

*PULSE PANEL

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 Mode	Notes
05/28/24	1.0	1.01	3 / 12 / 22 / 45 / 60 / 170 / 88 / 178 / 156 Ch	Initial Release
07/03/24	1.1	N/C	NO CHANGE	Corrected Dimmer Curves Channel
07/23/24	1.2	N/C	No Change	Updated Ordering Information
09/26/24	1.3	N/C	No Change	Updated Installation Guidelines, Specifications
11/20/24	1.4	N/C	No Change	Updated Zone Layouts, Specifications
04/28/25	1.5	N/C	No Change	Updated Overview, Installation Guidelines, Torque Settings for Screws, IP Test Parameters, Dimensional Drawings; Removed Multi Unit Power Linking

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GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information. This device is intended for use by trained personnel only, and is not suitable for private use.

UNPACKING

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

BOX CONTENTS

Fixture Interconnect Splice (x2) IP65 Locking Power Cable (x1) Safety Cable (x1)

CUSTOMER SUPPORT

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

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

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



THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.

LIMITED WARRANTY (USA ONLY)

- A. Elation Professional hereby warrants, to the original purchaser, Elation Professional products to be free of manufacturing defects in material and workmanship for a period of two years (730 days), and Elation Professional product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days), from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, send the product only to the Elation Professional factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional shall have no liability what so ever for loss and/or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Elation Professional concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional factory unless prior written authorization was issued to purchaser by Elation Professional; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.
- D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Elation Professional will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.
- E. Elation Professional reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.
- G. This warranty is the only written warranty applicable to Elation Professional products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

WARRANTY RETURNS

All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

IP65 RATED

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 designed and tested to protect against the ingress of dust (**6**), and low-pressure water jets from any direction (**5**).

NOTE: THIS FIXTURE IS INTENDED FOR TEMPORARY OUTDOOR USE ONLY!

Maritime/Coastal Environment Installations: A coastal environment is seaside adjacent, and caustic to electronics through exposure to atomized salt-water and humidity, whereas maritime is anywhere within 5-miles of a coastal environment.



NOT suitable for maritime/coastal environment installations. Installing this fixture in a maritime/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 maritime/coastal environment will void the manufactures warranty, and will NOT be subject to any warranty claims and/or repairs.

Maritime installations require additional preparation, and additional service intervals may be needed given the maritime use. In general, IP ratings presuppose freshwater conditions VS maritime conditions, which are typically more "caustic" to IP fixtures (both internally and externally). A duty-cycle may also be needed when units are not in use. During times of high humidity and colder temperatures, condensation may occur internally so the fixture may require a duty-cycle to bring it up to running temperature, allowing any accumulation of moisture to be expelled via the vent valve. Recommendations can change based on installation environmental circumstances. A waterproof dome or similar device is recommended for use in permanent outdoor installations. When using a dome, refer to manufacturer recommendations for duty-cycle.

NOTE: NOT ALL FEATURES LISTED ARE AVAILABLE ON ALL FIXTURES; THE FOLLOWING INSTRUCTIONS MAY NOT APPLY. CONTACT SUPPORT FOR ADDITIONAL DETAILS.

Exterior Maintenance: Inspect the exterior every 30-days. The unit must be powered off/disconnected. The chassis should be inspected for any signs of contaminants. Inspect optics to determine if the lens is obstructed, then clean optics and chassis accordingly. Based on initial finding, schedule maintenance accordingly, keeping in mind that exterior maintenance will be required. Even if the luminaires are NOT in use, maintenance will still be needed given its location (exterior use). The use of a durable type of wax on the chassis is recommended since it will help prevent contaminant build up. Inspect both power and data lines for any signs of contaminants or corrosion. Periodically reapplying di-electric grease, especially in coastal environments. If any signs of corrosion/contaminants are present, clean thoroughly, and/or replace connectors, then reapply di-electric grease. Typically, this should be done annually, or any time an opportunity presents itself. As a preventive measure, annual replacement of both vent valves is recommended. The vent valve membrane can become contaminated and/or clogged causing improper venting of humidity within the luminaire. Inspect all mounting hardware as a precaution.

Interior Maintenance: Inspect the interior every 30-days. The unit must be powered off/disconnected.

- Inspect zoom/focus mechanism, clean optics, lubricate linear bearings (Krytox oil) as needed, inspect belts for wear
- Inspect all rotating effect wheels, manually rotate them, note any resistance
- Inspect all remaining rotating belts for any wear
- Inspect all fans, clean as needed, check rotation, check connections
- Inspect CMY module, manually move flags and check for signs of resistance, and if needed, clean guide rods first, then reapply a thin layer of grease (moly lube)
- Clean interior with low-volume compressed air, then clean optics prior to reassembly of head covers

Although the base has limited moving parts, the pan belt should also be inspected for wear. Remember to always perform an IP test anytime a cover is removed.

There is no specific time frame regarding the routine replacement of parts such as belts/stepper motors, PCBs, or LEDs. These items should only be replaced on an as needed bases, except for cooling fans, which should be replaced once the luminaries reach 10,000-hours. This is a prophylactic measure intended to keep the unit running as cool as possible, insuring proper function of all internal components. A complete service breakdown is available, please contact service@elationlighting.com for any needed parts or manuals.

SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee smooth operation, it is important to follow all instructions and guidelines in this manual. Elation Professional is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture and only the original rigging parts included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.



PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.



THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF. DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS DEVICE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.



DO NOT PLUG THIS UNIT INTO A DIMMER PACK
DO NOT REMOVE THE COVER PANELS FOR ANY REASON
NEVER OPERATE THIS UNIT WITH THE CASING REMOVED
UNPLUG FROM POWER DURING LONG PERIODS OF NON-USE
DISCONNECT POWER BEFORE PERFORMING MAINTENANCE



NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!
FIXTURE SHOULD BE PLACED A MINIMUM OF 1.0 FOOT (0.3 METERS) FROM ANY NEARBY OBJECTS OR SURFACES.



FIXTURE SHOULD BE PLACED A MINIMUM OF 1.6 FEET (0.5 METERS) FROM ANY FLAMMABLE MATERIALS.

AMBIENT OPERATING TEMPERATURE RANGE IS -40°F TO 113° F (-40°C TO 45°C)

SAFETY GUIDELINES

For Your Own Personal Safety, Please Read and Understand This Manual Completely Before You Attempt To Install Or Operate This Unit!

- Do not touch the fixture housing during operation, as it may be hot.
- Do not shake the fixture, and avoid using brute force when installing and/or operating.
- Use only the original packaging and materials to transport or ship the fixture for service. Make sure to retain the original packaging for this purpose.
- Be sure that the local power outlet matches the required voltage for the device.
- Do not open up the device for any reason. There are no user serviceable parts inside.
- Disconnect the device's main power when left unused for long periods of time.
- Never connect this device to a dimmer pack.
- Do not attempt to operate this device if it has been damaged in any way.
- Never operate this device with the cover removed.
- Do not attempt to operate this device if the power cord has been frayed or broken.
- Never force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace immediately with a new cord of the same power rating.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Only handle the power cord by the plug end. Never disconnect the plug by tugging on the wire portion of the power cord.
- Disconnect from main power before making any type of connection.
- Never block the air ventilation slots. Always be sure to mount this device in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Always mount this unit in a safe and stable matter.
- Please route your power cord out of the way of foot traffic. Power cords should be routed so they are not likely to be walked on or pinched by items placed upon or against them.
- Before performing any servicing, turn off and disconnect the device from power and allow at least 15 minutes for the device to cool.
- Consistent operational breaks will ensure that this fixture will function properly for many years.
- The device should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - B. Objects have fallen on, or liquid has been spilled into, the device.
 - C. The device has been immersed in liquid.
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

Keep all flammable materials away from this fixture!

MAINTENANCE GUIDELINES



DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean periodically with a soft cloth to avoid dirt/debris accumulation.

NEVER use alcohol, solvents, or ammonia-based cleaners.

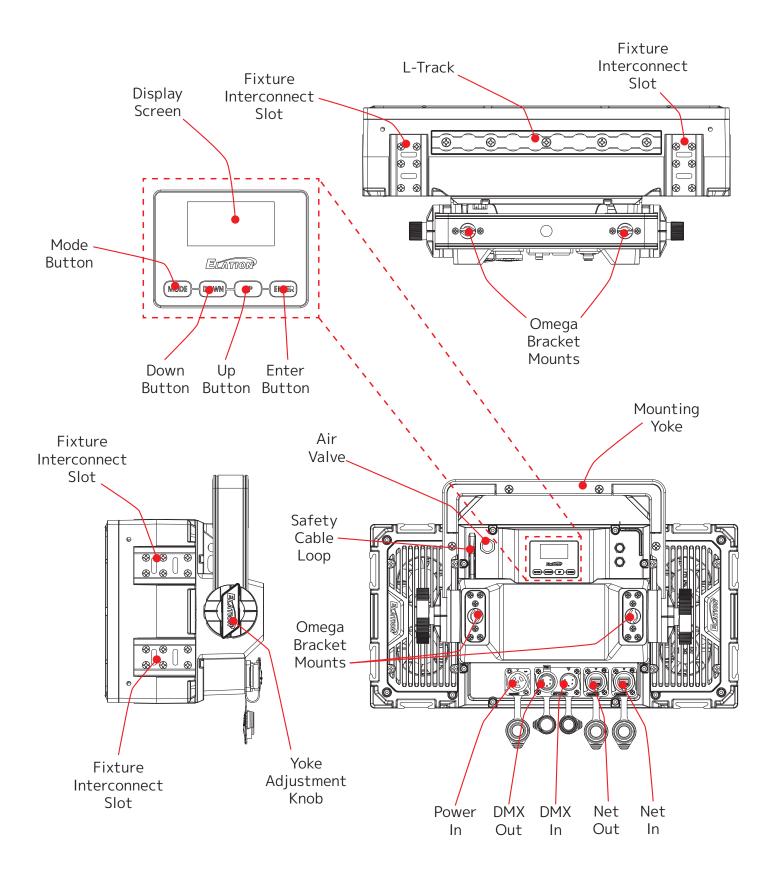
MAINTENANCE

Regular inspections are recommended to 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 an authorized Elation dealer.

Please refer to the following points during routine inspections:

- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue or sediments.

OVERVIEW





FLAMMABLE MATERIAL WARNING

Keep fixture minimum 5.0 feet (1.5m) away from flammable materials and/or pyrotechnics.



ELECTRICAL CONNECTIONS

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



MINIMUM DISTANCE TO OBJECTS/SURFACES IS 1 FOOT (0.3 METERS)



MINIMUM DISTANCE OF FLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METER)



AMBIENT OPERATING TEMPERATURE RANGE IS -40°F TO 113° F (-40°C TO 45°C)



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 fixtures to any metal truss/structure or placing the fixture(s) on any surface, a professional equipment installer **MUST** be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture(s), clamps, cables, and accessories.

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

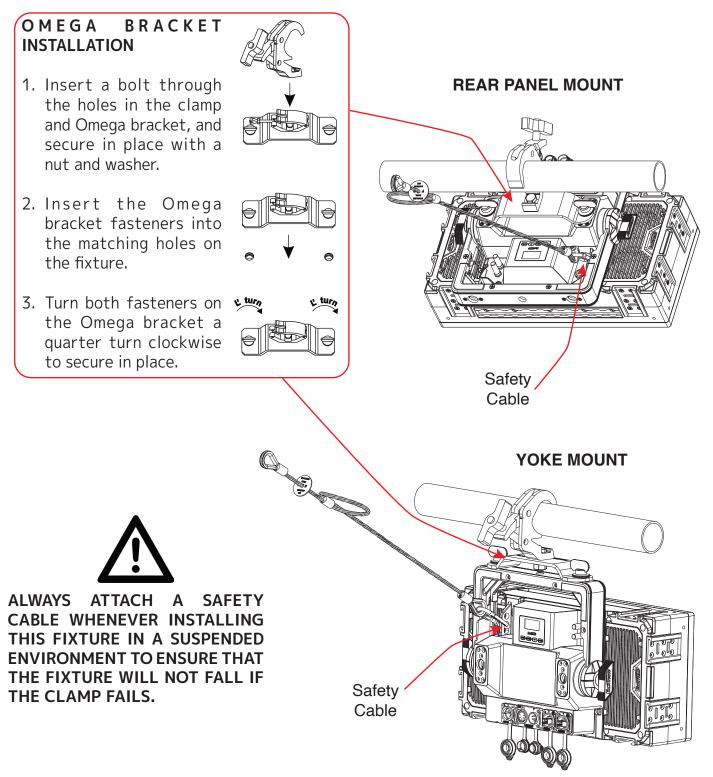
NEVER stand directly below the fixture(s) when rigging, removing, or servicing.

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

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

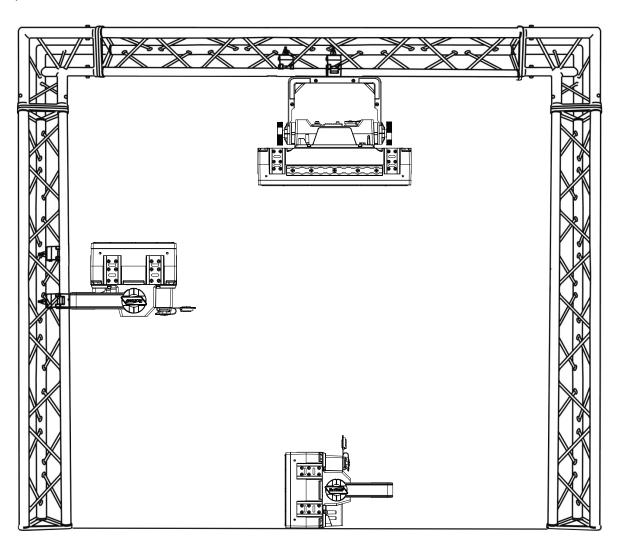
OMEGA BRACKET WITH CLAMP INSTALLATION

When mounting the fixture to a truss, secure an appropriately rated professional grade rigging clamp to the Omega Brackets using an M10 or M12 screw fitted through the center hole of the Omega Brackets, as described below. Attach the Omega bracket to the fixture using the attachment points located on the top of the yoke or on the rear panel. Attach a safety cable of the appropriate weight rating to the provided attachment point beside the display screen.



FIXTURE INSTALLATION

This fixture is fully operational in three different mounting positions: hanging upside-down, mounted sideways on trussing, or set on a flat level surface. Be sure this fixture is kept well away from any flammable materials (decoration etc.). Always use and install a safety cable of the proper rating as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.





FALLING FIXTURES CAN CAUSE SEVERE INJURY OR SERIOUS EQUIPMENT DAMAGE! FOR THIS REASON, FIXTURES SHOULD BE INSTALLED AND INSPECTED ONLY BY QUALIFIED PERSONNEL. DO NOT INSTALL THE UNIT IF YOU LACK THE QUALIFICATIONS TO DO SO, OR IF YOU HAVE DOUBTS ABOUT THE SAFETY AND SECURITY OF THE INSTALLATION SETUP OR LOCATION!

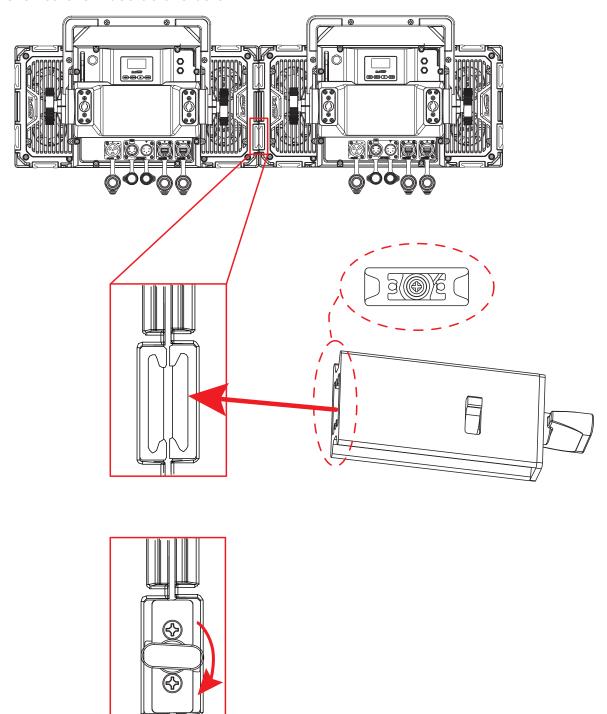


ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

FIXTURE INTERCONNECT SPLICE

Individual fixtures can be physically linked together using the Fixture Interconnect Slots located along the top, bottom, and sides of the fixture, in conjunction with included Fixture Interconnect Splices.

Begin by positioning the fixtures so that the Fixture Interconnect Slots are placed side by side. Insert the Fixture Interconnect Splice into the aperture created by the two Fixture Interconnect Slots, with one half of the Fixture Interconnect Splice inserted into each Fixture Interconnect Slot. Turn the knob on the Fixture Interconnect Splice to lock in place. Please refer to the illustrations below.



ARRAY LIMITATIONS

ATTENTION! It is crucial to ensure that any arrangement consisting of multiple interconnected fixtures, whether in a vertical, horizontal, or shaped configuration, is securely and properly supported and fixed to prevent any movement that may arise from lateral forces, such as wind or physical contact with a person or other object.

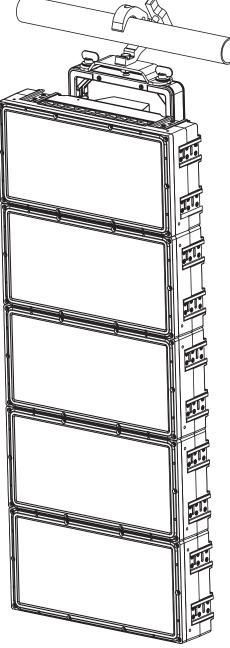
Due to limitations on the amount of weight that the Fixture Interconnect Splices can support, the maximum number of fixtures that can be suspended from a single point of support is as follows:

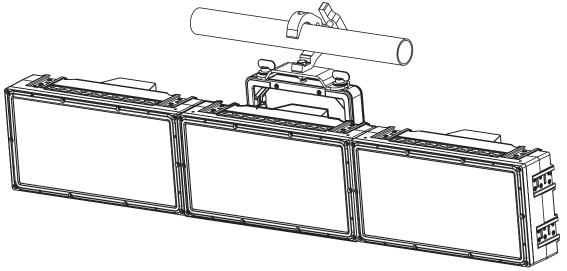
- 3 fixtures total in a horizontally linked configuration
- 5 fixtures total in a vertically linked configuration
- Maximum array weight of 151 lbs (68.5 kg), including fixtures and accessories.



If the design of the array configuration exceeds the limits described above, additional supports will be required.

Please note that two Fixture Interconnect Splices are needed at each junction between two fixtures, both in the vertical and horizontal direction, in order to link them in a safe and secure manner. Avoid transporting assembled arrays while hanging or suspended.





ART-NET | SACN CONNECTION

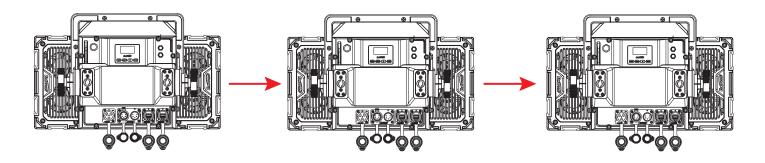
When connecting fixture to a network switch to control multiple devices, a Gigabit Ethernet Switch that supports IGMP (Internet Group Management Protocol) is required. Using a Gigabit Ethernet Switch that does not support IGMP can cause erratic behavior of all connected devices to the switch. Click link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

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

RJ45 DATA CABLES



THE INCLUDED RJ45 DATA CABLE IS INTENDED ONLY FOR FIXTURE TO FIXTURE INTERCONNECTIONS! THE RJ45 CABLE CONNECTORS MAY NOT BE COMPATIBLE WITH OTHER RJ45 OR ETHERNET TYPE CONNECTORS.

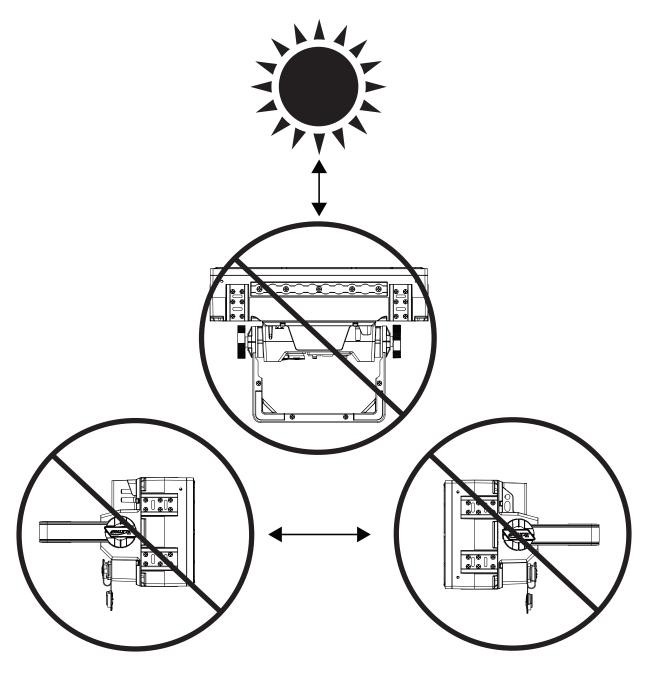


POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

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

This issue is not specific only to ELATION lighting fixtures, it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can prevent any potential damage from occurring if followed. Contact ELATION Service for more details.

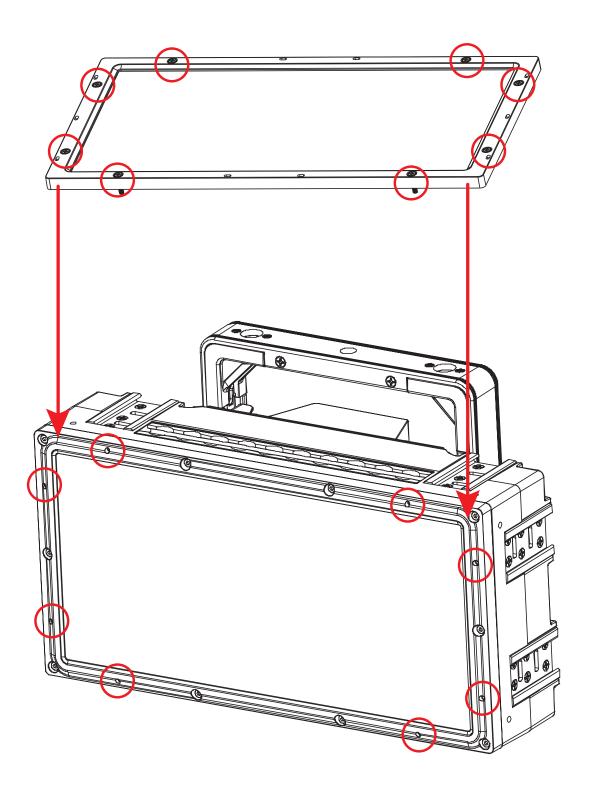
DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING MOVING HEAD FIXTURES, AND LASERS WHILE UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.



ACCESSORY INSTALLATION

FROST FILTERS

This fixture can be fitted with optional filters: a black glass or ND filter, a medium frost filter, a $1x60^{\circ}$ frost filter, or a $60x1^{\circ}$ frost filter. The installation procedure for all filters is identical. Simply align the eight (8) screw holes on the frame of the frost filter with the eight (8) matching holes on the fixture's lens frame. Insert the included screws and tighten to fix the frost filter in place. Refer to the illustration below.



REMOTE DEVICE MANAGEMENT (RDM)

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

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, and allows the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is not easily accessible.

With RDM, the DMX512 system becomes bi-directional, allowing a compatible RDM enabled controller to send out a signal to devices on the wire, as well as allowing the fixture to respond (known as a GET command). The controller can then use its SET command to modify settings that would typically have to be changed or viewed directly via the unit's display screen, including the DMX Address, DMX Channel Mode, and Temperature Sensors.

FIXTURE RDM INFORMATION:

Device ID	Device Model ID	RDM Code	Personality ID
0x004B XXXX	0x004B	0x22A6	001: 3Ch Xenon Strobe 002: 12Ch Simple Strobe 003: 22Ch Strobe FX 004: 45Ch Large Pixels 005: 60Ch Simple Pixel 006: 170Ch Pixel Focus 007: 88Ch Basic Full Control 008: 178Ch Full Control 009: 156Ch Raw Mode

Please be aware that **not all RDM devices support all RDM features**, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

The following parameters are accessible in RDM on this device:

[0x0001] Discovery Unique Branch	[0x00E0] DMX Personality
[0x0050] Supported Parameters	[0x00E1] DMX Personality Description
[0x0060] Device Info	[0x00F0] DMX Start Address
[0x0080] Device Model Description	[0x0200] Sensor Definition
[0x0081] Manufacturer Label	[0x0201] Sensor Value
[0x0082] Device Label	[0x0400] Device Hours
[0x00C0] Software Version Label	[0x1000] Identify Device

FAN MODES

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

Auto (Default) – Fans only run at the speeds needed to keep the LED engine within a safe temperature range, and ensures optimal performance of the fixture. They will turn off if possible; for example, when the fixture is dimmed to a low intensity. Fans sense the ambient and fixture temperature and will, at all times, try to keep noise levels at a minimum. The fixture output will only be reduced when the LED engine cannot be cooled to its safe operating range due to a high ambient temperature.

NOTE: This mode is recommended for daily operation.

Silent – Fan speeds are reduced throughout the fixture for a lower noise profile. The fixture output is also reduced to approximately 80%. This mode should be sufficient for most uses where lower noise is required.

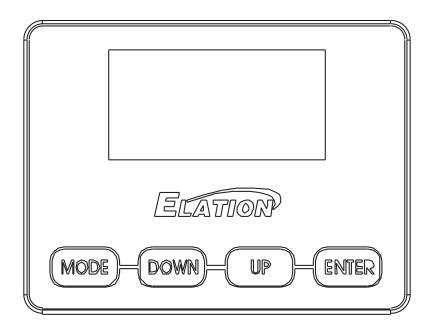
High – Fan speeds are increased throughout the fixture for the most efficient cooling. This mode will increase wear on the fans and should only be utilized in exceptional circumstances. Fans will always run, even if the fixture is dimmed. Fixture output is kept at 100% unless the LED engine temperature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

CONTROL PANEL

The fixture includes an easy to navigate system menu. The control panel display is located on the rear panel of the fixture (see image below) and provides access to the main system menu, where all necessary system adjustments are made to the fixture. During normal operation, you can navigate through the different menu options with the DOWN and UP buttons. To select the option shown on the screen, press the ENTER button, then use the DOWN and UP buttons to adjust the field. Pressing the ENTER button once more will confirm the setting. Exit the main menu at any time without making any adjustments by pressing the MODE button.

The control panel also features a battery charge indicator near the control buttons, as well as a service port for updating the device's software (see the note below).

In default setting, the screen will remain on as long as that device is connected to power. However, it can be configured to lock after a certain period of inactivity by navigating to Settings > Display > Screen Lock in the System Menu. To unlock the device, press and hold the ENTER button until a progress bar appears and fills in.



PLEASE NOTE: For units installed in an outdoor setting, the display screen and control panel may interpret a raindrop as a command input and change the fixture's setting (phantom touch) if the display screen is not locked. The default setting for this unit is to have the display screen unlocked (Settings > Display > Screen Lock > Off). Therefore, to avoid unintentional command inputs, the Screen Lock setting should be configured so that the screen and control will lock after the selected period of inactivity.

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

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

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

ZONE LINKING

The Pulse Panel stands out from other fixtures due to its ability to offer more individually controllable zones and LED types. However, different levels of control may sometimes be required, so multiple selectable DMX modes with varying numbers of control zones are offered to cater to these needs. The fixture also offers Zone Linking capabilites for still greater customization needs and flexibility in fixture usage.

Zone Linking allows users to modify the control and behavior of the RGB StrobeLine and Top and Bottom CW Strobe LEDs. The Top and Bottom CW Strobe LEDs can be controlled in three ways:

- 1. **Default Zone Control** adheres to the default DMX chart settings.
- 2. Top and Bottom CW Strip Link to Center CW Strip, will ignore the assigned channels and follow the corresponding center CW strobe LED zones.
- **3. Top and Bottom CW Strobe Inactive** completely disables that top and bottom CW strobe lines if the user or designer prefers not to include the look they provide.

Zone Linking for the RGB StrobeLine LEDs offers even more options and flexibility:

- 1. **Default Zone Control** adheres to the default DMX chart settings.
- 2. RGB StrobeLine Link to Top Center CW Strobe mirrors the top center CW Strobe LEDs in white light only, blending into one large central strobe array.
- **3. RGB StrobeLine Link to Top RGB** mirrors the top RGB plate LED zones.
- **4. RGB StrobeLine Link to Bottom RGB** mirrors the bottom RGB plate LED zones.
- 5. RGB StrobeLine Inactive completely disables and turns off the RGB StrobeLine LEDs.

Please note that when Zone Linking is enabled, the originally assigned DMX channels are ignored and will have no effect on the fixture output.

FX FUNCTIONS AND FEATURES

Multi-zone fixtures, such as the Pulse Panel, can often command a significant investment of time and effort to create and record impactful effects, and in some cases, the limited number of DMX channels prevents the fixture from being used at its full potential capacity. This new FX control method addresses these concerns by including multiple settings that can be selected and adjusted to customize any pre-built effect that can be selected from the fixture library. The fixture separates the effects for the CW Strobe Zones and the RGB Zones, allowing two looks to be selected simultaneously. Additionally, both effects offer the same level of customization, with the sole exception of color. The FX control method therefore presents a new way for programmers to control and customize effects, providing high impact visuals without the need to set the fixture in its maximum DMX channel layout.

The fixture also includes a pre-built library of effects, which can be selected in the EFFECT SELECTION channel. Once an effect is selected, the EFFECT SPEED channel can be used to adjust the speed at which the effect is played back, and can also be used to reverse the direction of the effect. Another new concept is EFFECT SIZE, which uses a large portion of the fixture zones to display an effect that would otherwise use only a small area, up to and including treating the entire LED display as a single large pixel. This feature is controlled by a variable control channel, creating an even more dynamic effect.

The third control channel for the FX Functions allows the offset of the timing for the effects. For example, if the fixtures are set in a line side by side and an effect needs to move seamlessly from one fixture to the next, the offset can be adjusted as needed until the desired look is achieved. Within the same channel, steps can also be customized for the effect by selecting different randomization settings, allowing each step, selected pixel, or selected fixture to show a unique display. Finally, within that channel, the fade between each step of the effects can be adjusted as well.

Remarkably, all these FX Functions unlock a full effects feature set while only occupying three DMX channels. Once all FX Functions are set as desired, Intensity, Strobe, or Color settings can also be added on top of the effect for even more visual impact and customization options.

	DMX Address	001 - 512		Set DMX address				
		3CH Xenon Strb						
		12CH Simple Strb	12CH Simple Strb					
		22CH Strobe FX]					
		45CH Large Pixel						
	DMX Mode	60CH Simple Pxl		Select DMX channel mode				
		170CH Pxl Focus		mode				
		88CH Basic Full						
		178CH Full Mode						
		156Ch Raw Mode						
DMX		Hold Last	Hold Last					
	No DMX Status	Fade to Black	Unit display fades to black when DMX signal is lost or interrupted					
		Standalone		Unit defaults to standalone mode when DMX signal is lost or interrupted				
			DMX					
			Art-Net					
			sACN					
		Select Signal	Klingnet	Select signal source				
			Aria In - DMX					
			Out	_				
	Protocol		DMX In - Aria Out					
	1100001		0 - 255					
		Universe	default = 1	Set universe				
		IP Address	2.x.x.x	Set IP address				
		Subnet Mask	255.0.0.0	Set subnet mask				
		Ethernet DMX Out	Off / On	Enable or disable DMX signal out over etherne ports				
	Aria	Aria Channel	0 - 14	Select Aria channel				

		RGB Dimmer	000% - 100%					
		Red	0 - 255	7				
	Managal Cambral	Green	0 - 255	Manually configure each				
	Manual Control	Blue	0 - 255	unit parameter				
		CW Strobe Dimmer	000% - 100%	_				
		Virtual Color	•	7				
CONTROL	Primary	On / Off	On / Off					
	Secondary	On / Off		Enable or disable secondary mode				
		All						
	 Self Test	Dimmer		Dorform diagnotic tosts				
	Sell lest	Strobe LED		Perform diagnotic tests				
		Color LED	1					
		Auto						
	Fan Mode	High	High					
		Silent						
		Standard						
		Stage						
		TV						
	Dim Modes	Architectural		Set dim mode and speed				
	Dilli Modes	Theatre	Theatre					
		Stage 2						
SETTINGS		Dim Speed Os - 10s Default = 0.1						
		Linear						
	Dim Curvos	Square		Cot dim curvo				
	Dim Curves	Square Inverse		Set dim curve				
		S-Curve						
		Default Layout						
	7000 Flin	Flip Horizontal		Select pixel zone				
	Zone Flip	Flip Vertical	orientation					
		Flip Horz & Vert						

		Default Control	Yes / No				
			Outer Link Centr				
		Outer CW Linking	Outer CW Off				
	Zana Linking		RGB Line Top CW	Configure how you would like the Pixel Zones to be operationally linked			
	Zone Linking		RGB Line Top				
		RGB Line Linking	RGB	,			
			RGB Line Bot RGB				
			RGB Line Off				
		900Hz - 1500Hz, 25					
	LED Refresh Rate	5000Hz, 6000Hz, 1 20KHz, 25KHz	UNIIZ, TONIIZ,	Set LED refresh rate			
		Default = 1200Hz					
		50%					
		60%					
	LED Power Limit	70%		Set LED power output			
SETTINGS (continued)	LLD TOWER LITTLE	80%		limit			
		90%					
		100%					
		Screen Delay	10s - 5min	Display screen switches off after selected			
		,	Default = 1min	period of inactivity			
		Screen Lock	Off, 10s - 5min	Display screen and controls lock after selected period of inactivity			
	Display		Yes	Inverted display orientation			
		Rotate Display	No	Standard display orientation			
			Auto	Screen orientation automatically rotates to keep display upright			
	Reset Defaults	Yes / No		Reset unit to factory default settings			
		Current Run Time		Display current run time			
	Time	Total Run Time		Display total lifetime run time			
INFORMATION		Last Run Time	Last Run Time				
IN ONIATION		Current		Display current temperature			
	Temperature	Max Resettable		Display max recorded temperature since last reset			

		Red		S: 1	
	DMX Values	Green		Display current DMX value of each parameter	
INFORMATION				value of each parameter	
(continued)	Product IDs	RDM UID		Display RDM UID	
(continued)	Error Logs	Fixture Errors		Display logged errors	
	Software Version	Vx.x		Display current software version	
	Update Firmware	On / Off		Update software	
		All Red	000 - 255		
		All Green	000 - 255		
		All Blue	000 - 255		
		All CW Strobe	000 - 255		
		Red 1	000 - 255		
		Green 1	000 - 255]	
SERVICE	 Calibration	Blue 1	000 - 255	Calibrate each	
Passcode =	Calibration			parameter	
050		Red 36	000 - 255		
		Green 36	000 - 255		
		Blue 36	000 - 255		
		CW Strobe 1	000 - 255]	
]	
		CW Strobe 48	000 - 255		
	Reset Last Run	Yes / No		Reset Last Run Hours	
	Reset Error Logs	Yes / No		Reset error log	

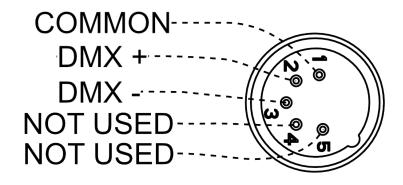
DMX SET UP

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufacturers to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, try to use the shortest cable path possible when linking several DMX fixtures. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example, a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line: at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

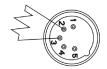
Data Cable (DMX Cable) Requirements (For DMX Operation): This unit can be controlled via DMX-512 protocol. The DMX address is set on the rear panel of the unit. Your unit and your DMX controller require a standard 5-pin XLR connector for data input and data output. We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male XLR connector at one end and a female XLR connector at the other. Also remember that DMX cable must be daisy chained and cannot be split.

Notice: Be sure to follow the illustration below when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.



DMX SET UP

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will reduce the risk of erratic behavior.



A DMX512 terminator reduces signal errors, avoiding most signal reflection interference. Connect PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture in series with a 120 Ohm, 1/4 W Resistor to terminate the DMX512.

DMX ADDRESSING.

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to "listen" to the digital control signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture. Setting all fixtures to the same DMX address will cause all fixtures to react in the same way. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to "listen" to the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

For example, when this unit is operating in 3 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 4 (1 + 3), the third unit to 7 (1 + 3 + 3), and so on. See the chart below for more details.

CHANNEL MODE	UNIT 1 ADDRESS	UNIT 2 ADDRESS	UNIT 3 ADDRESS	UNIT 4 ADDRESS
3Ch	1	4	7	10
12Ch	1	13	25	37
22Ch	1	23	45	67
45Ch	1	46	91	136
60Ch	1	61	121	181
170Ch	1	171	341	511
88Ch	1	89	177	265
178Ch	1	179	357	535
156Ch	1	157	313	469

Fixt. Part	3 Ch	12 Ch	22 Ch	45 Ch	60 Ch	170 Ch	88 Ch	178 Ch	156 Ch	DMX Values	Function	Snap	Def Value		
	1	1	1	1		1	1	1		0 - 255	Master Dimmer		0		
	<u> </u>							'		0 233	Intensity 0 → 100%				
		2	2	2	1	2	2	2		0 - 255	Strobe Dimmer Master]	0		
					<u> </u>					0 233	Intensity 0 → 100%				
	2	3	3	3	2	3	3	3		0 - 255	CW Strobe Duration		0		
					_					0 233	Min → Max				
	3	4	4	4	3	4	4	4		0 - 255	CW Strobe Rate	<u> </u>	0		
		·		·		<u> </u>	·	·		0 200	Fast → Slow				
						CW Strobe Mode]								
										0 - 31	Single Strobe / Standard Mode				
												Ramp Up			
										Ramp Down	<u> </u>				
		5	5	5	4	5	5	5			Ramp Up →Ramp Down] X	255		
												128 - 159]	
											Double Flash				
											Triple Flash]			
					<u> </u>					224 - 255					
		6	6	6	5	6	6	6			RGB Dimmer Master	<u> </u>	0		
										0 - 255	Intensity 0 → 100%				
Main		7	7	7	6	7	7	7			RGB Strobe Duration		0		
										0 - 255	Min → Max				
		8	8	8	7	8	8	8			RGB Strobe Rate	1	0		
										0 - 255	Fast → Slow				
											RGB Strobe Mode	4			
											Single Strobe / Standard Mode	-			
											Ramp Up	4			
											Ramp Down				
		9	9	9			9	9			Ramp Up → Ramp Down] ,	255		
		9	9	9	8	9	9	9		128 - 159		X	255		
											Double Flash	-			
										192 - 223	Triple Flash				
										224 - 225	Sync Dim and Strobe with CW Strobe				
										226 - 255	No Effect	1			
		40	4.0	4.0	_	4.0	4.0	4.0			All Red		255		
		10	10	10	9	10	10	10		0 - 255	Red Saturation 0 → 100	1	255		
		11	11	A A	40	44	A A	4.4			All Green		255		
		11	11	11	10	11	11	11		0 - 255	Green Saturation 0 → 100	1	255		
		4.0	4.0	4.0	4.	4.5	4.0	4.0			All Blue		255		
1		12	12	12	11	12	12	12		0 - 255	Blue Saturation 0 → 100	1	255		

Fixt. Part	3 Ch	12 Ch	22 Ch	45 Ch	60 Ch	170 Ch	88 Ch	178 Ch	156 Ch	DMX Values	Function	Snap	Def Value						
1 0.1 0	<u> </u>	U.	U.	U.	0	0	<u> </u>	<u> </u>	<u> </u>	raides	CW Strobe Effect Selection								
										0	Idle	X	0						
							4.7	4.7		1 - 40	FX Selection 1 → 40								
			13				13	13		41 - 127	Idle								
										128 - 167	FX Selection 1 → 40								
										168 - 255	Idle								
											CW Strobe Effect Speed								
			1,,				1 1 1	1 4		0 - 126	Slow → Fast								
			14				14	14		127 - 128	Stop		0						
										129 - 255	Rev Fast → Slow								
											CW Strobe Effect Size								
											0 - 50	Idle							
										51 - 60	1 Zone								
		1														61 - 70	2 Zone]	
											71 - 80	4 Zone							
			15				15	15		81 - 90	6 Zone	X	0						
			15				15	15		91 - 100	8 Zone] ^	U						
										101 - 110	12 Zone								
										111 - 120	16 Zone]							
Main										121 - 130	24 Zone								
Maili										131 - 140	48 Zone								
										141 - 255	Idle								
											CW Strobe Effect Offset								
										0	Idle								
										1 - 35	Fixture Offset 10 Degrees → 350 Degrees								
										36	Synchronized	<u> </u>							
										37 - 49	Random Fixture Offset]							
										50 - 59	Random Pixel Order	i i							
										60 - 69	Random Steps]							
										70 - 79	Idle								
			16				16	16			Effect Fade	X	0						
										80 - 89	Sinewave - Cross	i i							
										90 - 99	Sinewave - Full								
										100 - 109	Sawtooth - Cross]							
										110 - 119	Sawtooth - Full								
										120 - 129	Ramp Up								
											Ramp Down								
										140 - 149									
										150 - 255	·								
	<u> </u>				<u> </u>					<u> 150 - 255</u>	liaie								

Fixt. Part	3 Ch	12 Ch	22 Ch	45 Ch	60 Ch	170 Ch	88 Ch	178 Ch	156 Ch	DMX Values	Function	Snap	Def Value
											RGB Effect Selection		
										0	Idle		
										1 - 30	FX Selection 1 → 30		
			47				47	47		31 - 100	Idle	\ ,	
			17				17	17		101 - 131	FX Selection 1 → 30	X	0
										132 - 200	Idle		
										201 - 211	RGB Effects 1 → 10		
										212 - 255	Idle		
											RGB Effect Speed		
			18				18	18		0 - 126	Slow →Fast		0
			10				10	10		127 - 128	Stop		U
										129 - 255	Rev Fast → Slow		
											RGB Effect Size		
										0 - 50	Idle		
										51 - 60	1 Zone		
										61 - 70	2 Zone		
									71 - 80	3 Zone			
			19				19	19		81 - 90	6 Zone	X	0
										91 - 100	9 Zone		
Main										101 - 110	15 Zone		
Main										111 - 120	18 Zone		
										121 - 130	36 Zone	_	
										131 - 255	Idle		
											RGB Effect Offset		
										0	Idle		
										1 - 35	Fixture Offset 10 → 350 Degrees		
			20				20	20		36	Synchronized		0
			20				20	20		37 - 49	Random Fixture Offset	1 X	
										50 - 59	Random Pixel Order		
										60 - 69	Random Steps		
										70 - 79	Idle		
											Effect Fade		
										80 - 89	Sinewave - Cross		
										90 - 99	Sinewave - Full		
										100 - 109	Sawtooth - Cross		
			20				20	20		110 - 119	Sawtooth - Full	Х	0
										120 - 129	Ramp Up		
										130 - 139	Ramp Down		
										140 - 149	Steps		
						150 - 255	Idle						

Fixt. Part	3 Ch	12 Ch	22 Ch	45 Ch	60 Ch	170 Ch	88 Ch	178 Ch	156 Ch	DMX Values	Function	Snap	Def Value
											Dim Modes		
										0 - 20	Standard		
											Stage		
										41 - 60	TV		
											Architectural		
											Theatre		
										101 - 120	-		
									Dimmer Delay Time		-		
											_		
										123	0.2s	x	
										124	0.3s		
										125	0.4s		
						13				126 0.5s 127 0.6s	0.5s		
Main			21	13			21	21	128 0.7s 129 0.8s 130 0.9s 131 1.0s 132 1.5s				0
										2.0s	┥		
										134	3.0s	1	
										135	4.0s		
										136	5.0s	1	
									137 6.0s 138 7.0s	137	6.0s	1 1	
										7.0s	1		
										139	8.0s]	
										140	9.0s]	
										141	10s]	
										142 - 255	ldle		

Fixt.	3	12	22	45	60	170	88	178	156	DMX	Function	Snap	Def
Part	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Values		Silap	Value
										0 20	Control	-	
										0 - 29	Idle	- - -	
										30 - 39	Fan Mode: Auto		
										40 - 49	Fan Mode: Silent	-	
										50 - 59 60 - 99	Fan Mode: High	-	
										60 - 99	Idle	-	
										100	Refresh Rate (Hz)	-	
										100	910	-	
										101	920	1	
										103	930		
										104	940		
										105	950		
								22		106	960	1	
										107	970	\dashv	
							22			108	980	1	
										109	990	1	
										110	1000	┥	
										111	1010	1	
										112	1020	1	
										113	1030	1	
Main			22	14	12	14				114	1040	X	0
					'-					115	1050	1 ^	
										116	1060	1	
										117	1070	1	
										118	1080	1	
										119	1090	1	
										120	1100	1	
										121	1110	1	
										122	1120	1	
										123	1130	1	
										124	1140	1	
										125	1150	1	
										126	1160	1	
										127	1170	1	
										128	1180	1	
										129	1190	1	
										130	1200	1	
										131	1210	1	
										132	1220	1	
										133	1230	1	
										134	1240]	
										135	1250		

Part	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	DMX Values	Function	Snap	Def Value
	l .				<u> </u>						Refresh Rate (Hz) (continued)		Value
										136	1260		
									İ	137	1270	1	
,										138	1280	1	
										139	1290]	
										140	1300	1	
										141	1310]	
										142	1320		
										143	1330]	
										144	1340	- - - - -	
									İ	145	1350		
										146	1360		
									İ	147	1370		
										148	1380		
										149	1390		
										150	1400		
										151	1410		
							İ	152 1420	1420				
								22		153	1430]	0
					ĺ		22			154	1440	1	
Main			22	14	12	14				155	1450	X	
Maili			22	14	'	14				156	1460		
										157	1470		
										158	1480]	
										159	1490	1	
										160	1500]	
										161	2500]	
										162	4000]	
										163	5000	- - - -	
										164	6000		
										165	10000		
										166	15000		
										167 20000	20000		
							168 25000	25000]				
										169 - 170	Idle]	
											Zone Flip]	
										171 - 172	Default Zone Arrangement]	
											Flip Zones Horizontally		
										175 - 176	Flip Zones Vertically		
			177	177 - 178	Flip Zones Horizontally and Vertically								
			179 Idle						†				

Fixt. Part	3 Ch	12 Ch	22 Ch	45 Ch	60 Ch	170 Ch	88 Ch	178 Ch	156 Ch	DMX Values	Function	Snap	Def Value
											Zone Linking		
										180 - 181	Zones to Default		
											Top and Bottom CW Strobe Link to Center		
											Top and Bottom CW Strobe Inac- tive		
										186 - 187	RGB StrobeLine Link to Top Center CW Strobe		
Main			22	14	12	14	22	22		188 - 189	RGB StrobeLine Link to Top RGB	X	0
				' '	`~	` `					RGB StrobeLine to Bottom RGB	<u> </u>	
										192 - 193	RGB StrobeLine Inactive		
										194 - 200	Idle]	
											Dimmer Curves		
										201 - 210	Linear		
										211 - 220	Square		
										221 - 230	Inverse Square		
										231 - 240	S-Curve (Default)		
										241 - 255	Idle		
				15	13	15	27	23	1		Red 1		0
				15	15	15	23			0 - 255	Red Saturation 0 → 100		0
				16	14	16	24	24	٦		Green 1		0
				10	14	10	24	24	2	0 - 255	Green Saturation 0 → 100		U
				17	15	17	25	25	3		Blue 1		0
				17	15	' /	25	25)	0 - 255	Blue Saturation 0 → 100		U
				18	16	18	26	26	1		Red 2		0
				10	10	10	20	26	4	0 - 255	Red Saturation 0 → 100		U
				10	17	19	27	27	5		Green 2		0
				19	' /	19	27	27	٦	0 - 255	Green Saturation 0 → 100		U
				20	18	20	28	20	6		Blue 2		0
Pixels				20	10	20	20	28		0 - 255	Blue Saturation 0 → 100		
LIVEIS				21	19	21	29	29	7		Red 3		0
				21	19	2	29	29		0 - 255	Red Saturation 0 → 100		
				22	20	22	30	30	8		Green 3		0
				22	20	22	50	30		0 - 255	Green Saturation 0 → 100		
				23	21	23	31	31	9		Blue 3	_	0
				23	2 1	23	<i>J</i> 1	J1	,	0 - 255	Blue Saturation 0 → 100		U
				24	22	24	32	32	10		Red 4		0
				24		24	۵۷_	٥٧	10	0 - 255	Red Saturation 0 → 100		
				25	23	25	33	33	11		Green 4		0
				25	23	25			_ ' '	0 - 255	Green Saturation 0 → 100		
				26	24	26	34	34	12		Blue 4		0
							J4	J4	12	0 - 255	Blue Saturation 0 → 100		U

Fixt. Part	3 Ch	12 Ch	22 Ch	45 Ch	60 Ch	170 Ch	88 Ch	178 Ch	156 Ch	DMX Values	Function	Snap	Def Value
				27	25	27	35	35	13		Red 5		0
				27	25	21	33	33	13	0 - 255	Red Saturation 0 → 100		U
				28	26	20	36	76	14		Green 5		0
				20	26	28	50	36	14	0 - 255	Green Saturation 0 → 100		U
				29	27	29	37	37	15		Blue 5		0
				29	2 /	29	57	37	15	0 - 255	Blue Saturation 0 → 100		U
				30	20	30	38	38	16		Red 6		0
				30	28	30	50	50	10	0 - 255	Red Saturation 0 → 100		O
				31	29	31	39	39	17		Green 6		0
				31	29	31	29	39	17	0 - 255	Green Saturation 0 → 100		0
				32	30	72	40	40	18		Blue 6		0
				32	30	32	40	40	10	0 - 255	Blue Saturation 0 → 100		
					74	77	11	11	40		Red 7		0
					31	33	41	41	19	0 - 255	Red Saturation 0 → 100		0
					72	7.1	42	42	20		Green 7		0
					32	34	42	42	20	0 - 255	Green Saturation 0 → 100		0
					77	7.5	47	47	24		Blue 7		
					33	35	43	43	21	0 - 255	Blue Saturation 0 → 100		0
					7.4	7.0	4.4	4.4	22		Red 8		0
					34	36	44	44	22	0 - 255	Red Saturation 0 → 100		0
D: .1.					7.	77	4 -	4.5	27		Green 8		
Pixels					35	37	45	45	23	0 - 255	Green Saturation 0 → 100	7	0
					7.0	70	4.0	1.0	24		Blue 8		0
					36	38	46	46	24	0 - 255	Blue Saturation 0 → 100		0
					77	70	47	47	25		Red 9		0
					37	39	47	47	25	0 - 255	Red Saturation 0 → 100		0
					70	40	40	40	26		Green 9		0
					38	40	48	48	26	0 - 255	Green Saturation 0 → 100		0
					70	4.4	40	40	27		Blue 9		0
					39	41	49	49	27	0 - 255	Blue Saturation 0 → 100		0
					40	42	Γ0	Γ0	20		Red 10		0
					40	42	50	50	28	0 - 255	Red Saturation 0 → 100		0
					44	4.7	- 1	- - - - - - - - - -	20		Green 10		0
					41	43	51	51	29	0 - 255	Green Saturation 0 → 100		0
					42	4.4	F 2	F 2	70		Blue 10		0
					42	44	52	52	30	0 - 255	Blue Saturation 0 → 100		0
					4.7	4.5			7.1		Red 11		0
					43	45	53	53	31	0 - 255	Red Saturation 0 → 100		0
					11	16	ΕΛ	ΕA	72		Green 11		0
		L			44	46	54	54	32	0 - 255	Green Saturation 0 → 100		0
					4 -	47	E C	EE	77		Blue 11		0
					45	47	55	55	33	0 - 255	Blue Saturation 0 → 100		0

Fixt. Part	3 Ch	12 Ch	22 Ch	45 Ch	60 Ch	170 Ch	88 Ch	178 Ch	156 Ch	DMX Values	Function	Snap	Def Value
					46	48	E 6	56	34		Red 12		0
					40	40	56	50	34	0 - 255	Red Saturation 0 → 100		
					47	49	57	57	35		Green 12		0
					47	49	57	57	33	0 - 255	Green Saturation 0 → 100		
					48	50	58	58	36		Blue 12		0
					40	50	50	30	30	0 - 255	Blue Saturation 0 → 100		
						51		59	37		Red 13		0
						51		59	57	0 - 255	Red Saturation 0 → 100		U
						52		60	38		Green 13		0
						52		60	30	0 - 255	Green Saturation 0 → 100		U
						53		61	39		Blue 13		0
						55		01	39	0 - 255	Blue Saturation 0 → 100		
						54		62	40		Red 14		0
						54		62	40	0 - 255	Red Saturation 0 → 100		
								67	11		Green 14		
						55		63	41	0 - 255	Green Saturation 0 → 100		0
						F.		C 4	42		Blue 14		
						56		64	42	0 - 255	Blue Saturation 0 → 100		0
								<u>с</u> г	4.7		Red 15		
						57		65	43	0 - 255	Red Saturation 0 → 100		0
Pixels						EO		66	11		Green 15		
Pixeis						58		66	44	0 - 255	Green Saturation 0 → 100		0
						F0		67	4.5		Blue 15		
						59		67	45	0 - 255	Blue Saturation 0 → 100		0
						60		60	16		Red 16		_
						60		68	46	0 - 255	Red Saturation 0 → 100		0
						61		60	47		Green 16		
						61		69	47	0 - 255	Green Saturation 0 → 100		0
						62		70	10		Blue 16		0
						02		70	48	0 - 255	Blue Saturation 0 → 100		U
						63		71	49		Red 17		0
						03		'	49	0 - 255	Red Saturation 0 → 100		
						64		72	50		Green 17		0
						04		12	50	0 - 255	Green Saturation 0 → 100		U
						65		73	51		Blue 17		0
						05		/ 3	ا ا	0 - 255	Blue Saturation 0 → 100		U
						66		74	52		Red 18		0
						00		/4	عد ا	0 - 255	Red Saturation 0 → 100		U
						67		75	53		Green 18		0
						07		/5	در	0 - 255	Green Saturation 0 → 100		
						68		76	54		Blue 18		0
								70	J4	0 - 255	Blue Saturation 0 → 100		

Fixt. Part	3 Ch	12 Ch	22 Ch	45 Ch	60 Ch	170 Ch	88 Ch	178 Ch	156 Ch	DMX Values	Function	Snap	Def Value
						69		77	55		Red 19		0
						09		_ / /	33	0 - 255	Red Saturation 0 → 100		
						70		78	56		Green 19		0
						70		70	50	0 - 255	Green Saturation 0 → 100		U
						71		79	57		Blue 19		0
						/ '		79	57	0 - 255	Blue Saturation 0 → 100		0
						72		80	58		Red 20		0
						12		- 00	50	0 - 255	Red Saturation 0 → 100		U
						73		81	59		Green 20		0
						7.5		01	39	0 - 255	Green Saturation 0 → 100		0
						74		82	60		Blue 20		0
						/ 4		02		0 - 255	Blue Saturation 0 → 100		
						75		83	61		Red 21		0
						73		03	01	0 - 255	Red Saturation 0 → 100		U
						76		84	62		Green 21		0
						/ 0		-04	02	0 - 255	Green Saturation 0 → 100		
						77		85	63		Blue 21		0
Pixels						, ,		03	05	0 - 255	Blue Saturation 0 → 100		
IXCIS						78		86	64		Red 22		0
						70		- 00	04	0 - 255	Red Saturation 0 → 100		
						79		87	65		Green 22		0
						, ,		<u> </u>	05	0 - 255	Green Saturation 0 → 100		
						80		88	66		Blue 22		0
										0 - 255	Blue Saturation 0 → 100		
						81		89	67		Red 23		0
									, , , , , , , , , , , , , , , , , , ,	0 - 255	Red Saturation 0 → 100		
						82		90	68		Green 23		0
			,			02				0 - 255	Green Saturation 0 → 100		Ŭ
						83		91	69		Blue 23		0
						03			0,	0 - 255	Blue Saturation 0 → 100		Ŭ
						84		92	70		Red 24		0
									, ,	0 - 255	Red Saturation 0 → 100		
						85		93	71		Green 24	_	0
									7 .	0 - 255	Green Saturation 0 → 100		
						86		94	72		Blue 24	_	0
									· -	0 - 255	Blue Saturation 0 → 100		
				33	49	87	59	95	73		CW Strobe 1	_	0
										0 - 255	Intensity 0 → 100		
CW				34	50	88	60	96	74		CW Strobe 2	_	0
Strb										0 - 255	Intensity 0 → 100		
				35	51	89	61	97	75		CW Strobe 3		0
										0 - 255	Intensity 0 → 100		

Fixt. Part	3 Ch	12 Ch	22 Ch	45 Ch	60 Ch	170 Ch	88 Ch	178 Ch	156 Ch	DMX Values	Function	Snap	Def Value
				36	52	90	62	98	76		CW Strobe 4		0
				30		90	02	90	70	0 - 255	Intensity 0 → 100		
					53	91	63	99	77		CW Strobe 5		0
					33	91	03	99	_ / / _	0 - 255	Intensity 0 → 100		
					54	92	64	100	78		CW Strobe 6		0
					34	92	04	100	70	0 - 255	Intensity 0 → 100		
					55	93	65	101	79		CW Strobe 7		0
					33	93	03	101	79	0 - 255	Intensity 0 → 100		
					56	94	66	102	80		CW Strobe 8		0
					30	94	00	102	80	0 - 255	Intensity 0 → 100		
					57	95	67	103	81		CW Strobe 9		0
					37	95	07	103	01	0 - 255	Intensity 0 → 100		
					58	96	68	104	82		CW Strobe 10		0
					50	90	00	104	02	0 - 255	Intensity 0 → 100		
					59	97	69	105	83		CW Strobe 11		0
					59	97	09	105	03	0 - 255	Intensity 0 → 100		
					60	98	70	106	0.4		CW Strobe 12		0
					00	98	70	106	84	0 - 255	Intensity 0 → 100		
						00		407	O.E.		CW Strobe 13		
						99		107	85	0 - 255	Intensity 0 → 100		0
CW						100		108	06		CW Strobe 14		_
Strb						100		108	86	0 - 255	Intensity 0 → 100		0
						101		109	0.7		CW Strobe 15		0
						101		109	87	0 - 255	Intensity 0 → 100		
						102		110	00		CW Strobe 16		_
						102		110	88	0 - 255	Intensity 0 → 100		0
						103		111	89		CW Strobe 17		_
						103			09	0 - 255	Intensity 0 → 100		0
						104		112	90		CW Strobe 18		0
						104		112	90	0 - 255	Intensity 0 → 100		U
						105		113	91		CW Strobe 19		0
						105		113	91	0 - 255	Intensity 0 → 100		
						106		114	92		CW Strobe 20		0
						100		114	92	0 - 255	Intensity 0 → 100		U
						107		115	93		CW Strobe 21		0
						107		115	95	0 - 255	Intensity 0 → 100		U
						108		116	94		CW Strobe 22		0
						108		110	94	0 - 255	Intensity 0 → 100		
						109		117	95		CW Strobe 23		0
						109		11/	90	0 - 255	Intensity 0 → 100		U
						110		118	96		CW Strobe 24		0
						110		110	90	0 - 255	Intensity 0 → 100		

	Ch	12 Ch	22 Ch	45 Ch	60 Ch	170 Ch	88 Ch	178 Ch	156 Ch	DMX Values	Function	Snap	Def Value
						111		119	97		CW Strobe 25		0
						1 1 1		119	97	0 - 255	Intensity 0 → 100		0
						112		120	98		CW Strobe 26		0
						112		120	90	0 - 255	Intensity 0 → 100		U
						113		121	99		CW Strobe 27		0
						113		121	99	0 - 255	Intensity 0 → 100		U
						114		122	100		CW Strobe 28		0
						114		122	100	0 - 255	Intensity 0 → 100		U
						115		123	101		CW Strobe 29		0
						113		123	101	0 - 255	Intensity 0 → 100		U
						116		124	102		CW Strobe 30		0
						110		124	102	0 - 255	Intensity 0 → 100		
						117		125	103		CW Strobe 31		0
						1 1 7		125	103	0 - 255	Intensity 0 → 100		
						118		126	104		CW Strobe 32		0
						1 10		120	104	0 - 255	Intensity 0 → 100		
						110		427	40E		CW Strobe 33		
						119		127	105	0 - 255	Intensity 0 → 100		0
						420		420	100		CW Strobe 34		
						120		128	106	0 - 255	Intensity 0 → 100		0
CW						424		420	407		CW Strobe 35		
Strb						121		129	107	0 - 255	Intensity 0 → 100	7	0
						422		470	400		CW Strobe 36		
						122		130	108	0 - 255	Intensity 0 → 100		0
						427		474	400		CW Strobe 37		
						123		131	109	0 - 255	Intensity 0 → 100	7	0
						424		470	440		CW Strobe 38		
						124		132	110	0 - 255	Intensity 0 → 100	7	0
						425		477	444		CW Strobe 39		
						125		155	111	0 - 255	Intensity 0 → 100		0
						126		171	442		CW Strobe 40		
					ĺ	126		154	112	0 - 255	Intensity 0 → 100	7	0
						427		475	447		CW Strobe 41		
						127		135	113	0 - 255	Intensity 0 → 100		0
						420		176	111		CW Strobe 42		
						128		136	114	0 - 255	Intensity 0 → 100	7	0
						430		477	445		CW Strobe 43		
						129		15/	115	0 - 255	Intensity 0 → 100	7	0
						470		470	111		CW Strobe 44		_
						130		138	116	0 - 255	Intensity 0 → 100		0
						474		470	447		CW Strobe 45		_
						131		159	117	0 - 255	Intensity 0 → 100	7	0

Fixt. Part	3 Ch	12 Ch	22 Ch	45 Ch	60 Ch	170 Ch	88 Ch	170 Ch	156 Ch	DMX Values	Function	Snap	Def Value
						132		140	118		CW Strobe 46		0
						152		140	110	0 - 255	Intensity 0 → 100		
CW						133		141	119		CW Strobe 47		0
Strb						133		141	119	0 - 255	Intensity 0 → 100		
						134		142	120		CW Strobe 48		0
						134		142	120	0 - 255	Intensity 0 → 100		
				37		135	71	1/17	121		StrobeLine Red 1		0
				37		133	/ 1	143	121	0 - 255	Red Saturation 0 → 100		0
				38		136	72	144	122		StrobeLine Green 1		0
				30		130	12	144	122	0 - 255	Green Saturation 0 → 100		
				39		137	73	1/15	123		StrobeLine Blue 1		0
				39		137	73	143	123	0 - 255	Blue Saturation 0 → 100		
				40		138	74	146	124		StrobeLine Red 2		0
				40		130	74	140	124	0 - 255	Red Saturation 0 → 100		
				41		139	75	1/17	125		StrobeLine Green 2		0
				41		139	73	147	123	0 - 255	Green Saturation 0 → 100		
				42		140	76	148	126		StrobeLine Blue 2		0
				42		140	70	140	120	0 - 255	Blue Saturation 0 → 100		
				43		 141	77	1/10	127		StrobeLine Red 3		0
				45		141	//	149	127	0 - 255	Red Saturation 0 → 100		
				44		142	78	150	128		StrobeLine Green 3		0
				44		142	70	130	120	0 - 255	Green Saturation 0 → 100		
DCD				45		143	79	151	129		StrobeLine Blue 3		0
RGB Strb				45		143	79	131	129	0 - 255	Blue Saturation 0 → 100		
Line						144	80	152	130		StrobeLine Red 4		0
						144	00	132	130	0 - 255	Red Saturation 0 → 100		
						145	81	157	131		StrobeLine Green 4		0
						143	01	133	131	0 - 255	Green Saturation 0 → 100		
						146	82	154	132		StrobeLine Blue 4		0
						140	02	134	132	0 - 255	Blue Saturation 0 → 100		
						147	83	155	133		StrobeLine Red 5		0
						147	03	133	133	0 - 255	Red Saturation 0 → 100		
						148	84	156	134		StrobeLine Green 5		0
						140	04	130	134	0 - 255	Green Saturation 0 → 100		
						149	85	157	135		StrobeLine Blue 5		0
						149	03	137	133	0 - 255	Blue Saturation 0 → 100		
						150	86	152	136		StrobeLine Red 6	_	0
						130	- 50	130	130	0 - 255	Red Saturation 0 → 100		
						151	87	159	137		StrobeLine Green 6		0
						131	07	139	137	0 - 255	Green Saturation 0 → 100		
						152	88	160	138		StrobeLine Blue 6		0
						152	00	100	130	0 - 255	Blue Saturation 0 → 100		

Fixt. Part	3 Ch	12 Ch	22 Ch	45 Ch	60 Ch	170 Ch	88 Ch	178 Ch	156 Ch	DMX Values	Function	Snap	Def Value
						453		1	470		StrobeLine Red 7		
						153		161	139	0 - 255	Red Saturation 0 → 100		0
						154		460	140		StrobeLine Green 7		
						154		162	140	0 - 255	Green Saturation 0 → 100]	0
						155		167	1 1 1		StrobeLine Blue 7		
						155		163	141	0 - 255	Blue Saturation 0 → 100		0
						156		164	142		StrobeLine Red 8		0
						130		104	142	0 - 255	Red Saturation 0 → 100		
						157		165	143		StrobeLine Green 8		0
						137		103	143	0 - 255	Green Saturation 0 → 100		
						158		166	144		StrobeLine Blue 8		0
						136		100	144	0 - 255	Blue Saturation 0 → 100		U
						159		167	145		StrobeLine Red 9		0
						139		107	143	0 - 255	Red Saturation 0 → 100		
						160		168	146		StrobeLine Green 9		0
						100		100	140	0 - 255	Green Saturation 0 → 100		U
RGB						161		169	147		StrobeLine Blue 9		0
Strb					ļ	101		109	147	0 - 255	Blue Saturation 0 → 100	ļ	
Line						162		170	148		StrobeLine Red 10]	0
						102		170	140	0 - 255	Red Saturation 0 → 100		0
						163		171	149		StrobeLine Green 10]	0
						103		1 / 1	149	0 - 255	Green Saturation 0 → 100		
						164		172	150		StrobeLine Blue 10]	0
						104		172	130	0 - 255	Blue Saturation 0 → 100		
						165		173	151		StrobeLine Red 11]	0
						103		173	131	0 - 255	Red Saturation 0 → 100		
						166		174	152		StrobeLine Green 11		0
						100		.,.	132	0 - 255	Green Saturation 0 → 100		
						167		175	153		StrobeLine Blue 11]	0
						107		173	133	0 - 255	Blue Saturation 0 → 100		
						168		176	154		StrobeLine Red 12]	0
								''	' ' -	0 - 255	Red Saturation 0 → 100		
						169		177	155		StrobeLine Green 12	.	0
					<u> </u>			' ' '		0 - 255	Green Saturation 0 → 100	ļ	
						170		178	156		StrobeLine Blue 12		0
						<u> </u>		, _		0 - 255	Blue Saturation 0 → 100		

ZONE LAYOUTS

Please note that all zones are shown in default pixel flip configuration.

FULL CONTROL, FULL RAW, AND PIXEL FOCUS ZONING

CW Strobe
RGB Zone
RGB Zone
CW Strobe
RGB StrobeLine
CW Strobe
RGB Zone
RGB Zone
CW Strobe

1	2	3	4	5	6	7	8	9	10	11	12
•	1		2	3	3	4	4	!	5	(5
	7	8	3	Ç	9	1	0	1	1	1	2
13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12
25	26	27	28	29	30	31	32	33	34	35	36
1	3	1	4	1	5	1	6	1	7	1	8
1	9	2	0	2	1	2	2	2	3	2	4
37	38	39	40	41	42	43	44	45	46	47	48

SIMPLE PIXEL ZONING

CW Strobe
RGB Zone
CW Strobe
RGB StrobeLine (CW Only)
CW Strobe
RGB Zone

_												
	1	2	3	4	5	6	7	8	9	10	11	12
	•	1	2	2	:	3	4	1		5		5
ſ	1	2	3	4	5	6	7	8	9	10	11	12
)[1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	7	7	w	3	Ģ	9	1	0	1	1	1	2
	1	2	3	4	5	6	7	8	9	10	11	12

BASIC FULL CONTROL ZONING

CW Strobe
RGB Zone
CW Strobe
RGB StrobeLine
CW Strobe
RGB Zone

CW Strobe

CW Strobe

1	2	3	4	5	6
1	2	3	4	5	6
1	2	3	4	5	6
1	2	3	4	5	6
7	8	9	10	11	12
7	8	9	10	11	12
7	8	9	10	11	12

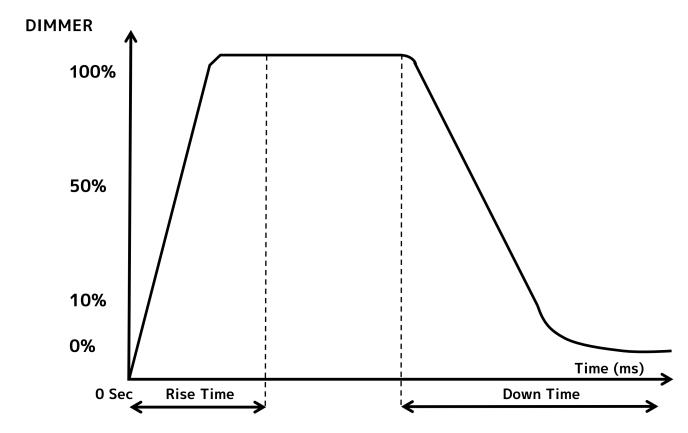
LARGE PIXEL ZONING

CW Strobe
RGB Zone
CW Strobe
RGB StrobeLine
CW Strobe
RGB Zone

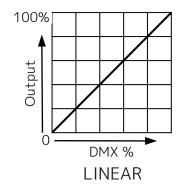
CW Strobe

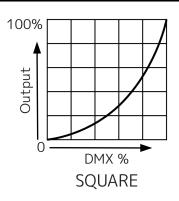
1	
2	3
2	
2	3
3	
5	6
4	
	1 2 2 2 2 3 5

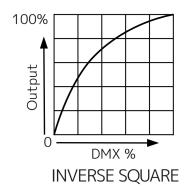
DIMMER MODES & CURVES

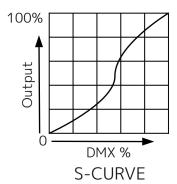


	0 sec Fa	de Time	1 sec Fa	ide Time
Dimming Curve Ramp Effect	0 ———	255	0	255
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660









PRIMARY-SECONDARY SET UP

This function allows you to link units together to run in a Primary-Secondary set-up, in which one unit will act as the controlling unit and the others will react to the controlling unit's built-in programs. Any unit can be configured to act as a Primary or as a Secondary, but only one unit in a given system can be programmed to act as the Primary.

Primary-Secondary Connections and Settings:

- 1. Daisy chain your units via the XLR connectors on the bottom of each unit. Use standard XLR data cables to link your units together. Remember that the male XLR connector is the input and the female XLR connector is the ouput. The first unit in the chain (primary) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.
- 2. On the unit that you want to designate as the primary, use the display screen and control panel to navigate to **Control > Primary**, then press the ENTER button to confirm. Configure the operation of the device as desired.
- 3. On the units that you want to designate as secondaries, use the display screen and control panel to navigate to **Control > Secondary**, then press the ENTER button to confirm. The secondary units will now follow the operation of the primary unit.

NOTES:

- Only one unit should be configured as the primary, while all the other units should be configured as secondaries.
- All units should be set to the same DMX channel mode.
- If fixtures fail to sync, verify that all settings mentioned above are the same, then power all devices off, then switch them on again to re-establish the link.

MAINTENANCE GUIDELINES



DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky, or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean the external lens surface regularly with a soft cloth to avoid dirt/debris accumulation.

NEVER use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

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

Please refer to the following points during routine inspections:

- A. A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- B. Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- C. 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).
- D. Electric power supply cables must not show any damage, material fatigue, or sediments.

NEVER remove the ground prong from the power cable.

TORQUE SETTINGS FOR SCREWS

IN ORDER TO MAINTAIN THE IP65 RATING ON THE LIGHTING FIXTURES, ALL SCREWS MUST BE TIGHTENED TO THE FOLLOWING TORQUE SPECIFICATION USING A TORQUE DRIVER.

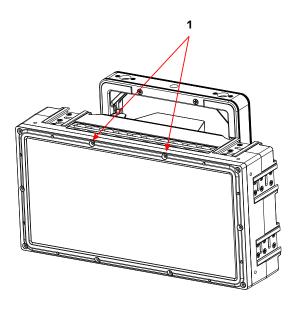
Refer to the table and diagram below for torque specifications.

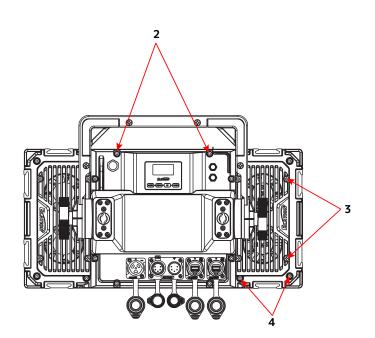
TORQUE DRIVERS (Recommended): UTICA TS-30 ALTERNATE DRIVERS:

- Proto J6107A
- · Wiha 28887



CAUTION! DO NOT OVER TORQUE SCREWS, AS THIS CAN CAUSE LEAKAGE ISSUES!

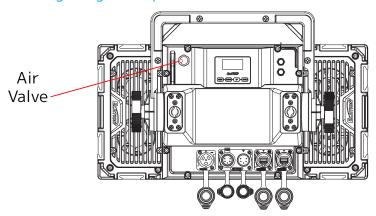




NO.	LOCATION	QUANTITY	TORQUE
1	Fixed Front Cover	10	11.3 <u>+</u> 0.4 lb-in (13.0 <u>+</u> 0.5 kg-cm)
2	Fixed Rear Cover	8	11.3 <u>+</u> 0.4 lb-in (13.0 <u>+</u> 0.5 kg-cm)
3	Fixed Fan Cover	8	4.3 <u>+</u> 0.4 lb-in (5.0 <u>+</u> 0.5 kg-cm)
4	Fixed Base Cover	8	11.3 <u>+</u> 0.4 lb-in (13.0 <u>+</u> 0.5 kg-cm)

IP TEST PARAMETERS

Following any repair or maintenance procedure that requires disassembly of the fixture, use Elation's IP Tester to confirm the IP integrity of the fixture. The air valve is located on the back panel next to the display screen, as shown in the diagram below. Please contact Elation Service for information regarding the Elation IP Tester, or visit the product information page online at: https://www.elationlighting.com/ip-tester





CAUTION! THE USE OF PROTECTIVE GLOVES AND SAFETY GOGGLES IS STRONGLY RECOMMENDED WHILE PERFORMING THE IP PRESSURE TEST! AVOID PLACING YOUR FACE, EYES, HANDS, ETC IN CLOSE PROXIMITY TO THE FIXTURE'S LENS WHILE PERFORMING THE TEST!

DE-HUMIDIFICATION: IP65 fixtures operating in high-humidity environments may experience residual fogging or condensation. Such fogging will not damage the fixture, and can be removed using the following procedure: position the unit with the air valve pointing upwards, then open the air valve and run the unit for 1-2 hours after reaching operating temperature. Then, while the fixture is still hot, re-install the air valve and allow the unit to cool down. Please note that this procedure should be performed in a dry, air-conditioned environment. Avoid additional fogging by drying the fixture completely before placing into a road case.

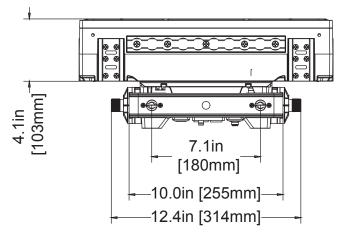


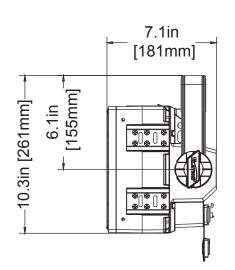
IP PRESSURE TESTING PARAMETERS						
Low Pressure Limit	High Pressure Limit	Inflation Time	Equilibrium Time	Detection Time	Max Leakage	
		Time	Time	Tille	0.014	
2.901 psi (20.0 KPa)	3.336 psi (23 KPa)	30 sec	15 sec	15 sec	psi (100 Pa)	

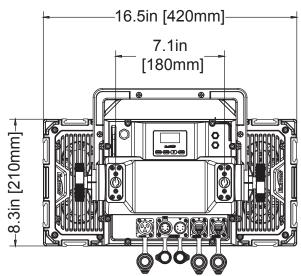
ERROR CODES

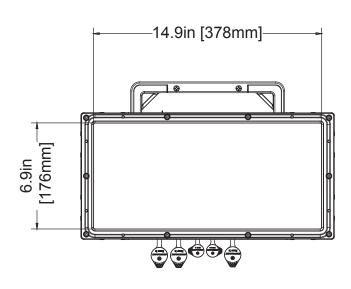
Error Codes subject to change without notice			
ERROR CODES	DESCRIPTION		
LEDTemp	LED Temperature Error		
BaseTemp	Fixture Base Temperature Error		
CoolFan1	Cooling Fan 1 Error		
CoolFan2	Cooling Fan 2 Error		
CoolFan3	Cooling Fan 3 Error		
CoolFan4	Cooling Fan 4 Error		
PowerFan	Power Unit Fan Error		

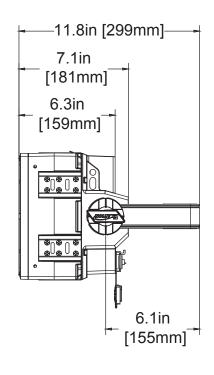
DIMENSIONAL DRAWINGS











SPECIFICATIONS

SOURCE

(1248) 1.5W RGB LEDs (432) 5W CW Strobe 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 **Total Lumen Output: Integrating Sphere:**

All LED: 77,919 Lumens CW LED: 110,709 Lumens RGB LED: 49,868 Lumens

CRI: >70

Beam Angle: 68° Field Angle: 112°

EFFECTS

24 Zones of RGB Plate LEDs (6 x 4) 48 Zones of CW Strobe LEDs (12 x 4) 12 Zones of RGB StrobeLine LEDs (12 x 1) 1- 20Hz Strobe Rate

Library of Customizable RGB and CW Strobe

Effects

Variable Dimming Modes and Curves

COLOR

RGB Color Array

CONTROL / CONNECTIONS

9 DMX Channel Modes (3ch, 12ch, 22ch, 45ch, 60ch, 170ch, 88ch, 178ch, 156ch) 4 Button Control Panel, LED Display Aria x2 Wireless Device Management RDM (Remote Device Management) IP65 5pin XLR DMX In/Out IP65 RJ45 Ethernet In/Out (Art-Net, sACN, KlingNet) IP65 Locking Power Cable In

SIZE / WEIGHT

Length: 16.5in (420mm) Width: 11.8in (299mm) Height: 8.3in (210mm) Weight: 29.5 lbs. (13.4kg)

ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz Max Power Consumption 1400W -4°F to 113°F (-20°C to 45°C) BTU/hr (+/- 10%) 4774

APPROVALS / RATINGS

CE | cETLus | IP65 | FCC | UKCA









ORDERING INFORMATION

SKU (US)	SKU (EU)	ITEM DESCRIPTION
PUL001	1237000343	Elation Pulse Panel
TRIGGER CLAMP	1741000032	Heavy Duty Wrap Around Hook Style Clamp
TOU027	PENDING	Tour Link 5pin, 10Ft, Tour Grade, DMX Data Cable
SPHDY	1236300112	SOL/PULSE HD Yoke
FISP06	1236300110	Fixture Interconnect Splice Package
FICA01	N/A	Interconnect Clamp Adapter

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

