# CHORUS LINE 8™

## user manual

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# DOCUMENT VERSION

**Due to additional product features and/or enhancements, an updated version of this document may be available online. Please scan the QR Code with your mobile device or visit www.elationlighting.com for the latest revision/update of this manual before installation and/or programming.**

| Date | Document Version | Software Version ≥ | DMX Channel Modes | Notes |
|------|------------------|--------------------|-------------------|-------|
| 10/19/17 | 1 | 1.02 | 16 / 18 / 46 | Initial release. |
| 01/26/18 | 1.2 | 1.03 | NO CHANGE | Added sACN, Pixel Flip, Art-Net/Kling-Net dual control. |
| 07/25/18 | 1.4 | 1.08 | NO CHANGE | Updated manual format. |
| 06/25/20 | 1.6 | N/C | NO CHANGE | Updated thermal |
| 10/16/20 | 1.8 | N/C | NO CHANGE | Updated specifications |
| 05/24/21 | 2.0 | 1.09 | NO CHANGE | Updated Software |
| 08/26/21 | 2.2 | 1.12 | NO CHANGE | Updated Software |

# C O N T E N T S

# GENERAL INFORMATION

## INTRODUCTION

This fixture has been designed to perform reliably for years when the information in this manual are followed. Please read and understand all the instructions and guidelines carefully and thoroughly before operating this unit. This manual contains important information regarding safety, installation, use, and maintenance.

## UNPACKING

Each fixture has been thoroughly tested and shipped in perfect operating condition. Carefully check the outer shipping carton for signs of any damage that may have occurred during shipping. If the outer carton appears to be damaged, carefully inspect the fixture for damage and be sure all included accessories have arrived intact. In the event damage has been found and/or parts are missing, please contact our customer support team for further instructions. Please do NOT return this fixture to your dealer without first contacting customer support at the number listed below. Please do NOT discard the outer shipping carton in the trash. Please recycle whenever possible.

## CUSTOMER SUPPORT

Elation Professional provides a customer support line to provide set up help and answer any set up or operation questions. You may also visit us on the web at www.elationlighting.com for any comments or suggestions. For service related issue please contact Elation Professional.

**ELATION SERVICE USA - Monday - Friday 8:00am to 5:00pm PST**

**Voice: 323-582-3322**                              **Fax: 323-832-9142**
E-mail: support@elationlighting.com

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

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## WARRANTY REGISTRATION / RETURNS

Please register online: http://www.elationlighting.com/Login.aspx to validate your purchase. 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.

# 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 whatsoever for loss and/or 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.

# 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!**

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

# 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.

# M A I N T E N A N C E   G U I D E L I N E S

⚠ **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 review 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. Lose 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.

# FIXTURE OVERVIEW
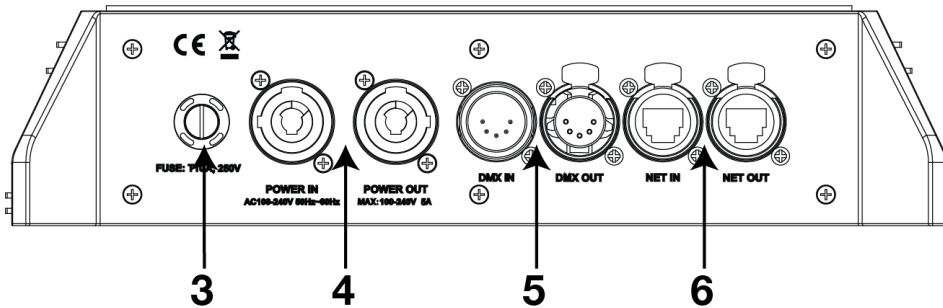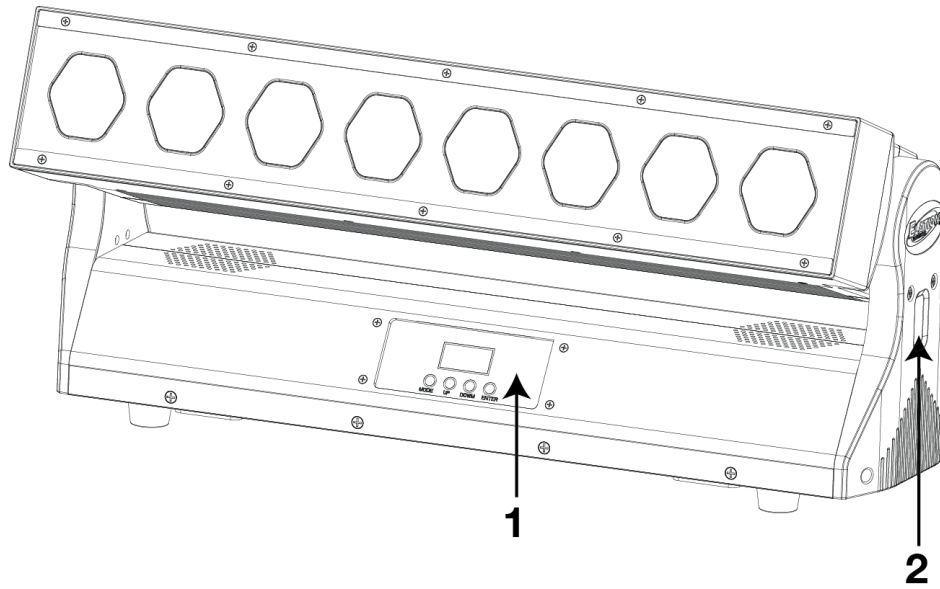
1. LCD Menu Display, MENU, UP, DOWN, ENTER Buttons

2. Tilt Lock

3. Fuse

4. Power IN/OUT

5. 5pin DMX IN/OUT

6. RJ45 Ethernet IN/OUT

## INCLUDED ITEMS

Replacement Lens Covers (x2)
Omega Brackets (x2)
Power Cable

# 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 **15° to 113°F. (-15° 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 can hold 10 times the weight of the fixture.

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

# INSTALLATION INSTRUCTIONS

**CLAMP MOUNTING**

The fixture can be placed on the flat surface or truss mounted. When mounting this fixture to truss be sure to secure (2) appropriately rated clamps (not included) to the **(2) Omega Brackets (included)** Be sure to attach the **Safety Cable (included)** to the fixture using the safety cable rigging points integrated into the bottom of the fixture. (See image below)

## SAFETY CABLE RIGGING POINT
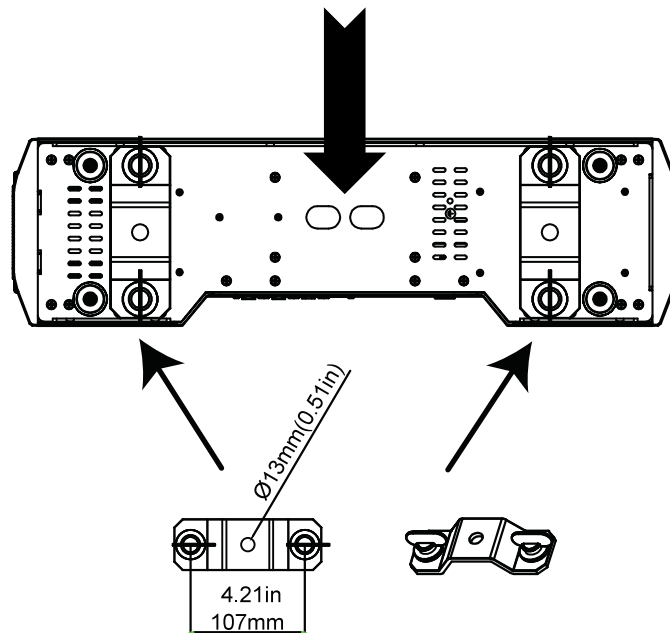


**SAFETY CABLE**

The fixture includes an integrated safety cable rigging point. (see image below)

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

# INSTALLATION INSTRUCTIONS

## OVERHEAD 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 your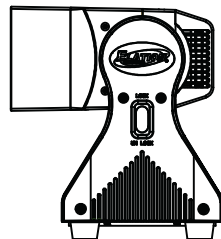self. Improper installation can result in bodily injury and property damage. Fixture is fully operational in the specific mounting positions illustrated below.
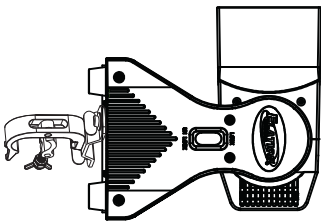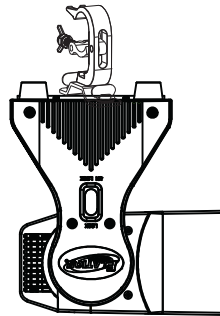
## POWER LINKING

⚠ **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 AMX AMPS.**

## KLING-NET / ART-NET CONNECTION

When connecting fixture to a network switch to control multiple devices, a **Gigabit Ethernet Switch** that supports **IGMP (Internet Group Management Protocol)** is required. Using a **Gigabit Ethernet Switch** that does not support **IGMP** can cause erratic behavior of all connected devices to the switch. Click link below for more information about IGMP.
https://en.wikipedia.org/wiki/Internet_Group_Management_Protocol

# SYSTEM MENU

The fixture comes with an easy to navigate system menu. The control panel (see image below) located on the back 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/ESC** button.
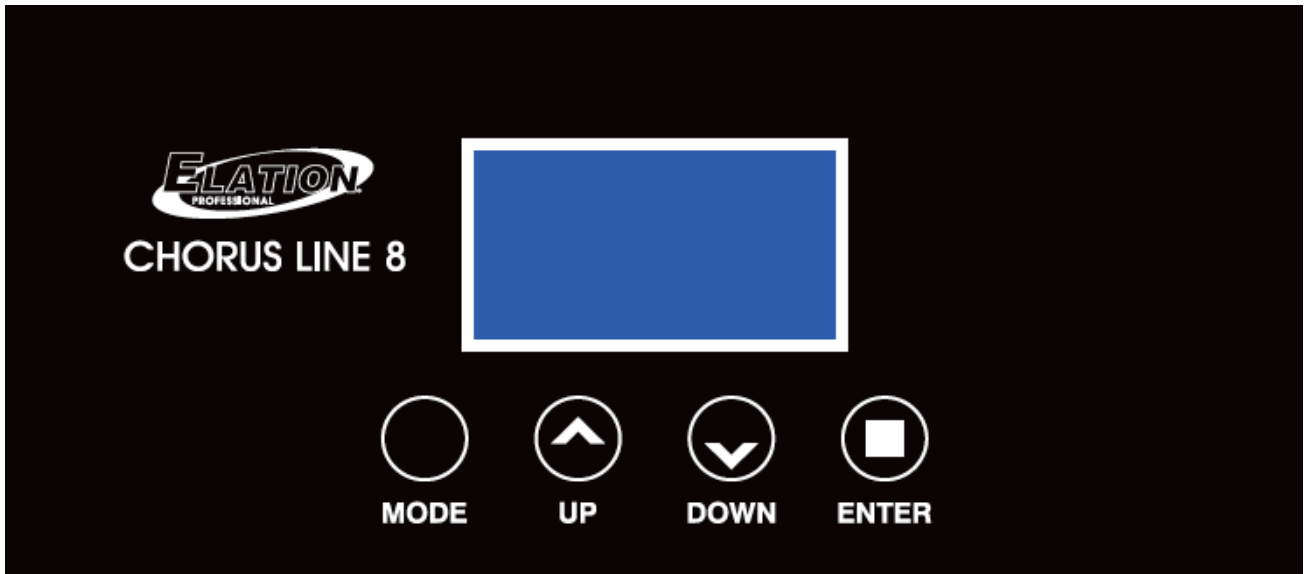


**LCD CONTROL PANEL LOCKOUT**

When the **Key Lock** menu is set to **ON**, the LCD display will turn OFF after 30 seconds and the (4) button Control Panel will be LOCKED. To unlock the (4) button LCD control panel, press and hold the **MODE** button.

**INFORMATION DISPLAYED DURING INITIAL POWER ON**

When the fixture is initially powered ON, the display shows the following information:

| Update Wait... | → | Chorus8 Reset... |
|---|---|---|

# SYSTEM MENU

Features are subject to change without any prior written notice.

| MAIN MENU | SUB MENU | OPTIONS / VALUES (Default Settings in **BOLD**) | | DESCRIPTION |
|---|---|---|---|---|
| Address | Set DMX Address | **001** ~ XXX | | DMX Address Setting |
| UserMode | **Standard** | 18CH (16bit) | | Set DMX Channel Mode |
| | Basic | 16CH (8bit) | | |
| | Extend | 46CH | | |
| Function | Status | Lost DMX | Close/**Hold**/Auto. Pro | Function If NO DMX Detected |
| | | Tilt. Inv | ON / **OFF** | Tilt Reverse Movement |
| | | Feedback | **ON**/OFF | Movement Feedback |
| | | Move. Spd | Speed **1** ~ 4 | Movement Mode Select |
| | | Hibernat | OFF, 01M~99M, **15M** | Hibernate Mode |
| | Fan. Set* | Head Fan | **Auto**, High, Silent* | Fan Speed Set |
| | Net ID | Password | Password=xxx | Password=**050** |
| | | DeviceIP | xxx.xxx.xxx.xxx | |
| | | Mark Addr | xxx.xxx.xxx.xxx | |
| | | Universe | 000-255 | |
| | Protocol | **ArtNet**, SACN | | Set Network Protocol |
| | KlingNet | **Enable** / Disable | | Enable KlingNet Protocol |
| | Net | **ON** / OFF | | Activate NET OUT Port. |
| | LCD. Set | Backlight | 02~60m **05m** | LCD Backlight Shut Off Time |
| | | FlipDisplay | ON / **OFF** | Flip/Reverse LCD Display 180º |
| | | Key Lock | ON / **OFF** | Control Front Panel Buttons Key Lock |
| | | Flash | **ON** / OFF | Display flashes when NO DMX |
| | Temp. C/F | **Fahrenheit**/Celsius | | Temperature Switch Between F°/ C° |
| | Disp. Set | ADDR | TILT… | Value of each Channel Displayed |
| | | Disp. CH | | |
| | | Secondary | **Secondary 1**, Secondary 2, Secondary 3 | Set Secondary Mode Preset |
| | | Auto.Pro | **Alone**, Primary | Set Auto Program Mode |
| | DimCurve | **Standard**, Stage, TV, Architectural, Theatre, Stage2, 0-10s (Default 0.1s) | | Set Dimmer Curve Mode |
| | Frequen | 900/1000/1100/**1200**/1300/1400/1500/2500/ 4000/5000/10k/15k/20k/25k | | |
| | Pixel | **Standard**, Flip | | Set Pixel Flip Mode |
| | DFSE | ON / **OFF** | | Restore Factory Settings |
| Information | Time. Info | Current | XXXX (Hours) | Fixture Run Time From Power ON |
| | | Total | XXXX (Hours) | Fixture Total Run Time |
| | | Last | XXXX (Hours) | Clear Fixture Last Run Time |
| | | Password Clear/Clear-TO | Password=**050** | Password to clear last fixture run time |
| | | | Password=**060** | Password to clear total run time |
| | | | ON / **OFF** | Reset Fixture Last Run Time |
| | TempInfo | LED Temp. | XXX **F**° / C° | Temperature in Fixture Head |
| | Err. Info | Tilt….. | | Display 10 Recent Error Messages |
| | ModelInfo | Chorus Line 8 | | Display Model Name |
| | Software Version | 1U01 – 5U01 | ≥V1.12 | Software Versions |
| Test | Reset. M | All | | |
| | Test. Ch | Tilt … | | |
| | ManCtrl | Tilt=XXXX : | | |
| | Calibrat | Password Tilt, Red1, Green1, Blue1, White1…Red8, Green8, Blue8, White8, Zoom1, Zoom2 | | Password=**050** |

*FAN SET -> SILENT: In this mode, the power output drops from 330W to 160w, and slows both the zoom and tilt-speed.

# DMX CHANNEL FUNCTIONS AND VALUES

| MODE / CHANNEL | | | VALUE | FUNCTION | DEFAULT | SNAP |
|---|---|---|---|---|---|---|
| BASIC CH: 16 | STANDARD CH: 18 | EXTEND CH: 46 | | **Supports Software Versions: ≥ V1.12**<br>Features are subject to change without any prior written notice.<br>*Direction of effects and Pixel Control depends on orientation of the fixture head and Tilt/Pixel Flip settings. | | |
| 1 | 1 | 1 | | TILT Movement 8bit | | |
| | | | 0-255 | TILT Movement | | |
| | 2 | 2 | | Tilt Fine 16bit | | |
| | | | 0-255 | Fine Control of TILT Movement | | |
| 2 | 3 | 3 | | Red | | |
| | | | 0-255 | 0 → 100% | | |
| 3 | 4 | 4 | | Green | | |
| | | | 0-255 | 0 → 100% | | |
| 4 | 5 | 5 | | Blue | | |
| | | | 0-255 | 0 → 100% | | |
| 5 | 6 | 6 | | ALL AMBR | | |
| | | | 0-255 | 0 → 100% | | |
| | | 7 | | Red 2 | | |
| | | | 0-255 | 0 → 100% | | |
| | | 8 | | Green 2 | | |
| | | | 0-255 | 0 → 100% | | |
| | | 9 | | Blue 2 | | |
| | | | 0-255 | 0 → 100% | | |
| | | 10 | | White 2 | | |
| | | | 0-255 | 0 → 100% | | |
| | | 11 | | Red 3 | | |
| | | | 0-255 | 0 → 100% | | |
| | | 12 | | Green 3 | | |
| | | | 0-255 | 0 → 100% | | |
| | | 13 | | Blue 3 | | |
| | | | 0-255 | 0 → 100% | | |
| | | 14 | | White 3 | | |
| | | | 0-255 | 0 → 100% | | |
| | | 15 | | Red 4 | | |
| | | | 0-255 | 0 → 100% | | |
| | | 16 | | Green 4 | | |
| | | | 0-255 | 0 → 100% | | |
| | | 17 | | Blue 4 | | |
| | | | 0-255 | 0 → 100% | | |
| | | 18 | | White 4 | | |
| | | | 0-255 | 0 → 100% | | |

| MODE / CHANNEL | | | VALUE | FUNCTION | | DEFAULT | SNAP |
|---|---|---|---|---|---|---|---|
| BASIC CH: 16 | STANDARD CH: 18 | EXTEND CH: 46 | | | | | |
| | | 19 | | Red 5 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 20 | | Green 5 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 21 | | Blue 5 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 22 | | White 5 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 23 | | Red 6 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 24 | | Green 6 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 25 | | Blue 6 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 26 | | White 6 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 27 | | Red 7 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 28 | | Green 7 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 29 | | Blue 7 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 30 | | White 7 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 31 | | Red 8 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 32 | | Green 8 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 33 | | Blue 8 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | | 34 | | Blue 8 | | | |
| | | | 0-255 | 0 → 100% | | | |
| | 7 | 35 | | CTO | | | |
| | | | 0-23 | Open | | | |
| | | | 24-255 | CTO 2700K – 7000K | | | |
| 6 | 8 | 36 | | Color Macros | | | |
| | | | 0-255 | See Macro Chart | | | |

**Supports Software Versions: ≥ V1.12**

Features are subject to change without any prior written notice.
*Direction of effects and Pixel Control depends on orientation of the fixture head and Tilt/Pixel Flip settings.

Features are subject to change without any prior written notice.

*Direction of effects and Pixel Control depends on orientation of the fixture head and Tilt/Pixel Flip settings.

| MODE / CHANNEL | | | VALUE | FUNCTION | DEFAULT | SNAP |
|---|---|---|---|---|---|---|
| BASIC CH: 16 | STANDARD CH: 18 | EXTEND CH: 46 | | | | |
| 7 | 9 | 37 | | Strobe | | |
| | | | 0-31 | Closed | | |
| | | | 32-63 | Open | | |
| | | | 64-95 | Strobe (slow → fast) | | |
| | | | 96-127 | Open | | |
| | | | 128-159 | Pulse (slow → fast) | | |
| | | | 160-191 | Open | | |
| | | | 192-223 | Random (slow → fast) | | |
| | | | 224-255 | Open | | |
| 8 | 10 | 38 | | Master Intensity | | |
| | | | 0-255 | Close → Open | | |
| 9 | 11 | 39 | | Master Intensity Fine | | |
| | | | 0-255 | Close → Open | | |
| 10 | 12 | 40 | | Zoom | | |
| | | | 0-255 | Zoom Min to Max | | |
| 11 | 13 | 41 | | Auto Programs | | |
| | | | 0 | Idle | | |
| | | | 1-14 | Off | | |
| | | | 15-30 | Program 1 | | |
| | | | 31-46 | Program 2 | | |
| | | | 47-62 | Program 3 | | |
| | | | 63-78 | Program 4 | | |
| | | | 79-94 | Program 5 | | |
| | | | 95-110 | Program 6 | | |
| | | | 111-126 | Program 7 | | |
| | | | 127-142 | Program 8 | | |
| | | | 143-158 | Program 9 | | |
| | | | 159-174 | Program 10 | | |
| | | | 175-190 | Program 11 | | |
| | | | 191-206 | Program 12 | | |
| | | | 207-222 | Program 13 | | |
| | | | 223-238 | Program 14 | | |
| | | | 293-255 | Program 15 | | |
| 12 | 14 | 42 | | Program Speed | 128 | |
| | | | 0-255 | Speed (slow → fast) | | |
| 13 | 15 | 43 | | Program Fade | 128 | |
| | | | 0-255 | Face (slow → fast) | | |

Features are subject to change without any prior written notice.
*Direction of effects and Pixel Control depends on orientation of the fixture head and Tilt/Pixel Flip settings.

| MODE / CHANNEL | | | VALUE | FUNCTION | DEFAULT | SNAP |
|---|---|---|---|---|---|---|
| BASIC CH: 16 | STANDARD CH: 18 | EXTEND CH: 46 | | | | |
| 14 | 16 | 44 | | Dim Modes | 0 | X |
| | | | 0 - 20 | Standard | | |
| | | | 21 - 40 | Stage | | |
| | | | 41 - 60 | TV | | |
| | | | 61- 80 | Archictural | | |
| | | | 81- 100 | Theatre | | |
| | | | 101- 120 | Stage 2 | | |
| | | | | **Dimmer Delay Time** | | |
| | | | 121 | 0s | | |
| | | | 122 | 0.1s (default) | | |
| | | | 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 | Default | | |
| | | | 0 - 20 | Standard | | |
| | | | 21 - 40 | Stage | | |
| | | 27 | | Pan / Tilt Speed | | |
| | | | 0-225 | Max to min speed | | |
| | | | 226-235 | Blackout by movement | | |
| | | | 236-255 | No function | | |

18

| MODE / CHANNEL | | | VALUE | FUNCTION | DEFAULT | SNAP |
|---|---|---|---|---|---|---|
| BASIC CH: 16 | STANDARD CH: 18 | EXTEND CH: 46 | | | | |
| | | | | Control | | |
| | | | 0 -5 | Idle | | |
| | | | 6-10 | Reset | | |
| | | | 11-15 | Fan Mode Auto | | |
| | | | 16-20 | Fan Mode High | | |
| | | | 21-25 | Fan Mode Silent | | |
| | | | 25-29 | Program 1 | | |
| | | | 30-34 | Program 2 | | |
| | | | 35-39 | Program 3 | | |
| | | | 40-44 | Program 4 | | |
| | | | 45-49 | Program 5 | | |
| | | | 50-54 | Program 6 | | |
| | | | 55-59 | Program 7 | | |
| | | | 60-64 | Program 8 | | |
| | | | 65-69 | Program 9 | | |
| | | | 70-74 | Program 10 | | |
| | | | 75-79 | Program 11 | | |
| | | | 80-100 | Program 12 | | |
| | | | | **Change Refresh Rate (Hz)** | | |
| | | | 101 - 105 | 900 | | |
| 16 | 18 | 46 | 106 - 110 | 1000 | 0 | X |
| | | | 111 - 115 | 1100 | | |
| | | | 116 - 120 | 1200 | | |
| | | | 121 - 125 | 1300 | | |
| | | | 126 - 130 | 1400 | | |
| | | | 131 - 135 | 1500 | | |
| | | | 136 - 140 | 2500 | | |
| | | | 141 - 145 | 4000 | | |
| | | | 146 - 150 | 5000 | | |
| | | | 151 - 155 | 10000 | | |
| | | | 156 - 160 | 15000 | | |
| | | | 161 - 165 | 20000 | | |
| | | | 166 - 170 | 25000 | | |
| | | | 171-200 | Idle | | |
| | | | | **Dimmer Curves** | | |
| | | | 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 | | |
| | | | 0 -5 | Idle | | |

Supports Software Versions: ≥ V1.12

Features are subject to change without any prior written notice.

*Direction of effects and Pixel Control depends on orientation of the fixture head and Tilt/Pixel Flip settings.

19

# COLOR MACRO CHART

| DMX Values | Red | Green | Blue | W |
|---|---|---|---|---|
| VALUES 1-4 | 80 | 255 | 234 | 80 |
| DMX VALUES 5-8 | 80 | 255 | 164 | 80 |
| DMX VALUES 9-12 | 77 | 255 | 112 | 77 |
| DMX VALUES 13-16 | 117 | 255 | 83 | 83 |
| DMX VALUES 17-20 | 160 | 255 | 77 | 77 |
| DMX VALUES 21-24 | 223 | 255 | 83 | 83 |
| DMX VALUES 25-28 | 255 | 243 | 77 | 77 |
| DMX VALUES 29-32 | 255 | 200 | 74 | 74 |
| DMX VALUES 33-36 | 255 | 166 | 77 | 77 |
| DMX VALUES 37-40 | 255 | 125 | 74 | 74 |
| DMX VALUES 41-44 | 255 | 97 | 77 | 74 |
| DMX VALUES 45-48 | 255 | 71 | 77 | 71 |
| DMX VALUES 49-52 | 255 | 83 | 134 | 83 |
| DMX VALUES 53-56 | 255 | 93 | 182 | 93 |
| DMX VALUES 57-60 | 255 | 96 | 236 | 96 |
| DMX VALUES 61-64 | 238 | 93 | 255 | 93 |
| DMX VALUES 65-68 | 196 | 87 | 255 | 87 |
| DMX VALUES 69-72 | 150 | 90 | 255 | 90 |
| DMX VALUES 73-76 | 100 | 77 | 255 | 77 |
| DMX VALUES 77-80 | 77 | 100 | 255 | 77 |
| DMX VALUES 81-84 | 67 | 148 | 255 | 67 |
| DMX VALUES 85-88 | 77 | 195 | 255 | 77 |
| DMX VALUES 89-92 | 77 | 234 | 255 | 77 |
| DMX VALUES 93-96 | 158 | 255 | 144 | 144 |
| DMX VALUES 97-100 | 255 | 251 | 153 | 153 |
| DMX VALUES 101-104 | 255 | 175 | 147 | 147 |
| DMX VALUES 105-108 | 255 | 138 | 186 | 138 |
| DMX VALUES 109-112 | 255 | 147 | 251 | 147 |
| DMX VALUES 113-116 | 151 | 138 | 255 | 138 |
| DMX VALUES 117-120 | 151 | 138 | 255 | 138 |
| DMX VALUES 121-124 | 138 | 169 | 255 | 138 |
| DMX VALUES 125-128 | 255 | 255 | 255 | 255 |
| DMX VALUES 129-132 | 255 | 206 | 143 | 0 |
| DMX VALUES 133-136 | 254 | 177 | 153 | 0 |
| DMX VALUES 137-140 | 254 | 192 | 138 | 0 |
| DMX VALUES 141-144 | 254 | 165 | 98 | 0 |
| DMX VALUES 145-148 | 254 | 121 | 0 | 0 |
| DMX VALUES 149-152 | 176 | 17 | 0 | 0 |
| DMX VALUES 153-156 | 96 | 0 | 11 | 0 |
| DMX VALUES 157-160 | 234 | 139 | 171 | 0 |
| DMX VALUES 161-164 | 224 | 5 | 97 | 0 |
| DMX VALUES 165-168 | 175 | 77 | 173 | 0 |
| DMX VALUES 169-172 | 119 | 130 | 199 | 0 |
| DMX VALUES 173-176 | 147 | 164 | 212 | 0 |
| DMX VALUES 177-180 | 88 | 2 | 163 | 0 |
| DMX VALUES 181-184 | 0 | 38 | 86 | 0 |
| DMX VALUES 185-188 | 0 | 142 | 208 | 0 |
| DMX VALUES 189-192 | 52 | 148 | 209 | 0 |
| DMX VALUES 193-196 | 1 | 134 | 201 | 0 |
| DMX VALUES 197-200 | 0 | 145 | 212 | 0 |
| DMX VALUES 201-204 | 255 | 0 | 0 | 0 |
| DMX VALUES 205-208 | 0 | 255 | 0 | 0 |
| DMX VALUES 209-212 | 0 | 83 | 115 | 0 |
| DMX VALUES 213-216 | 0 | 97 | 166 | 0 |
| DMX VALUES 217-220 | 1 | 100 | 167 | 0 |
| DMX VALUES 221-224 | 0 | 40 | 86 | 0 |
| DMX VALUES 225-228 | 209 | 219 | 182 | 0 |
| DMX VALUES 229-232 | 42 | 165 | 85 | 0 |
| DMX VALUES 233-236 | 0 | 46 | 35 | 0 |
| DMX VALUES 237-240 | 8 | 107 | 222 | 0 |
| DMX VALUES 241-244 | 107 | 156 | 231 | 0 |
| DMX VALUES 245-248 | 165 | 198 | 247 | 0 |
| DMX VALUES 249-252 | 0 | 0 | 255 | 0 |
| DMX VALUES 253-255 | 0 | 0 | 0 | 255 |

# PIXEL CONTROL

The fixture features pixel control in Extended DMX channel mode.
See diagram below, which illustrates the specific pixel mapping order.

# STANDARD
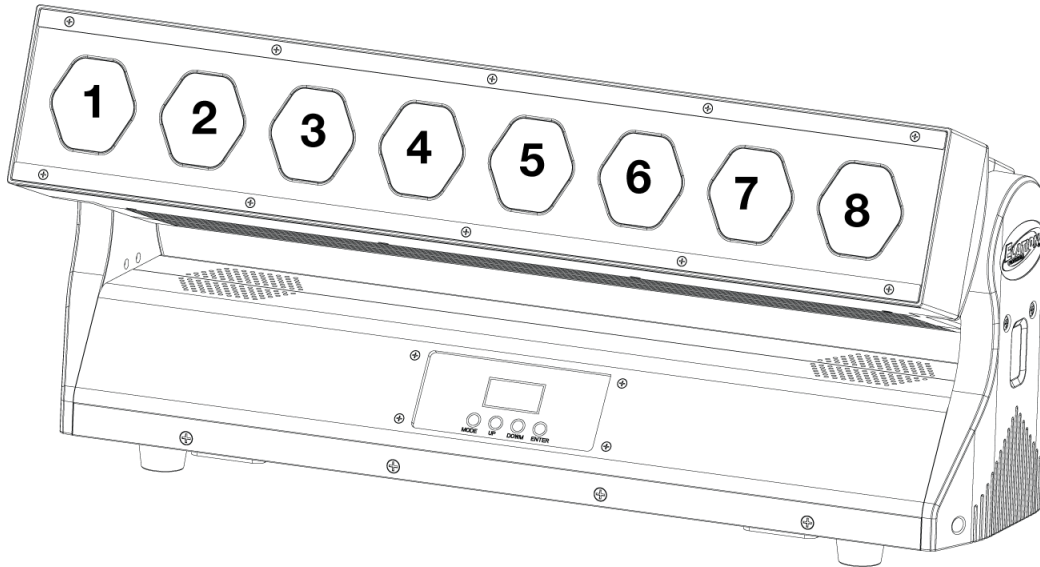


# FLIP
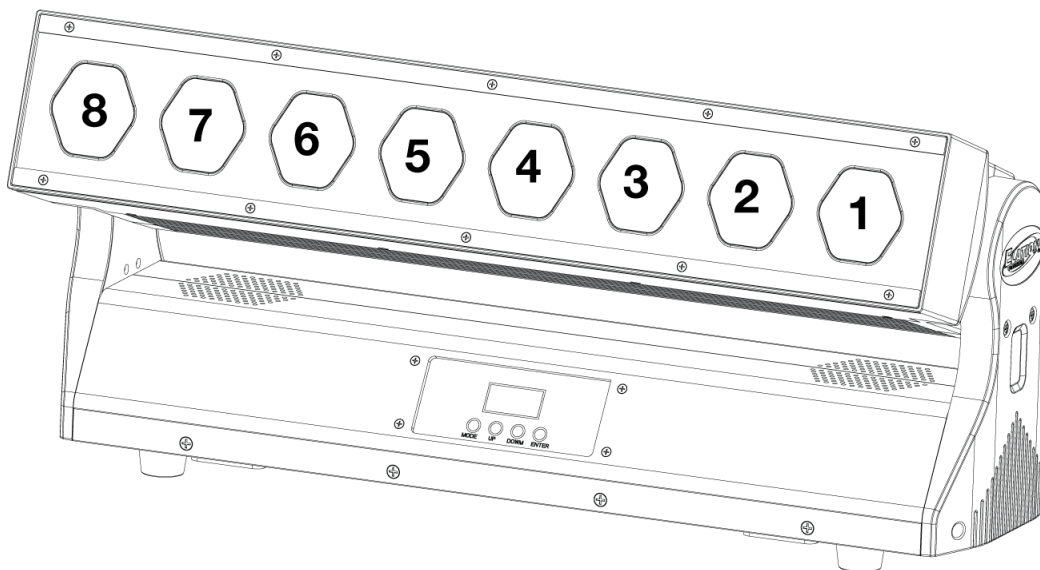
# TECHNICAL SPECIFICATIONS

**SOURCE**
(8) 40W 4-in-1 RGBW LEDs
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**
3,000+ Total Lumens
8,702 LUX 809 FC @16.4 ft (5m) (Full ON (4° Min Zoom)
318 LUX 21 FC @16.4 ft (5m) (Full ON (37° Max Zoom)
Zoom Range 4° - 40°
Beam Angle 4.6° - 37.8°
Field Angle 7.8° - 54.4°

**EFFECTS**
Motorized Zoom and 220° Tilt Movement
RGBW Color Mixing and Full Pixel Control
2,700K - 7,000K Linear Color Temperature
64 Color Presets and 14 Unique Color Macros
Electronic Strobe, 16-bit Variable Dimming Curve Modes

**COLOR**
RGBW

**CONTROL / CONNECTIONS**
3 DMX Channel Modes (46 total channels)
DMX, RDM, Kling-Net, and Art-Net Protocol Support
Adjustable LED Refresh Rate (900-25,000 Hz)
Adjustable LED Gamma Brightness (2.0, 2.2, 2.4, 2.8)
4 Button Touch Control Panel
180° Reversible LCD Menu Display
8 / 16-Bit Resolution Zoom and Tilt Movement
5pin DMX In/Out
RJ45 Ethernet In/Out
Locking Power Cable Power In/Out
With Wired Digital Communication Network

**SIZE / WEIGHT**
Length: 21.28" (540.5mm)
Width: 7.44" (189mm)
Vertical Height: 11.46" (291mm)
Weight: 25.0 lbs (11.3 kg)

**ELECTRICAL / THERMAL**
AC 100-240V - 50/60Hz
359W Max Power Consumption
5°F to 113°F (-15°C to 45°C)
BTU/hr (+/- 10%) 1224.2

**APPROVALS / RATINGS**

CE | IP30    ETL
C        US
Intertek
**4010765**

Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

## DIMENSIONAL DRAWINGS

11.46in
291mm

21.28in
540.5 mm

3.82in
97mm

7.44in
189mm

8.54in
217mm

5.90in
150mm
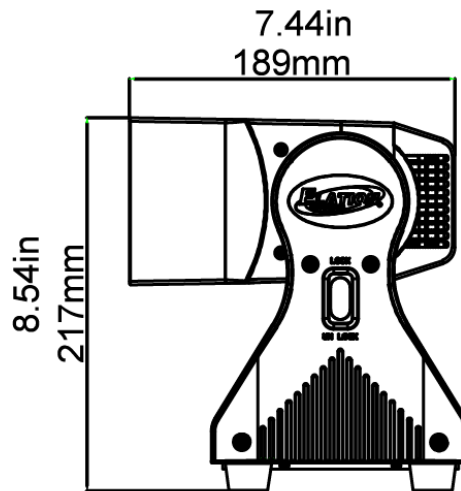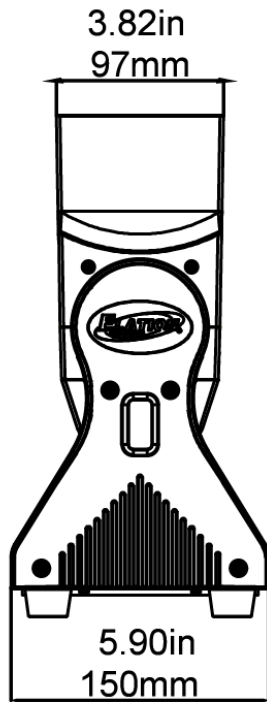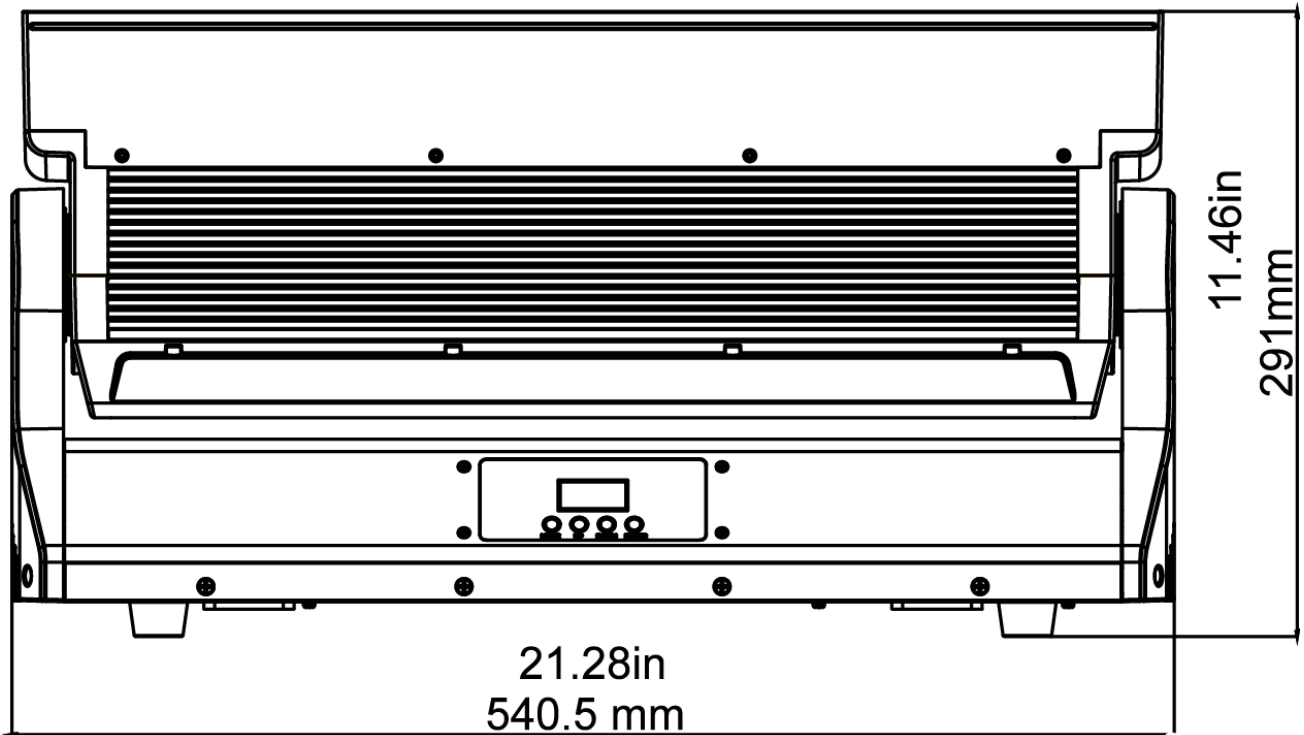
**Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.**

# OPTIONAL ACCESSORIES

| ORDER CODE | ITEM |
|---|---|
| DRCCL8 | 6-Pack Road Case for Chorus Line 8 |
| NARROW CLAMP | Heavy Duty Wrap Around Hook Style Clamp |
| AC5PDMX5PRO | 5 ft. (1.5m) 5pin PRO DMX Cable |
| PLC3 | 3 ft. (1m) PRO Link Cable |
|  | Additional Cable Lengths Available |

## FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS**
This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:
● Reorient or relocate the device.
● Increase the separation between the device and the receiver.
● Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
● Consult the dealer or an experienced radio/TV technician for help.

**Europe Energy Saving Notice**
Energy Saving Matters (EuP 2009/125/EC)
Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you