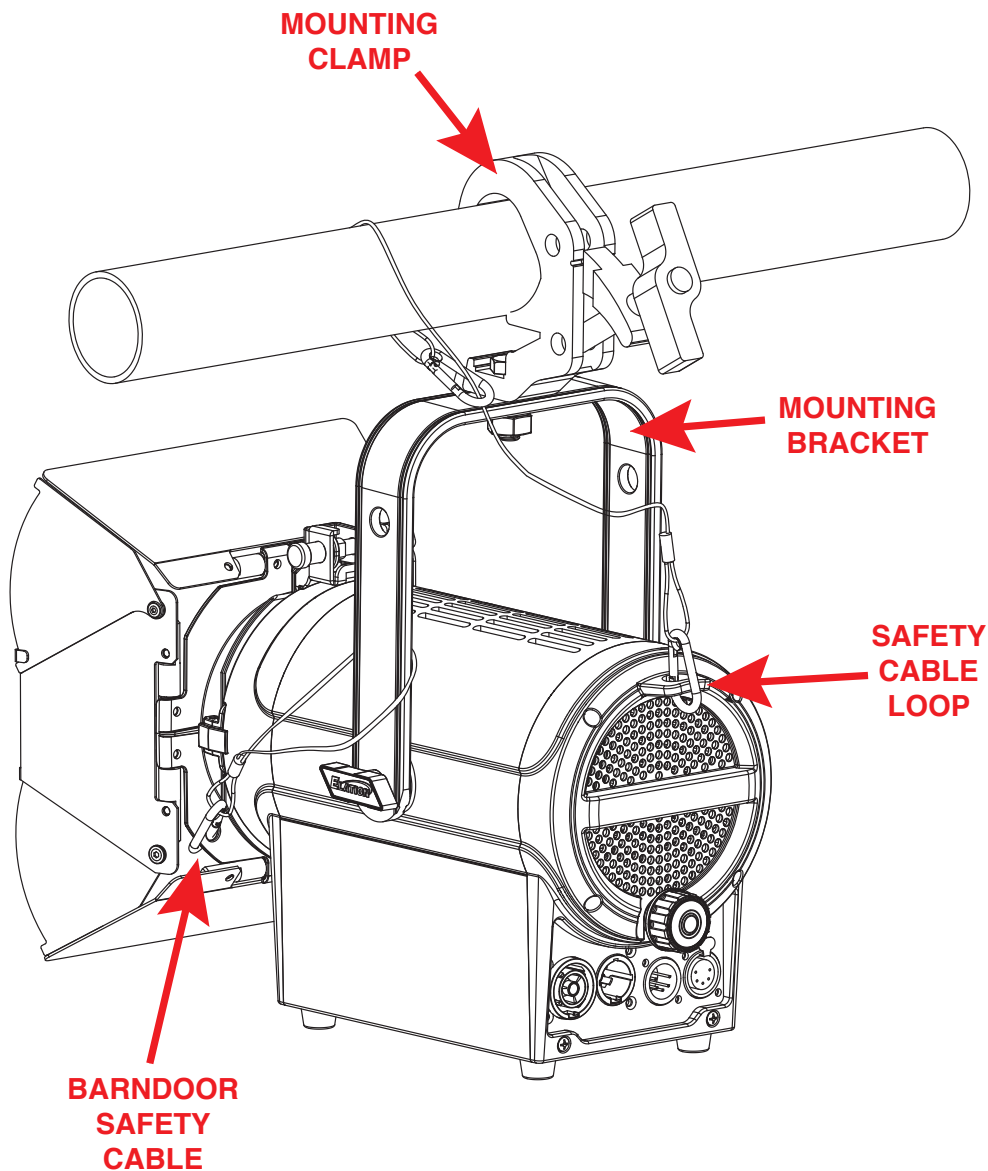


INSTALLATION GUIDELINES

CLAMP INSTALLATION (NOT INCLUDED)

This fixture includes an adjustable mounting bracket with an attachment point for a mounting clamp located at the top of the bracket, as well as a safety cable loop located on the rear of the fixture. When attaching a mounting clamp to the bracket, secure an appropriately rated clamp (not included) to the yoke using at minimum a M10 screw, and always attach a SAFETY CABLE of the appropriate rating to the safety cable loop.

Please note: when the fixture is fitted with the Barndoor accessory, the Barndoor requires its own separate safety cable.



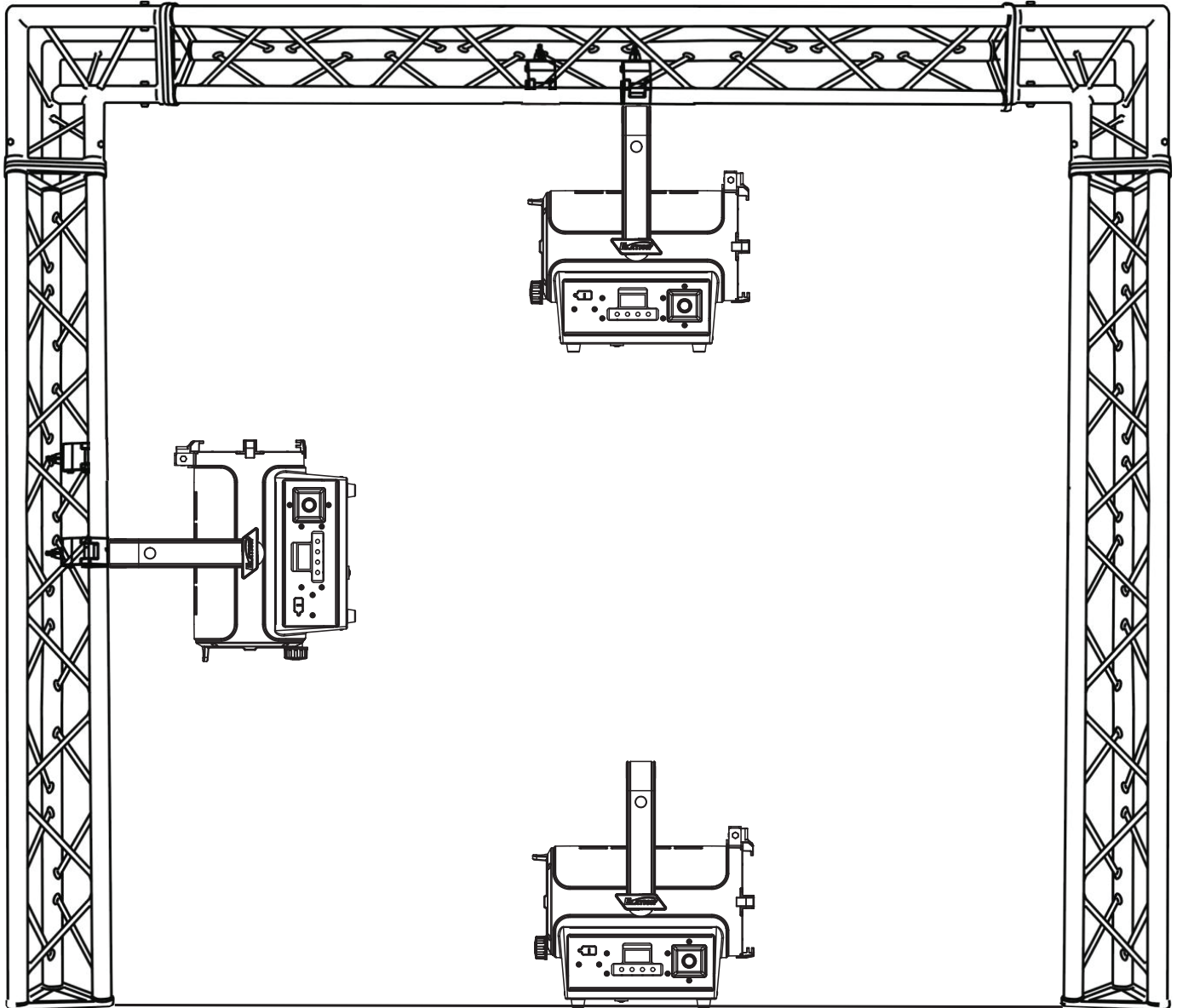
SAFETY CABLE

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

INSTALLATION GUIDELINES

RIGGING

This fixture can be mounted suspended upside down from a truss, mounted to a vertical truss, or standing upright on a stable, level surface. Refer to the illustration below. **Please note that if the fixture is fitted with the Barndoor accessory, then it must be installed with the accessory latch oriented upwards in order to ensure that the Barndoor does not fall even in the event of a latch failure.**



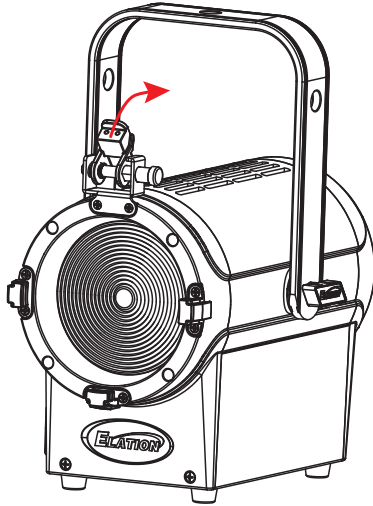
CAUTION: Falling fixtures can cause severe injury or serious equipment damage! For this reason, fixtures should be installed and inspected only by qualified personnel. Do not install the unit if you lack the qualifications to do so, or if you have doubts about the safety and security of the installation setup or location!

ACCESSORY INSTALLATION

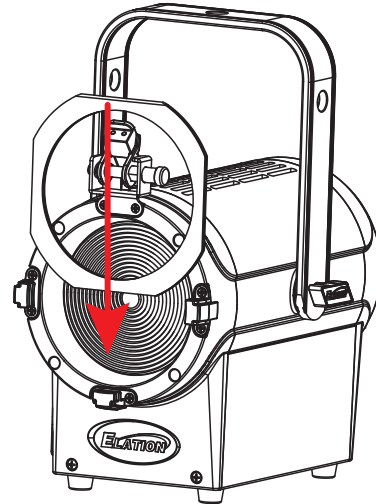
GEL FRAME AND BARN DOOR INSTALLATION

The fixture has 2 slots on the front to hold the Gel Frame and the Barndoors. Follow the directions below to install these accessories.

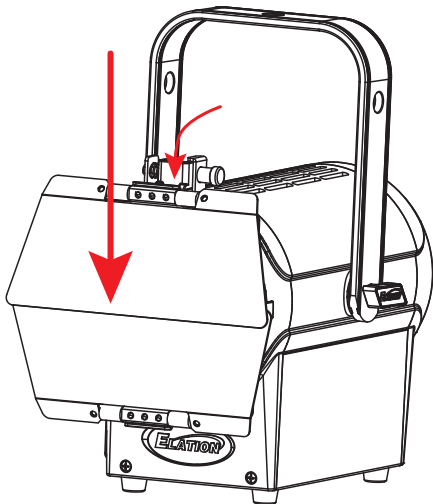
1. Open the accessory latch.



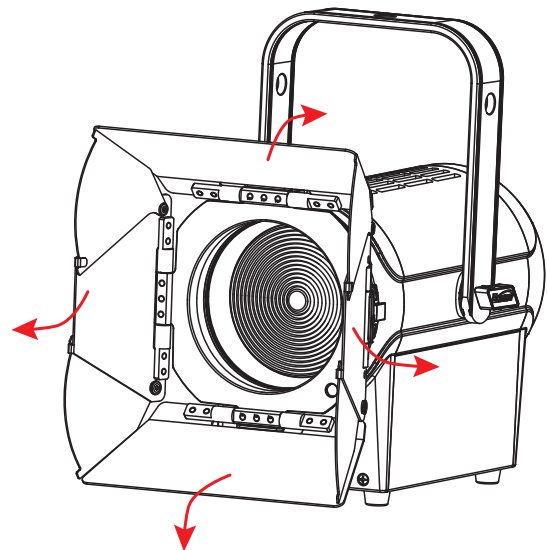
2. Slide the Gel Frame into the small slot closest to the fixture's lens.



3. Slide the Barndoors into the second slot in front of the Gel Frame. Close the accessory latch to secure in place.



4. Pull outward on the tabs to open up the Barndoor flaps.



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 |
|-----------|-----------------|----------|--|
| 0000-FFFF | 001E | 22A6 | [001] 1Ch Dimmer, [002] 2Ch Dimmer & CCT, [003] 6Ch Dimmer/CCT/Color Picker, [004] 11Ch Standard, [005] 18Ch Legacy Extended, [006] 19Ch Extended, [007] 9Ch CMY, [008] 14Ch Legacy CMY Ext, [009] CMY Ext |

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.

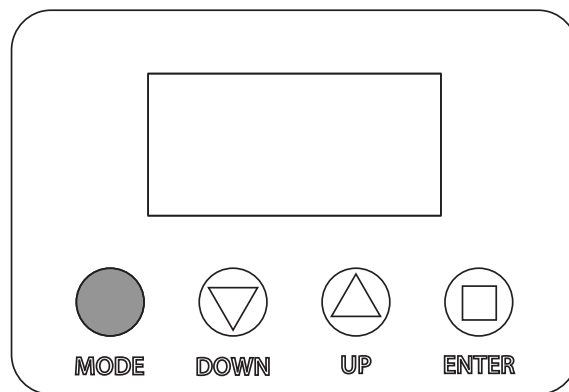
The following parameters are accessible in RDM on this device:

| | | |
|--------------------------------------|--------------------------------|--------------------------------------|
| [0x0011] Proxied Device Count | [0x0015] Comms Status | [0x0122] Default Slot Value |
| [0x0200] Sensor Definition | [0x0031] Status ID Description | [0x00B0] Language |
| [0x0201] Sensor Value | [0x0032] Clear Status ID | [0x00A0] Language Capabilities |
| [0x0080] Device Model Description | [0x0405] Device Power Cycles | [0x00C2] Boot Software Version Label |
| [0x0081] Manufacturer Label | [0x0500] Display Invert | [0x00C1] Boot Software Version ID |
| [0x0082] Device Label | [0x0501] Display Level | [0x0070] Product Detail ID List |
| [0x00E0] DMX Personality | [0x0603] Realtime Clock | [0x0030] Status Messages |
| [0x00E1] DMX Personality Description | [0x1010] Power State | [0x1001] Reset Device |
| [0x0400] Device Hours | [0x1031] Preset Playback | [0x0000] Undefined PID |

SYSTEM MENU

The fixture includes an easy to navigate system menu. The control panel (see image below) located on the side of the fixture provides access to the main system menu and is where all necessary system adjustments are made to the fixture. During normal operation, pressing **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 **UP** and **DOWN** buttons. Once you reach a field that requires adjusting, press the **ENTER** button to activate that field and use the **UP** and **DOWN** buttons to adjust the field. Pressing the **ENTER** button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by pressing the **MODE** button.

NOTE: To access the LCD Menu Control Display when locked, press and hold the **MODE** button for 3 seconds. The LCD Menu Control Display will shut **OFF** automatically about 1 minute from the last button press.



SCREEN LOCK

The display screen will lock after a pre-selected period of inactivity. By default, this function is disabled, but it can be switched on and set by navigating to Settings > Display > Screen Lock in the system menu. To unlock, press and hold the **MODE** button for 3 seconds.

SERVICE PORT

This device features a service port on the control panel that can be used to perform software updates. Please refer to the **Software Updates** section of this manual for detailed information.

SYSTEM MENU

| | | | | |
|---------------|--|---|---|--|
| ENCODER MODE | Disabled | | Run fixture in DMX mode | |
| | Dimmer | | Run fixture in dimmer mode | |
| | Int CCT Grn | | Run fixture in CCT mode with encoder control | |
| | Int Color Sat | | Run fixture in color mode with encoder control | |
| | Manual Control | | Run fixture in manual control mode with encoder control | |
| DMX | DMX Address | 001 - 512 | | Set DMX address |
| | DMX Mode | 1Ch Dimmer | | Select DMX channel mode |
| | | 2Ch Dimmer & CCT | | |
| | | 6Ch Dim/CCT/Clr | | |
| | | 11Ch Standard | | |
| | | 18Ch Legacy Extended | | |
| | | 19Ch Extended | | |
| | | 9Ch CMY | | |
| | | 14Ch Legacy CMY Extended | | |
| | 15Ch CMY Extended | | | |
| | No DMX Status | Hold Last | | Fixture holds last settings received if DMX connection is lost |
| Fade to Black | | Fixture fades display to black if DMX connection is lost | | |
| Control | | Fixture defaults to standalone mode if DMX connection is lost | | |
| CONTROL | Dimmer | 000% - 100% | | Set master dimmer |
| | Manual Color | Red | 000 - 255 | Manually configure color settings |
| | | Green | 000 - 255 | |
| | | Blue | 000 - 255 | |
| | | Mint | 000 - 255 | |
| | | Amber | 000 - 255 | |
| | | CCT | 2400K - 8500K Default = 6000K | |
| | | Green Shift | -100% ~ +100% Default = 0% | |
| Virtual Color | See Color Macros section of this manual | | | |
| | | | | |

SYSTEM MENU

| | | | | |
|-------------------------------|---------------------------------------|---|-----------------------------------|---------------------------------------|
| CONTROL (continued) | Primary | On / Off | | Enable or disable primary mode |
| | Secondary | On / Off | | Enable or disable secondary mode |
| | Self Test | All | | Run a diagnostic test |
| Dimmer | | | | |
| Color | | | | |
| SETTINGS | Dim Modes | Standard | | Select dimming mode |
| | | Stage | | |
| | | TV | | |
| | | Architectural | | |
| | | Theatre | | |
| | | Stage 2 | | |
| | | Dim Speed | 0s - 10s Default = 0.1s | Set dimming speed |
| | Dim to Warm | On / Off | | Enable or disable dim to warm feature |
| | Dim Curves | Linear | | Select dim curve |
| | | Square | | |
| | | Square Inverse | | |
| | | S-Curve | | |
| | LED Refresh Rate | 900Hz - 1500Hz, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz Default = 1200Hz | | Set LED refresh rate |
| Color Tuning | Highest Fidelity | | | |
| | Balanced Output and Fidelity | | | |
| | Highest Output | | | |
| Output Balance | Bright (Highest Output) | | Select output balance setting | |
| | Uniform (Elation Full Spectrum Match) | | | |
| LED Power Limit | 50% | | Set LED power output limit | |
| | 60% | | | |
| | 70% | | | |
| | 80% | | | |
| | 90% | | | |
| | 100% | | | |
| Fan Mode | Auto | | Set fan mode setting | |
| | High | | | |
| | Silent | | | |
| | Mute | | | |

SYSTEM MENU

| | | | | |
|---------------------------------------|------------------|------------------|--|---|
| SETTINGS (continued) | Display | Screen Delay | 10s - 5min Default = 1min | Screen goes into standby mode after selected period of inactivity |
| | | Screen Lock | Off , 10s - 5min | Screen controls lock after selected period of inactivity |
| | | Rotate Display | Yes | Inverted display orientation |
| | | | No | Standard display orientation |
| | Auto | | Orientation changes to keep screen display upright | |
| Reset Defaults | Yes / No | | Reset unit to factory default settings | |
| INFORMATION | Time | Current Run Time | | Displays current fixture run time |
| | | Total Run Time | | Displays lifetime total fixture run time |
| | | Last Run Time | | Displays fixture run time since last reset |
| | Temperature | Current | | Displays current temperature |
| | | Max Resettable | | Displays maximum recorded temperature since last reset |
| | DMX Values | Red | | Displays current DMX values for each parameter |
| | | Green | | |
| | | ... | | |
| | Product IDs | RDM UID | | Displays fixture RDM UID |
| | Error Logs | Fixture Errors | | Displays recorded fixture errors |
| Software Version | Vx.x | | Displays current software version | |
| SERVICE Passcode = 050 | Calibration | Red | 000 - 255 | Calibrate color output |
| | | Green | 000 - 255 | |
| | | Blue | 000 - 255 | |
| | | Mint | 000 - 255 | |
| | | Amber | 000 - 255 | |
| | Update Software | Yes / No | | Update software version |
| | Reset Last Run | Yes / No | | Reset Last Run Time and Max Resettable Temperature readings |
| | Reset Error Logs | Yes / No | | Clear error log |

ENCODER MODE

| DIMMER MODE | | | |
|------------------|--------------------|------------|---------|
| FUNCTION | DISPLAY | INCREMENTS | DEFAULT |
| Intensity Dimmer | Intensity 0 - 100% | 1% | 0% |

| INT CCT GRN MODE | | | |
|-------------------|---------------------|------------|---------|
| FUNCTION | DISPLAY | INCREMENTS | DEFAULT |
| Intensity Dimmer | Intensity 0 - 100% | 1% | 0% |
| Color Temperature | CCT 2400 - 8500K | 100K | 6000K |
| Green Shift | GRN - 100% to +100% | 1% | Neutral |

| INT COLOR SAT MODE | | | |
|--------------------|-----------------------------|--------------|---------|
| FUNCTION | DISPLAY | INCREMENTS | DEFAULT |
| Intensity Dimmer | Intensity 0 - 100% | 1% | 0% |
| Color Mixing | Virtual Color 1, 2, 3, 4... | Single Color | - |
| Saturation | Sat 0 - 100% | 1% | 100% |

| MANUAL CONTROL MODE | | | |
|---------------------|------------------------|---|---------|
| FUNCTION | DISPLAY | INCREMENTS | DEFAULT |
| Dimmer | Intensity 0 - 100% | 1% | 0% |
| Options | [Setting Name] 0 - 100 | Strobe, Red, Green, Blue, Mint, Amber | Strobe |
| Adjuster | [Value] 0 - 100% | 1% | 0% |

FAN MODES

The KL Fresnel 4 FC is a high-performance fixture suited for multiple applications. For noise critical environments such as Theater, Opera or Orchestra Halls, it offers various fan operation modes which remove any distraction for the audience and performers. Fan Modes can be changed remotely via the DMX control channel, allowing the fixture to offer high output or whisper silent operation at a moment's notice. All Fan Modes smoothly transition over a brief time, preventing unwanted attraction to the fixture.

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

NOTE: Recommended for daily operation.

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

Low Noise Modes

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

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

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

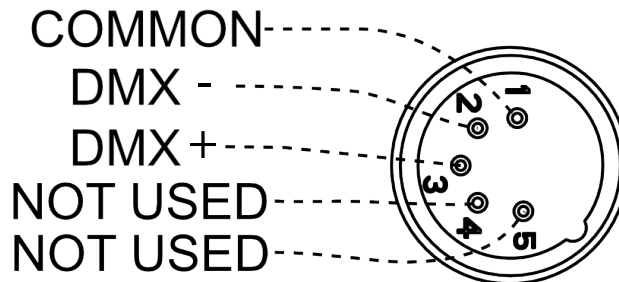
DMX SETUP

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.

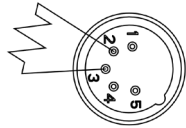
Data Cable (DMX Cable) Requirements (For DMX Operation): This unit can be controlled via DMX-512 protocol. The DMX address is set on the rear panel of the unit. Your unit and your DMX controller require a standard 5-pin XLR connector for data input and data output. We recommend Accu-Cable DMX cables. 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 2 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 3 (1 + 2), the third unit to 5 (1 + 2 + 2), and so on. See the chart below for more details.

| CHANNEL MODE | UNIT 1 ADDRESS | UNIT 2 ADDRESS | UNIT 3 ADDRESS | UNIT 4 ADDRESS |
|--------------|----------------|----------------|----------------|----------------|
| 1Ch | 1 | 2 | 3 | 4 |
| 2Ch | 1 | 3 | 5 | 7 |
| 6Ch | 1 | 7 | 13 | 19 |
| 11Ch | 1 | 12 | 23 | 34 |
| 18Ch | 1 | 19 | 37 | 55 |
| 19Ch | 1 | 20 | 39 | 58 |
| 9Ch | 1 | 10 | 19 | 28 |
| 14Ch | 1 | 15 | 29 | 43 |
| 15Ch | 1 | 16 | 31 | 46 |

DMX TRAITS

| 1 Ch | 2 Ch | 6 Ch | 11 Ch | 18 Ch | 19 Ch | 9 Ch | 14 Ch | 15 Ch | DMX Values | Function | Snap | Def Value |
|------|------|------|-------|-------|-------|------|-------|-------|------------|--|------|-----------|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 - 255 | Dimmer Intensity 0 → 100% | | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 - 255 | Dimmer Fine Fine Intensity Control | | 0 |
| | | | | | | | | | | Shutter / Strobe | | 50 |
| | | | | | | | | | 0 - 31 | Shutter Closed | | |
| | | | | | | | | | 32 - 63 | No Function (shutter open) | | |
| | | | | | | | | | 64 - 95 | Strobe Effect, slow to fast | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | | |
| | | | 4 | 4 | 4 | | | | 0 - 255 | Red 0 → 100% | | 0 |
| | | | | 5 | 5 | | | | 0 - 255 | Red Fine Fine Adjustment | | 0 |
| | | | 5 | 6 | 6 | | | | 0 - 255 | Green 0 → 100% | | 0 |
| | | | | 7 | 7 | | | | 0 - 255 | Green Fine Fine Adjustment | | 0 |
| | | | 6 | 8 | 8 | | | | 0 - 255 | Blue 0 → 100% | | 0 |
| | | | | 9 | 9 | | | | 0 - 255 | Blue Fine Fine Adjustment | | 0 |
| | | | 7 | 10 | 10 | | | | 0 - 255 | Mint 0 → 100% | | 0 |
| | | | | 11 | 11 | | | | 0 - 255 | Mint Fine Fine Adjustment | | 0 |
| | | | 8 | 12 | 12 | | | | 0 - 255 | Amber 0 → 100% | | 0 |
| | | | | 13 | 13 | | | | 0 - 255 | Amber Fine Fine Adjustment | | 0 |
| | | | | | | 4 | 4 | 4 | 0 - 255 | Cyan 0 → 100% | | 0 |
| | | | | | | | 5 | 5 | 0 - 255 | Cyan Fine Fine Adjustment | | 0 |
| | | | | | | 5 | 6 | 6 | 0 - 255 | Magenta 0 → 100% | | 0 |
| | | | | | | | 7 | 7 | 0 - 255 | Magenta Fine Fine Adjustment | | 0 |
| | | | | | | 6 | 8 | 8 | 0 - 255 | Yellow 0 → 100% | | 0 |

DMX TRAITS

| 1 Ch | 2 Ch | 6 Ch | 11 Ch | 18 Ch | 19 Ch | 9 Ch | 14 Ch | 15 Ch | DMX Values | Function | Snap | Def Value |
|------|------|------|-------|-------|-------|------|-------|----------|--|---|------|-----------|
| | | | | | | | 9 | 9 | 0 - 255 | Yellow Fine Fine Adjustment | | 0 |
| | 2 | 4 | 9 | 14 | | 7 | 10 | | | CCT Presets | X | 0 |
| | | | | | | | | 0 - 23 | Open | | | |
| | | | | | | | | 24 - 85 | 2400K → 8500K (see Color Temperature Table section) | | | |
| | | | | | | | | 86 - 255 | 8500K | | | |
| | | | | | 14 | | | 10 | | Variable CCT | | 0 |
| | | | | | | | | | 0 - 23 | Open | | |
| | | | | | | | | | 24 - 255 | 2400K → 8500K | | |
| | | | | | 15 | | | 11 | 0 - 255 | Variable CCT Fine Fine Adjustment | | 0 |
| | | | | 15 | 16 | | 11 | 12 | | Green Shift | | 128 |
| | | | | | | | | | 0 | Idle | | |
| | | | | | | | | | 1 - 127 | Full Minus Green to Neutral | | |
| | | | | | | | | | 128 | Neutral White | | |
| | | | | | | | | | 129 - 255 | Neutral to Full Plus Green | | |
| | | 5 | 10 | 16 | 17 | 8 | 12 | 13 | | Color | | 0 |
| | | | | | | | | | 0 | Open | | |
| | | | | | | | | | 1 - 179 | Virtual Swatch Book (see Color Macros Table section) | | |
| | | | | | | | | | | Color Scroll | | |
| | | | | | | | | | 180 - 201 | Clockwise, fast → slow | | |
| | | | | | | | | | 202 - 207 | Stop | | |
| | | | | | | | | | 208 - 229 | Counter-clockwise, slow → fast | | |
| | | | | | | | | | 230 - 234 | Open | | |
| | | | | | | | | | | Random Slots | | |
| | | | | | | | | | 235 - 239 | Fast | | |
| | | | | | | | | | 240 - 244 | Medium | | |
| | | | | | | | | | 245 - 249 | Slow | | |
| | | | | | | | | | 250 - 255 | Open | | |
| | | | | 17 | 18 | | 13 | 14 | | Dim Modes | X | 0 |
| | | | | | | | | | 0 - 20 | Standard | | |
| | | | | | | | | | 21 - 40 | Stage | | |
| | | | | | | | | | 41 - 60 | TV | | |
| | | | | | | | | | 61 - 80 | Architectural | | |
| | | | | | | | | | 81 - 100 | Theatre | | |
| | | | | | | | | | 101 - 120 | Stage 2 | | |
| | | | | | | | | | | Dimmer Delay Time | | |
| | | | | | | | | | 121 | 0s | | |
| | | | | | | | | | 122 | 0.1s | | |
| | | | | | | | | | 123 | 0.2s | | |
| | | | | | | | | | 124 | 0.3s | | |
| | | | | | | | | | 125 | 0.4s | | |

DMX TRAITS

| 1 Ch | 2 Ch | 6 Ch | 11 Ch | 18 Ch | 19 Ch | 9 Ch | 14 Ch | 15 Ch | DMX Values | Function | Snap | Def Value | |
|------|------|------|-------|-------|-------|------|-------|-------|------------|--------------------------------------|-------|-----------|--|
| | | | | | | | | | | Dimmer Delay Time (continued) | | | |
| | | | | | | | | | 126 | 0.5s | | | |
| | | | | | | | | | 127 | 0.6s | | | |
| | | | | | | | | | 128 | 0.7s | | | |
| | | | | | | | | | 129 | 0.8s | | | |
| | | | | | | | | | 130 | 0.9s | | | |
| | | | | | | | | | 131 | 1.0s | | | |
| | | | | | | | | | 132 | 1.5s | | | |
| | | | | | | | | | 133 | 2.0s | | | |
| | | | | | | | | | 134 | 3.0s | | | |
| | | | | 17 | 18 | | | 13 | 14 | 135 | 4.0s | | |
| | | | | | | | | | | 136 | 5.0s | | |
| | | | | | | | | | | 137 | 6.0s | | |
| | | | | | | | | | | 138 | 7.0s | | |
| | | | | | | | | | | 139 | 8.0s | | |
| | | | | | | | | | | 140 | 9.0s | | |
| | | | | | | | | | | 141 | 10.0s | | |
| | | | | | | | | | 142 - 149 | Idle | | | |
| | | | | | | | | | | Dim to Warm | | | |
| | | | | | | | | | 150 - 154 | DTW On | | | |
| | | | | | | | | | 155 - 159 | DTW Off | | | |
| | | | | | | | | | 160 - 255 | Idle | | | |
| | | | | | | | | | | Control | | | |
| | | | | | | | | | 0 - 29 | Idle | | | |
| | | | | | | | | | 30 - 39 | Fan Mode Auto | | | |
| | | | | | | | | | 40 - 49 | Fan Mode High | | | |
| | | | | | | | | | 50 - 59 | Fan Mode Silent | | | |
| | | | | | | | | | 60 - 69 | Fan Mode Mute | | | |
| | | | | | | | | | 70 - 99 | Idle | | | |
| | | | | | | | | | | Refresh Rate (Hz) | | | |
| | | | | | | | | | 100 | 900 | | | |
| | | | | | | | | | 101 | 910 | | | |
| | | 6 | 11 | 18 | 19 | 9 | 14 | 15 | 102 | 920 | | | |
| | | | | | | | | | 103 | 930 | | | |
| | | | | | | | | | 104 | 940 | | | |
| | | | | | | | | | 105 | 950 | | | |
| | | | | | | | | | 106 | 960 | | | |
| | | | | | | | | | 107 | 970 | | | |
| | | | | | | | | | 108 | 980 | | | |
| | | | | | | | | | 109 | 990 | | | |
| | | | | | | | | | 110 | 1000 | | | |
| | | | | | | | | | 111 | 1010 | | | |
| | | | | | | | | | 112 | 1020 | | | |
| | | | | | | | | | 113 | 1030 | | | |
| | | | | | | | | | | | X | 0 | |

DMX TRAITS

| 1 Ch | 2 Ch | 6 Ch | 11 Ch | 18 Ch | 19 Ch | 9 Ch | 14 Ch | 15 Ch | DMX Values | Function | Snap | Def Value |
|------|------|------|-------|-------|-------|------|-------|-------|------------|--------------------------------------|------|-----------|
| | | | | | | | | | | Refresh Rate (Hz) (continued) | | |
| | | | | | | | | | 114 | 1040 | | |
| | | | | | | | | | 115 | 1050 | | |
| | | | | | | | | | 116 | 1060 | | |
| | | | | | | | | | 117 | 1070 | | |
| | | | | | | | | | 118 | 1080 | | |
| | | | | | | | | | 119 | 1090 | | |
| | | | | | | | | | 120 | 1100 | | |
| | | | | | | | | | 121 | 1110 | | |
| | | | | | | | | | 122 | 1120 | | |
| | | | | | | | | | 123 | 1130 | | |
| | | | | | | | | | 124 | 1140 | | |
| | | | | | | | | | 125 | 1150 | | |
| | | | | | | | | | 126 | 1160 | | |
| | | | | | | | | | 127 | 1170 | | |
| | | | | | | | | | 128 | 1180 | | |
| | | | | | | | | | 129 | 1190 | | |
| | | | | | | | | | 130 | 1200 | | |
| | | | | | | | | | 131 | 1210 | | |
| | | | | | | | | | 132 | 1220 | | |
| | | | | | | | | | 133 | 1230 | | |
| | | 6 | 11 | 18 | 19 | 9 | 14 | 15 | 134 | 1240 | X | 0 |
| | | | | | | | | | 135 | 1250 | | |
| | | | | | | | | | 136 | 1260 | | |
| | | | | | | | | | 137 | 1270 | | |
| | | | | | | | | | 138 | 1280 | | |
| | | | | | | | | | 139 | 1290 | | |
| | | | | | | | | | 140 | 1300 | | |
| | | | | | | | | | 141 | 1310 | | |
| | | | | | | | | | 142 | 1320 | | |
| | | | | | | | | | 143 | 1330 | | |
| | | | | | | | | | 144 | 1340 | | |
| | | | | | | | | | 145 | 1350 | | |
| | | | | | | | | | 146 | 1360 | | |
| | | | | | | | | | 147 | 1370 | | |
| | | | | | | | | | 148 | 1380 | | |
| | | | | | | | | | 149 | 1390 | | |
| | | | | | | | | | 150 | 1400 | | |
| | | | | | | | | | 151 | 1410 | | |
| | | | | | | | | | 152 | 1420 | | |
| | | | | | | | | | 153 | 1430 | | |
| | | | | | | | | | 154 | 1440 | | |
| | | | | | | | | | 155 | 1450 | | |
| | | | | | | | | | 156 | 1460 | | |

DMX TRAITS

| 1 Ch | 2 Ch | 6 Ch | 11 Ch | 18 Ch | 19 Ch | 9 Ch | 14 Ch | 15 Ch | DMX Values | Function | Snap | Def Value |
|------|------|------|-------|-------|-------|------|-------|-------|------------|---------------------------------------|------|-----------|
| | | | | | | | | | | Refresh Rate (Hz) (continued) | | |
| | | | | | | | | | 157 | 1470 | | |
| | | | | | | | | | 158 | 1480 | | |
| | | | | | | | | | 159 | 1490 | | |
| | | | | | | | | | 160 | 1500 | | |
| | | | | | | | | | 161 | 2500 | | |
| | | | | | | | | | 162 | 4000 | | |
| | | | | | | | | | 163 | 5000 | | |
| | | | | | | | | | 164 | 6000 | | |
| | | | | | | | | | 165 | 10000 | | |
| | | | | | | | | | 166 | 15000 | | |
| | | | | | | | | | 167 | 20000 | | |
| | | | | | | | | | 168 | 25000 | | |
| | | 6 | 11 | 18 | 19 | 9 | 14 | 15 | 169 - 174 | Idle | X | 0 |
| | | | | | | | | | | Color Tuning | | |
| | | | | | | | | | 175 - 176 | Highest Fidelity | | |
| | | | | | | | | | 177 - 178 | Balanced Output and Fidelity | | |
| | | | | | | | | | 179 - 180 | Highest Output (Default) | | |
| | | | | | | | | | | Output Balance | | |
| | | | | | | | | | 181 - 182 | Bright (Highest Output) | | |
| | | | | | | | | | 183 - 184 | Uniform (Elation Full Spectrum Match) | | |
| | | | | | | | | | 185 - 200 | Idle | | |
| | | | | | | | | | | Dimmer Curves | | |
| | | | | | | | | | 201 - 210 | Linear | | |
| | | | | | | | | | 211 - 220 | Square | | |
| | | | | | | | | | 221 - 230 | Inverse Square | | |
| | | | | | | | | | 231 - 240 | S-Curve (Default) | | |
| | | | | | | | | | 241 - 255 | Idle | | |

COLOR MACROS TABLE

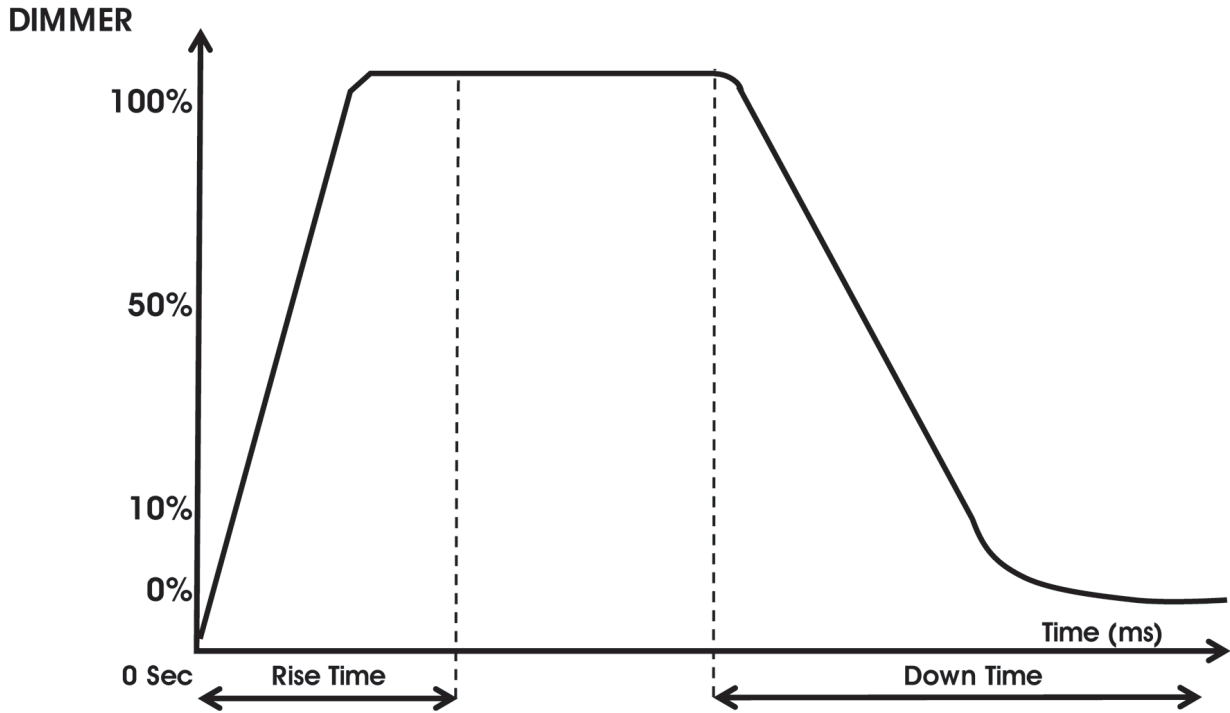
| Value | Filter Number | Name | Value | Filter Number | Name |
|-------|---------------|-------------------|--------|---------------|-------------------|
| 1 | 7 | Pale Yellow | 32 | 49 | Medium Purple |
| 2 | 103 | Straw | 33 | 58 | Lavender |
| 3 | 151 | Gold Tint | 34 | 199 | Palace Blue |
| 4 | 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

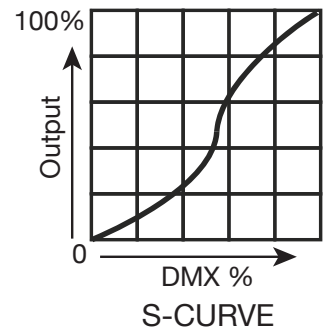
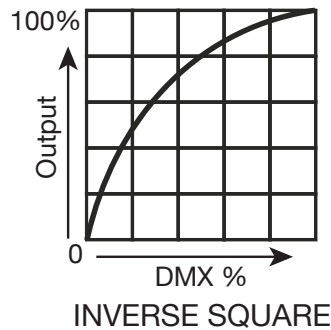
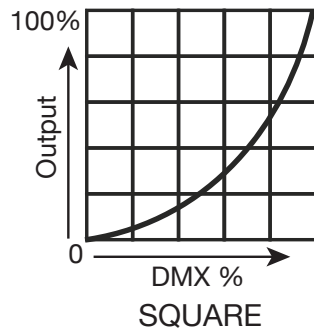
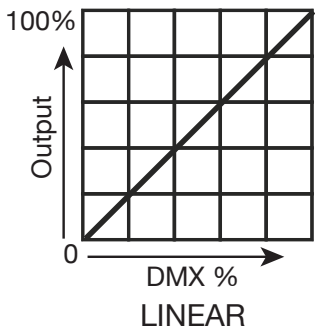
Colors shown are an approximate representation.

| 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 | | |
| 62 | 6200 | | |

DIMMER MODES AND DIM CURVES



| Dimming Curve 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 |



SOFTWARE UPDATES

**ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION!
NOTE ALL MENU SETTINGS BEFORE UPDATING SOFTWARE!
FIXTURE SOFTWARE CAN NOT BE DOWNGRADED!
DOWNLOAD FIXTURE SOFTWARE TO PC ONLY! (NO MAC SUPPORT)
PLEASE CONTACT ELATION SERVICE FOR FURTHER INFORMATION.**

PERSONALITY – Service Setting – USB Update

To update the fixture software via the UPDATE/SERVICE PORT, follow steps below.

1. Copy fixture software update file from a PC computer to a compatible USB flash drive.
Make sure only the fixture software update file is stored on the USB flash drive.
2. Disconnect DMX, Art-Net, and E-FLY connections and power the fixture ON.
3. Insert USB flash drive into the UPDATE/SERVICE PORT on the rear connection panel.
4. Navigate to the Personality > Service, then input the service passcode. Select the Update Software option.
5. Select the software file name on the menu display and press ENTER.
6. Select YES to begin update process. Updating...% will show on the menu display.
7. After file is uploaded, the fixture will check the software, which may take some time.
8. The fixture will perform a reset process when the software update process is complete.
9. Remove the USB flash drive and make necessary system menu setting adjustments.

C-LOADER II

Alternately, an Elation C-Loader II can be used to update the fixture to the latest software. Please visit the C-Loader II product page at the Elation web site and download the product manual for step by step instructions.

<https://www.elationlighting.com/c-loader-software-uploader>

To order the C-Loader II uploader and the updated software for your fixture, please contact Elation support for details.

SPECIFICATIONS

SOURCE

- 80W 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

- TBA Total Lumen Output
- CRI 92.2
- Zoom Range 14° - 30°
- Beam Angle 14.2° - 29.7°
- Field Angle 23.2° - 48°

EFFECTS

- Manual Zoom
- Electronic Dimmer and Strobe
- Variable 16-bit Dimming Modes and Curves

COLOR

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

CONTROL / CONNECTIONS

- 9 DMX Channel Modes (1, 2, 6, 11, 18, 19, 9, 14, 15)
- 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: 13.6" (345mm)
- Width: 7.9" (201mm)
- Vertical Height: 11.4" (289mm)
- Weight: 8.2 lbs / 3.71 kg

ELECTRICAL / THERMAL

- AC 100-240V - 50/60Hz
- TBA Max Power Consumption
- 5°F to 113°F (-15°C to 45°C)
- BTU/hr (+/- 10%) TBA
- Power Linking: TBA

INCLUDED ITEMS

- Gel Frame and Rotating Barn Doors
- IP65 Locking Power Cable
- Barn Doors

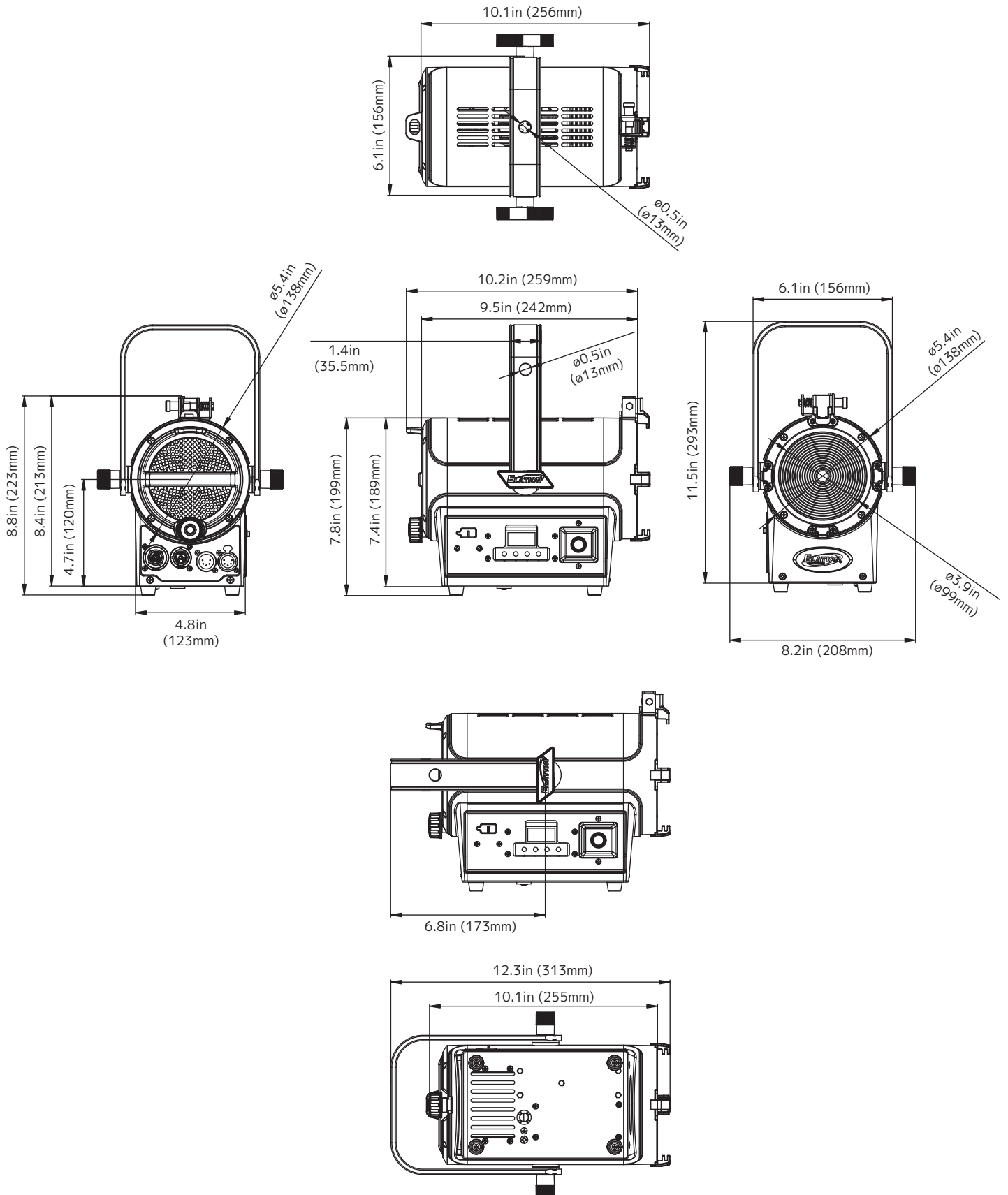
APPROVALS / RATINGS

- CE | cETLus | IP20 | FCC | UKCA



Specifications and documentation subject to change without notice.

DIMENSIONAL DRAWINGS



OPTIONAL ACCESSORIES

| SKU NUMBER | DESCRIPTION |
|---------------|---|
| SIP139 | IP65 Rated Twist Lock Power Cable, 10ft (3m)* |
| TOU027 | Tour Link 5pin 10ft Tour Grade DMX Data Cable |
| TRIGGER CLAMP | Heavy Duty Hook Style Clamp |
| KLF135 | Universal Snap Bag |

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.



