

# ELAR QUAD STRIP™

user manual

ELATION | ELAR QUAD STRIP™ | user manual

©2013 **ELATION PROFESSIONAL** all rights reserved. Information, specifications, diagrams, images, and instructions herein are subject to change without notice. ELATION PROFESSIONAL logo and identifying product names and numbers herein are trademarks of ELATION PROFESSIONAL. Copyright protection claimed includes all forms and matters of copyrightable materials and information now allowed by statutory or judicial law or hereinafter granted. Product names used in this document may be trademarks or registered trademarks of their respective companies and are hereby acknowledged. All non-ELATION brands and product names are trademarks or registered trademarks of their respective companies.

**ELATION PROFESSIONAL** and all affiliated companies hereby disclaim any and all liabilities for property, equipment, building, and electrical damages, injuries to any persons, and direct or indirect economic loss associated with the use or reliance of any information contained within this document, and/or as a result of the improper, unsafe, insufficient and negligent assembly, installation, rigging, and operation of this product.

**Elation Professional USA** | 6122 S. Eastern Ave. | Los Angeles, CA. 90040

323-582-3322 | 323-832-9142 fax | [www.elationlighting.com](http://www.elationlighting.com) | [info@elationlighting.com](mailto:info@elationlighting.com)

**Elation Professional B.V.** | Junostraat 2 | 6468 EW Kerkrade, Netherlands

+31 45 546 85 66 | +31 45 546 85 96 fax | [www.elationlighting.eu](http://www.elationlighting.eu) | [info@elationlighting.eu](mailto:info@elationlighting.eu)

## C O N T E N T S

|                                  |    |
|----------------------------------|----|
| General Information              | 4  |
| Warranty                         | 7  |
| Safety Instructions              | 8  |
| General Guidelines               | 9  |
| Fixture Overview                 | 10 |
| Fixture Installation             | 11 |
| Understanding DMX                | 14 |
| Fixture Menu                     | 18 |
| DMX Channel Functions And Values | 26 |
| Cleaning and Maintenance         | 29 |

## GENERAL INFORMATION

### INTRODUCTION

Congratulations, you have just purchased one of the most innovative and reliable ArtNet to DMX converter on the market today! The **ELAR QUAD STRIP™** has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.



IP65

### 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 high-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.



CRC  
Corrosion  
Resistant  
Coating

### OPTIONAL CORROSION-RESISTANT COATING

Optional Corrosion-Resistant Coatings may be available for this fixture. Please consult your **Elation Professional** sales representative for details.

## **UNPACKING**

Thank you for purchasing the **ELAR QUAD STRIP™** by Elation Professional®. Every **ELAR QUAD STRIP™** 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 appears to be damaged, carefully inspect your unit for damage and be sure all accessories necessary to operate the unit 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 unit to your dealer without first contacting customer support at the number listed below. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

## **CUSTOMER SUPPORT**

Elation Professional® provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at [www.elationlighting.com](http://www.elationlighting.com) for any comments or suggestions. For service related issue please contact Elation Professional®.

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

**Voice: 323-582-3322**

**Fax: 323-832-9142**

E-mail: [support@elationlighting.com](mailto:support@elationlighting.com)

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

**Voice: +31 45 546 85 30**

**Fax: +31 45 546 85 96**

E-mail: [support@elationlighting.eu](mailto:support@elationlighting.eu)

## WARRANTY REGISTRATION

The **ELAR QUAD STRIP™** carries a two-year (730 days) limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support at 323-582-3322.



### **IMPORTANT NOTICE!**

**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 and general user instructions found in this user manual void the manufactures warranty and are not subject to any warranty claims and/or repairs.**

## **2 - YEAR LIMITED WARRANTY**

- 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) from the date of purchase. 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 the entire instrument is sent, it must be shipped in its original package. 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 of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the serial number has been 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 instruction manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period 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 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 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 period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has 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 or damage, direct or consequential, arising out of the use of, or inability to use, this product.
- G. This warranty is the only written warranty applicable to Elation Professional® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

## SAFETY INSTRUCTIONS



The **ELAR QUAD STRIP™** is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual. The manufacturer of this device will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.



This device falls under **PROTECTION CLASS 1**. It's essential this device be grounded properly. Only qualified personnel should perform all electrical connections.



### C A U T I O N S

**UNPLUG POWER BEFORE SERVICING FIXTURE**



**NEVER TOUCH FIXTURE DURING OPERATION AS IT MAY BE HOT**



**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE  
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK**

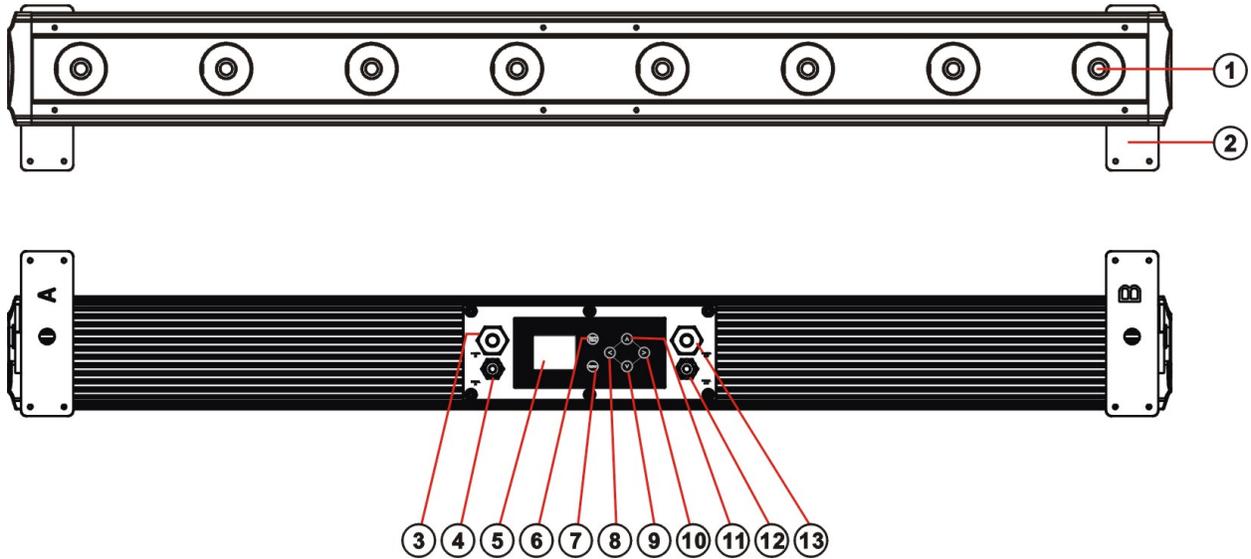
- For proper operation, follow the **Installation** guidelines described in this manual. Only qualified and certified personnel should perform installation of this fixture and only the original rigging parts (brackets) included with this fixture should be used for installation. Any modifications will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.
- Never look directly into the light source of this fixture to prevent risk of injury to your retina, which may induce blindness. Those suffering from **EPILEPSY** should avoid looking directly into the light source of this unit at all times.
- Always disconnect 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.
- Do not operate this fixture if the power cord has become frayed, crimped and/or damaged. If the power cord is damaged, replace it immediately with a new one of similar power rating.

## GENERAL GUIDELINES

- **NEVER OPEN THIS FIXTURE WHILE IN USE!**

- 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.
- Please make sure there are **NO FLAMMABLE MATERIALS** close to the fixture while operating, to prevent any fire hazard.
- **Minimum** distance of inflammable materials from the surface **1.6 feet (0.5m)**.
- **DO NOT** attempt installation and/or operation without knowledge how to do so.
- **DO NOT** allow operation by persons who are not qualified to operate this type of fixture. Most damages are the result of operations by nonprofessionals.
- Consistent operational breaks may ensure the fixture will function properly for many years to come.
- **DO NOT** shake fixture, avoid brute force when installing and/or operating fixture.
- Always install the fixture with an appropriate safety cable. When installing the fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, also be sure the hardware is insert in the pre-arranged screw holes in the bracket of the fixture.
- Use the original packaging and materials to transport the fixture in for service.
- **DO NOT TOUCH** the housing bare-hand during its operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before replacing or serving.

## FIXTURE OVERVIEW



**1: LEDs**

**2: Floor Stand / Clamp Attach Point**

**3: Power IN**

**4: 3pin DMX IN**

**5: LCD Menu Display**

**6: MODE/ESC Button**

**7: ENTER Button**

**8: LEFT Button**

**9: DOWN Button**

**10: RIGHT Button**

**11: UP Button**

**12: 3pin DMX OUT**

**13: Power OUT**

## FIXTURE INSTALLATION



### **FLAMMABLE MATERIAL WARNING**

Keep fixture at least 5.0 ft (1.5m) away from any flammable materials, decorations, pyrotechnics, etc.



### **ELECTRICAL CONNECTIONS**

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



### **CAUTIONS**

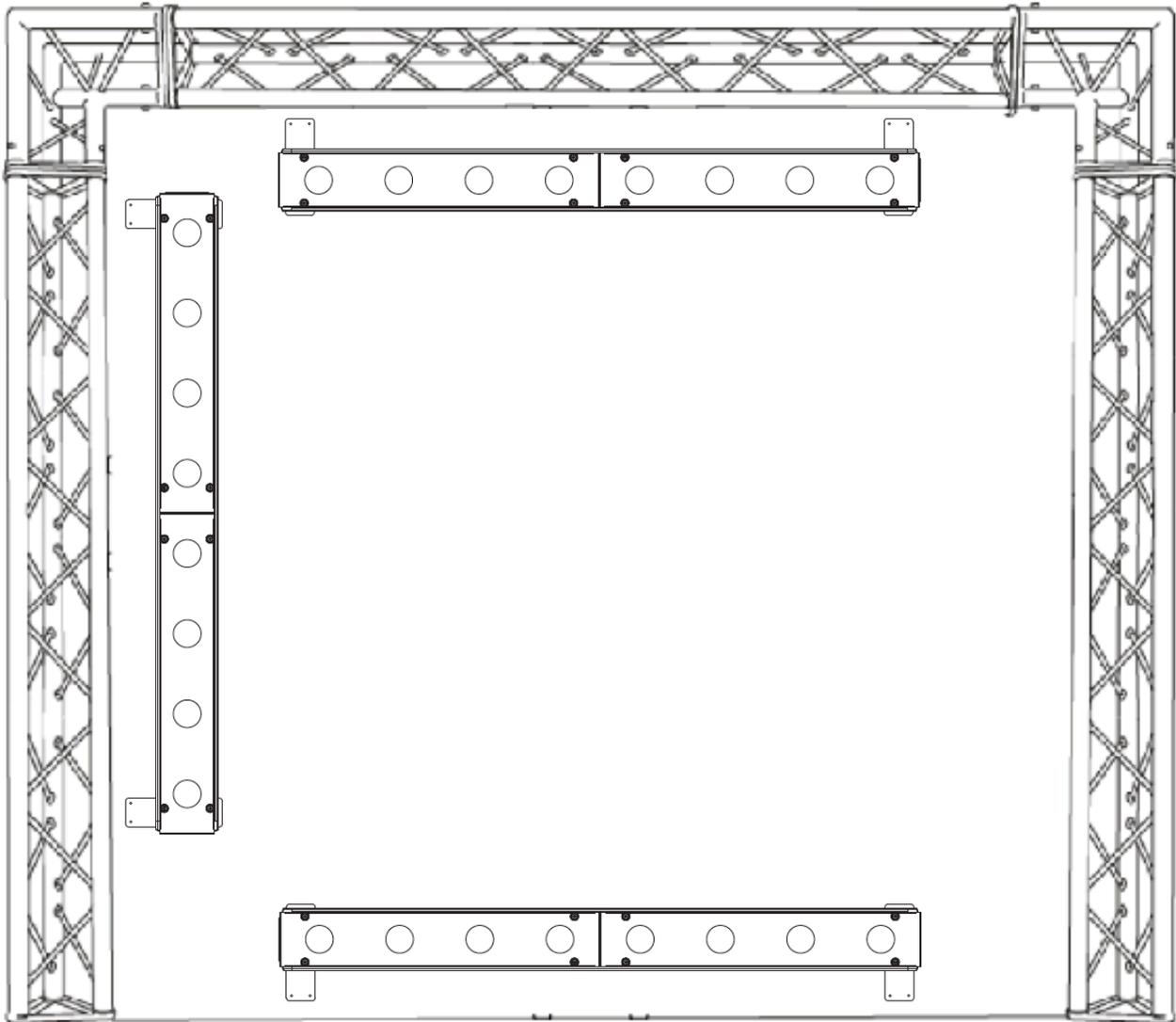
- For added protection, mount the fixture in areas outside walking paths, seating areas, or in areas where unauthorized personnel might reach the fixture.
- Max ambient operating temperature for this fixture is **-13° - 113°F. (-25° - 45°C)**  
Do not use the fixture under or above this temperature.
- Before mounting the fixture to any surface, make sure the installation area can hold a minimum point load of 10 times the weight of the fixture. **310 lbs / 140 kg)**
- Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.
- Never stand directly below the device when mounting, removing or servicing.

### **SECURING**

Regardless of the rigging option you choose for your **ELAR QUAD STRIP™** always be sure to secure your fixture with a safety cable.

## MOUNTING POINTS

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

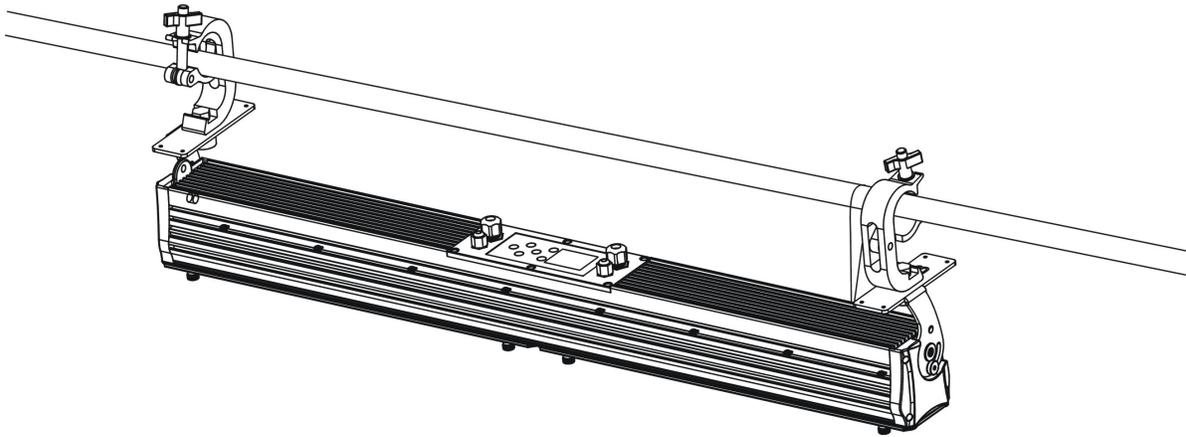


## SAFETY CABLE

**Always use a Safety Cable whenever installing this fixture in a suspended environment to ensure the fixture will not drop if the clamp fails.**

## CLAMP MOUNTING

The **ELAR QUAD STRIP™** provides unique and versatile mounting brackets, which can be used to place the fixture on a flat surface. When mounting this fixture to truss be sure to secure appropriately rated clamps (not included) to the mounting brackets using a M10 screw fitted through the center hole of the bracket. Be sure to attach the included **Safety Cable** to the fixture. (See the illustration below).



## SECURING

Regardless of the rigging option you choose for your **ELAR QUAD STRIP™** always be sure to secure your fixture with a safety cable.

## UNDERSTANDING DMX

### DMX-512

DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers. DMX allows all makes and models of different manufactures to be linked together and operate from a single controller. This is possible as long as all the fixtures and the controller are DMX compliant. A DMX controller sends the DMX data instructions to the fixture allowing the user to control the different aspects of an intelligent light. DMX data is sent out as serial data that travels from fixture to fixture via data "IN" and data "OUT" XLR terminals located on the fixtures (most controllers will only have output jacks).

### DMX LINKING

To ensure proper DMX data transmission, always use proper DMX cables and a terminator. When using several DMX fixtures try to use the shortest cable path possible. Never split a DMX line with a "Y" style connector. The order in which the fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a starting DMX address of 1 may be placed anywhere in the DMX chain, at the beginning, at the end, or anywhere in the middle. The DMX controller knows to send data assigned to address 1 to that fixture no matter where it is located in the DMX chain. The **ELAR QUAD STRIP™** can be controlled via DMX-512 protocol and the DMX address is set via the control menu.

### DATA CABLE (DMX Cable) REQUIREMENTS (For DMX and Master/Slave Operation)

Your fixture and your DMX controller require a standard 3pin or 5pin XLR connector for data input and data output (see figure below). If you are making your own cables, be sure to use two conductor, shielded digital DMX cable rated at 120 ohms; this cable is designed for DMX transmission and may be purchased from your Elation dealer or at most professional lighting retailers. Your cables should be made with a male and female XLR connector on either end of the cable. Also, remember that a DMX line must be daisy chained and cannot be split, unless using an approved DMX splitter such as **Elation's Opto Branch 4™, Opto Branch 8™, or DMX-Branch/4™**.

DMX Output  
3-Pin XLR Socket



DMX Input  
3-Pin XLR Socket



- 1: Ground
- 2: Data (-)
- 3: Data (+)

DMX Output  
5-Pin XLR Socket



DMX Input  
5-Pin XLR Socket



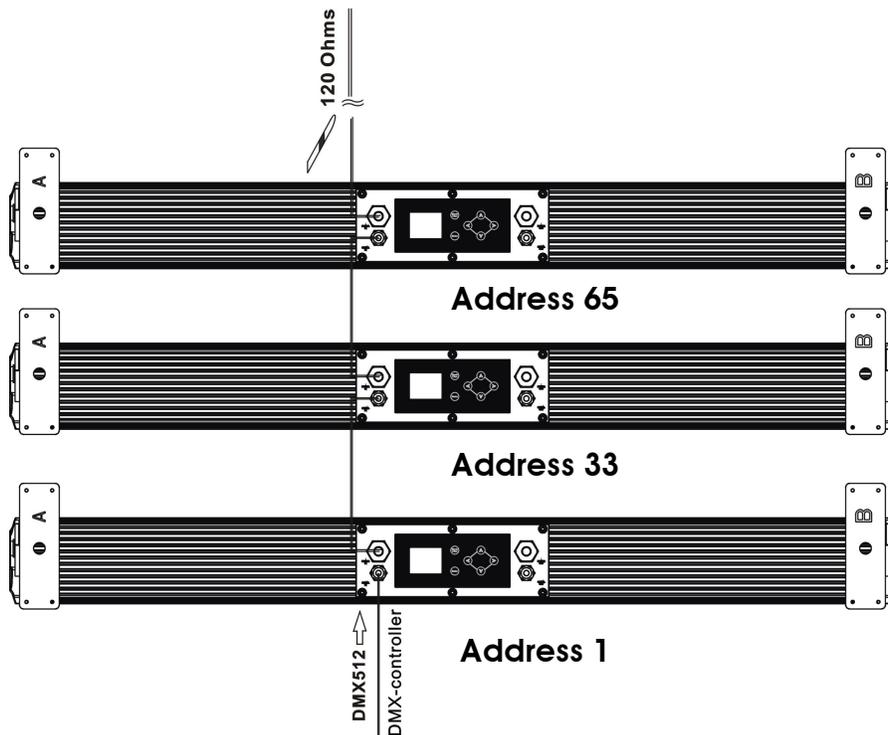
- 1: Ground
- 2: Data (-)
- 3: Data (+)
- 4: Open
- 5: Open



Be sure to follow the above figure 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 outer casing. Grounding the shield could cause a short circuit and erratic behavior.

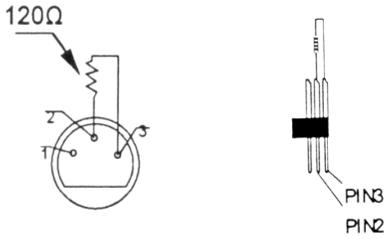
### DMX-512 CONTROLLER CONNECTION

Connect the provided XLR cable to the female XLR output of your controller and the other side to the male XLR input of the **ELAR QUAD STRIP™**. The diagram below illustrates a typical DMX-512 connection when the fixture is in the **32 Channel Mode**. You can chain multiple panels together through serial linking. The cable that should be used is two conductor, shielded DMX cable with XLR input and output connectors. Always be sure daisy chain your in and out data connections, never split or "Y" your DMX connections unless you are using an approved DMX splitter such as **Elation's Opto Branch 4™, Opto Branch 8™, or DMX-Branch/4™**.



### DMX-512 CONNECTION WITH DMX TERMINATOR

A DMX terminator should be used in all DMX lines especially in longer runs. The use of a terminator may avoid erratic behavior in your DMX line. A terminator is a 120 ohm 1/4 watt resistor that is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This fixture is inserted in the female XLR connector of the last fixture in your daisy chain to terminate the line. Using a line terminator will decrease the possibilities of erratic behavior.



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

### 5pin XLR DMX CONNECTORS

Some manufactures use 5pin XLR connectors for DATA transmission in place of 3pin. 5pin XLR fixtures may be implemented in a 3pin XLR DMX line. When inserting standard 5pin XLR connectors in to a 3pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The following chart details a proper cable conversion.

| 3-Pin XLR to 5-Pin XLR Conversion |                        |                     |
|-----------------------------------|------------------------|---------------------|
| Conductor                         | 3-Pin XLR Female (Out) | 5-Pin XLR Male (In) |
| Ground/Shield                     | Pin 1                  | Pin 1               |
| Data Compliment (- signal)        | Pin 2                  | Pin 2               |
| Data True (+ signal)              | Pin 3                  | Pin 3               |
| Not Used                          |                        | Pin 4 - Do Not Use  |
| Not Used                          |                        | Pin 5 - Do Not Use  |

## 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 information sent out from the DMX controller. The allocation of this starting DMX address is achieved by setting the correct DMX address on the digital display located on the back of the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different address for each individual fixture. Be advised that setting all fixtures to the same DMX address will subsequently control all fixtures in the same fashion, 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 control channels (DMX channels) of each fixture. That means changing the settings of one channel will only affect the selected fixture.

In the case of the **ELAR QUAD STRIP™** when in the **32 Channel** you should set the starting DMX address of the first unit to 1, the second unit to 33 (1 + 32), the third unit to 65 (33 + 32), and so on.

**Note:** During start-up the **ELAR QUAD STRIP™** will automatically detect whether a DMX data signal is being received or not. If DMX data signal is being received, the display will show "**Addr=XXX**" (**XXX** representing the actual DMX address). If the fixture is not receiving a DMX signal the display will flash. If your fixture is connected to a DMX controller and the display is flashing (not receiving a DMX signal), please check the following:

- The 3pin or 5pin XLR input plug (cable with DMX signal from controller) is not connected or is not inserted completely into the DMX input jack of the fixture.
- The DMX controller is switched off or defective.
- The DMX cable or connector is defective.
- A DMX terminator has been inserted into the last fixture in your DMX chain.

## FIXTURE MENU

### ON-BOARD SYSTEM MENU

The **ELAR QUAD STRIP™** comes with an easy to navigate system menu. The next section will detail the functions of each command in the system menu.

### LCD MENU CONTROL PANEL

The control panel (see image below) located on the front of the fixture allows you to access the main menu and make all necessary adjustments to the **ELAR QUAD STRIP™**. During normal operation, pressing **MODE/ESC** button once will access the fixture's main menu. Once in the main menu you can navigate through the different functions and access the sub-menus with the **UP, DOWN, RIGHT, and LEFT** buttons. Once you reach a field that requires adjusting, press the **ENTER** button to activate that field and use the **UP** and **DOWN** buttons to adjust the field. Pressing the **ENTER** button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by pressing the **MODE/ESC** button.



|               |  |   |  |   |
|---------------|--|---|--|---|
| Function      | Set DMX Address<br>DMX Value<br>Slave Mode<br>Auto Program | A001~AXXX<br>ALL.....<br>Slave1, Slave2, Slave3<br>Master / Alone   |  | DMX Address Setting<br>DMX Value Display<br>Slave Setting<br>Auto Program   |
| Information   | Time Information   | Current Time<br>Total Run Time<br>Last Run Time<br>Timer Password<br>Clean Last Run   | XXXX (Hours)<br>XXXX (Hours)<br>XXXX (Hours)<br>Password=XXX<br>ON/OFF | Power on running time<br>Fixture running time<br>Fixture Last times clear<br>Timer Password <b>038</b><br>Clear Fixture Last time |
|               | Temperature Info   | Head Temp   |  | Temperature in the head   |
|               | Software Ver   | V1.0.....   |  | Software Version  |
| Personality   | Status Settings  | Addr via DMX<br>No DMX Mode   | ON/OFF<br>Close/Hold/Auto/Music  | Set address via DMX<br>Auto Run if NO DMX   |
|               | Service Setting  | Password<br>RDM PID   | Password=XXX<br>xxxxxx   | Service Password <b>"050"</b><br>RDM PID Code   |
|               | Display Setting  | Shutoff Time<br>Display Reverse<br>Key Lock<br>Disp Flash   | 02~60m 05m<br>ON/OFF<br>ON/OFF<br>ON/OFF                               | Display shutoff time<br>Display Flip 180 °<br>Key Lock<br>Display Flash if NO DMX   |
|               | Temperature C/F  | Celsius<br>Fahrenheit   |  | Temperature switch<br>between °C/°F   |
|               | Initial Status   | PAN =XXX  |  | Initial Effect Position   |
|               | ResetDefault   | ON/OFF  |  | Restore factory settings  |
| Effect Adjust | Test Channel   | Strobe.....   |  | Test functions  |
|               | Manual Control   | Strobe =XXX   |  | Fine adjustments  |
| User Mode Set | User Mode  | 4CH Mode, 5CH Mode, 8CH Mode<br>10CH Mode, 8_2CH Mode,<br>16_4CH Mode, 32CH Mode  |  | Select User Modes   |
|               | Edit User Mode A<br>Edit User Mode B<br>Edit User Mode C   | Max Channel = XX<br>Strobe= CH01<br>:   |  | Define Preset User Modes  |
|               | Select Program   | Prog. Part 1 = Program 1 ~ 10 Program 1<br>Prog. Part 2 = Program 1 ~ 10 Program 2<br>Prog. Part 3 = Program 1 ~ 10 Program 3 |  | Select Internal Programs  |
| Edit Prg      | Edit Program   | Program 1<br>:<br>Program 10  | Program Test<br>Step 01=SCxxx<br>Step 64=SCxxx                         | Testing program<br>Program in loop<br>Save and exit   |
|               | Edit Scenes  | Edit Scene 001<br>:<br>Edit Scene 125   | Pan,Tilt,.....<br>--Fade Time--<br>--Secne Time--<br>Input By Outside  | Save and automatically<br>return manual scenes edit   |
|               | Rec Controller   | XX~XX   |  | Automat. Scenes rec   |

Default Settings Shaded

**FUNCTION - Set DMX Address**

Define desired DMX address via the Control Panel.

**FUNCTION - DMX Value**

Display DMX 512 value of each channel.

**FUNCTION - Slave Mode**

Define fixture slave mode (**Slave1, Slave2, Slave3**).

**FUNCTION - Auto Program**

Define fixture mode (**Master or Alone**) for running Auto Programs. Select desired internal programs under “**Select Program**”, set the number of steps under “**Edit Program**”, and edit individual scenes under “**Edit Scenes**”.

**INFORMATION - Time Information - Current Time**

Displays fixture run time from last power ON.

The counter is reset after each time the fixture is powered OFF.

**INFORMATION - Time Information - Total Run Time**

Displays fixture total run time.

**INFORMATION - Time Information - Last Run Time**

Displays fixture run time for a given period of time (i.e. rental period).

This counter can be reset.

**INFORMATION - Time Information - Timer Password**

Display the fixture timer password. (**038**)

**INFORMATION - Time Information - Clean Last Run**

Resets the last run time of the fixture.

**INFORMATION - Temperature Information - Head Temperature**

Displays temperature of the fixture.

**INFORMATION - Software Version**

Displays software version of the fixture.

### **PERSONALITY - Status Settings - Address Via DMX**

When ON, define the desired DMX address via an external controller.

1. Connect the fixture to the external controller and power ON.
2. Set the DMX value of **Channel 1** on the controller to **(7)**.
3. Set the DMX value of **Channel 2** on the controller to **(7)** or **(8)**.  
When set to **(7)**, the DMX address can be set between **(1)** and **(255)**.  
When set to **(8)**, the DMX address can be set between **(256)** and **(511)**.
4. Using **Channel 3** on the controller set the desired DMX address of the fixture.

#### **Example 1:**

If the desired DMX address is **57**, set **Channel 1** to a value of **(7)**, set **Channel 2** to a value of **(7)**, and then set **Channel 3** to a value of **(57)**.

#### **Example 2:**

If the desired DMX address is **420**, set **Channel 1** to a value of **(7)**, set **Channel 2** to a value of **(8)**, and then set **Channel 3** to a value of **(164)**. (256+164=420)

5. After setting **Channel 3** to the desired DMX address value, wait for approximately 20 seconds for the fixture to complete the address reset function.

### **PERSONALITY - Status Settings - No DMX Status**

Define how fixture operates if NO DMX signal is detected.

### **PERSONALITY – Service Setting - Password**

Displays the service setting password. **(050)**

### **PERSONALITY – Service Setting - RDM PID**

RDM (Remote Device Management)

### **PERSONALITY - Display Setting – Shutoff Time**

Define how many minutes before the LCD Menu display will automatically shut OFF.

### **PERSONALITY - Display Setting – Display Reverse**

When ON, the LCD Menu display by is rotated (inverted) 180°.

### **PERSONALITY - Display Setting – Key Lock**

When ON, Control Panel buttons lock automatically after exiting main menu for 15 seconds. To unlock, keep **MODE/ESC** button pressed for 3 seconds.

**PERSONALITY - Display Setting – Disp Flash**

When ON, the LCD Display will flash when the fixture is NOT receiving a DMX signal.

**PERSONALITY – Temperature C/F**

Define how fixture displays internal temperature (Celsius or Fahrenheit).

**PERSONALITY – Initial Status**

Create custom PAN/TILT and Effect settings and save as a custom Home Position.

**PERSONALITY – Reset Default**

When ON, all factory settings are restored.

**EFFECT ADJUST – Test Channel**

Select and auto test each channel function independently from the DMX controller.

**EFFECT ADJUST – Manual Control**

Select and manually test and fine adjust each individual channel function independently from DMX control board. This function will center PAN and TILT motors and set dimmer to 100%. PAN and TILT functions will still operate if the fixture needs to be positioned to a flat clear surface. With the individual functions, you can focus the light on a flat surface (wall) and perform fine adjustments.

**USER MODE SET – User Mode**

Select operating mode, which includes DMX Channel and User defined modes.

**USER MODE SET – Edit User Mode**

Create user defined channel orders allowing the fixture to match the channel order of other fixtures on the market for easier operation. A total of three user modes may be configured: User Mode A, User Mode B, and User Mode C.

**EDIT PROGRAM – Select Program**

Select one of the (10) user defined internal Auto Programs.

**EDIT PROGRAM – Edit Program**

Edit any of the (10) user defined internal Auto Programs.

**EDIT PROGRAM – Edit Scenes**

Edit any of the scenes of the internal Auto Programs.

## **EDIT PROGRAM – Record Controller**

The fixture features an integrated DMX-recorder by which you can transmit the programmed scenes from your DMX-controller to the moving head. Adjust the desired scene numbers via the encoder (from – to). When you call up the scenes at your controller, they will automatically be transmitted to the moving head.

## **EDIT PROGRAM – Record Controller – Working With Built In Programs**

A Master unit can send up to 3 different data groups to the Slave units, i.e. a Master unit can start 3 different Slave units, which run 3 different programs. The Master unit sends the 3 program parts in a continuous loop.



The Slave unit receives data from the Master unit according to the group which the Slave unit was assigned to. If e.g. a Slave unit is set to “**Slave 1**” in the menu “**Set to Slave**”, the Master unit sends “**Auto Program Part 1**” to the Slave unit. If set to “**Slave 2**”, the Slave unit receives “**Auto Program Part 2**”.

To start an Auto Program proceed as follows:

### **1. Slave Setting**

- Select “**Function Mode**”.
- Press **ENTER** to confirm.
- Select “**Set to Slave**”.
- Press **ENTER** to confirm.
- Select “**Slave 1**”, “**Slave 2**” or “**Slave 3**”.
- Press **ENTER** to confirm.
- Press **MODE/ESC** in order to return to the main menu.

## **EDIT PROGRAM – Record Controller – Working With Built-In Program [continued]**

### **2. Automatic Program Run**

- Select “**Function Mode**”.
- Press **ENTER** to confirm.
- Select “**Auto Program**”.
- Press **ENTER** to confirm.
- Select “**Master**” or “**Alone**”.
- Press **ENTER** to confirm.
- Press **MODE/ESC** in order to return to the main menu.

### **3. Program Selection for Auto Pro Part**

- Select “**Edit Program**”.
- Press **ENTER** to confirm.
- Select “**Select Programs**”.
- Press **ENTER** to confirm.
- Select “**Auto Pro Part 1**”, “**Auto Pro Part 2**” or “**Auto Pro Part 3**”, and select which Slave program is to be sent. Selection “**Part 1**” means, that the Slave unit runs the same program as the master units.
- Press **ENTER** to confirm.
- Press **MODE/ESC** in order to return to the main menu.

### **4. Program Selection for Edit Program**

- Select “**Edit Program**”.
- Press **ENTER** to confirm.
- Select “**Edit Program**”.
- Press **ENTER** to confirm.
- Select the desired program. With this function you can edit specific scenes into a specific program.
- Press **ENTER** to confirm.
- Press **MODE/ESC** in order to return to the main menu.

## EDIT PROGRAM – Record Controller – Working With Built-In Program [continued]

### 5. Automatic Scene Recording

- Select “**Edit Program**”.
- Press **ENTER** to confirm.
- Select “**Edit Scenes**”.
- Select desired scene numbers. A maximum of 250 scenes can be programmed.
- Press **ENTER** to confirm.
- Press **MODE/ESC** in order to return to the main menu.

#### Example:

Program 2 includes scenes: 10, 11, 12, & 13

Program 4 includes scenes: 8, 9, & 10

Program 6 includes scenes: 12, 13, 14, & 15

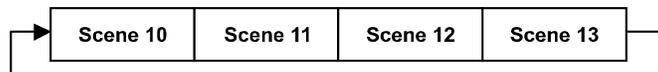
Auto Pro Part 1 is Program 2

Auto Pro Part 2 is Program 3

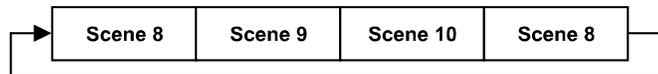
Auto Pro Part 3 is Program 6

The 3 Slave groups run the Auto Program in certain time segments, as shown in the following picture:

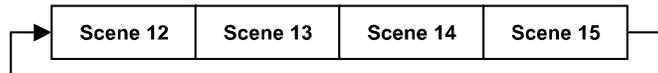
Part 1:



Part 2:



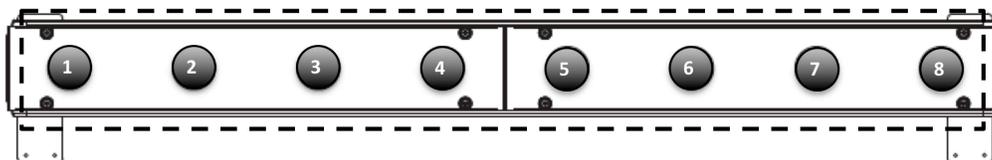
Part 3:



# DMX CHANNEL FUNCTIONS AND VALUES

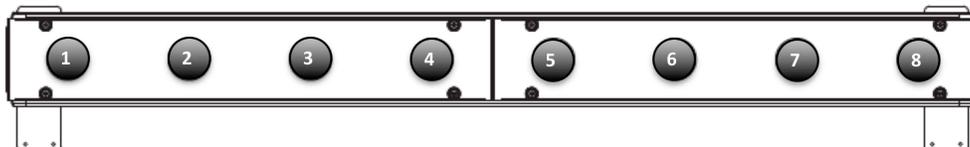
| ELATION® ELATION QUAD STRIP™                     |   |   |    |     |      |   |
|--|---|---|----|-----|------|---|
| DMX Channel Values / Functions (32 DMX Channels) |   |   |    |     |      |   |
| MODE/CHANNEL                                     |   |   |    |     |      |   |
| 4  | 5 | 8 | 10 | 8_2 | 16_4 | 32  |
| 1  | 1 | 1 | 1  |     |      |   |
| <b>RED - All LEDs [1-8]</b>                      |   |   |    |     |      |   |
|  |   |   |    |     |      | 0-255 Red ( 0-Black , 255-100% Red )      |
| 2  | 2 | 2 | 2  |     |      |   |
| <b>GREEN - All LEDs [1-8]</b>                    |   |   |    |     |      |   |
|  |   |   |    |     |      | 0-255 Green ( 0-Black , 255-100% Green )  |
| 3  | 3 | 3 | 3  |     |      |   |
| <b>BLUE - All LEDs [1-8]</b>                     |   |   |    |     |      |   |
|  |   |   |    |     |      | 0-255 Blue ( 0-Black , 255-100% Blue )    |
| 4  | 4 | 4 | 4  |     |      |   |
| <b>WHITE - All LEDs [1-8]</b>                    |   |   |    |     |      |   |
|  |   |   |    |     |      | 0-255 White ( 0-Black , 255-100% White )  |
|  |   |   |    |     |      | <b>SHUTTER, STROBE</b>                    |
|  |   |   |    |     |      | 0-31 All LEDs OFF                         |
|  |   |   |    |     |      | 32-63 All LEDs ON                         |
|  |   |   |    |     |      | 64-95 Strobe Effect SLOW to FAST          |
|  |   |   |    |     |      | 96-127 All LEDs ON                        |
|  |   |   |    |     |      | 128-159 Pulse Effect In Sequences         |
|  |   |   |    |     |      | 160-191 All LEDs ON                       |
|  |   |   |    |     |      | 192-223 Random Strobe Effect SLOW to FAST |
|  |   |   |    |     |      | 224-255 All LEDs ON                       |
|  |   |   |    |     |      | <b>DIMMER INTENSITY</b>                   |
|  |   |   |    |     |      | 0-255 Intensity 0 to 100%                 |
|  |   |   |    |     |      | <b>CHASE MACROS</b>                       |
|  |   |   |    |     |      | 0-10 All LEDs OFF                         |
|  |   |   |    |     |      | 11-40 Chase Macro 1                       |
|  |   |   |    |     |      | 41-70 Chase Macro 2                       |
|  |   |   |    |     |      | 71-100 Chase Macro 3                      |
|  |   |   |    |     |      | 101-130 Chase Macro 4                     |
|  |   |   |    |     |      | 131-160 Chase Macro 5                     |
|  |   |   |    |     |      | 161-190 Chase Macro 6                     |
|  |   |   |    |     |      | 191-220 Chase Macro 7                     |
|  |   |   |    |     |      | 221-255 Chase Macro 8                     |
|  |   |   |    |     |      | <b>CHASE SPEED</b>                        |
|  |   |   |    |     |      | 0-255 FAST to SLOW                        |
|  |   |   |    |     |      | <b>COLOR TEMPERATURE</b>                  |
|  |   |   |    |     |      | 0-31 ALL LEDs OFF                         |
|  |   |   |    |     |      | 32-63 White 2700K                         |
|  |   |   |    |     |      | 64-95 White 3200K                         |
|  |   |   |    |     |      | 96-127 White 4300K                        |
|  |   |   |    |     |      | 128-159 White 5600K                       |
|  |   |   |    |     |      | 160-191 White 6500K                       |
|  |   |   |    |     |      | 192-223 White 8000K                       |
|  |   |   |    |     |      | 224-255 Store White Balance ENABLED       |
|  |   |   |    |     |      | <b>COLOR MODE</b>                         |
|  |   |   |    |     |      | 0-63 White Balance DISABLED               |
|  |   |   |    |     |      | 64-189 White Balance ENABLED              |
|  |   |   |    |     |      | 190-219 White Balance DISABLED            |
|  |   |   |    |     |      | 220-230 White Balance ENABLED             |
|  |   |   |    |     |      | 231-254 White Balance DISABLED            |
|  |   |   |    |     |      | 255 Store a New White Balance             |

[ALL LEDs]





| ELATION® ELATION QUAD STRIP™                     |   |   |    |     |      |                                    |
|--|---|---|----|-----|------|------------------------------------|
| DMX Channel Values / Functions (32 DMX Channels) |   |   |    |     |      |                                    |
| MODE/CHANNEL                                     |   |   |    |     |      |                                    |
| 4  | 5 | 8 | 10 | 8_2 | 16_4 | 32                                 |
| VALUE  |   |   |    |     |      |                                    |
| FUNCTION   |   |   |    |     |      |                                    |
|  |   |   |    |     |      | 1                                  |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | RED - LED [1]                      |
|  |   |   |    |     |      | Red ( 0-Black , 255-100% Red )     |
|  |   |   |    |     |      | 2                                  |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | GREEN - LED [1]                    |
|  |   |   |    |     |      | Green ( 0-Black , 255-100% Green ) |
|  |   |   |    |     |      | 3                                  |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | BLUE - LED [1]                     |
|  |   |   |    |     |      | Blue ( 0-Black , 255-100% Blue )   |
|  |   |   |    |     |      | 4                                  |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | WHITE - LED [1]                    |
|  |   |   |    |     |      | White ( 0-Black , 255-100% White ) |
|  |   |   |    |     |      | 5                                  |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | RED - LED [2]                      |
|  |   |   |    |     |      | Red ( 0-Black , 255-100% Red )     |
|  |   |   |    |     |      | 6                                  |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | GREEN - LED [2]                    |
|  |   |   |    |     |      | Green ( 0-Black , 255-100% Green ) |
|  |   |   |    |     |      | 7                                  |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | BLUE - LED [2]                     |
|  |   |   |    |     |      | Blue ( 0-Black , 255-100% Blue )   |
|  |   |   |    |     |      | 8                                  |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | WHITE - LED [2]                    |
|  |   |   |    |     |      | White ( 0-Black , 255-100% White ) |
|  |   |   |    |     |      | 9                                  |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | RED - LED [3]                      |
|  |   |   |    |     |      | Red ( 0-Black , 255-100% Red )     |
|  |   |   |    |     |      | 10                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | GREEN - LED [3]                    |
|  |   |   |    |     |      | Green ( 0-Black , 255-100% Green ) |
|  |   |   |    |     |      | 11                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | BLUE - LED [3]                     |
|  |   |   |    |     |      | Blue ( 0-Black , 255-100% Blue )   |
|  |   |   |    |     |      | 12                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | WHITE - LED [3]                    |
|  |   |   |    |     |      | White ( 0-Black , 255-100% White ) |
|  |   |   |    |     |      | 13                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | RED - LED [4]                      |
|  |   |   |    |     |      | Red ( 0-Black , 255-100% Red )     |
|  |   |   |    |     |      | 14                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | GREEN - LED [4]                    |
|  |   |   |    |     |      | Green ( 0-Black , 255-100% Green ) |
|  |   |   |    |     |      | 15                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | BLUE - LED [4]                     |
|  |   |   |    |     |      | Blue ( 0-Black , 255-100% Blue )   |
|  |   |   |    |     |      | 16                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | WHITE - LED [4]                    |
|  |   |   |    |     |      | White ( 0-Black , 255-100% White ) |
|  |   |   |    |     |      | 17                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | RED - LED [5]                      |
|  |   |   |    |     |      | Red ( 0-Black , 255-100% Red )     |
|  |   |   |    |     |      | 18                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | GREEN - LED [5]                    |
|  |   |   |    |     |      | Green ( 0-Black , 255-100% Green ) |
|  |   |   |    |     |      | 19                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | BLUE - LED [5]                     |
|  |   |   |    |     |      | Blue ( 0-Black , 255-100% Blue )   |
|  |   |   |    |     |      | 20                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | WHITE - LED [5]                    |
|  |   |   |    |     |      | White ( 0-Black , 255-100% White ) |
|  |   |   |    |     |      | 21                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | RED - LED [6]                      |
|  |   |   |    |     |      | Red ( 0-Black , 255-100% Red )     |
|  |   |   |    |     |      | 22                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | GREEN - LED [6]                    |
|  |   |   |    |     |      | Green ( 0-Black , 255-100% Green ) |
|  |   |   |    |     |      | 23                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | BLUE - LED [6]                     |
|  |   |   |    |     |      | Blue ( 0-Black , 255-100% Blue )   |
|  |   |   |    |     |      | 24                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | WHITE - LED [6]                    |
|  |   |   |    |     |      | White ( 0-Black , 255-100% White ) |
|  |   |   |    |     |      | 25                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | RED - LED [7]                      |
|  |   |   |    |     |      | Red ( 0-Black , 255-100% Red )     |
|  |   |   |    |     |      | 26                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | GREEN - LED [7]                    |
|  |   |   |    |     |      | Green ( 0-Black , 255-100% Green ) |
|  |   |   |    |     |      | 27                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | BLUE - LED [7]                     |
|  |   |   |    |     |      | Blue ( 0-Black , 255-100% Blue )   |
|  |   |   |    |     |      | 28                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | WHITE - LED [7]                    |
|  |   |   |    |     |      | White ( 0-Black , 255-100% White ) |
|  |   |   |    |     |      | 29                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | RED - LED [8]                      |
|  |   |   |    |     |      | Red ( 0-Black , 255-100% Red )     |
|  |   |   |    |     |      | 30                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | GREEN - LED [8]                    |
|  |   |   |    |     |      | Green ( 0-Black , 255-100% Green ) |
|  |   |   |    |     |      | 31                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | BLUE - LED [8]                     |
|  |   |   |    |     |      | Blue ( 0-Black , 255-100% Blue )   |
|  |   |   |    |     |      | 32                                 |
|  |   |   |    |     |      | 0-255                              |
|  |   |   |    |     |      | WHITE - LED [8]                    |
|  |   |   |    |     |      | White ( 0-Black , 255-100% White ) |



## CLEANING AND MAINTENANCE



**C A U T I O N**

**Disconnect power before cleaning or 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 3 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.
- 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).
- Inspect all moving parts and make sure there are no signs of wear and rotate/move without imbalances.
- Electric power supply cables must not show any damage, material fatigue or sediments. Never remove the ground prong from the power cable.

