



# KL FRESNEL 8 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](http://www.elationlighting.com) for the latest revision/update of this manual, before installation and/or programming.

| Date    | Document Version | Software Version ≥ | DMX Channel Modes | Notes                                   |
|---------|------------------|--------------------|-------------------|---|
| 2/8/21  | 1                | 1.02               | 1/7/12/18/10/14   | Initial release                         |
| 4/4/21  | 1.5              | 1.02               | 1/7/12/19/10/15   | Updated Specs.                          |
| 7/14/21 | 2.0              | N/C                | No Change         | Updated Specifications and System Menu. |
| 2/15/22 | 2.5              | N/C                | No Change         | Added Optional Accessories.             |

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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 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](https://forums.elationlighting.com) with questions, comments or suggestions.

**ELATION SERVICE USA** - Monday - Friday 8:00am to 4:30pm PST  
323-582-3322 | Fax 323-832-9142 | [support@elationlighting.com](mailto: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](https://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

**DO NOT 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. 6" (15cm) 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 electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.

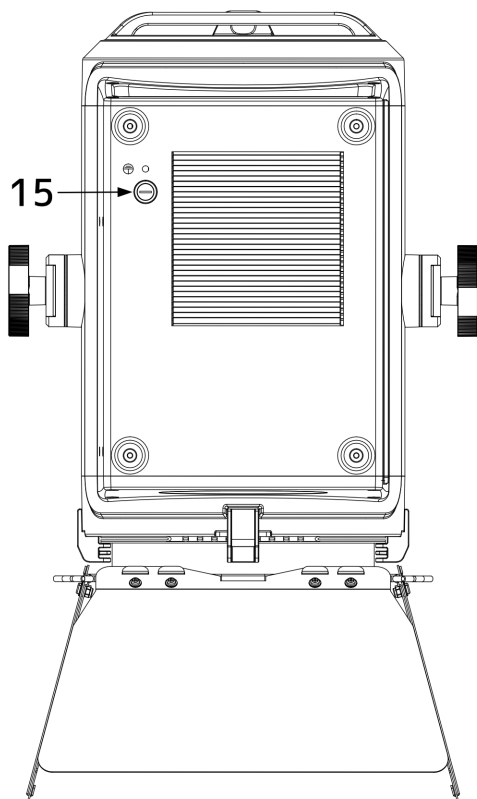
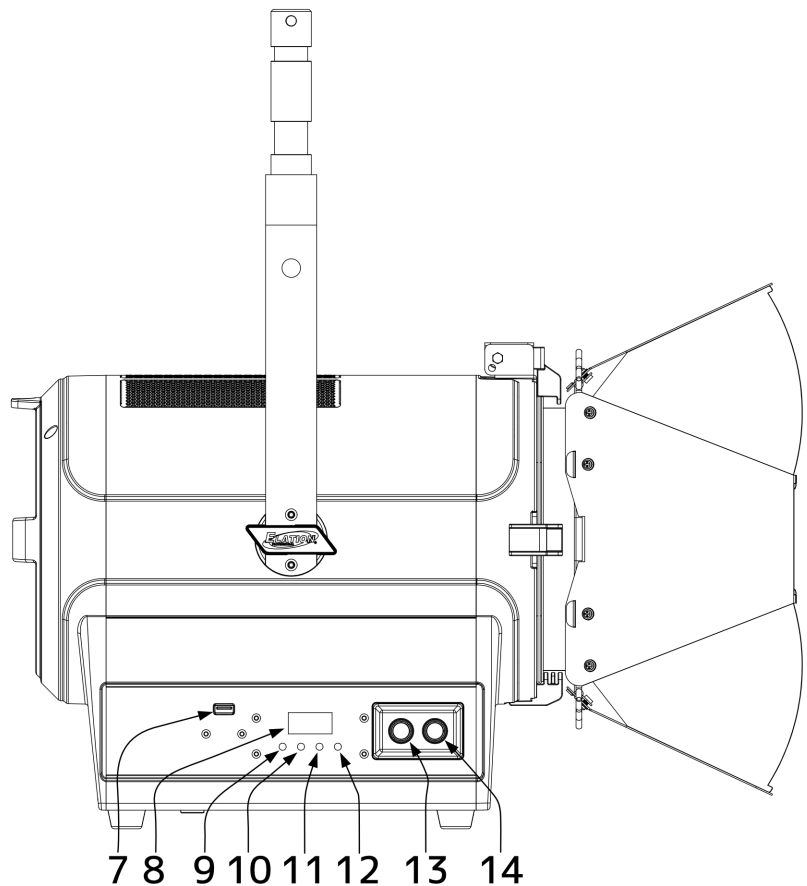
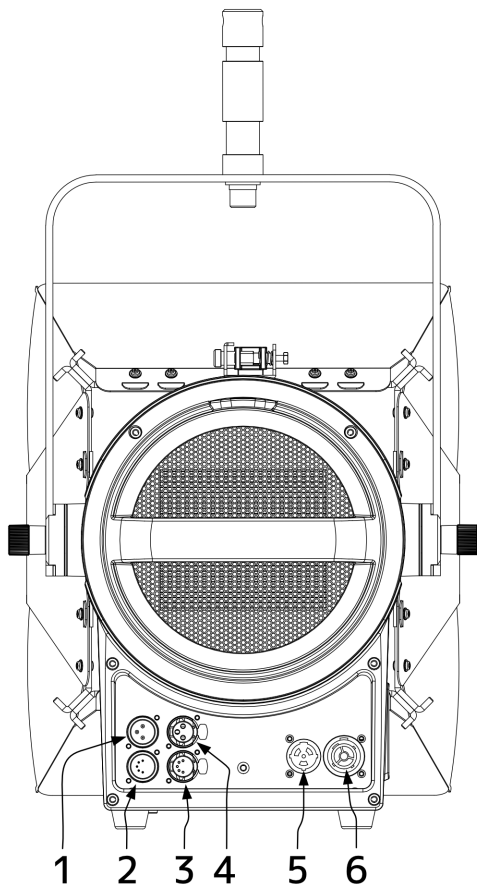
Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.

Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).

Electric power supply cables must not show any damage, material fatigue or sediments. **NEVER** remove the ground prong from the power cable.



# OVERVIEW



1. 3pin DMX In
2. 5pin DMX In
3. 5pin DMX Out
4. 3pin DMX Out
5. Power In
6. Power Out
7. USB Software Update Port
8. OLED Control Menu Display
9. MODE Button
10. UP Button
11. DOWN Button
12. ENTER Button
13. Manual Dimming Control
14. Manual Function Control
15. Fuse

# 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.



**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 **14° to 113°F. (-10° to 45°C)**

Do not use the fixture under or above this temperature.

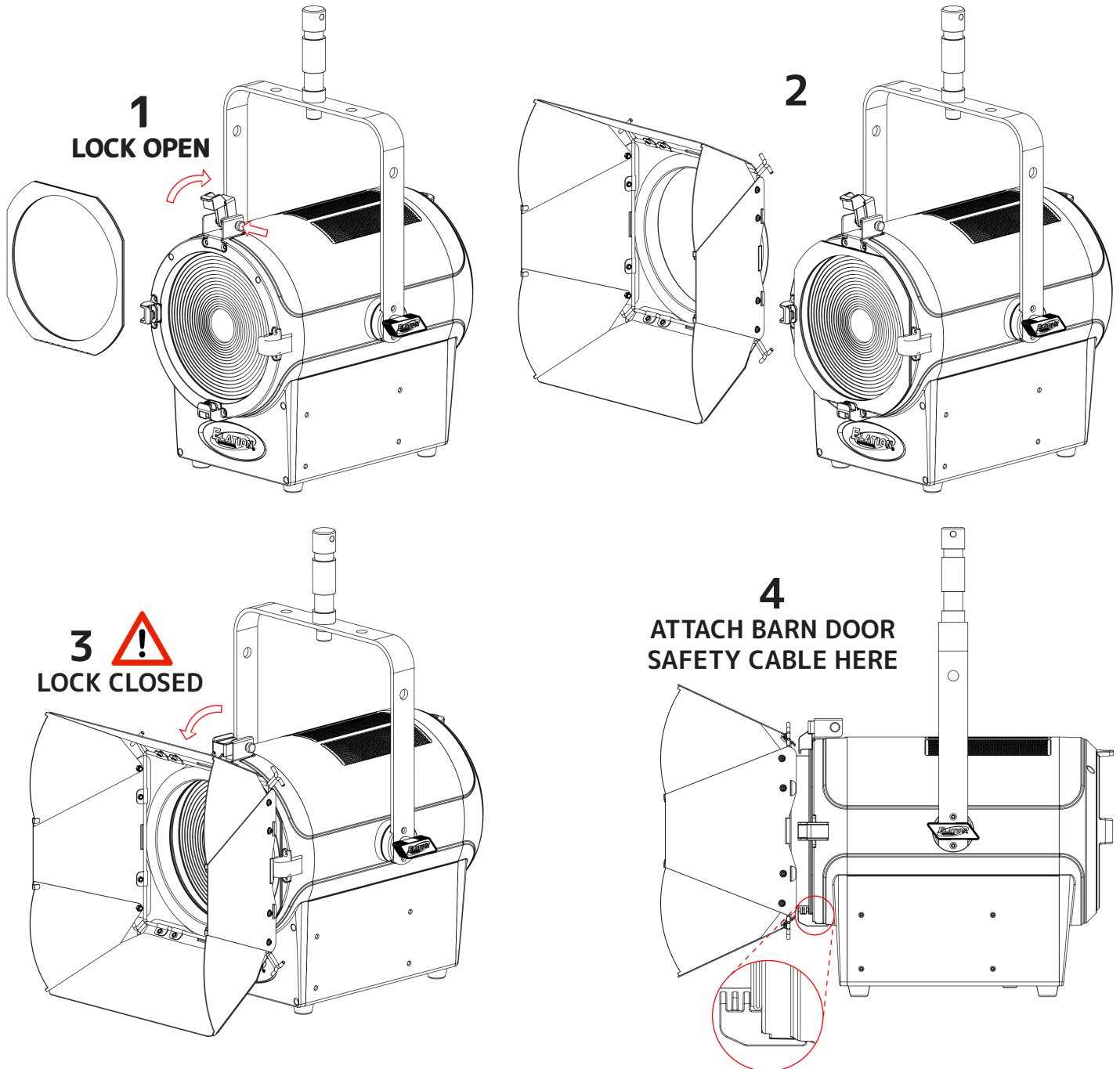
Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might reach the fixture by hand.

**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 serving.

## GEL FRAME AND BARN DOOR INSTALLATION

The fixture has 2 slots on the front to hold the GEL FRAME and BARN DOOR. The first smaller slot is for the GEL FRAME and the second larger slot is for the BARN DOOR. The fixture also has a top lock that secures these accessories to the fixture.



Insert Gel Frame into smaller slot  
Insert Barn Doors into larger slot

Secure the included mini **SAFETY CABLE** to the **BARN DOOR** and the top lock.

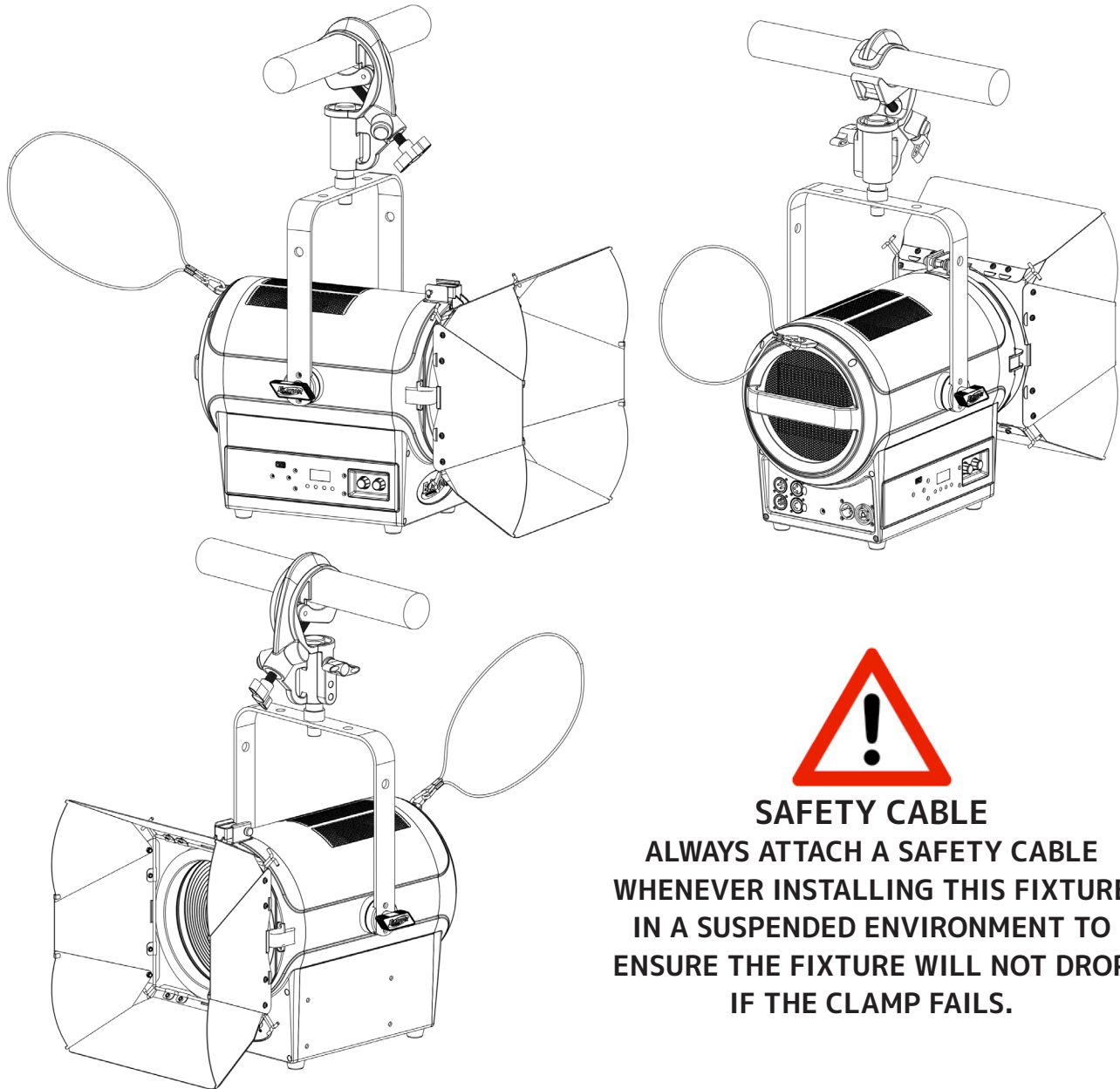
1. Lift up lock on top of fixture and insert **GEL FRAME** into the first slot closest to fixture.
2. Insert **BARN DOOR** into the second slot.
3. Lower the lock on top of the fixture to secure both the **GEL FRAME** and **BARN DOOR**.
4. Secure the included mini **SAFETY CABLE** to the **BARN DOOR** and top lock.

## BOLT INSTALLATION (INCLUDED)

This fixture includes an adjustable dual mounting yoke and safety cable rigging point attached to the fixture. When using the included 28mm Junior Pin, attach the pin with the included bolt using a 10mm Hex Key, and attach a SAFETY CABLE to the safety cable rigging point.

## CLAMP INSTALLATION (NOT INCLUDED)

This fixture includes an adjustable dual mounting yoke and safety cable rigging point attached to the fixture. When mounting this fixture to truss, be sure to secure an appropriately rated clamp (not included) to the yoke using at minimum a M10 screw, and attach a SAFETY CABLE to the safety cable rigging point.



### 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.**

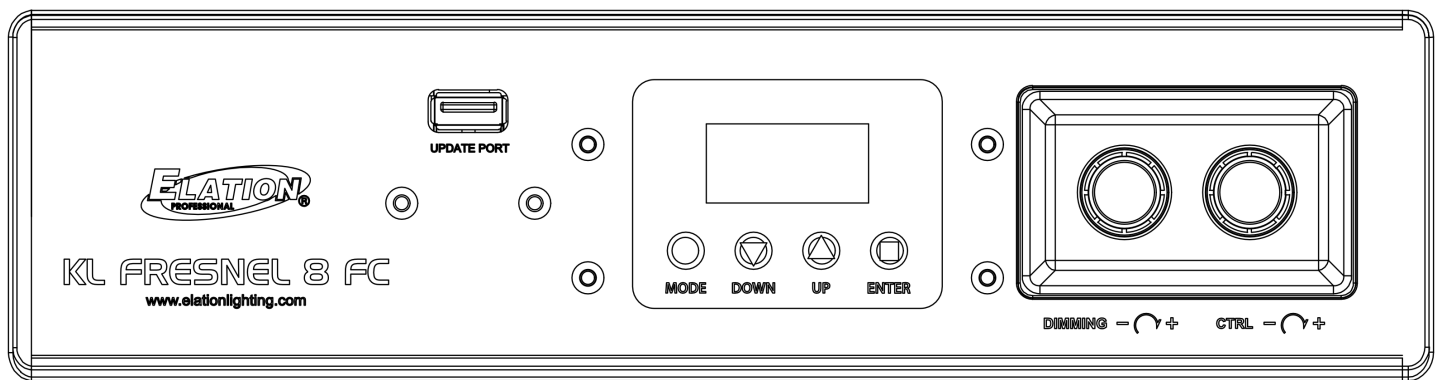
## RIGGING

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

## 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.



## STANDALONE

Press the **MODE** button to access the fixture's main menu. Use the **UP** and **DOWN** buttons to navigate to **DMX Settings** and press the **ENTER** button. Navigate to **No DMX Status** and press the **ENTER** button. Navigate to **Standalone** and press the **ENTER** button.

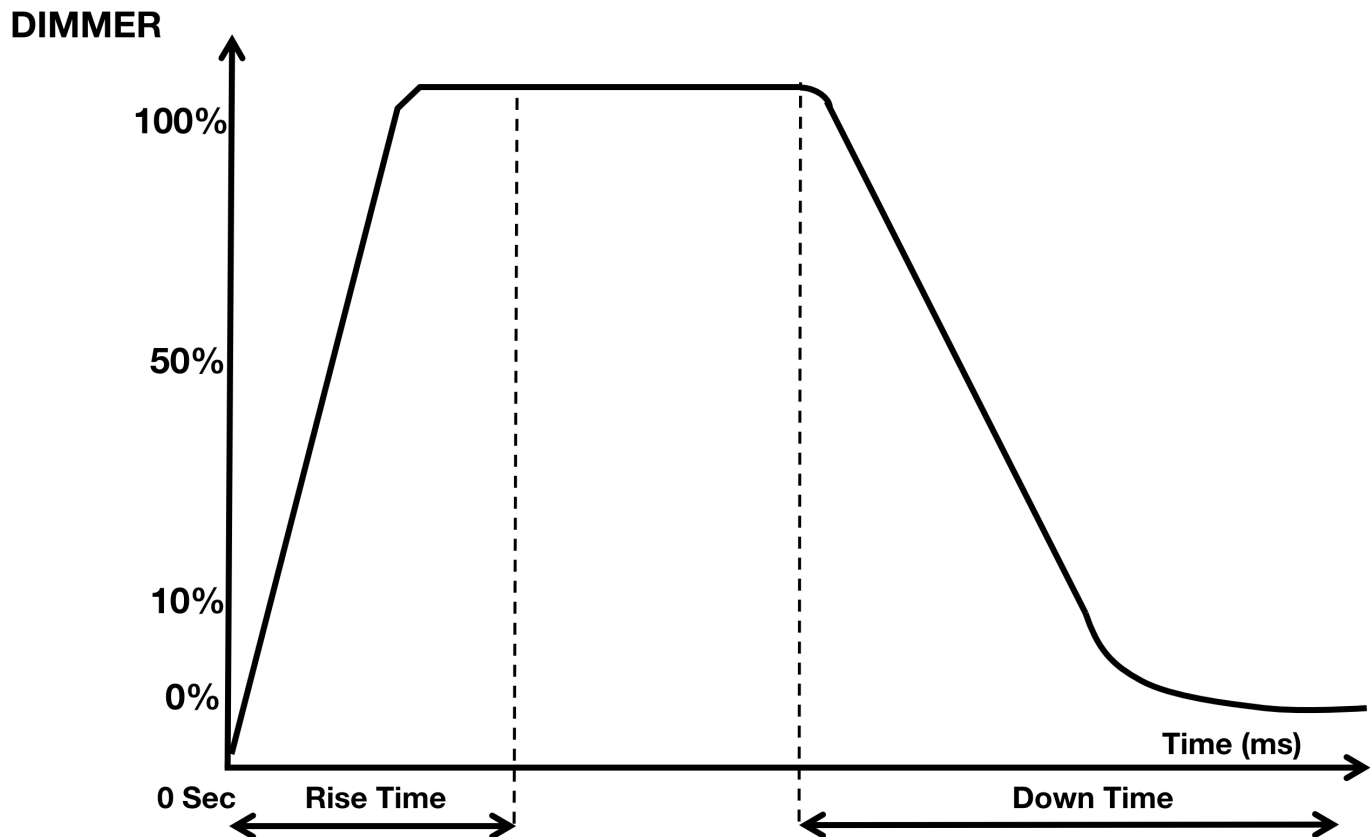
| SYSTEM MENU                               |  |   |                               |   |
|---|--|---|-------------------------------|---|
| Features subject to change without notice |  |   |                               |   |
| MAIN MENU                                 | SUB MENU   | OPTIONS / VALUES<br>(Default Settings in BOLD)  |                               | DESCRIPTION   |
| MANUAL MODE                               | Disabled, Dimmer, Int CCT Grn, Int Color Sat, Manual Control | See <b>Manual Mode</b> section for details  |                               |   |
| DMX SETTINGS                              | DMX Address  | 001 – 512   |                               | Depends on DMX Mode   |
|   | DMX Mode   | 1-CH Dimmer, 7-CH Dimmer Color, 12-CH Standard, 19-CH Extended, 10-CH CMY, 15-CH CMY Extended |                               |   |
|   | No DMX Status  | Hold Last   |                               |   |
|   |  | Fade to Black   |                               |   |
|   |  | Standalone  |                               |   |
| STANDALONE                                | Dimmer   | 0 – 100%  |                               |   |
|   | CCT  | 2400 – 8500K (6000K)  |                               |   |
|   | Green Shift  | -100% ~ +100%   |                               |   |
|   | Virtual Color  | Color01, Color02, ..., Color60  |                               | See Color Table / Uses Color Names                                |
|   | ZOOM   | 0-100% (50%)  |                               |   |
| PERSONALITY                               | Primary  | ON / OFF  |                               |   |
|   | Secondary  | ON / OFF  |                               |   |
|   | Select Signal  | DMX or E-Fly  |                               |   |
|   |  | E-Fly and DMX Out   |                               |   |
|   | Dim Mode   | Standard, Stage, TV, Architectural, Theatre, Stage, Stage 2, Dim Speed (0.0s~0.1S~10.0s)      |                               |   |
|   | Dim Curves   | Linear, Square, Square Inverse, S-Curve   |                               |   |
|   | E-Fly Setting  | Set Channel   | 00 – 14                       |   |
|   |  | Enable E-Fly  | Yes / No                      |   |
|   | LED Refresh Rate   | 900 – 1200Hz- 1500 Hz, 2500 Hz, 4000 Hz, 5000 Hz, 6000 Hz, 10 KHz, 15 KHz, 20 KHz, 25 KHz     |                               |   |
|   | LED Power Limit  | 50%, 60%, 70%, 80%, 90%, 100%   |                               |   |
|   | Fan Mode   | Auto, Silent, High  |                               |   |
|   | Display  | Screen Delay  | 00:10S~05: 00mins (01:00mins) | Display defaults to home page after 30-seconds.                   |
|   |  | Screen Lock   | OFF/00:100-05:00              | Note: To unlock screen, press and hold MODE button for 3 seconds. |
|   |  | Rotate Display 180°   | YES/NO/AUTO                   |   |
|   | Service (Passcode: 050)                                      | Calibration   | Red: 50 – 255                 |   |
|   |  |   | Green: 50 – 255               |   |
|   |  |   | Blue: 50 – 255                |   |
|   |  |   | Amber: 50 – 255               |   |
|   |  |   | Mint: 50 – 255                |   |
|   |  | Update Software   | YES / NO                      |   |
|   |  | Factory Restore   | YES / NO                      |   |
|   |  | Edit RDM UID  | XXXXXX                        |   |

| SYSTEM MENU                               |                  |  |                 |             |
|---|------------------|--|-----------------|-------------|
| Features subject to change without notice |                  |  |                 |             |
| MAIN MENU                                 | SUB MENU         | OPTIONS / VALUES<br>(Default Settings in BOLD) |                 | DESCRIPTION |
| INFORMATION                               | Life Time        | xxxxxx h                                       |                 |             |
|   | Last Run Time    | xxxxxx h                                       |                 |             |
|   | Time Reset       | Reset (Passcode: <b>038</b> )                  |                 |             |
|   | Temperatures     | Current  |                 |             |
|   |                  | Max Resettable                                 |                 |             |
|   |                  | Max Unresettable                               |                 |             |
|   |                  | Reset (Passcode: <b>038</b> )                  |                 |             |
|   | DMX Values       | R:000, G:000, G:000, ...                       |                 |             |
|   | Product ID's     | Mac Address                                    |                 |             |
|   | RDM UID          | RDM UID  |                 |             |
|   | Error Logs       | Fixture Errors                                 | None            |             |
|   |                  | Reset Error Log<br>(Passcode: <b>050</b> )     | YES / <b>NO</b> |             |
|   | Software Version | V1.0.2   |                 |             |



## DIMMER CURVE MODES - Dim Curve

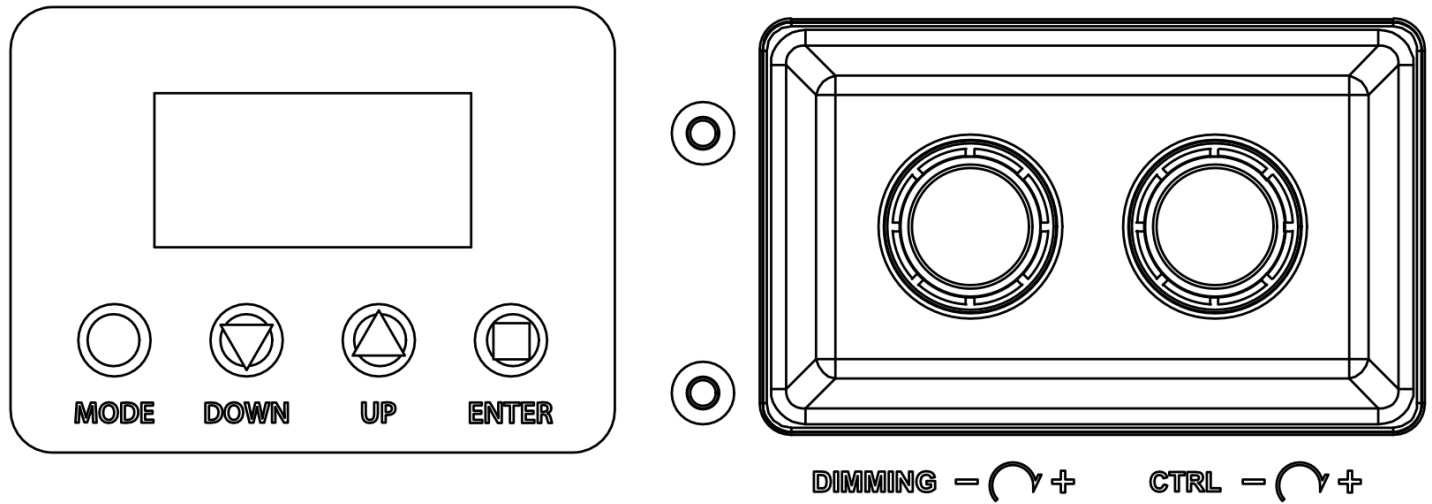
Select desired DIMMER MODE (Standard, Stage, TV, Architectural, Theatre, Stage2).



| 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           |

# MANUAL DIMMING AND FUNCTION CONTROL

Use the two encoder knobs for manual DIMMING and FUNCTION control. Press the CTRL knob to step/cycle through available sub-menu selections.



| DIMMER MODE  |           |                  |                    |         |
|--------------|-----------|------------------|--------------------|---------|
| ENCODER KNOB | SUB MENU  | DISPLAY          | RESOLUTION / STEPS | DEFAULT |
| DIMMER       | Intensity | Intensity 0-100% | 1%                 | 0%      |
| CTRL         | Zoom      | Zoom 0-100%      | 1%                 | 50%     |

| INT CCT GRN (INTENSITY, COLOR TEMPERATURE, GREEN SHIFT) |                   |                    |                    |         |
|---|-------------------|--------------------|--------------------|---------|
| ENCODER KNOB  | SUB MENU          | DISPLAY            | RESOLUTION / STEPS | DEFAULT |
| DIMMER  | Intensity         | Intensity 0-100%   | 1%                 | 0%      |
| CTRL  | Color Temperature | CCT 2400 - 8500K   | 100K               | 6000K   |
|   | Green Shift       | GRN -100% to +100% | 1%                 | Neutral |
|   | Zoom              | Zoom 0-100%        | 1%                 | 50%     |

| INT COL SAT MODE (INTENSITY, COLOR, SATURATION) |            |                             |                    |         |
|---|------------|-----------------------------|--------------------|---------|
| ENCODER KNOB                                    | SUB MENU   | DISPLAY                     | RESOLUTION / STEPS | DEFAULT |
| DIMMER  | Intensity  | Intensity 0-100%            | 1%                 | 0%      |
| CTRL  | Color      | Virtual Color 1, 2, 3, 4... | Single Color       |         |
|   | Saturation | Sat 0-100%                  | 1%                 | 100%    |
|   | Zoom       | Zoom 0-100%                 | 1%                 | 50%     |

| MANUAL CONTROL MODE |            |                       |   |         |
|---------------------|------------|-----------------------|---|---------|
| ENCODER KNOB        | SUB MENU   | DISPLAY               | RESOLUTION / STEPS                                | DEFAULT |
| DIMMER              | Intensity  | Intensity 0-100%      | 1%  | 0%      |
| CTRL                | Selection  | [Setting Name] 0-100% | Zoom / Strobe / Red / Green / Blue / Amber / Mint | Strobe  |
|                     | Adjustment | [Value] 0-100%        | 1%  | 0%      |

# ELATION KL FRESNEL 8 FC - DMX CHANNEL FUNCTIONS AND VALUES (1/7/12/19/10/15)

| Supports Software Versions: ≥ V1.0.2 |              |          |          |     |              |         |                                   |         |      |
|--------------------------------------|--------------|----------|----------|-----|--------------|---------|-----------------------------------|---------|------|
| Dimmer                               | Dimmer Color | Standard | Extended | CMY | CMY Extended | Value   | Function                          | Default | Snap |
| 1                                    | 1            | 1        | 1        | 1   | 1            |         | <b>Dimmer:</b>                    | 0       |      |
|                                      |              |          |          |     |              | 0-255   | Intensity 0 to 100%               |         |      |
|                                      | 2            | 2        | 2        | 2   | 2            |         | <b>Dimmer Fine:</b>               | 0       |      |
|                                      |              |          |          |     |              | 0-255   | Dimmer fine                       |         |      |
|                                      | 3            | 3        | 3        | 3   | 3            |         | <b>Shutter, strobe:</b>           | 50      | X    |
|                                      |              |          |          |     |              | 0-31    | Shutter closed                    |         |      |
|                                      |              |          |          |     |              | 32-63   | No function (shutter open)        |         |      |
|                                      |              |          |          |     |              | 64-95   | Strobe effect slow to fast        |         |      |
|                                      |              |          |          |     |              | 96-127  | No function (shutter open)        |         |      |
|                                      |              |          |          |     |              | 128-159 | Pulse-effect in sequences         |         |      |
|                                      |              |          |          |     |              | 160-191 | No function (shutter open)        |         |      |
|                                      |              |          |          |     |              | 192-223 | Random strobe effect slow to fast |         |      |
|                                      |              |          |          |     |              | 224-255 | No function (shutter open)        |         |      |
|                                      |              |          |          | 4   | 4            |         | <b>Cyan:</b>                      | 0       |      |
|                                      |              |          |          |     |              | 0-255   | Cyan (0-100% Cyan)                |         |      |
|                                      |              |          |          |     | 5            |         | <b>Cyan Fine:</b>                 | 0       |      |
|                                      |              |          |          |     |              | 0-255   | Cyan Fine                         |         |      |
|                                      |              |          |          | 5   | 6            |         | <b>Magenta:</b>                   | 0       |      |
|                                      |              |          |          |     |              | 0-255   | Magenta (0-100% Magenta)          |         |      |
|                                      |              |          |          |     | 7            |         | <b>Magenta Fine:</b>              | 0       |      |
|                                      |              |          |          |     |              | 0-255   | Magenta Fine                      |         |      |
|                                      |              |          |          | 6   | 8            |         | <b>Yellow:</b>                    | 0       |      |
|                                      |              |          |          |     |              | 0-255   | Yellow (0-100% Yellow)            |         |      |
|                                      |              |          |          |     | 9            |         | <b>Yellow Fine:</b>               | 0       |      |
|                                      |              |          |          |     |              | 0-255   | Yellow Fine                       |         |      |
|                                      |              | 4        | 4        |     |              |         | <b>Red:</b>                       | 255     |      |
|                                      |              |          |          |     |              | 0-255   | Red (0-100% Red)                  |         |      |
|                                      |              |          | 5        |     |              |         | <b>Red Fine:</b>                  | 255     |      |
|                                      |              |          |          |     |              | 0-255   | Red Fine                          |         |      |
|                                      |              | 5        | 6        |     |              |         | <b>Green:</b>                     | 255     |      |
|                                      |              |          |          |     |              | 0-255   | Green (0-100% Green)              |         |      |
|                                      |              |          | 7        |     |              |         | <b>Green Fine:</b>                | 255     |      |
|                                      |              |          |          |     |              | 0-255   | Green Fine                        |         |      |
|                                      |              | 6        | 8        |     |              |         | <b>Blue:</b>                      | 255     |      |
|                                      |              |          |          |     |              | 0-255   | Blue (0-100% Blue)                |         |      |
|                                      |              |          | 9        |     |              |         | <b>Blue Fine:</b>                 | 255     |      |
|                                      |              |          |          |     |              | 0-255   | Blue Fine                         |         |      |
|                                      |              | 7        | 10       |     |              |         | <b>Mint:</b>                      | 255     |      |
|                                      |              |          |          |     |              | 0-255   | Mint (0-100% Mint)                |         |      |
|                                      |              |          | 11       |     |              |         | <b>Mint Fine:</b>                 | 255     |      |
|                                      |              |          |          |     |              | 0-255   | Mint Fine                         |         |      |
|                                      |              | 8        | 12       |     |              |         | <b>Amber:</b>                     | 255     |      |
|                                      |              |          |          |     |              | 0-255   | Amber(0-100% Amber)               |         |      |
|                                      |              |          | 13       |     |              |         | <b>Amber Fine:</b>                | 255     |      |
|                                      |              |          |          |     |              | 0-255   | Amber Fine                        |         |      |

# RELATION KL FRESNEL 8 FC - DMX CHANNEL FUNCTIONS AND VALUES (1/7/12/19/10/15)

Supports Software Versions: ≥ V1.0.2

| Dimmer | Dimmer Color | Standard | Extended | CMY | CMY Extended | Value     | Function                                 | Default | Snap |
|--------|--------------|----------|----------|-----|--------------|-----------|--|---------|------|
|        | 4            | 9        | 14       | 7   | 10           |           | <b>CTO:</b>                              | 0       |      |
|        |              |          |          |     |              | 0-23      | Open                                     |         |      |
|        |              |          |          |     |              | 24 -85    | CTO 2400K - 8500K (see separate sheet)   |         |      |
|        |              |          |          |     |              | 86-255    | 8500K                                    |         |      |
|        | 5            | 10       | 15       | 8   | 11           |           | <b>Color Wheel:</b>                      | 0       |      |
|        |              |          |          |     |              | 0         | Open                                     |         |      |
|        |              |          |          |     |              | 1-179     | Virtual Swatch Book (see separate sheet) |         |      |
|        |              |          |          |     |              |           | <b>Color Scroll</b>                      |         |      |
|        |              |          |          |     |              | 180-201   | Clockwise,fast→slow                      |         |      |
|        |              |          |          |     |              | 202-207   | Stop                                     |         |      |
|        |              |          |          |     |              | 208-229   | Counter-clockwise,slow→ fast             |         |      |
|        |              |          |          |     |              | 230-234   | Open                                     |         |      |
|        |              |          |          |     |              |           | <b>Random Slots</b>                      |         |      |
|        |              |          |          |     |              | 235-239   | Fast                                     |         |      |
|        |              |          |          |     |              | 240-244   | Medium                                   |         |      |
|        |              |          |          |     |              | 245-249   | Slow                                     |         |      |
|        |              |          |          |     |              | 250 - 255 | Open                                     |         |      |
|        |              |          | 16       |     | 12           |           | <b>Green Shift:</b>                      | 0       |      |
|        |              |          |          |     |              | 0         | Idle                                     |         |      |
|        |              |          |          |     |              | 1-127     | Full Minus Green to Neutral              |         |      |
|        |              |          |          |     |              | 128       | Neutral White                            |         |      |
|        | 6            | 11       | 17       | 9   | 13           |           | <b>Zoom:</b>                             | 127     |      |
|        |              |          |          |     |              | 0 - 255   | Zoom adjustment from small to big        |         |      |
|        |              |          | 18       |     | 14           |           | <b>Dim Modes</b>                         | 0       | X    |
|        |              |          |          |     |              | 0-20      | Standard                                 |         |      |
|        |              |          |          |     |              | 21-40     | Stage                                    |         |      |
|        |              |          |          |     |              | 41-60     | TV                                       |         |      |
|        |              |          |          |     |              | 61-80     | Architectural                            |         |      |
|        |              |          |          |     |              | 81-100    | Theatre                                  |         |      |
|        |              |          |          |     |              | 101- 120  | Stage 2                                  |         |      |
|        |              |          |          |     |              |           | <b>Dimmer Delay Time</b>                 |         |      |
|        |              |          |          |     |              | 121       | 0s                                       |         |      |
|        |              |          |          |     |              | 122       | 0.1s                                     |         |      |
|        |              |          |          |     |              | 123       | 0.2s                                     |         |      |
|        |              |          |          |     |              | 124       | 0.3s                                     |         |      |
|        |              |          |          |     |              | 125       | 0.4s                                     |         |      |
|        |              |          |          |     |              | 126       | 0.5s                                     |         |      |
|        |              |          |          |     |              | 127       | 0.6s                                     |         |      |
|        |              |          |          |     |              | 128       | 0.7s                                     |         |      |
|        |              |          |          |     |              | 129       | 0.8s                                     |         |      |
|        |              |          |          |     |              | 130       | 0.9s                                     |         |      |
|        |              |          |          |     |              | 131       | 1.0s                                     |         |      |
|        |              |          |          |     |              | 132       | 1.5s                                     |         |      |
|        |              |          |          |     |              | 133       | 2.0s                                     |         |      |
|        |              |          |          |     |              | 134       | 3.0s                                     |         |      |
|        |              |          |          |     |              | 135       | 4.0s                                     |         |      |
|        |              |          |          |     |              | 136       | 5.0s                                     |         |      |
|        |              |          |          |     |              | 137       | 6.0s                                     |         |      |
|        |              |          |          |     |              | 138       | 7.0s                                     |         |      |
|        |              |          |          |     |              | 139       | 8.0s                                     |         |      |
|        |              |          |          |     |              | 140       | 9.0s                                     |         |      |
|        |              |          |          |     |              | 141       | 10s                                      |         |      |
|        |              |          |          |     |              | 142 - 255 | Idle                                     |         |      |

# ELATION KL FRESNEL 8 FC - DMX CHANNEL FUNCTIONS AND VALUES (1/7/12/19/10/15)

| Supports Software Versions: ≥ V1.0.2 |              |          |          |     |              |         |                          |         |      |
|--------------------------------------|--------------|----------|----------|-----|--------------|---------|--------------------------|---------|------|
| Dimmer                               | Dimmer Color | Standard | Extended | CMY | CMY Extended | Value   | Function                 | Default | Snap |
|                                      | 7            | 12       | 19       | 10  | 15           |         | <b>Control:</b>          | 0       | X    |
|                                      |              |          |          |     |              | 0-29    | Idle                     |         |      |
|                                      |              |          |          |     |              | 30-39   | Fan Mode Auto            |         |      |
|                                      |              |          |          |     |              | 40-49   | Fan Mode Silent          |         |      |
|                                      |              |          |          |     |              | 50-59   | Fan Mode High            |         |      |
|                                      |              |          |          |     |              | 80-99   | Idle                     |         |      |
|                                      |              |          |          |     |              | 100-168 | <b>Refresh Rate (Hz)</b> |         |      |
|                                      |              |          |          |     |              | 100     | 900                      |         |      |
|                                      |              |          |          |     |              | 101     | 910                      |         |      |
|                                      |              |          |          |     |              | 102     | 920                      |         |      |
|                                      |              |          |          |     |              | 103     | 930                      |         |      |
|                                      |              |          |          |     |              | 104     | 940                      |         |      |
|                                      |              |          |          |     |              | 105     | 950                      |         |      |
|                                      |              |          |          |     |              | 106     | 960                      |         |      |
|                                      |              |          |          |     |              | 107     | 970                      |         |      |
|                                      |              |          |          |     |              | 108     | 980                      |         |      |
|                                      |              |          |          |     |              | 109     | 990                      |         |      |
|                                      |              |          |          |     |              | 110     | 1000                     |         |      |
|                                      |              |          |          |     |              | 111     | 1010                     |         |      |
|                                      |              |          |          |     |              | 112     | 1020                     |         |      |
|                                      |              |          |          |     |              | 113     | 1030                     |         |      |
|                                      |              |          |          |     |              | 114     | 1040                     |         |      |
|                                      |              |          |          |     |              | 115     | 1050                     |         |      |
|                                      |              |          |          |     |              | 116     | 1060                     |         |      |
|                                      |              |          |          |     |              | 117     | 1070                     |         |      |
|                                      |              |          |          |     |              | 118     | 1080                     |         |      |
|                                      |              |          |          |     |              | 119     | 1090                     |         |      |
|                                      |              |          |          |     |              | 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                     |         |      |

# ELATION KL FRESNEL 8 FC - DMX CHANNEL FUNCTIONS AND VALUES (1/7/12/19/10/15)

| Supports Software Versions: ≥ V1.0.2 |              |          |          |     |              |         |                               |         |      |
|--------------------------------------|--------------|----------|----------|-----|--------------|---------|-------------------------------|---------|------|
| Dimmer                               | Dimmer Color | Standard | Extended | CMY | CMY Extended | Value   | Function                      | Default | Snap |
|                                      | 7            | 12       | 19       | 10  | 15           | 134     | 1240                          | 0       | X    |
|                                      |              |          |          |     |              | 135     | 1250                          |         |      |
|                                      |              |          |          |     |              | 136     | 1260                          |         |      |
|                                      |              |          |          |     |              | 137     | 1270                          |         |      |
|                                      |              |          |          |     |              | 138     | 1280                          |         |      |
|                                      |              |          |          |     |              | 139     | 1290                          |         |      |
|                                      |              |          |          |     |              | 140     | 1300                          |         |      |
|                                      |              |          |          |     |              | 141     | 1310                          |         |      |
|                                      |              |          |          |     |              | 142     | 1320                          |         |      |
|                                      |              |          |          |     |              | 143     | 1330                          |         |      |
|                                      |              |          |          |     |              | 144     | 1340                          |         |      |
|                                      |              |          |          |     |              | 145     | 1350                          |         |      |
|                                      |              |          |          |     |              | 146     | 1360                          |         |      |
|                                      |              |          |          |     |              | 147     | 1370                          |         |      |
|                                      |              |          |          |     |              | 148     | 1380                          |         |      |
|                                      |              |          |          |     |              | 149     | 1390                          |         |      |
|                                      |              |          |          |     |              | 150     | 1400                          |         |      |
|                                      |              |          |          |     |              | 151     | 1410                          |         |      |
|                                      |              |          |          |     |              | 152     | 1420                          |         |      |
|                                      |              |          |          |     |              | 153     | 1430                          |         |      |
|                                      |              |          |          |     |              | 154     | 1440                          |         |      |
|                                      |              |          |          |     |              | 155     | 1450                          |         |      |
|                                      |              |          |          |     |              | 156     | 1460                          |         |      |
|                                      |              |          |          |     |              | 157     | 1470                          |         |      |
|                                      |              |          |          |     |              | 158     | 1480                          |         |      |
|                                      |              |          |          |     |              | 159     | 1490                          |         |      |
|                                      |              |          |          |     |              | 160     | 1500                          |         |      |
|                                      |              |          |          |     |              | 161     | 2500                          |         |      |
|                                      |              |          |          |     |              | 162     | 4000                          |         |      |
|                                      |              |          |          |     |              | 163     | 5000                          |         |      |
|                                      |              |          |          |     |              | 164     | 6000                          |         |      |
|                                      |              |          |          |     |              | 165     | 10000                         |         |      |
|                                      |              |          |          |     |              | 166     | 15000                         |         |      |
|                                      |              |          |          |     |              | 167     | 20000                         |         |      |
|                                      |              |          |          |     |              | 168     | 25000                         |         |      |
|                                      |              |          |          |     |              | 169-200 | Idle                          |         |      |
|                                      |              |          |          |     |              | 201-210 | Dimmer Curve Linear (default) |         |      |
|                                      |              |          |          |     |              | 211-220 | Dimmer Curve Square           |         |      |
|                                      |              |          |          |     |              | 221-230 | Dimmer Curve Inverse Square   |         |      |
|                                      |              |          |          |     |              | 231-240 | Dimmer Curve S-Curve          |         |      |
|                                      |              |          |          |     |              | 241-255 | Idle                          |         |      |

## ELATION KL FRESNEL 8 FC - COLORS

| Colors  | Color Temperature | Green Shift                 |
|---------|-------------------|-----------------------------|
| Cyan    | 2700K – 8500K     | Full Minus Green to Neutral |
| Magenta |                   |                             |
| Yellow  |                   |                             |
| Red     |                   | Neutral White               |
| Green   |                   |                             |
| Blue    |                   | Neutral to Full Plus Green  |
| Mint    |                   |                             |
| Amber   |                   |                             |

## ELATION KL FRESNEL 8 FC - VIRTUAL GEL SWATCH BOOK COLOR

|    |     |                   |        |     |                   |
|----|-----|-------------------|--------|-----|-------------------|
| 1  | 7   | pale yellow       | 28     | 113 | magenta           |
| 2  | 103 | straw             | 29     | 46  | dark magenta      |
| 3  | 151 | gold tint         | 30     | 48  | rose purple       |
| 4  | 100 | spring yellow     | 31     | 126 | mauve             |
| 5  | 10  | medium yellow     | 32     | 49  | medium purple     |
| 6  | 101 | yellow            | 33     | 58  | lavender          |
| 7  | 104 | deep amber        | 34     | 199 | palace blue       |
| 8  | 15  | deep straw        | 35     | 119 | dark blue         |
| 9  | 179 | loving amber      | 36     | 132 | medium blue       |
| 10 | 21  | gold amber        | 37     | 120 | deep blue         |
| 11 | 105 | orange            | 38     | 165 | daylight blue     |
| 12 | 158 | deep orange       | 39     | 161 | slate blue        |
| 13 | 22  | dark amber        | 40     | 118 | light blue        |
| 14 | 778 | millennium gold   | 41     | 68  | sky blue          |
| 15 | 135 | deep golden amber | 42     | 143 | pale navy blue    |
| 16 | 24  | scarlet           | 43     | 131 | marine blue       |
| 17 | 106 | primary red       | 44     | 115 | peacock blue      |
| 18 | 26  | bright red        | 45     | 172 | lagoon blue       |
| 19 | 27  | medium red        | 46     | 116 | medium blue green |
| 20 | 19  | fire              | 47     | 90  | dark yellow green |
| 21 | 157 | pink              | 48     | 139 | primary green     |
| 22 | 36  | medium pink       | 49     | 122 | fern green        |
| 23 | 111 | dark pink         | 50     | 89  | moss green        |
| 24 | 128 | bright pink       | 51     | 124 | dark green        |
| 25 | 148 | bright rose       | 52     | 88  | lime green        |
| 26 | 332 | special rose pink | 53     | 138 | pale green        |
| 27 | 793 | vanity fair       | 54-179 |     | No function       |



## ELATION KL FRESNEL 8 FC - COLORS TEMPERATURE

| Value | Color Temperature | Value | Color Temperature |
|-------|-------------------|-------|-------------------|
| 24    | 2400              | 55    | 5500              |
| 25    | 2500              | 56    | 5600              |
| 26    | 2600              | 57    | 5700              |
| 27    | 2700              | 58    | 5800              |
| 28    | 2800              | 59    | 5900              |
| 29    | 2900              | 60    | 6000              |
| 30    | 3000              | 61    | 6100              |
| 31    | 3100              | 62    | 6200              |
| 32    | 3200              | 63    | 6300              |
| 33    | 3300              | 64    | 6400              |
| 34    | 3400              | 65    | 6500              |
| 35    | 3500              | 66    | 6600              |
| 36    | 3600              | 67    | 6700              |
| 37    | 3700              | 68    | 6800              |
| 38    | 3800              | 69    | 6900              |
| 39    | 3900              | 70    | 7000              |
| 40    | 4000              | 71    | 7100              |
| 41    | 4100              | 72    | 7200              |
| 42    | 4200              | 73    | 7300              |
| 43    | 4300              | 74    | 7400              |
| 44    | 4400              | 75    | 7500              |
| 45    | 4500              | 76    | 7600              |
| 46    | 4600              | 77    | 7700              |
| 47    | 4700              | 78    | 7800              |
| 48    | 4800              | 79    | 7900              |
| 49    | 4900              | 80    | 8000              |
| 50    | 5000              | 81    | 8100              |
| 51    | 5100              | 82    | 8200              |
| 52    | 5200              | 83    | 8300              |
| 53    | 5300              | 84    | 8400              |
| 54    | 5400              | 85    | 8500              |

# SPECIFICATIONS

## SOURCE

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

18,000+ Total Lumen Output

CRI 92

TLCI 95

Zoom Range 10° - 50°

Beam Angle 10.5° - 49.9°

Field Angle 21° - 66.6°

## EFFECTS

Motorized 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 19 channels)

Manual and DMX Controlled Dimmer, Color and Zoom

Dual Rotary Dials

4 Button Control Panel, LED Display

RDM (Remote Device Management)

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

## SIZE / WEIGHT

Length: 15.1" (382.5mm)

Width: 12.9" (326.5mm)

Vertical Height: 17.9" (455mm)

Weight: 23.15 lbs. (10.5kg)

## ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz

514W Max Power Consumption

5°F to 113°F (-15°C to 45°C)

BTU/hr (+/- 10%) 1752.74

## INCLUDED ITEMS

Gel Frame and Rotating 8-leaf Barn Doors

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

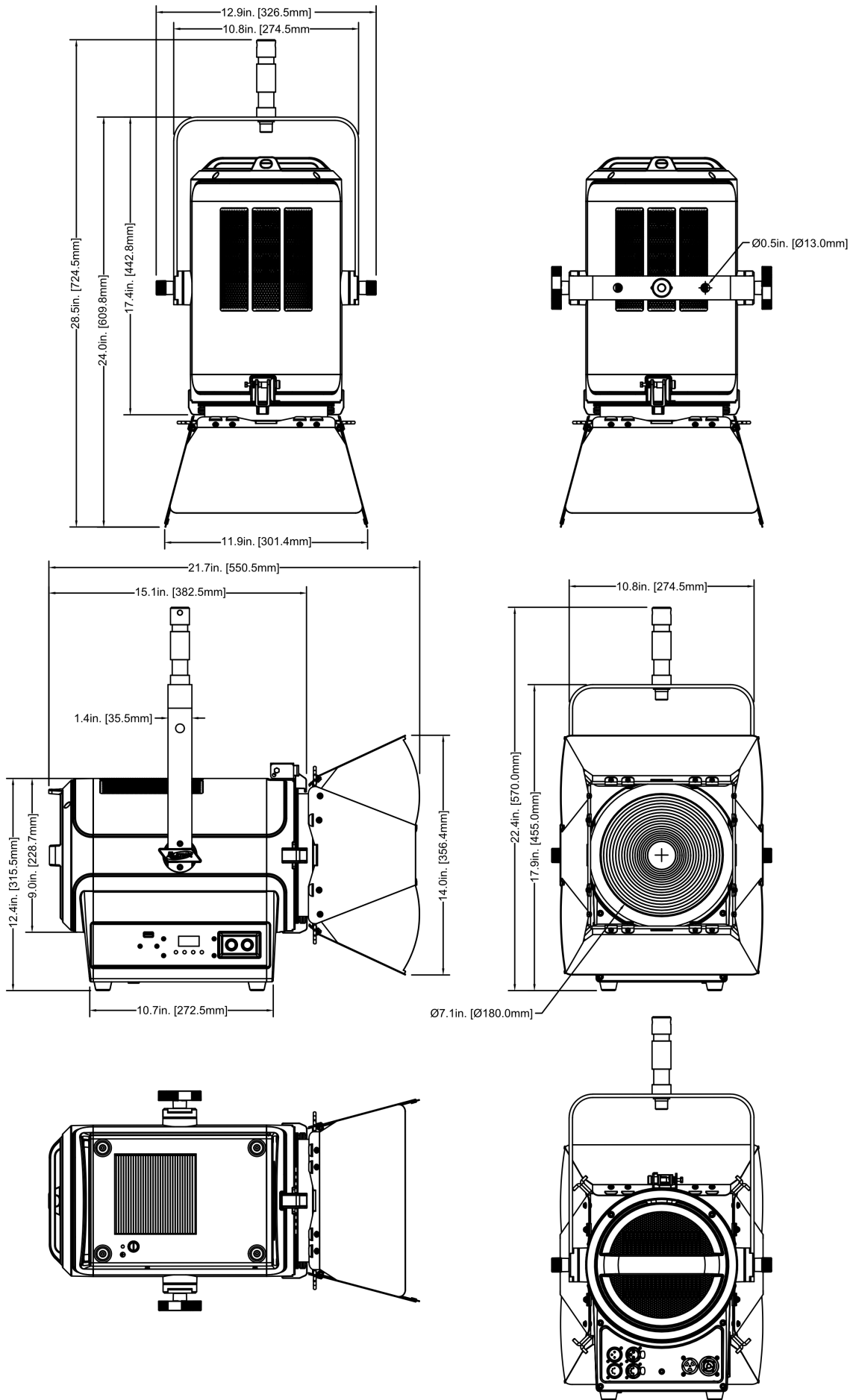
IP65 Locking Power Cable

## APPROVALS / RATINGS

(pending) CE | cETLus | IP30

Specifications and documentation subject to change without notice.

## DIMENSIONS



## OPTIONAL ACCESSORIES

| SKU NUMBER    | DESCRIPTION                                   |
|---------------|---|
| SIP139        | IP65 Rated Twist Lock Power Cable, 10ft (3m)* |
| AC5PDMX3PRO   | 5-pin Pro DMX Cable, 3 ft (0.9m)*             |
| 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.





