

ELAR QUAD STRIP™

user manual

ELATION | ELAR QUAD STRIP™ | user manual

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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.



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 for any comments or suggestions. For service related issue please contact Elation Professional®.

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

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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**

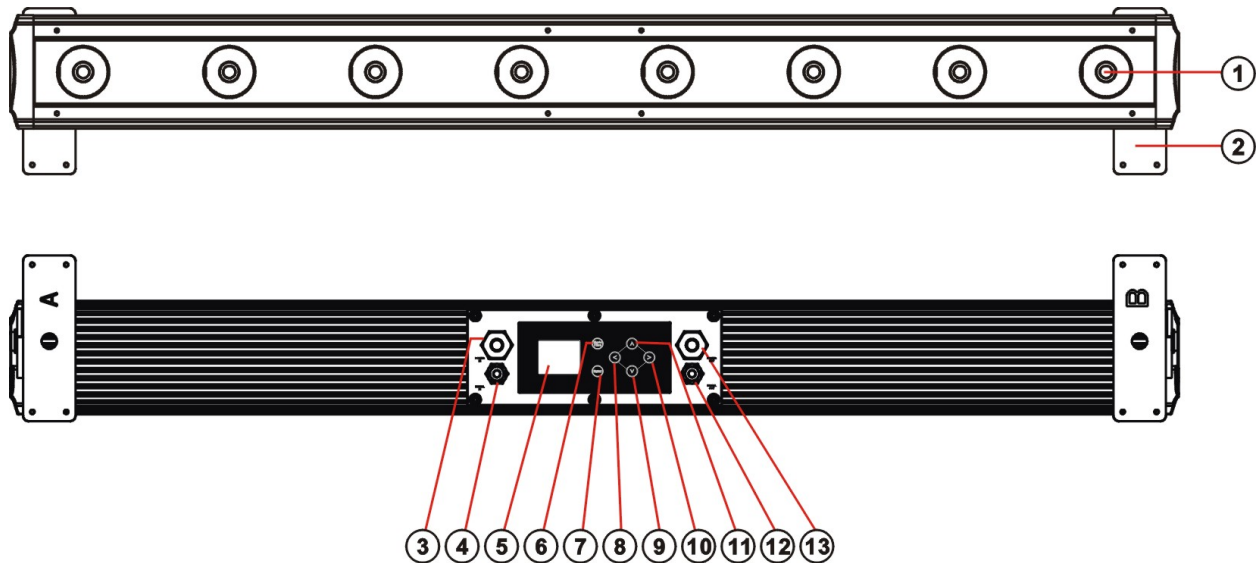
- For proper operation, follow the **Installation** guidelines described in this manual. Only qualified and certified personnel should perform installation of this fixture and only the original rigging parts (brackets) included with this fixture should be used for installation. Any modifications will 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

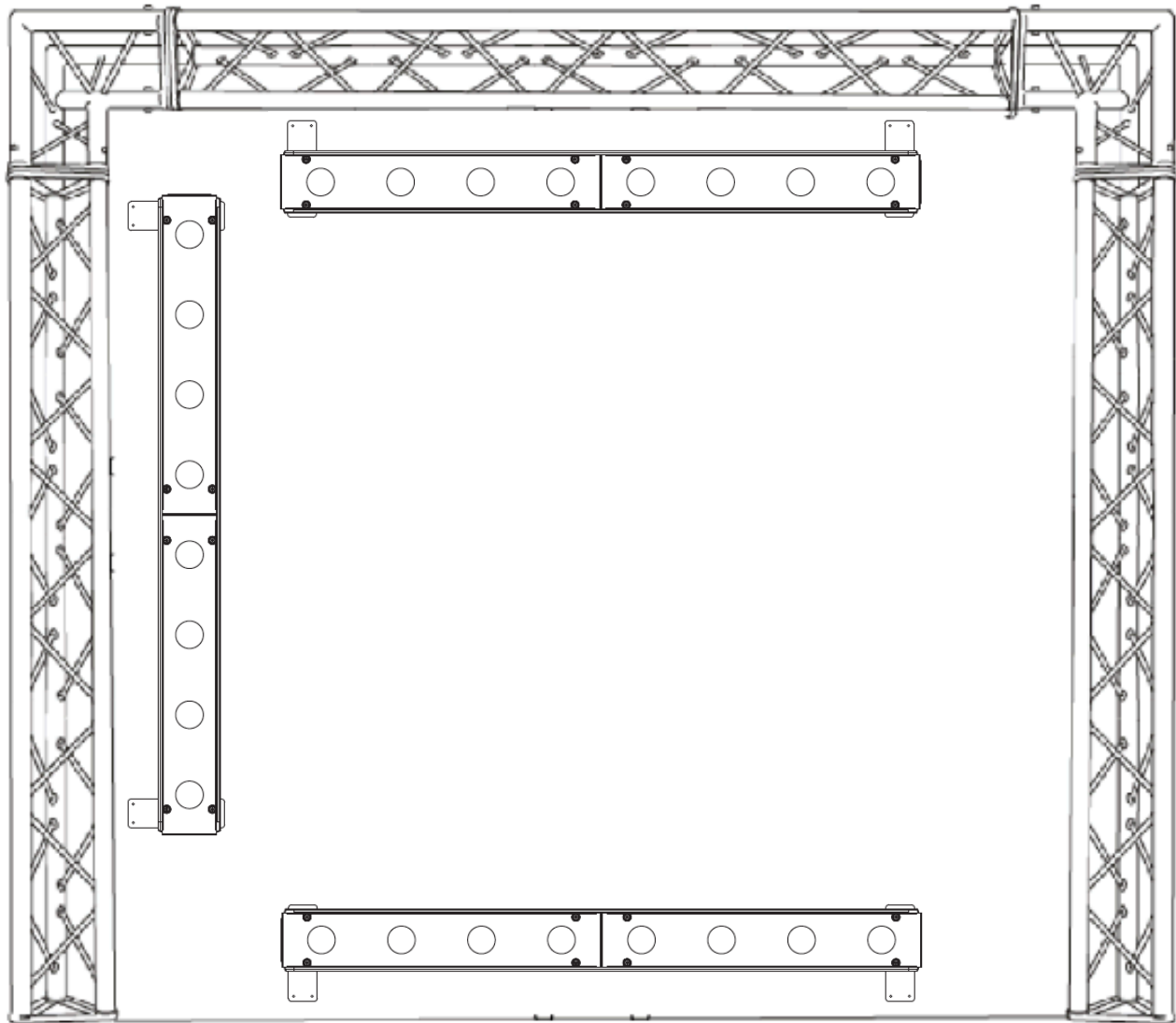
- For added protection, mount the fixture in areas outside walking paths, seating areas, or in areas where unauthorized personnel might reach the fixture.
- Max ambient operating temperature for this fixture is **-13° - 113°F. (-25° - 45°C)**
Do not use the fixture under or above this temperature.
- 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.

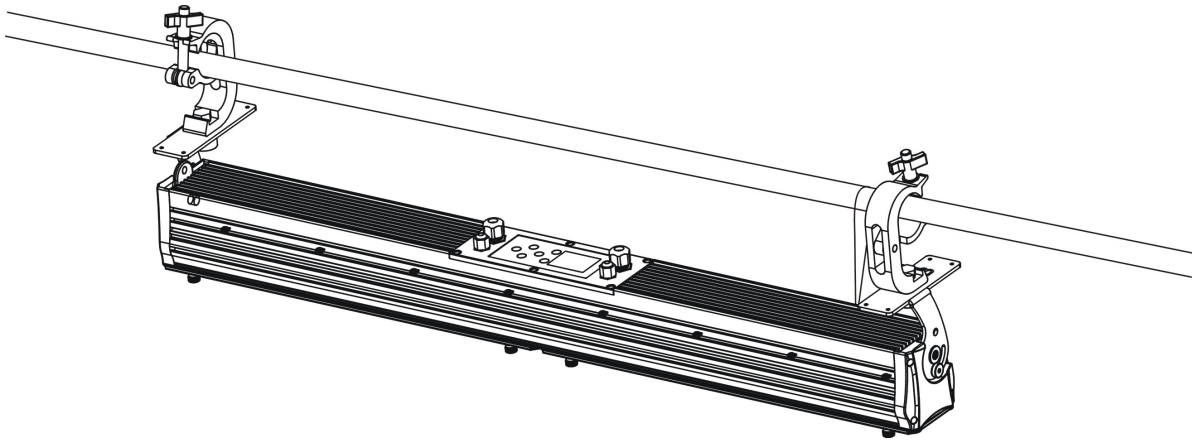


SAFETY CABLE

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

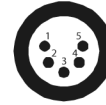


1: Ground
2: Data (-)
3: Data (+)

DMX Output
5-Pin XLR Socket



DMX Input
5-Pin XLR Socket



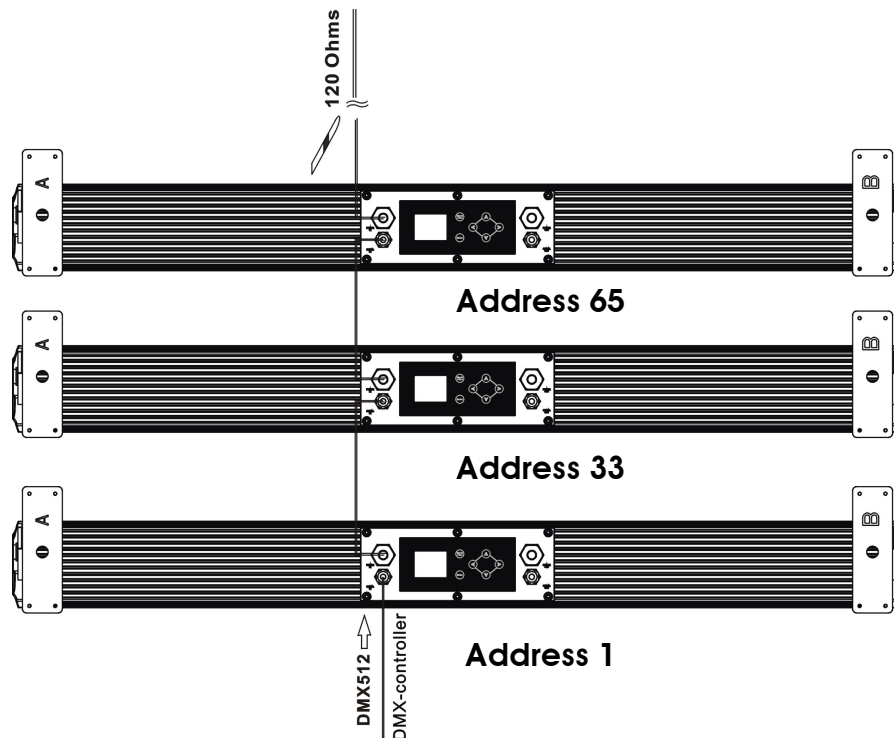
1: Ground
2: Data (-)
3: Data (+)
4: Open
5: Open



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.

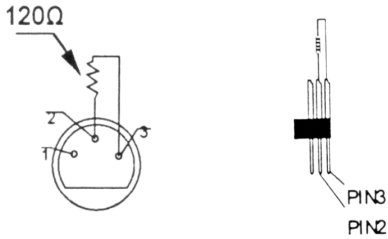
DMX-512 CONTROLLER CONNECTION

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

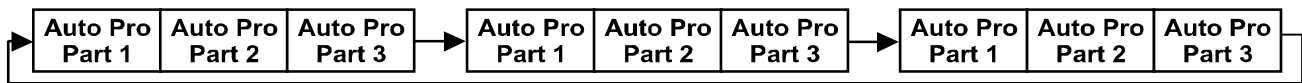
Edit any of the scenes of the internal Auto Programs.

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

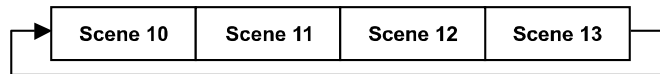
Auto Pro Part 1 is Program 2

Auto Pro Part 2 is Program 3

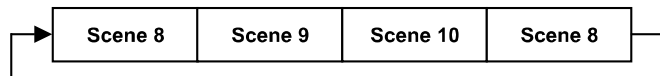
Auto Pro Part 3 is Program 6

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

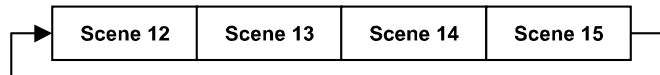
Part 1:



Part 2:



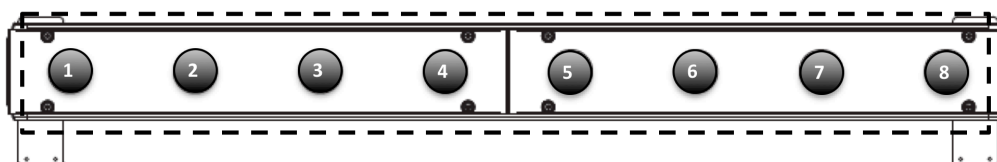
Part 3:



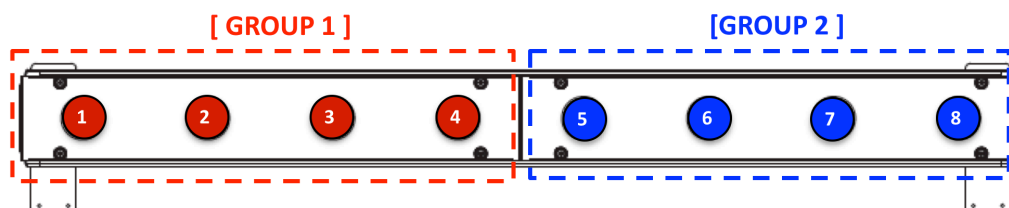
DMX CHANNEL FUNCTIONS AND VALUES

ELATION® ELATION QUAD STRIP™							DMX Channel Values / Functions (32 DMX Channels)	
MODE/CHANNEL							VALUE	FUNCTION
4	5	8	10	8_2	16_4	32		
1	1	1	1				0-255	RED - All LEDs [1-8] Red (0-Black , 255-100% Red)
2	2	2	2				0-255	GREEN - All LEDs [1-8] Green (0-Black , 255-100% Green)
3	3	3	3				0-255	BLUE - All LEDs [1-8] Blue (0-Black , 255-100% Blue)
4	4	4	4				0-255	WHITE - All LEDs [1-8] White (0-Black , 255-100% White)
								SHUTTER, STROBE
							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
								DIMMER INTENSITY
							0-255	Intensity 0 to 100%
								CHASE MACROS
							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
								CHASE SPEED
							0-255	FAST to SLOW
								COLOR TEMPERATURE
							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
								COLOR MODE
							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

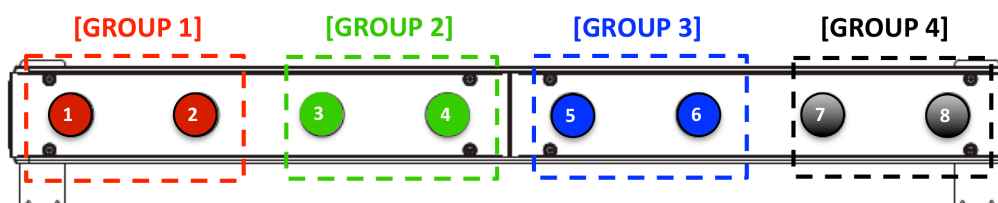
[ALL LEDs]



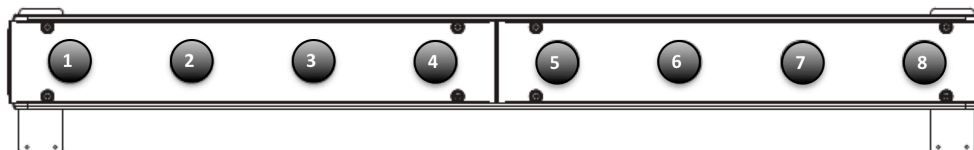
ELATION® ELATION QUAD STRIP™							DMX Channel Values / Functions (32 DMX Channels)	
MODE/CHANNEL							VALUE	FUNCTION
4	5	8	10	8_2	16_4	32		
				1				RED - Group [1]
							0-255	Red (0-Black , 255-100% Red)
				2				GREEN - Group [1]
							0-255	Green (0-Black , 255-100% Green)
				3				BLUE - Group [1]
							0-255	Blue (0-Black , 255-100% Blue)
				4				WHITE - Group [1]
							0-255	White (0-Black , 255-100% White)
				5				RED - Group [2]
							0-255	Red (0-Black , 255-100% Red)
				6				GREEN - Group [2]
							0-255	Green (0-Black , 255-100% Green)
				7				BLUE - Group [2]
							0-255	Blue (0-Black , 255-100% Blue)
				8				WHITE - Group [2]
							0-255	White (0-Black , 255-100% White)



				1				RED - Group [1]
							0-255	Red (0-Black , 255-100% Red)
				2				GREEN - Group [1]
							0-255	Green (0-Black , 255-100% Green)
				3				BLUE - Group [1]
							0-255	Blue (0-Black , 255-100% Blue)
				4				WHITE - Group [1]
							0-255	White (0-Black , 255-100% White)
				5				RED - Group [2]
							0-255	Red (0-Black , 255-100% Red)
				6				GREEN - Group [2]
							0-255	Green (0-Black , 255-100% Green)
				7				BLUE - Group [2]
							0-255	Blue (0-Black , 255-100% Blue)
				8				WHITE - Group [2]
							0-255	White (0-Black , 255-100% White)
				9				RED - Group [3]
							0-255	Red (0-Black , 255-100% Red)
				10				GREEN - Group [3]
							0-255	Green (0-Black , 255-100% Green)
				11				BLUE - Group [3]
							0-255	Blue (0-Black , 255-100% Blue)
				12				WHITE - Group [3]
							0-255	White (0-Black , 255-100% White)
				13				RED - Group [4]
							0-255	Red (0-Black , 255-100% Red)
				14				GREEN - Group [4]
							0-255	Green (0-Black , 255-100% Green)
				15				BLUE - Group [4]
							0-255	Blue (0-Black , 255-100% Blue)
				16				WHITE - Group [4]
							0-255	White (0-Black , 255-100% White)



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

