ELATION PROFESSIONAL

# CUEPIX 16IP™

user manual

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## D O C U M E N T  V E R S I O N

**Due to additional product features and/or enhancements, an updated version of this document may be available online.**
**Please check www.elationlighting.com for the latest revision/update of this manual, before beginning installation and/or programming.**

| Date | Document Version | Software Version ≥ | DMX Channel Modes | Notes |
|---|---|---|---|---|
| 06/05/18 | 1 | 1.04 | 14 | Initial release. |
| 06/19/18 | 1.2 | N/C | NO CHANGE | Updated release. |
| 06/20/18 | 1.4 | N/C | NO CHANGE | Updated DMX traits. |
| 03/16/20 | 1.6 | N/C | NO CHANGE | Added optional Rigging Bar Installation |
| 12/22/20 | 1.8 | 1.06 | NO CHANGE | Updated System Menu |
| 08/01/24 | 1.9 | N/A | NO CHANGE | Added Driver PCB Dipswitch Guide |

# CONTENTS

# 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.

## 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

IP65 Power Cable

## CUSTOMER SUPPORT

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

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

**ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET**
**+31 45 546 85 63 | Fax +31 45 546 85 96 |** support@elationlighting.eu

**REPLACEMENT PARTS** please visit parts.elationlighting.com

# WARRANTY RETURNS (USA ONLY)

To obtain warranty service, a Return Materials Authorization (RMA) number must first be obtained from ELATION. It is the Customer's responsibility to provide product proof of purchase and serial number by acceptable evidence such as an invoice copy or an approved ELATION Extended Warranty Certificate ("EWC") and any relevant maintenance records at the time warranty service is sought. Failure to provide acceptable evidence of product proof of purchase or EWC and any relevant maintenance records may be cause for denial of warranty service.

Products returned for warranty service must be sent without any accessories (i.e., power, data, and safety cables, brackets, clamps, rigging hardware, frost filters, gel frames, barn doors, lens, hoses, nozzles, rack mounting hardware, etc.), must be boxed using the original and/or suitable packaging materials (double-box and foam) that provides ample product protection for ground and/or air freight transit, and must be shipped freight pre-paid and insured to ELATION in Los Angeles, CA or an ELATION Authorized Service Center. The RMA number must be clearly written on the outside of the return box, and a brief description of the problem and the RMA number must be documented and included in the box.

Products returned for warranty service without an RMA number clearly marked on the outside of the package will be refused and returned to the shipper at the Customer's expense. Products returned for warranty service, which are received damaged due to inadequate and/or improper packaging and/or due to damage caused by shipping carrier, may incur additional repair charges before warranty service begins and/or may void this warranty. If any product accessories (included and/or optional) are shipped with the product, ELATION and/or the ELATION Authorized Service Center shall have no liability what so ever for the loss and/or damage to any such accessories, nor the safe return thereof. If the requested warranty repairs or service (including parts replacement) are within the terms of this warranty, ELATION will pay return ground transportation shipping charges to a single designated point within the United States.

# 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!**

**ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT.**

**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.

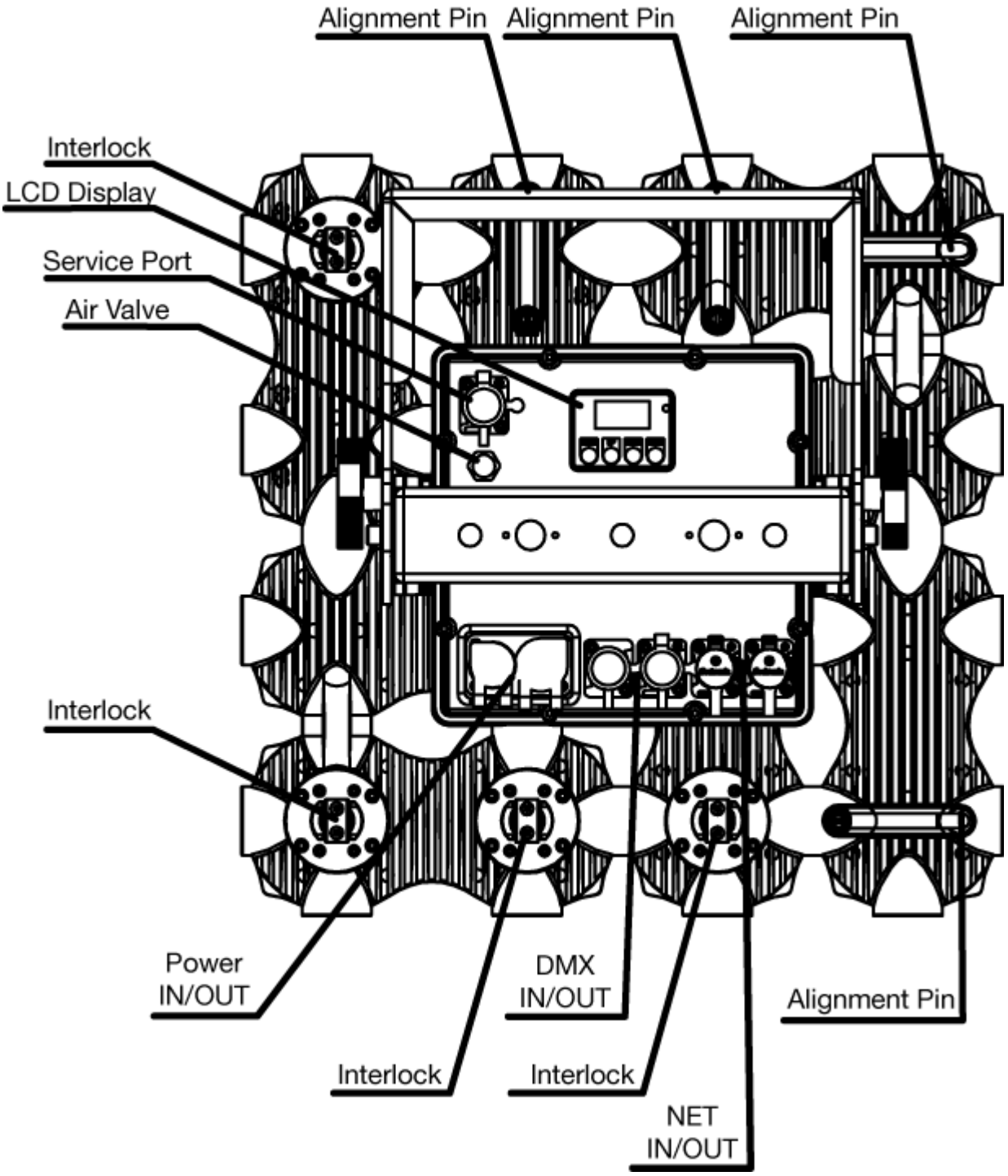
Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.

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.

# FIXTURE OVERVIEW



# INSTALLATION INSTRUCTIONS

## IP65 RATED

An IP rated lighting fixture is one, which is commonly installed in outdoor environments and has been designed with an enclosure that effectively protects the ingress (entry) of external foreign objects such as dust and water. The **International Protection (IP)** rating system is commonly expressed as **"IP"** (Ingress Protection) followed by two numbers (i.e. IP65) where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. An IP65 rated lighting fixture is one, which has been designed and tested to protect against the ingress of dust (6) and low-pressure water jets from any direction (5).

## MARINE/COASTAL ENVIRONMENT INSTALLATIONS

Please note although this fixture is IP rated, the fixture is **NOT** suitable for marine and/or coastal environment installations. Installing this fixture in a marine and/or coastal environment may cause corrosion and/or excessive wear to the interior and/or exterior components of the fixture. Damages and/or performance issues resulting from installation in a marine and/or coastal environment will void the manufactures warranty and will **NOT** be subject to any warranty claims and/or repairs.

## OPTIONAL CORROSION-RESISTANT COATING

Optional Corrosion-Resistant Coatings may be available for this fixture.
Please contact **Elation Professional** for more details.

## 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.

**ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A NON-CONDUCTIVE DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER INGRESS/CONDENSATION AND/OR CORROSION.**

**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.**

# INSTALLATION INSTRUCTIONS

**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.

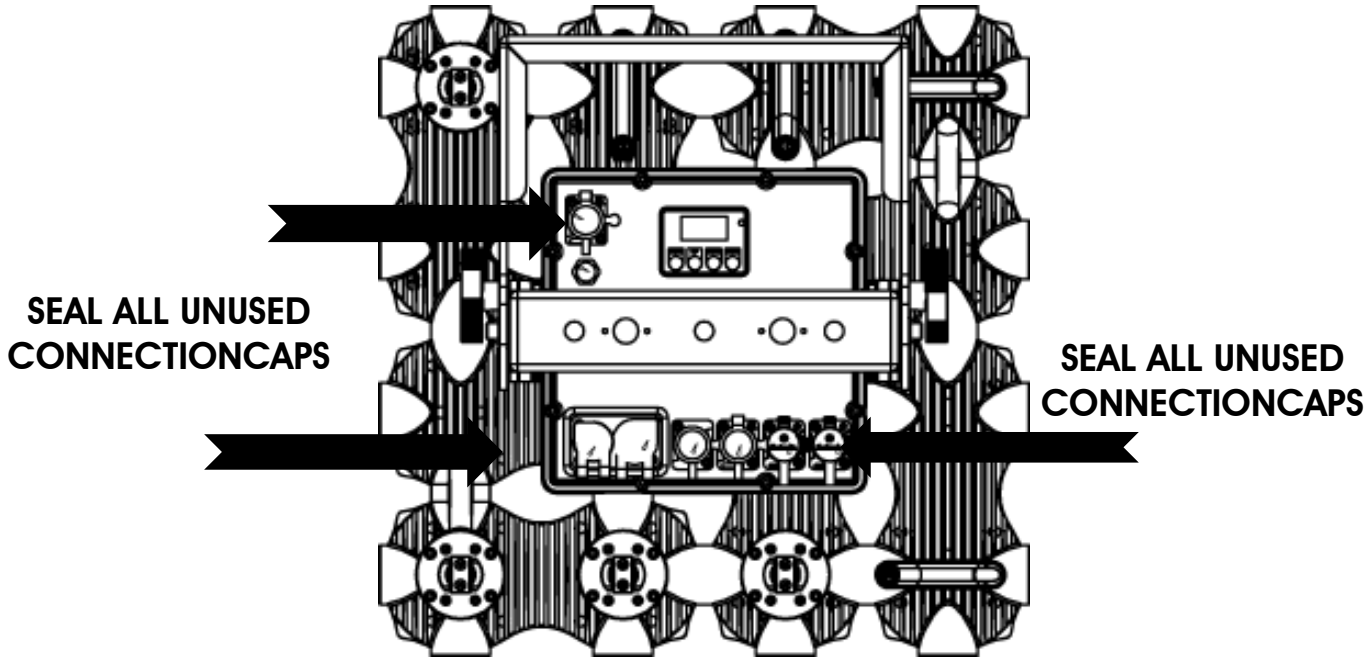
Fixture ambient operating temperature range is **14° to 113°F. (-10° to 45°C)**
Do not use the fixture under or above this temperature.

Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas were 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.

**TO MAINTAIN IP65 RATING INTEGRITY AND PREVENT WATER FROM ENTERING FIXTURE, ALL UNUSED CONNECTION RUBBER CAPS MUST BE SEALED.**



# INSTALLATION INSTRUCTIONS

## CLAMP MOUNTING

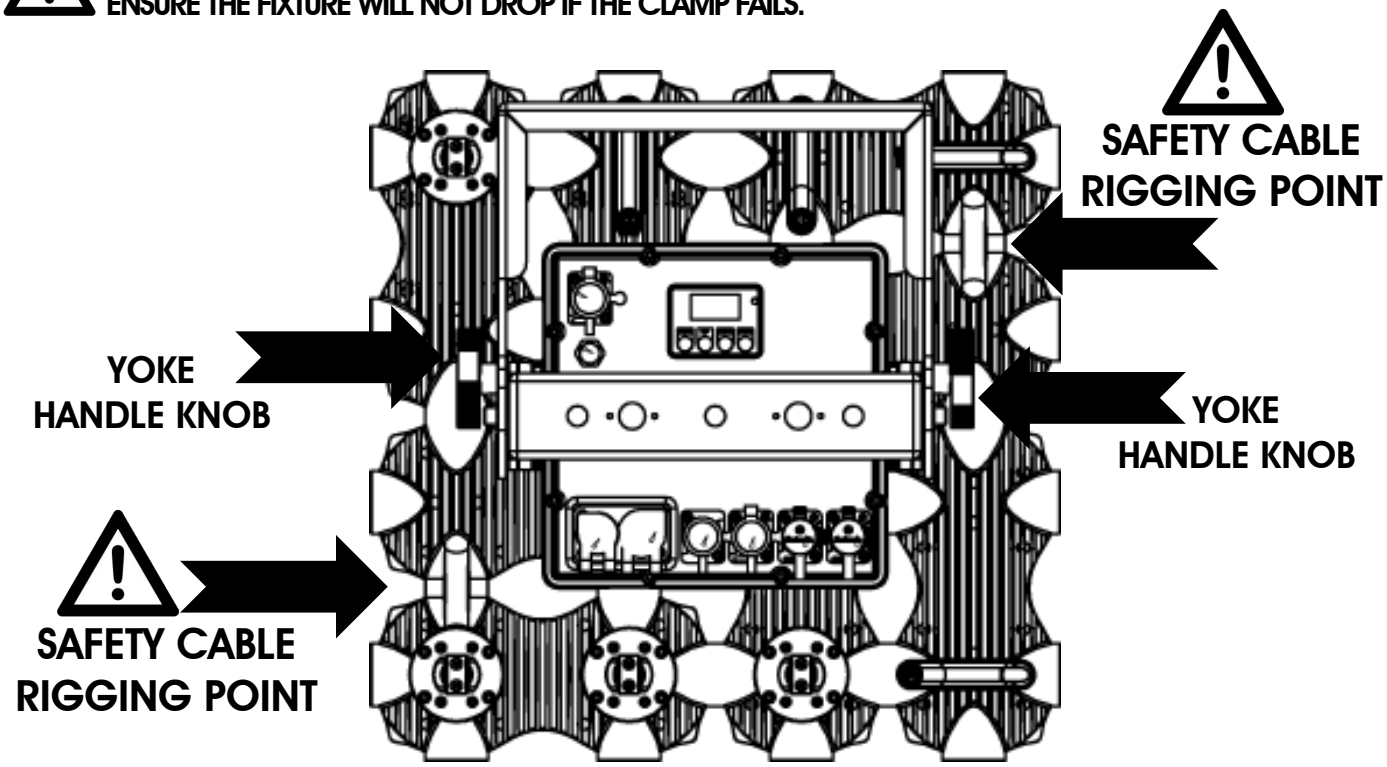
A 90-degree adjustable yoke bracket and a fixed yoke bracket are attached to the fixture, both include 3-position holes for versatile fixture positioning. Optional Omega Brackets are available which can be attached to yoke brackets for easy clamp rigging. See the Optional Accessories at the end of this manual for the order code. When mounting this fixture to truss or a metal structure, be sure to secure an appropriately rated clamp (not included) to one of the yoke brackets using an M10 screw. Depending on rigging position of the fixture, it may be best to use more than one clamp attached to the yoke.

**WHEN USING THE 90-DEGREE ADJUSTABLE YOKE TO MOUNT THE FIXTURE, MAKE SURE BOTH YOKE HANDLE KNOBS ARE SECURELY TIGHTEN CLOCKWISE.**

## SAFETY CABLE

The fixture includes 2 integrated safety cable rigging points. (see image below)

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



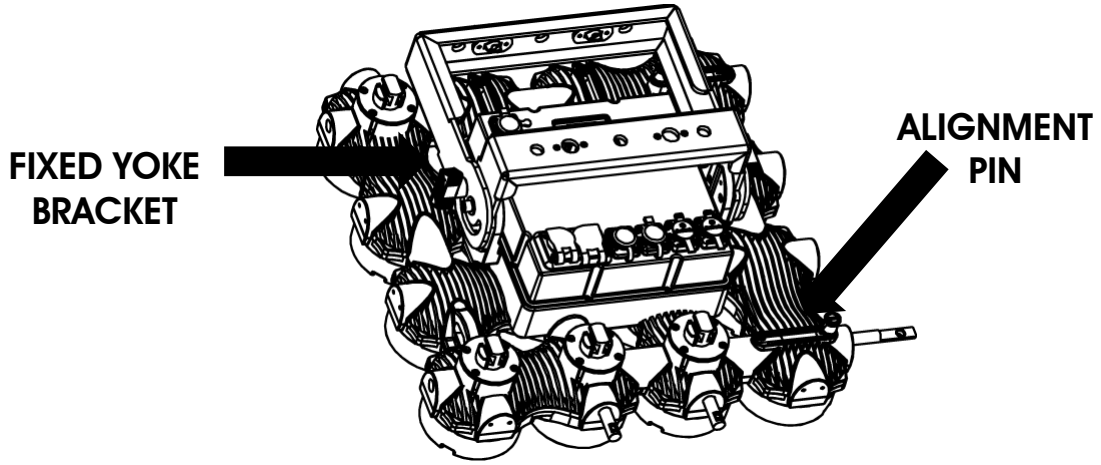
# INSTALLATION INSTRUCTIONS

## INTERLOCKING PANELS

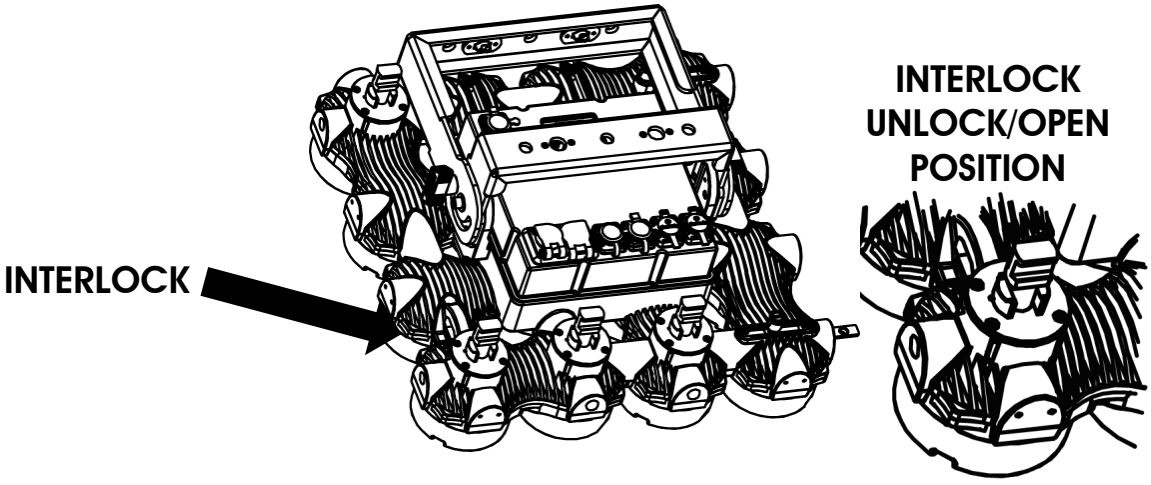
The fixture includes integrated alignment pins and interlocks which are used to connect multiple panels together horizontally and vertically to create seamless custom matrix designs. See images below for interlocking steps.

**THE PINS AND INTERLOCKS ARE FOR ALIGNMENT PURPOSES ONLY!**
**EACH PANEL MUST BE SECURED WITH ITS OWN CLAMP(S) AND SAFETY CABLE!**
**FOR MULTIPLE PANEL RIGGING, USE ONLY THE FIXED YOKE BRACKET!**

1. Push out alignment pins on panel by pulling up and holding round knob while sliding out. Release round knob to lock alignment pin into fully extended position. **MAKE SURE EACH ALIGNMENT PIN IS FULLY EXTENDED OUT AND THE ROUND TAB IS IN THE LOCKED POSITION!**



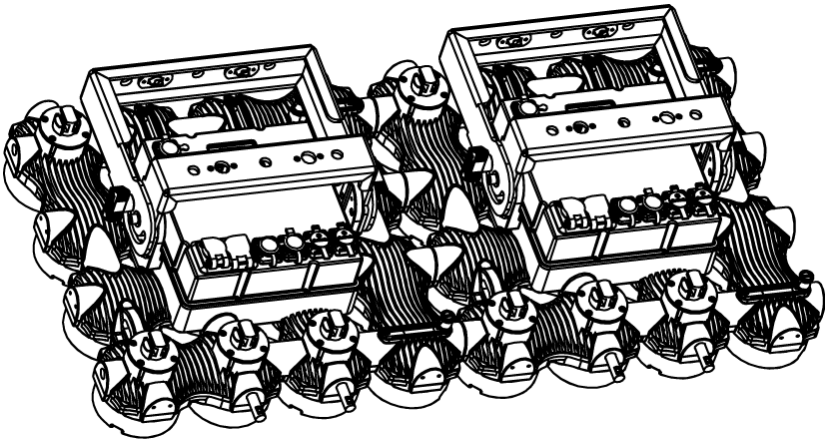

2. UNLOCK/OPEN interlocks on panel by pulling up and holding lock while turning 45 degrees to 9/3 o'clock position. Release lock so it sits completely into position. **MAKE SURE EACH INTERLOCK IS COMPLETELY IN THE 9/3 O'CLOCK UNLOCK/OPEN POSITION!**



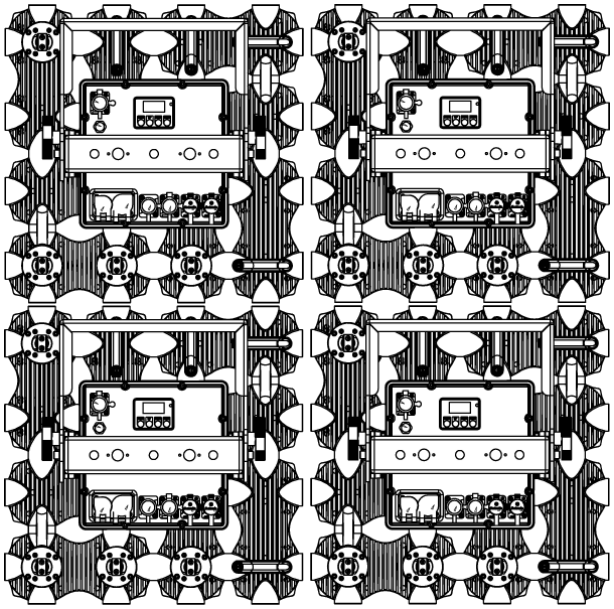
# INSTALLATION INSTRUCTIONS

## INTERLOCKING PANELS

3. Push panels together (horizontally and/or vertically) by inserting alignment pins of one panel into the marrying interlocks of another panel. Once alignment pins are fully inserted, LOCK/CLOSE interlocks on panels by pulling up and holding lock while turning 45 degrees to 12/6 o'clock position. **MAKE SURE EACH INTERLOCK IS COMPLETELY IN THE 12/6 O'CLOCK LOCK/CLOSE POSITION AND EACH ALIGNMENT PIN ROUND TAB IS IN THE LOCKED POSITION!**




4. Repeat steps 1-3 for as needed for each horizontally/vertically connected panel.



## OVERHEAD RIGGING

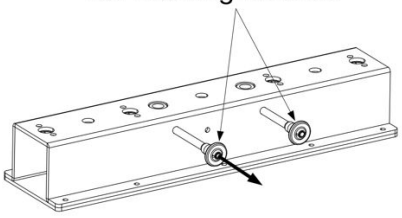
Overhead rigging requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper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

# INSTALLATION INSTRUCTIONS

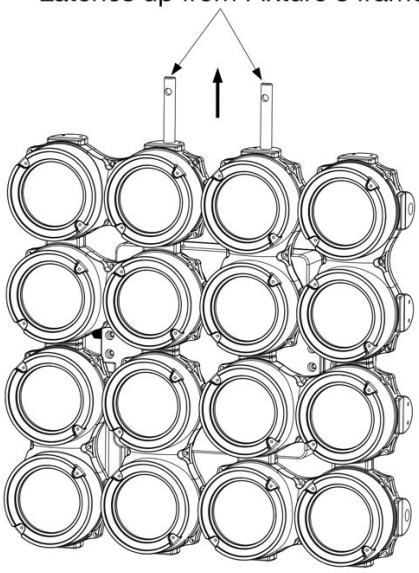
## RIGGING BAR (OPTIONAL)

The Rigging Bar can fly up to three (3x) CUEPIX 16IP fixtures.

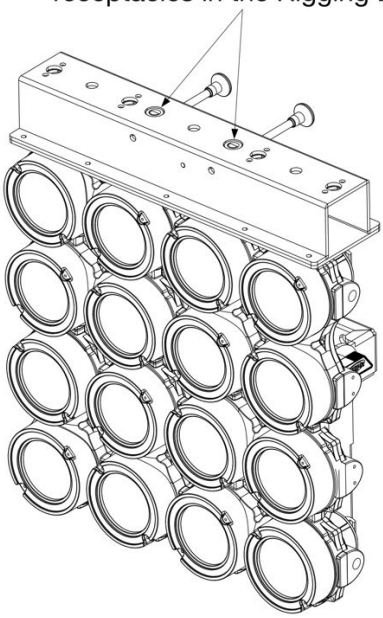
1. Pull out the (2x) Rigging Bar Locking Latches



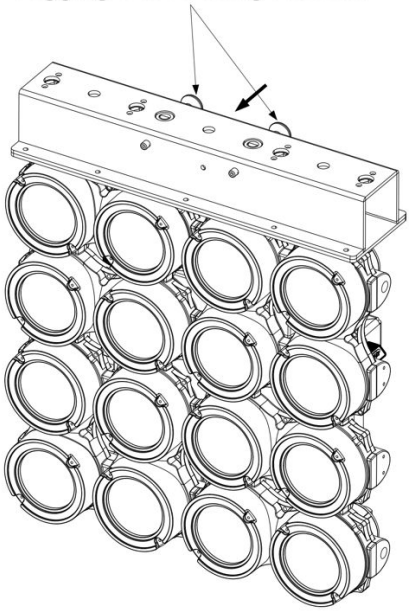
2. Pull the (2x) Vertical Connector Latches up from Fixture's frame



3. Insert (2x) Vertical Fixture Latches into their respective connection receptacles in the Rigging Bar



4. Secure the (2x) Vertical Fixture Latches by reinserting the (2x) Rigging Bar Locking Latches



# INSTALLATION INSTRUCTIONS

## 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 MAX AMPS.**

## KLING-NET / ART-NET CONNECTION

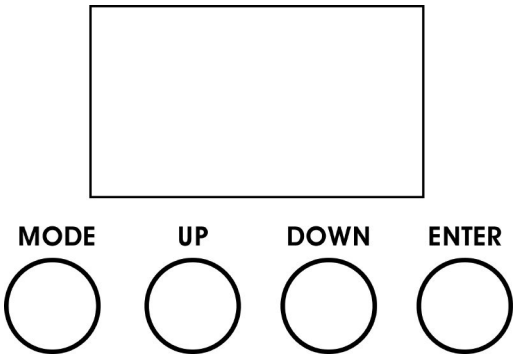
When connecting fixture to a network switch to control multiple devices, a **Gigabit Ethernet Switch** that supports **IGMP (Internet Group Management Protocol)** is required. Using a **Gigabit Ethernet Switch** that does not support **IGMP** can cause erratic behavior of all connected devices to the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

https://en.wikipedia.org/wiki/Internet_Group_Management_Protocol

# SYSTEM MENU

The fixture includes an easy to navigate system menu where fixture settings can be adjusted via the LCD control panel located on the back of the fixture. (see image below) During normal operation, pressing the **MODE** button once will access the main menu. Navigate through the various sub-menus by pressing the **UP** and **DOWN** buttons, press the **ENTER** button to select a specific sub-menu, press the **UP** and **DOWN** buttons to adjust the selected sub-menu settings, and press the **ENTER** button again to confirm the sub-menu setting selection. Exit the main system menu at any time without making any adjustments by pressing the **MODE** button.

To access the system menu 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.aa—bb



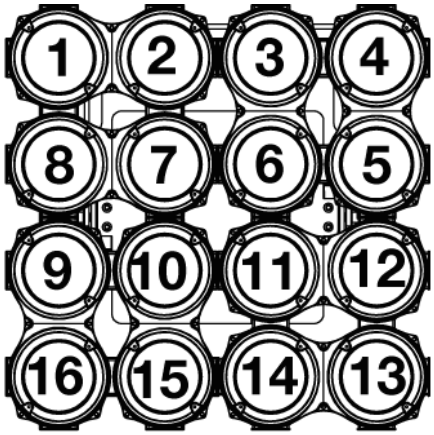
| SYSTEM MENU | | | | |
|---|---|---|---|---|
| **Supports Software Versions: ≥ 1.06** | | | | |
| Features are subject to change without any prior written notice. | | | | |
| **MENU** | **SUB MENU** | **OPTIONS / VALUES (Default Settings in BOLD)** | | **DESCRIPTION** |
| Address | ADDR: | **001** ~ xxx | | DMX Address Setting |
| UserMode | | **03CH**, 04CH, 07CH, 07CH, 06CH, 08CH, 08CH, 11CH, 12CH, 12CH, 48CH, 64CH, 72CH, 128CH | | Set DMX Channel / User Mode |
| Function | Status | No Dmx | Black / **Hold** | Function If NO DMX Detected |
| | LCD.Set | Display | **ON** / OFF | LCD Backlight Shut Off Time |
| | | Key Lock | **ON** / OFF | Control Front Panel Buttons Key Lock |
| | | Flash | **ON** / OFF | Display flashes when NO DMX |
| | | Invert | ON / **OFF** | Flips Display 180 Degrees |
| | Temp. C/F | **F** / C | | Temperature Switch Between F°/ C° |
| | DimCurve | **Standard**, Stage, TV, Architec, Theatre, Stage2 | | Set Dimmer Curve Mode |
| | Disp.Set | ADDR, Disp.CH, Secondry | | Select Default Display |
| | Flip | **Standard,** Flip1, Flip2, Flip3, Flip4 | | Set Pixel Flip Mode (See page 19 for more info) |
| | Macro | 00-63 | | Select Internal Color Macro |
| | Gamma | **2.0**, 2.2, 2.4, 2.8 | | Set Gamma Brightness |
| | Frequen | **900Hz**, 1000Hz, 1100Hz, 1200Hz, 1300Hz, 1400Hz, 1500Hz, 2500Hz, 4000Hz, 5000Hz, 10kHz, 15kHz, 20kHz, 25kHz | | Set LED Refresh Frequency |
| | PROTOCOL | **ArtNet**, sACN | | Select Network Protocol |
| | KlingNet | Enable/Disable | | |
| | NET_SWIT | ON / **OFF** | | Enable Network Protocol Auto-Detection |
| | FIX_ID | Password | **050** | Enter Password to Access Fixture ID Menu |
| | | DeviceIP | XXX.XXX.XXX.XXX | Enter Device IP Address |
| | | Universe | **000**-255 | Enter Device Universe |
| | DFSE | ON / **OFF** | | Restore Factory Settings |
| | USB | ON **/ OFF** | | Enable Service Port for Software Updates |
| Info | TimeInfo | Current | XXXX (Hours) | Fixture Run Time from Power ON |
| | | Total | XXXX (Hours) | Fixture Total Run Time |
| | | Last PassWord | XXXX (Hours) | Clear Fixture Last Run Time |
| | | TimerPIN | PIN= **066** | Enter PIN to Access Clear Last. Menu |
| | TempInfo | LED Temp | XXX **F°** / C° | Temperature in Fixture Head |
| | Err.Info | Error Record 1 ~ Error Record 10 | | Display 10 Recent Error Messages |
| | ModelInf | **Cuepix 16 IP** | | Display Model Name |
| | SoftWare | ≥V1.04 | | Software Versions |

| Supports Software Versions: ≥ 1.06 | | | | |
|---|---|---|---|---|
| Features are subject to change without any prior written notice. | | | | |
| **MENU** | **SUB MENU** | **OPTIONS / VALUES (Default Settings in BOLD)** | | **DESCRIPTION** |
| Manual | Manual | Strobe | **000** - 255 | Set Strobe DMX Value |
| | | Dimmer | **000** - 255 | Set Master Dimmer DMX Value |
| | | DimFine | **000** - 255 | Set Dimmer Fine DMX Value |
| | | DimMode | **000** - 255 | Select Dimmer Curve Mode |
| | | Red1 | **000** - 255 | Set RGBA DMX Values of Pixel #1 |
| | | Green1 | **000** - 255 | |
| | | Blue1 | **000** - 255 | |
| | | Amber1 | **000** - 255 | |
| | | Red2 | **000** - 255 | Set RGBA DMX Values of Pixel #2 |
| | | Green2 | **000** - 255 | |
| | | Blue2 | **000** - 255 | |
| | | Amber2 | **000** - 255 | |
| | | ▼ | ▼ | ▼ |
| | | Red15 | **000** - 255 | Set RGBA DMX Values of Pixel #15 |
| | | Green15 | **000** - 255 | |
| | | Blue15 | **000** - 255 | |
| | | Amber15 | **000** - 255 | |
| | | Red16 | **000** - 255 | Set RGBA DMX Values of Pixel #16 |
| | | Green16 | **000** - 255 | |
| | | Blue16 | **000** - 255 | |
| | | Amber16 | **000** - 255 | |
| Test | ManCtrl | Strobe | **000** - 255 | Set Strobe DMX Value |
| | | Dimmer | **000** - 255 | Set Master Dimmer DMX Value |
| | | DimFine | **000** - 255 | Set Dimmer Fine DMX Value |
| | | DimMode | | Select Dimmer Curve Mode |
| | | Red1 | **000** - 255 | Set RGBA DMX Values of Pixel #1 |
| | | Green1 | **000** - 255 | |
| | | Blue1 | **000** - 255 | |
| | | Amber1 | **000** - 255 | |
| | | Red2 | **000** - 255 | Set RGBA DMX Values of Pixel #2 |
| | | Green2 | **000** - 255 | |
| | | Blue2 | **000** - 255 | |
| | | Amber2 | **000** - 255 | |
| | | ▼ | ▼ | ▼ |
| | | Red15 | **000** - 255 | Set RGBA DMX Values of Pixel #15 |
| | | Green15 | **000** - 255 | |
| | | Blue15 | **000** - 255 | |
| | | Amber15 | **000** - 255 | |
| | | Red16 | **000** - 255 | Set RGBA DMX Values of Pixel #16 |
| | | Green16 | **000** - 255 | |
| | | Blue16 | **000** - 255 | |
| | | Amber16 | **000** - 255 | |
| | Calibrat | Password | **050** | Enter Password to Access Calibration Menu<br>**NOTE: ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION!** |

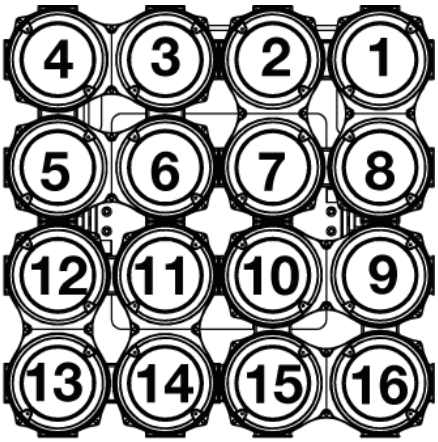
# PIXEL CONTROL

There are 5-pixel modes which can be selected from the FLIP sub menu in the FUNCTION main system menu, each having a different starting pixel location and sequence on the panel. This feature makes it easy to configure the pixels of all panels to be the same regardless of their installation orientation. See diagrams below for each pixel flip mode.

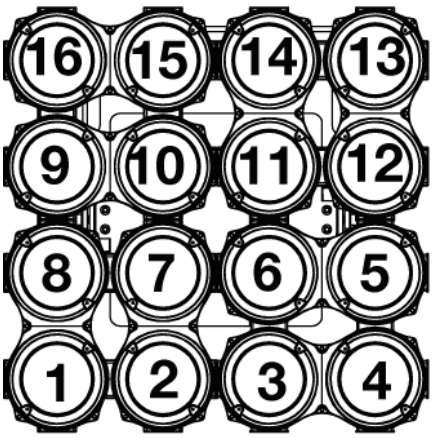
**STANDARD**



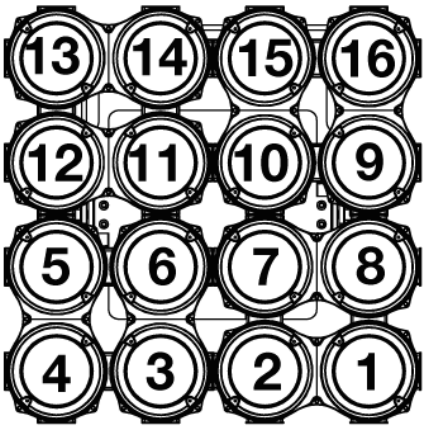

**FLIP 1**



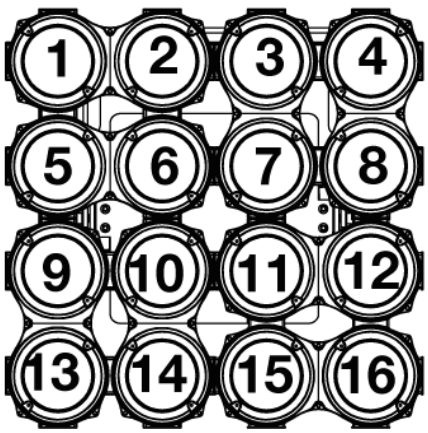

**FLIP 2**




**FLIP 3**




**FLIP 4**



# DMX CHANNEL FUNCTIONS AND VALUES

| DMX Channel Values / Functions (128 DMX Channels) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Supports Software Versions: ≥ 1.06** | | | | | | | | | | | |
| Features subject to change without any prior written notice.<br>***Pixel control of effects depends on flip system menu settings.** | | | | | | | | | | | |
| **DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS** | | | | | | | | | | | |
| **MODE / CHANNEL** | | | | | | | | | | **VALUE** | **FUNCTION** |
| **03CH RGB** | **04CH RGBA** | **07CH RGBA+** | **07CH DA+** | **06CH RGBI** | **08CH 16Bit** | **08CH RGBA** | **11CH Basic** | **12CH RGBA** | **12CH RGBI** | | |
| | | | | | | | | | | | SHUTTER / STROBE |
| | | | | | | | | | | 0-31 | LED OFF |
| | | | | | | | | | | 32-63 | LED ON |
| | | | | | | | | | | 64-95 | Strobe Effect SLOW to FAST |
| | | | | 1 | | | | | 1 | 96-127 | LED ON |
| | | | | | | | | | | 128-159 | Strobe Pulse Effect In Sequences SLOW to FAST |
| | | | | | | | | | | 160-191 | LED ON |
| | | | | | | | | | | 192-223 | Random Strobe Effect SLOW to FAST |
| | | | | | | | | | | 224-255 | LED ON |
| 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | | RED - ALL PIXELS |
| | | | | | | | | | | 0-255 | 0-100% |
| | | | | | 2 | | | | | | RED FINE - ALL PIXELS |
| | | | | | | | | | | 0-255 | 16-bit FINE Adjustment |
| 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | | GREEN - ALL PIXELS |
| | | | | | | | | | | 0-255 | 0-100% |
| | | | | | 4 | | | | | | GREEN FINE - ALL PIXELS |
| | | | | | | | | | | 0-255 | 16-bit FINE Adjustment |
| 3 | 3 | 3 | 3 | 4 | 5 | 3 | 3 | 3 | 4 | | BLUE - ALL PIXELS |
| | | | | | | | | | | 0-255 | 0-100% |
| | | | | | 6 | | | | | | BLUE FINE - ALL PIXELS |
| | | | | | | | | | | 0-255 | 16-bit FINE Adjustment |
| | 4 | 4 | 4 | 5 | 7 | 4 | 4 | 4 | 5 | | AMBER - ALL PIXELS |
| | | | | | | | | | | 0-255 | 0-100% |
| | | | | | 8 | | | | | | AMBER FINE - ALL PIXELS |
| | | | | | | | | | | 0-255 | 16-bit FINE Adjustment |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE / CHANNEL | | | | | | | | | | VALUE | FUNCTION |
| 03CH RGB | 04CH RGBA | 07CH RGBA+ | 07CH DA+ | 06CH RGBI | 08CH 16Bit | 08CH RGBA | 11CH Basic | 12CH RGBA | 12CH RGBI | | |
| | | | | | | | | | | | COLOR MACROS |
| | | | | | | | | | | 1-4 | Color Macro 01 |
| | | | | | | | | | | 5-8 | Color Macro 02 |
| | | | | | | | | | | 9-12 | Color Macro 03 |
| | | | | | | | | | | 13-16 | Color Macro 04 |
| | | | | | | | | | | 17-20 | Color Macro 05 |
| | | | | | | | | | | 21-24 | Color Macro 06 |
| | | | | | | | | | | 25-28 | Color Macro 07 |
| | | | | | | | | | | 29-32 | Color Macro 08 |
| | | | | | | | | | | 33-36 | Color Macro 09 |
| | | | | | | | | | | 37-40 | Color Macro 10 |
| | | | | | | | | | | 41-44 | Color Macro 11 |
| | | | | | | | | | | 45-48 | Color Macro 12 |
| | | | | | | | | | | 49-52 | Color Macro 13 |
| | | | | | | | | | | 53-56 | Color Macro 14 |
| | | | | | | | | | | 57-60 | Color Macro 15 |
| | | | | | | | | | | 61-64 | Color Macro 16 |
| | | | | | | | | | | 65-68 | Color Macro 17 |
| | | | | | | | | | | 69-72 | Color Macro 18 |
| | | | | | | | | | | 73-76 | Color Macro 19 |
| | | | | | | | | | | 77-80 | Color Macro 20 |
| | | | | | | | | | | 81-84 | Color Macro 21 |
| | | | | | | | 5 | 5 | | 85-88 | Color Macro 22 |
| | | | | | | | | | | 89-92 | Color Macro 23 |
| | | | | | | | | | | 93-96 | Color Macro 24 |
| | | | | | | | | | | 97-100 | Color Macro 25 |
| | | | | | | | | | | 101-104 | Color Macro 26 |
| | | | | | | | | | | 105-108 | Color Macro 27 |
| | | | | | | | | | | 109-112 | Color Macro 28 |
| | | | | | | | | | | 113-116 | Color Macro 29 |
| | | | | | | | | | | 117-120 | Color Macro 30 |
| | | | | | | | | | | 121-124 | Color Macro 31 |
| | | | | | | | | | | 125-128 | Color Macro 32 |
| | | | | | | | | | | 129-132 | Color Macro 33 |
| | | | | | | | | | | 133-136 | Color Macro 34 |
| | | | | | | | | | | 137-140 | Color Macro 35 |
| | | | | | | | | | | 141-144 | Color Macro 36 |
| | | | | | | | | | | 145-148 | Color Macro 37 |
| | | | | | | | | | | 149-152 | Color Macro 38 |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE / CHANNEL | | | | | | | | | | VALUE | FUNCTION |
| 03CH RGB | 04CH RGBA | 07CH RGBA+ | 07CH DA+ | 06CH RGBI | 08CH 16Bit | 08CH RGBA | 11CH Basic | 12CH RGBA | 12CH RGBI | | |
| | | | | | | | | | | | COLOR MACROS (continued) |
| | | | | | | | | | | 153-156 | Color Macro 39 |
| | | | | | | | | | | 157-160 | Color Macro 40 |
| | | | | | | | | | | 161-164 | Color Macro 41 |
| | | | | | | | | | | 165-168 | Color Macro 42 |
| | | | | | | | | | | 169-172 | Color Macro 43 |
| | | | | | | | | | | 173-176 | Color Macro 44 |
| | | | | | | | | | | 177-180 | Color Macro 45 |
| | | | | | | | | | | 181-184 | Color Macro 46 |
| | | | | | | | | | | 185-188 | Color Macro 47 |
| | | | | | | | | | | 189-192 | Color Macro 48 |
| | | | | | | | | | | 193-196 | Color Macro 49 |
| | | | | | | | | | | 197-200 | Color Macro 50 |
| | | | | | | | 5 | 5 | | 201-204 | Color Macro 51 |
| | | | | | | | | | | 205-208 | Color Macro 52 |
| | | | | | | | | | | 209-212 | Color Macro 53 |
| | | | | | | | | | | 213-216 | Color Macro 54 |
| | | | | | | | | | | 217-220 | Color Macro 55 |
| | | | | | | | | | | 221-224 | Color Macro 56 |
| | | | | | | | | | | 225-228 | Color Macro 57 |
| | | | | | | | | | | 229-232 | Color Macro 58 |
| | | | | | | | | | | 233-236 | Color Macro 59 |
| | | | | | | | | | | 237-240 | Color Macro 60 |
| | | | | | | | | | | 241-244 | Color Macro 61 |
| | | | | | | | | | | 245-248 | Color Macro 62 |
| | | | | | | | | | | 249-252 | Color Macro 63 |
| | | | | | | | | | | 253-255 | Color Macro 64 |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE / CHANNEL | | | | | | | | | | VALUE | FUNCTION |
| 03CH RGB | 04CH RGBA | 07CH RGBA+ | 07CH DA+ | 06CH RGBI | 08CH 16Bit | 08CH RGBA | 11CH Basic | 12CH RGBA | 12CH RGBI | | |
| | | | | | | | | | | | SHUTTER / STROBE |
| | | | | | | | | | | 0-31 | LED OFF |
| | | | | | | | | | | 32-63 | LED ON |
| | | | | | | | | | | 64-95 | Strobe Effect SLOW to FAST |
| | | | | | | 5 | 6 | 6 | | 96-127 | LED ON |
| | | | | | | | | | | 128-159 | Strobe Pulse Effect In Sequences SLOW to FAST |
| | | | | | | | | | | 160-191 | LED ON |
| | | | | | | | | | | 192-223 | Random Strobe Effect SLOW to FAST |
| | | | | | | | | | | 224-255 | LED ON |
| | | 5 | 5 | 6 | | 6 | 7 | 7 | 6 | | MASTER DIMMER / INTENSITY |
| | | | | | | | | | | 0-255 | Dimmer (0-100%) |
| | | 6 | 6 | | | 7 | | 8 | 7 | | MASTER DIMMER / INTENSITY FINE |
| | | | | | | | | | | 0-255 | Dimmer (0-100%) |
| | | | | | | | | | | | PROGRAM MACROS |
| | | | | | | | | | | 0-19 | NO FUNCTION |
| | | | | | | | | | | 1-20 | PROGRAM 01 |
| | | | | | | | | | | 21-40 | PROGRAM 02 |
| | | | | | | | | | | 41-60 | PROGRAM 03 |
| | | | | | | | | | | 62-80 | PROGRAM 04 |
| | | | | | | | | | | 81-100 | PROGRAM 05 |
| | | | | | | | 8 | 9 | 8 | 101-120 | PROGRAM 06 |
| | | | | | | | | | | 121-140 | PROGRAM 07 |
| | | | | | | | | | | 141-160 | PROGRAM 08 |
| | | | | | | | | | | 161-180 | PROGRAM 09 |
| | | | | | | | | | | 181-200 | PROGRAM 10 |
| | | | | | | | | | | 201-220 | PROGRAM 11 |
| | | | | | | | | | | 221-240 | PROGRAM 12 |
| | | | | | | | | | | 241-250 | PROGRAM 13 |
| | | | | | | | | | | 251-255 | PROGRAM 14 |
| | | | | | | | 9 | 10 | 9 | | PROGRAM MACRO SPEED |
| | | | | | | | | | | 0-255 | Program Macro SPEED SLOW to FAST |
| | | | | | | | 10 | 11 | 10 | | PROGRAM MACRO FADE |
| | | | | | | | | | | 0-255 | Program Macro FADE SLOW to FAST |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE / CHANNEL | | | | | | | | | | VALUE | FUNCTION |
| 03CH RGB | 04CH RGBA | 07CH RGBA+ | 07CH DA+ | 06CH RGBI | 08CH 16Bit | 08CH RGBA | 11CH Basic | 12CH RGBA | 12CH RGBI | | |
| | | | | | | | | | | | COLOR MACROS |
| | | | | | | | | | | 1-4 | Color Macro 01 |
| | | | | | | | | | | 5-8 | Color Macro 02 |
| | | | | | | | | | | 9-12 | Color Macro 03 |
| | | | | | | | | | | 13-16 | Color Macro 04 |
| | | | | | | | | | | 17-20 | Color Macro 05 |
| | | | | | | | | | | 21-24 | Color Macro 06 |
| | | | | | | | | | | 25-28 | Color Macro 07 |
| | | | | | | | | | | 29-32 | Color Macro 08 |
| | | | | | | | | | | 33-36 | Color Macro 09 |
| | | | | | | | | | | 37-40 | Color Macro 10 |
| | | | | | | | | | | 41-44 | Color Macro 11 |
| | | | | | | | | | | 45-48 | Color Macro 12 |
| | | | | | | | | | | 49-52 | Color Macro 13 |
| | | | | | | | | | | 53-56 | Color Macro 14 |
| | | | | | | | | | | 57-60 | Color Macro 15 |
| | | | | | | | | | | 61-64 | Color Macro 16 |
| | | | | | | | | | | 65-68 | Color Macro 17 |
| | | | | | | | | | | 69-72 | Color Macro 18 |
| | | | | | | | | | 11 | 73-76 | Color Macro 19 |
| | | | | | | | | | | 77-80 | Color Macro 20 |
| | | | | | | | | | | 81-84 | Color Macro 21 |
| | | | | | | | | | | 85-88 | Color Macro 22 |
| | | | | | | | | | | 89-92 | Color Macro 23 |
| | | | | | | | | | | 93-96 | Color Macro 24 |
| | | | | | | | | | | 97-100 | Color Macro 25 |
| | | | | | | | | | | 101-104 | Color Macro 26 |
| | | | | | | | | | | 105-108 | Color Macro 27 |
| | | | | | | | | | | 109-112 | Color Macro 28 |
| | | | | | | | | | | 113-116 | Color Macro 29 |
| | | | | | | | | | | 117-120 | Color Macro 30 |
| | | | | | | | | | | 121-124 | Color Macro 31 |
| | | | | | | | | | | 125-128 | Color Macro 32 |
| | | | | | | | | | | 129-132 | Color Macro 33 |
| | | | | | | | | | | 133-136 | Color Macro 34 |
| | | | | | | | | | | 137-140 | Color Macro 35 |
| | | | | | | | | | | 141-144 | Color Macro 36 |
| | | | | | | | | | | 145-148 | Color Macro 37 |
| | | | | | | | | | | 149-152 | Color Macro 38 |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE / CHANNEL | | | | | | | | | | VALUE | FUNCTION |
| 03CH RGB | 04CH RGBA | 07CH RGBA+ | 07CH DA+ | 06CH RGBI | 08CH 16Bit | 08CH RGBA | 11CH Basic | 12CH RGBA | 12CH RGBI | | |
| | | | | | | | | | | | COLOR MACROS (continued) |
| | | | | | | | | | | 153-156 | Color Macro 39 |
| | | | | | | | | | | 157-160 | Color Macro 40 |
| | | | | | | | | | | 161-164 | Color Macro 41 |
| | | | | | | | | | | 165-168 | Color Macro 42 |
| | | | | | | | | | | 169-172 | Color Macro 43 |
| | | | | | | | | | | 173-176 | Color Macro 44 |
| | | | | | | | | | | 177-180 | Color Macro 45 |
| | | | | | | | | | | 181-184 | Color Macro 46 |
| | | | | | | | | | | 185-188 | Color Macro 47 |
| | | | | | | | | | | 189-192 | Color Macro 48 |
| | | | | | | | | | | 193-196 | Color Macro 49 |
| | | | | | | | | | | 197-200 | Color Macro 50 |
| | | | | | | | | | 11 | 201-204 | Color Macro 51 |
| | | | | | | | | | | 205-208 | Color Macro 52 |
| | | | | | | | | | | 209-212 | Color Macro 53 |
| | | | | | | | | | | 213-216 | Color Macro 54 |
| | | | | | | | | | | 217-220 | Color Macro 55 |
| | | | | | | | | | | 221-224 | Color Macro 56 |
| | | | | | | | | | | 225-228 | Color Macro 57 |
| | | | | | | | | | | 229-232 | Color Macro 58 |
| | | | | | | | | | | 233-236 | Color Macro 59 |
| | | | | | | | | | | 237-240 | Color Macro 60 |
| | | | | | | | | | | 241-244 | Color Macro 61 |
| | | | | | | | | | | 245-248 | Color Macro 62 |
| | | | | | | | | | | 249-252 | Color Macro 63 |
| | | | | | | | | | | 253-255 | Color Macro 64 |
| | | | | | | | | | | | DIMMING MODES |
| | | | | | | | | | | 0-20 | STANDARD |
| | | | | | | | | | | 21-40 | STAGE |
| | | 7 | 7 | | | 8 | 11 | 12 | 12 | 41-60 | TV |
| | | | | | | | | | | 61-80 | ARCHITECTURAL |
| | | | | | | | | | | 81-100 | THEATER |
| | | | | | | | | | | 101-120 | STAGE 2 |
| | | | | | | | | | | 121-255 | DEFAULT TO UNIT SETTING |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | |
|---|---|---|---|---|---|
| MODE / CHANNEL | | | | VALUE | FUNCTION |
| 48CH DA | 64CH RGBA | 72CH Pixel | 128CH 16Bit | | |
| 1 | 1 | 1 | 1 | | RED - PIXEL 1 |
| | | | | 0-255 | 0-100% |
| | | | 2 | | RED FINE - PIXEL 1 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 2 | 2 | 2 | 3 | | GREEN - PIXEL 1 |
| | | | | 0-255 | 0-100% |
| | | | 4 | | GREEN FINE - PIXEL 1 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 3 | 3 | 3 | 5 | | BLUE - PIXEL 1 |
| | | | | 0-255 | 0-100% |
| | | | 6 | | BLUE FINE - PIXEL 1 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| | 4 | 4 | 7 | | AMBER - PIXEL 1 |
| | | | | 0-256 | 0-100% |
| | | | 8 | | AMBER FINE - PIXEL 1 |
| | | | | 0-257 | 16-bit FINE Adjustment |
| 4 | 5 | 5 | 9 | | RED - PIXEL 2 |
| | | | | 0-255 | 0-100% |
| | | | 10 | | RED FINE - PIXEL 2 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 5 | 6 | 6 | 11 | | GREEN - PIXEL 2 |
| | | | | 0-255 | 0-100% |
| | | | 12 | | GREEN FINE - PIXEL 2 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 6 | 7 | 7 | 13 | | BLUE - PIXEL 2 |
| | | | | 0-255 | 0-100% |
| | | | 14 | | BLUE FINE - PIXEL 2 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| | 8 | 8 | 15 | | AMBER - PIXEL 2 |
| | | | | 0-256 | 0-100% |
| | | | 16 | | AMBER FINE - PIXEL 2 |
| | | | | 0-257 | 16-bit FINE Adjustment |
| 7 | 9 | 9 | 17 | | RED - PIXEL 3 |
| | | | | 0-255 | 0-100% |
| | | | 18 | | RED FINE - PIXEL 3 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 8 | 10 | 10 | 19 | | GREEN - PIXEL 3 |
| | | | | 0-255 | 0-100% |
| | | | 20 | | GREEN FINE - PIXEL 3 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 9 | 11 | 11 | 21 | | BLUE - PIXEL 3 |
| | | | | 0-255 | 0-100% |
| | | | 22 | | BLUE FINE - PIXEL 3 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 12 | 12 | 23 | | AMBER - PIXEL 3 |
| | | | | 0-256 | 0-100% |
| | | | 24 | | AMBER FINE - PIXEL 3 |
| | | | | 0-256 | 16-bit FINE Adjustment |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | |
|---|---|---|---|---|---|
| MODE / CHANNEL | | | | VALUE | FUNCTION |
| 48CH DA | 64CH RGBA | 72CH Pixel | 128CH 16Bit | | |
| 10 | 13 | 13 | 25 | | RED - PIXEL 4 |
| | | | | 0-255 | 0-100% |
| | | | 26 | | RED FINE - PIXEL 4 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 11 | 14 | 14 | 27 | | GREEN - PIXEL 4 |
| | | | | 0-255 | 0-100% |
| | | | 28 | | GREEN FINE - PIXEL 4 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 12 | 15 | 15 | 29 | | BLUE - PIXEL 4 |
| | | | | 0-255 | 0-100% |
| | | | 30 | | BLUE FINE - PIXEL 4 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 16 | 16 | 31 | | AMBER - PIXEL 4 |
| | | | | 0-256 | 0-100% |
| | | | 32 | | AMBER FINE - PIXEL 4 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 13 | 17 | 17 | 33 | | RED - PIXEL 5 |
| | | | | 0-255 | 0-100% |
| | | | 34 | | RED FINE - PIXEL 5 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 14 | 18 | 18 | 35 | | GREEN - PIXEL 5 |
| | | | | 0-255 | 0-100% |
| | | | 36 | | GREEN FINE - PIXEL 5 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 15 | 19 | 19 | 37 | | BLUE - PIXEL 5 |
| | | | | 0-255 | 0-100% |
| | | | 38 | | BLUE FINE - PIXEL 5 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 20 | 20 | 39 | | AMBER - PIXEL 5 |
| | | | | 0-256 | 0-100% |
| | | | 40 | | AMBER FINE - PIXEL 5 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 16 | 21 | 21 | 41 | | RED - PIXEL 6 |
| | | | | 0-255 | 0-100% |
| | | | 42 | | RED FINE - PIXEL 6 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 17 | 22 | 22 | 43 | | GREEN - PIXEL 6 |
| | | | | 0-255 | 0-100% |
| | | | 44 | | GREEN FINE - PIXEL 6 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 18 | 23 | 23 | 45 | | BLUE - PIXEL 6 |
| | | | | 0-255 | 0-100% |
| | | | 46 | | BLUE FINE - PIXEL 6 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 24 | 24 | 47 | | AMBER - PIXEL 6 |
| | | | | 0-256 | 0-100% |
| | | | 48 | | AMBER FINE - PIXEL 6 |
| | | | | 0-256 | 16-bit FINE Adjustment |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | |
|---|---|---|---|---|---|
| MODE / CHANNEL | | | | VALUE | FUNCTION |
| 48CH DA | 64CH RGBA | 72CH Pixel | 128CH 16Bit | | |
| 19 | 25 | 25 | 49 | | RED - PIXEL 7 |
| | | | | 0-255 | 0-100% |
| | | | 50 | | RED FINE - PIXEL 7 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 20 | 26 | 26 | 51 | | GREEN - PIXEL 7 |
| | | | | 0-255 | 0-100% |
| | | | 52 | | GREEN FINE - PIXEL 7 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 21 | 27 | 27 | 53 | | BLUE - PIXEL 7 |
| | | | | 0-255 | 0-100% |
| | | | 54 | | BLUE FINE - PIXEL 7 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 28 | 28 | 5 | | AMBER - PIXEL 7 |
| | | | | 0-256 | 0-100% |
| | | | 56 | | AMBER FINE - PIXEL 7 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 22 | 29 | 29 | 57 | | RED - PIXEL 8 |
| | | | | 0-255 | 0-100% |
| | | | 58 | | RED FINE - PIXEL 8 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 23 | 30 | 30 | 59 | | GREEN - PIXEL 8 |
| | | | | 0-255 | 0-100% |
| | | | 60 | | GREEN FINE - PIXEL 8 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 24 | 31 | 31 | 61 | | BLUE - PIXEL 8 |
| | | | | 0-255 | 0-100% |
| | | | 62 | | BLUE FINE - PIXEL 8 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 32 | 32 | 63 | | AMBER - PIXEL 8 |
| | | | | 0-256 | 0-100% |
| | | | 64 | | AMBER FINE - PIXEL 8 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 25 | 33 | 33 | 65 | | RED - PIXEL 9 |
| | | | | 0-255 | 0-100% |
| | | | 66 | | RED FINE - PIXEL 9 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 26 | 34 | 34 | 67 | | GREEN - PIXEL 9 |
| | | | | 0-255 | 0-100% |
| | | | 68 | | GREEN FINE - PIXEL 9 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 27 | 35 | 35 | 69 | | BLUE - PIXEL 9 |
| | | | | 0-255 | 0-100% |
| | | | 70 | | BLUE FINE - PIXEL 9 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 36 | 36 | 71 | | AMBER - PIXEL 9 |
| | | | | 0-256 | 0-100% |
| | | | 72 | | AMBER FINE - PIXEL 9 |
| | | | | 0-256 | 16-bit FINE Adjustment |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | |
|---|---|---|---|---|---|
| MODE / CHANNEL | | | | VALUE | FUNCTION |
| 48CH DA | 64CH RGBA | 72CH Pixel | 128CH 16Bit | | |
| 28 | 37 | 37 | 73 | | RED - PIXEL 10 |
| | | | | 0-255 | 0-100% |
| | | | 74 | | RED FINE - PIXEL 10 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 29 | 38 | 38 | 75 | | GREEN - PIXEL 10 |
| | | | | 0-255 | 0-100% |
| | | | 76 | | GREEN FINE - PIXEL 10 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 30 | 39 | 39 | 77 | | BLUE - PIXEL 10 |
| | | | | 0-255 | 0-100% |
| | | | 78 | | BLUE FINE - PIXEL 10 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 40 | 40 | 79 | | AMBER - PIXEL 10 |
| | | | | 0-256 | 0-100% |
| | | | 80 | | AMBER FINE - PIXEL 10 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 31 | 41 | 41 | 81 | | RED - PIXEL 11 |
| | | | | 0-255 | 0-100% |
| | | | 82 | | RED FINE - PIXEL 11 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 32 | 42 | 42 | 83 | | GREEN - PIXEL 11 |
| | | | | 0-255 | 0-100% |
| | | | 84 | | GREEN FINE - PIXEL 11 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 33 | 43 | 43 | 85 | | BLUE - PIXEL 11 |
| | | | | 0-255 | 0-100% |
| | | | 86 | | BLUE FINE - PIXEL 11 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 44 | 44 | 87 | | AMBER - PIXEL 11 |
| | | | | 0-256 | 0-100% |
| | | | 88 | | AMBER FINE - PIXEL 11 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 34 | 45 | 45 | 89 | | RED - PIXEL 12 |
| | | | | 0-255 | 0-100% |
| | | | 90 | | RED FINE - PIXEL 12 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 35 | 46 | 46 | 91 | | GREEN - PIXEL 12 |
| | | | | 0-255 | 0-100% |
| | | | 92 | | GREEN FINE - PIXEL 12 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 36 | 47 | 47 | 93 | | BLUE - PIXEL 12 |
| | | | | 0-255 | 0-100% |
| | | | 94 | | BLUE FINE - PIXEL 12 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 48 | 48 | 95 | | AMBER - PIXEL 12 |
| | | | | 0-256 | 0-100% |
| | | | 96 | | AMBER FINE - PIXEL 12 |
| | | | | 0-256 | 16-bit FINE Adjustment |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | |
|---|---|---|---|---|---|
| MODE / CHANNEL | | | | VALUE | FUNCTION |
| 48CH DA | 64CH RGBA | 72CH Pixel | 128CH 16Bit | | |
| 37 | 49 | 49 | 97 | | RED - PIXEL 13 |
| | | | | 0-255 | 0-100% |
| | | | 98 | | RED FINE - PIXEL 13 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 38 | 50 | 50 | 99 | | GREEN - PIXEL 13 |
| | | | | 0-255 | 0-100% |
| | | | 100 | | GREEN FINE - PIXEL 13 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 39 | 51 | 51 | 101 | | BLUE - PIXEL 13 |
| | | | | 0-255 | 0-100% |
| | | | 102 | | BLUE FINE - PIXEL 13 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 52 | 52 | 103 | | AMBER - PIXEL 13 |
| | | | | 0-256 | 0-100% |
| | | | 104 | | AMBER FINE - PIXEL 13 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 40 | 53 | 53 | 105 | | RED - PIXEL 14 |
| | | | | 0-255 | 0-100% |
| | | | 106 | | RED FINE - PIXEL 14 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 41 | 54 | 54 | 107 | | GREEN - PIXEL 14 |
| | | | | 0-255 | 0-100% |
| | | | 108 | | GREEN FINE - PIXEL 14 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 42 | 55 | 55 | 109 | | BLUE - PIXEL 14 |
| | | | | 0-255 | 0-100% |
| | | | 110 | | BLUE FINE - PIXEL 14 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 56 | 56 | 111 | | AMBER - PIXEL 14 |
| | | | | 0-256 | 0-100% |
| | | | 112 | | AMBER FINE - PIXEL 14 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| 43 | 57 | 57 | 113 | | RED - PIXEL 15 |
| | | | | 0-255 | 0-100% |
| | | | 114 | | RED FINE - PIXEL 15 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 44 | 58 | 58 | 115 | | GREEN - PIXEL 15 |
| | | | | 0-255 | 0-100% |
| | | | 116 | | GREEN FINE - PIXEL 15 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 45 | 59 | 59 | 117 | | BLUE - PIXEL 15 |
| | | | | 0-255 | 0-100% |
| | | | 118 | | BLUE FINE - PIXEL 15 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 60 | 60 | 119 | | AMBER - PIXEL 15 |
| | | | | 0-256 | 0-100% |
| | | | 120 | | AMBER FINE - PIXEL 15 |
| | | | | 0-256 | 16-bit FINE Adjustment |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | |
|---|---|---|---|---|---|
| **MODE / CHANNEL** | | | | **VALUE** | **FUNCTION** |
| **48CH DA** | **64CH RGBA** | **72CH Pixel** | **128CH 16Bit** | | |
| 46 | 61 | 61 | 121 | | RED - PIXEL 16 |
| | | | | 0-255 | 0-100% |
| | | | 122 | | RED FINE - PIXEL 16 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 47 | 62 | 62 | 123 | | GREEN - PIXEL 16 |
| | | | | 0-255 | 0-100% |
| | | | 124 | | GREEN FINE - PIXEL 16 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| 48 | 63 | 63 | 125 | | BLUE - PIXEL 16 |
| | | | | 0-255 | 0-100% |
| | | | 126 | | BLUE FINE - PIXEL 16 |
| | | | | 0-255 | 16-bit FINE Adjustment |
| | 64 | 64 | 127 | | AMBER - PIXEL 16 |
| | | | | 0-256 | 0-100% |
| | | | 128 | | AMBER FINE - PIXEL 16 |
| | | | | 0-256 | 16-bit FINE Adjustment |
| | | 65 | | | PROGRAM MACROS |
| | | | | 0-19 | NO FUNCTION |
| | | | | 1-20 | PROGRAM 01 |
| | | | | 21-40 | PROGRAM 02 |
| | | | | 41-60 | PROGRAM 03 |
| | | | | 62-80 | PROGRAM 04 |
| | | | | 81-100 | PROGRAM 05 |
| | | | | 101-120 | PROGRAM 06 |
| | | | | 121-140 | PROGRAM 07 |
| | | | | 141-160 | PROGRAM 08 |
| | | | | 161-180 | PROGRAM 09 |
| | | | | 181-200 | PROGRAM 10 |
| | | | | 201-220 | PROGRAM 11 |
| | | | | 221-240 | PROGRAM 12 |
| | | | | 241-250 | PROGRAM 13 |
| | | | | 251-255 | PROGRAM 14 |
| | | 66 | | | PROGRAM MACRO SPEED |
| | | | | 0-255 | Program Macro SPEED SLOW to FAST |
| | | 67 | | | PROGRAM MACRO FADE |
| | | | | 0-255 | Program Macro FADE SLOW to FAST |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | |
|---|---|---|---|---|---|
| MODE / CHANNEL | | | | VALUE | FUNCTION |
| 48CH DA | 64CH RGBA | 72CH Pixel | 128CH 16Bit | | |
| | | | | | COLOR MACROS |
| | | | | 1-4 | Color Macro 01 |
| | | | | 5-8 | Color Macro 02 |
| | | | | 9-12 | Color Macro 03 |
| | | | | 13-16 | Color Macro 04 |
| | | | | 17-20 | Color Macro 05 |
| | | | | 21-24 | Color Macro 06 |
| | | | | 25-28 | Color Macro 07 |
| | | | | 29-32 | Color Macro 08 |
| | | | | 33-36 | Color Macro 09 |
| | | | | 37-40 | Color Macro 10 |
| | | | | 41-44 | Color Macro 11 |
| | | | | 45-48 | Color Macro 12 |
| | | | | 49-52 | Color Macro 13 |
| | | | | 53-56 | Color Macro 14 |
| | | | | 57-60 | Color Macro 15 |
| | | | | 61-64 | Color Macro 16 |
| | | | | 65-68 | Color Macro 17 |
| | | | | 69-72 | Color Macro 18 |
| | | 68 | | 73-76 | Color Macro 19 |
| | | | | 77-80 | Color Macro 20 |
| | | | | 81-84 | Color Macro 21 |
| | | | | 85-88 | Color Macro 22 |
| | | | | 89-92 | Color Macro 23 |
| | | | | 93-96 | Color Macro 24 |
| | | | | 97-100 | Color Macro 25 |
| | | | | 101-104 | Color Macro 26 |
| | | | | 105-108 | Color Macro 27 |
| | | | | 109-112 | Color Macro 28 |
| | | | | 113-116 | Color Macro 29 |
| | | | | 117-120 | Color Macro 30 |
| | | | | 121-124 | Color Macro 31 |
| | | | | 125-128 | Color Macro 32 |
| | | | | 129-132 | Color Macro 33 |
| | | | | 133-136 | Color Macro 34 |
| | | | | 137-140 | Color Macro 35 |
| | | | | 141-144 | Color Macro 36 |
| | | | | 145-148 | Color Macro 37 |
| | | | | 149-152 | Color Macro 38 |

| DYNAMIC AMBER AUTOMATICALLY ADDED TO RGB CHANNELS | | | | | |
|---|---|---|---|---|---|
| MODE / CHANNEL | | | | VALUE | FUNCTION |
| 48CHDA | 64CH RGBA | 72CH Pixel | 128CH 16Bit | | |
| | | | | | COLOR MACROS (continued) |
| | | | | 153-156 | Color Macro 39 |
| | | | | 157-160 | Color Macro 40 |
| | | | | 161-164 | Color Macro 41 |
| | | | | 165-168 | Color Macro 42 |
| | | | | 169-172 | Color Macro 43 |
| | | | | 173-176 | Color Macro 44 |
| | | | | 177-180 | Color Macro 45 |
| | | | | 181-184 | Color Macro 46 |
| | | | | 185-188 | Color Macro 47 |
| | | | | 189-192 | Color Macro 48 |
| | | | | 193-196 | Color Macro 49 |
| | | | | 197-200 | Color Macro 50 |
| | | 68 | | 201-204 | Color Macro 51 |
| | | | | 205-208 | Color Macro 52 |
| | | | | 209-212 | Color Macro 53 |
| | | | | 213-216 | Color Macro 54 |
| | | | | 217-220 | Color Macro 55 |
| | | | | 221-224 | Color Macro 56 |
| | | | | 225-228 | Color Macro 57 |
| | | | | 229-232 | Color Macro 58 |
| | | | | 233-236 | Color Macro 59 |
| | | | | 237-240 | Color Macro 60 |
| | | | | 241-244 | Color Macro 61 |
| | | | | 245-248 | Color Macro 62 |
| | | | | 249-252 | Color Macro 63 |
| | | | | 253-255 | Color Macro 64 |
| | | 69 | | | MASTER DIMMER / INTENSITY |
| | | | | 0-255 | Dimmer (0-100%) |
| | | 70 | | | MASTER DIMMER / INTENSITY FINE |
| | | | | 0-255 | Dimmer (0-100%) |
| | | | | | SHUTTER / STROBE |
| | | | | 0-31 | LED OFF |
| | | | | 32-63 | LED ON |
| | | | | 64-95 | Strobe Effect SLOW to FAST |
| | | 71 | | 96-127 | LED ON |
| | | | | 128-159 | Strobe Pulse Effect In Sequences SLOW to FAST |
| | | | | 160-191 | LED ON |
| | | | | 192-223 | Random Strobe Effect SLOW to FAST |
| | | | | 224-255 | LED ON |
| | | | | | DIMMING MODES |
| | | | | 0-20 | STANDARD |
| | | | | 21-40 | STAGE |
| | | 72 | | 41-60 | TV |
| | | | | 61-80 | ARCHITECTURAL |
| | | | | 81-100 | THEATER |
| | | | | 101-120 | STAGE 2 |
| | | | | 121-255 | DEFAULT TO UNIT SETTING |

# 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

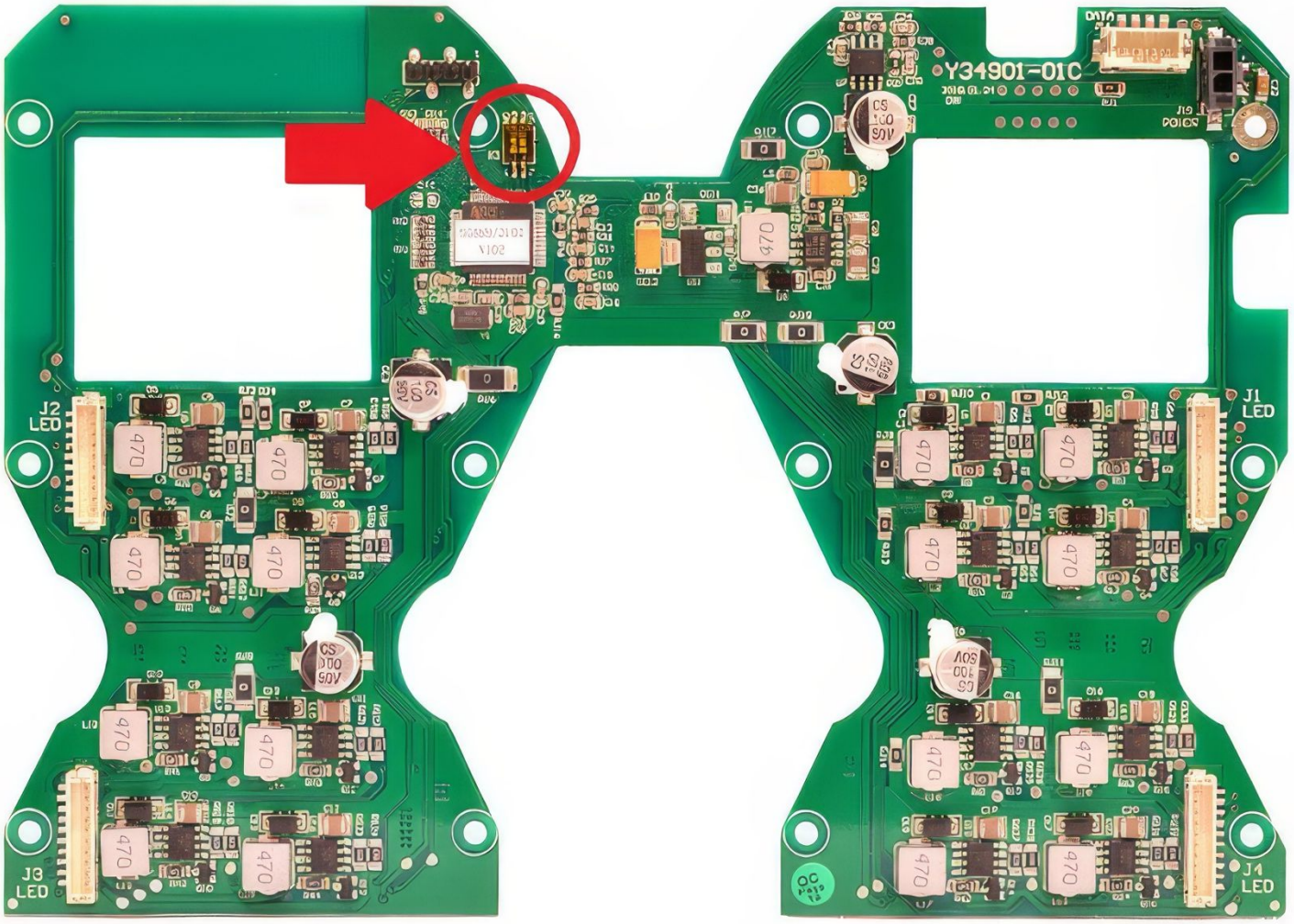
Regular inspections are recommended to insure proper function and extended life.
There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation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

# DRIVER PCB DIPSWITCH SETTINGS

To access the dipswitches located on the driver board, it will be necessary to remove the heatsink lens housings. **Note the orientation of the fixture to locate the corresponding zones indicated in the Dipswitch Settings Chart. Please contact Elation Technical Support for more information.**

| DIPSWITCH SETTINGS CHART | | |
|---|---|---|
| **Zone** | **SW1** | **SW2** |
| Top Left | ON | OFF |
| Top right | ON | OFF |
| Bottom Left | OFF | OFF |
| Bottom Right | OFF | ON |



# S P E C I F I C A T I O N S

## SOURCE

16 30W 4-in-1 RGBA COB LEDs

50,000 Hour Average LED Life*

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

## EFFECTS

Full Pixel Control with Pixel Flip Modes

RGB + Dynamic Amber Channel Modes

Smooth Color Mixing and 64 Internal Color Macros

High Speed Electronic Shutter and Strobe

16Bit Dimming and Variable Dimming Curve Modes

## COLOR

RGBA

## CONTROL / CONNECTIONS

14 DMX Channel Modes (128 total channels)

Adjustable Refresh Rate (900-1500, 25,000 Hz)

Adjustable Gamma Brightness (2.0, 2.2, 2.4, 2.8)

4 Button Control Panel / OLED Menu Display

DMX, RDM, Kling-NET, and Art-NET Protocol Support

IP65 Locking 5pin XLR DMX, RJ45 Ethernet, Power In/Out

Fixture-to-Fixture Interlocking Alignment Pins/Locks

## SIZE / WEIGHT

Length: 17.3” (440mm)

Width: 8.1” (206mm)

Vertical Height: 17.3” (440mm)

Weight: 33.0 lbs. (15.0 kg)

## ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz

520W Max Power Consumption

14°F to 113°F (-10°C to 45°C)

## APPROVALS / RATINGS

CE | cETLus | IP65

C ETL US

Intertek

4010765

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

## 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.

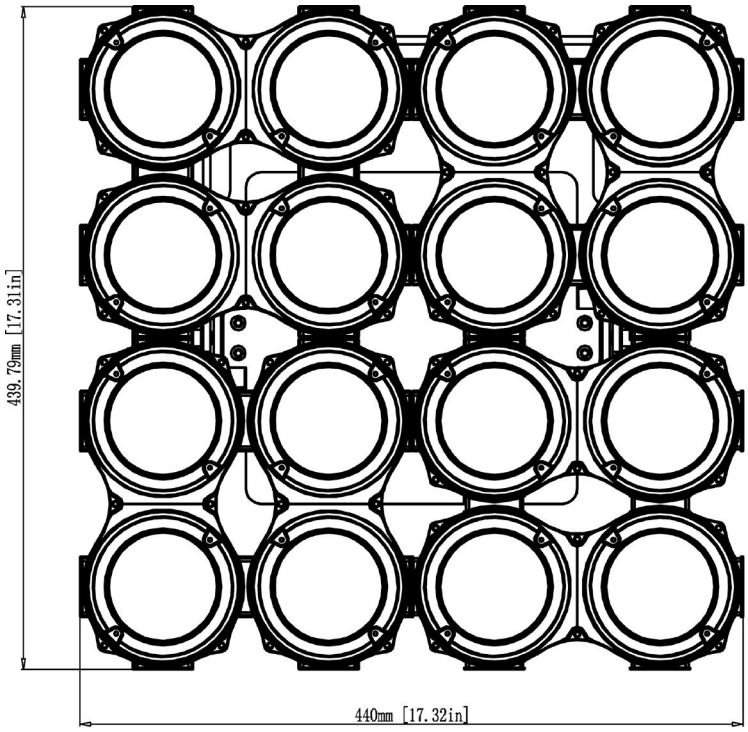
## FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

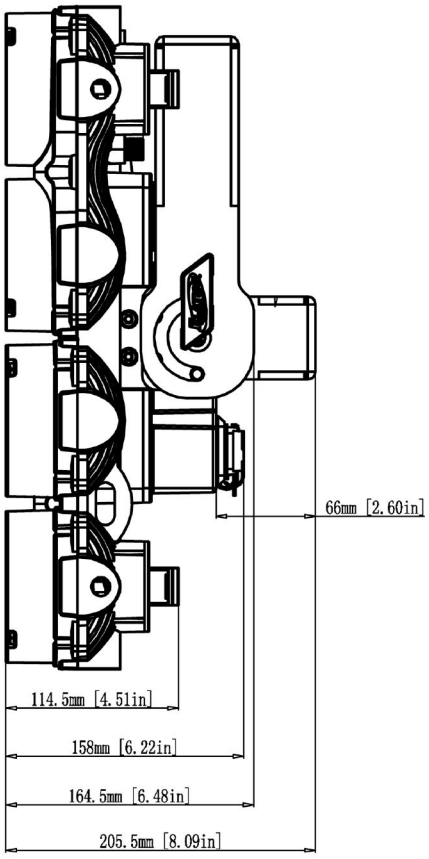
This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used 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:

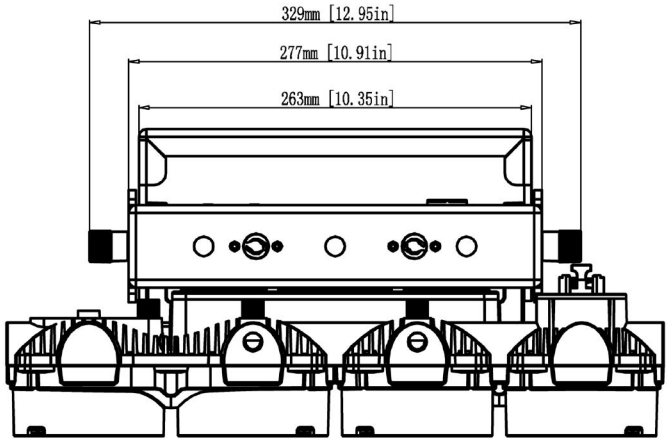
- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

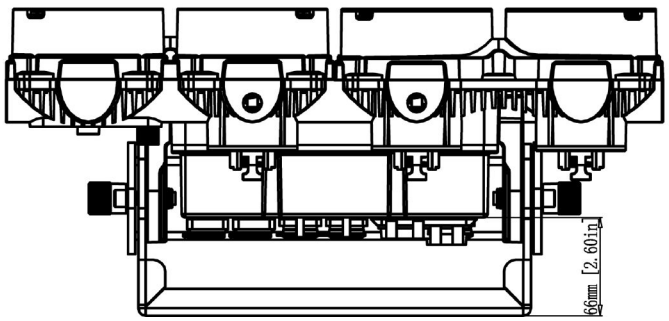
## DIMENSIONAL DRAWINGS

*drawings not to scale




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

# OPTIONAL ACCESSORIES

| ORDER CODE | ITEM |
|---|---|
| DRCCUEPIX16IP | CUEPIX 16IP 6-Pack Road Case |
| TRIGGER CLAMP | Heavy Duty Wrap Around Hook Style Clamp |
| 8050000053 | Omega Bracket 107mm |
| STR527 | 5 ft. (1.5m) IP65 Locking 5pin XLR DMX Cable |
| NEU088 | 3 ft. (1m) IP65 Locking Power Link Cable |
| | Additional Cable Lengths Available |