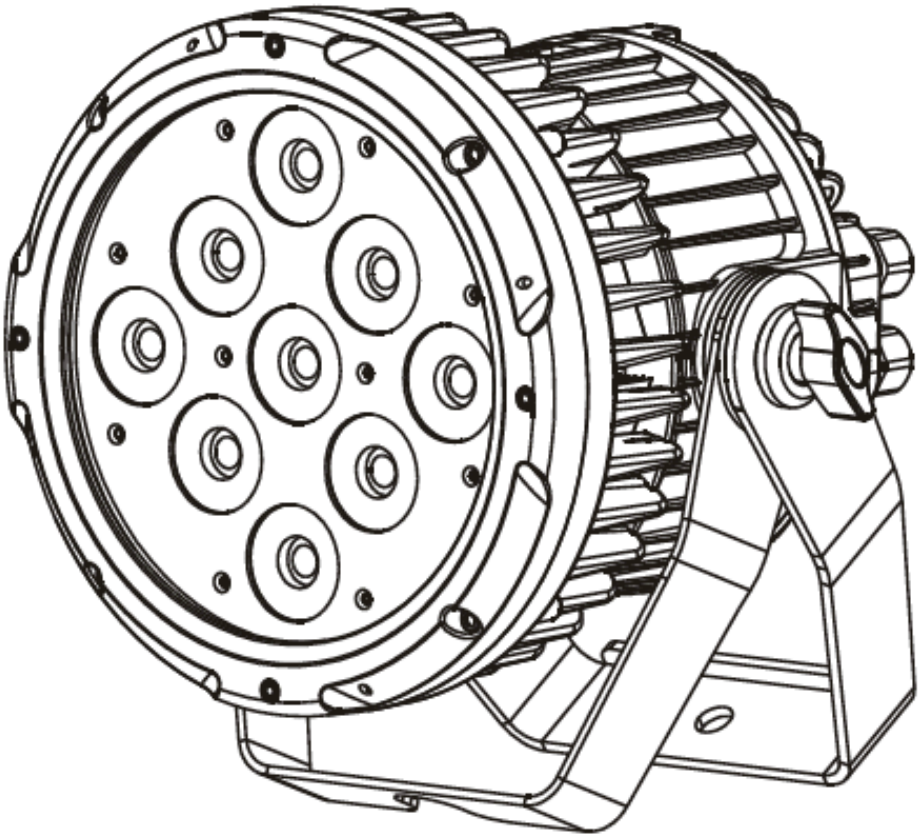

ELAR QUAD PAR™

user manual 2.0

ELATION | ELAR QUAD PAR™ | user manual 2.0

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CONTENTS

GENERAL INFORMATION

INTRODUCTION

Congratulations, you have just purchased one of the most innovative and reliable lighting fixtures on the market today! The **ELAR QUAD PAR™** 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 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 such as the **ELAR QUAD PAR™** 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).

UNPACKING

Thank you for purchasing the **ELAR QUAD PAR™** by Elation Professional®. Every **ELAR QUAD PAR™** 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.

BOX CONTENTS

- (1) IP68 Rated Power Cable
- (1) 3-Pin XLR Cable
- (1) Safety Cable
- Manual & Warranty Card

MANUAL UPDATES

Please check www.elationlighting.com for the latest revision/update of this manual.

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®. Service Hours are Monday through Friday 8:00 a.m. to 5:00 p.m. PST.

Voice: 323-582-3322 **Fax: 323-832-9142**

E-mail: support@elationlighting.com Forum: www.ElationLighting.com/forum

WARRANTY REGISTRATION

The **ELAR QUAD PAR™** 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 PARe 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 PAR™** 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 is grounded properly, and only qualified personnel perform all electrical connections.

CAUTION!
Never touch the device during operation!
The housing may heat up

CAUTION!
Never look directly into the light source,
as sensitive persons may suffer an epileptic shock.

CAUTION!
Keep this device away from rain and moisture !

CAUTION!
Unplug mains lead before opening the housing.

- For proper operation, follow the **Installation** guidelines described on page **11** of this manual. Only qualified and certified personnel should perform installation of this fixture and only the original rigging parts (brackets, holders, clamps, safety cables) included with this fixture should be used for installation. Any modifications will void the original manufactures 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.
- The fan and air inlets must remain clean and never blocked. Allow approx. 6" (15cm) between this fixture and other devices or a wall for proper cooling.
- 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

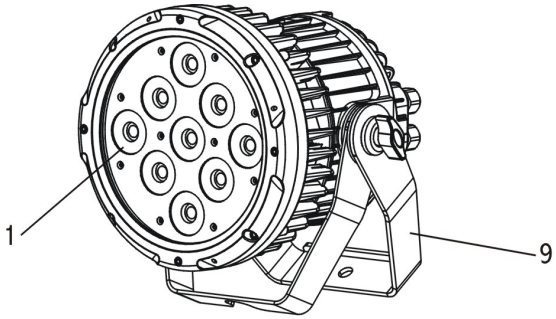
- **NEVER OPEN THIS FIXTURE WHILE IN USE!**
- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.
- This fixture is a professional lighting effect designed for use on stage, in nightclubs, theatres, etc. Do not attempt installation and/or operation without proper knowledge of how to do so.
- Do not permit operation by persons who are not qualified for operating this type of theatrical 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 the device.
- 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 base of the fixture.
- Please use the original packaging and materials to transport the fixture in for service.

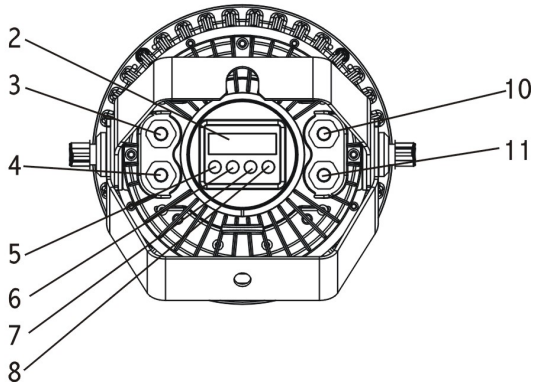
FEATURES

- 9 x 10W Cree Quad LEDs
- 100,000 Hours Rated LED Life*

  *May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.
- IP65 Rated Die Cast Aluminium Body
- USITT DMX 512 with 4, 5, 6, 8, and 36 DMX Channel Operation
- Strobe-Effect with 1-18 flashes per second
- 0-100% Dimming and Blackout for all LEDs
- Excellent Color Mixing and Chase Effect
- Single Pixel Control Mode
- Flicker Free Operation for TV and Film
- Built In Color Macros, Auto & Manual Control
- Full Color LED Menu Display And 4-Button Control Panel
- Reversible Control Display Option (180º Flip)
- Power In/Out Linkable (Max 5 Units)
- Holds Last State When Power Off
- Software Upload by Optional Accessory via DMX line

FIXTURE OVERVIEW





1: LED Lens Assembly

2: LED Menu Control Display

3: Power OUT

4: 3-Pin DMX OUT

5: MENU Button

6: UP Button

7: DOWN Button

8: ENTER Button

9: Mounting Bracket / Floor Stand

10: Power IN

11: 3-Pin DMX IN

1. **Lens Assembly –** Group of (9) LEDs
2. **LCD Menu Control Display –** LCD control menu display
3. **Power OUT –** Power connection to daisy chain to another unit
4. **3-Pin DMX OUT –** Used to send incoming DMX signal to the next fixture in the DMX chain via a female 3-pin XLR jack
5. **MENU Button –** Used to access the menu functions and exit the current command
6. **UP Button –** Used to toggle forward through the menu functions and settings
7. **DOWN Button –** Used to toggle down or back through the menu functions and settings
8. **ENTER Button –** Used to enter into or lock a certain menu function
9. **Mounting Bracket / Floor Stand –** Used to mount or place fixture
10. **Power IN –** Power connection to power source
11. **3-Pin DMX IN –** Accepts incoming DMX signal via a male 3-pin XLR jack

INSTALLATION

CAUTION!

Please consider the GB7000.15/EN60598-2-17 and the other respective national norms during the installation. The installation must only be carried out by a qualified person.

CAUTION!

The electric connection must only be carried out by a qualified electrician.

CAUTIONS

- The recommended temperature for this fixture is **-13°F to 113°F (-25°C to 45°C)**. Do not use the fixture under or above this temperature.

- For added protection, mount the fixture in areas outside walking paths, seating areas, or in areas were unauthorized personnel might reach the fixture.

- 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. **(160 lbs / 73 kgs)**

- 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 the fixture.

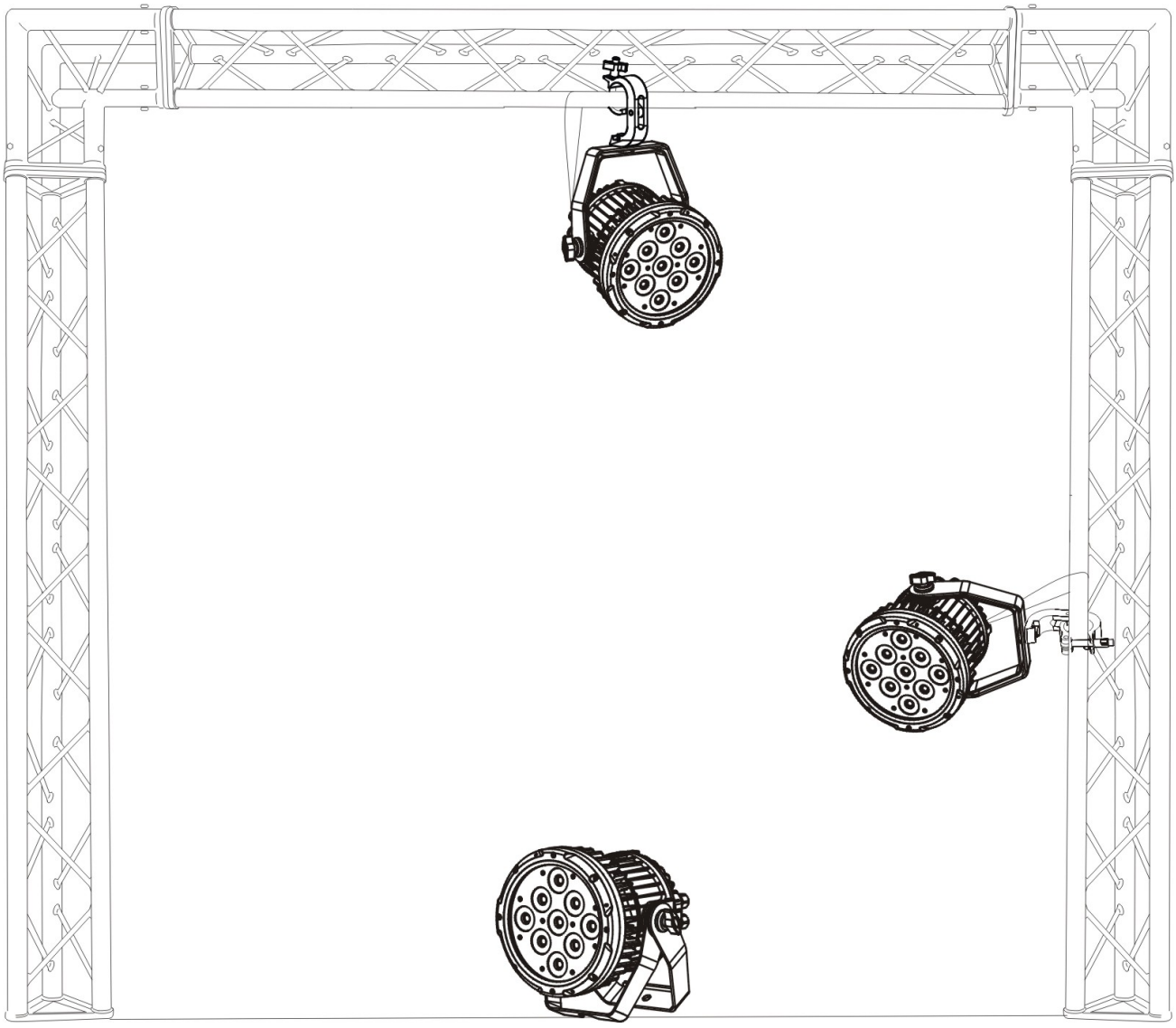
POWER LINKING

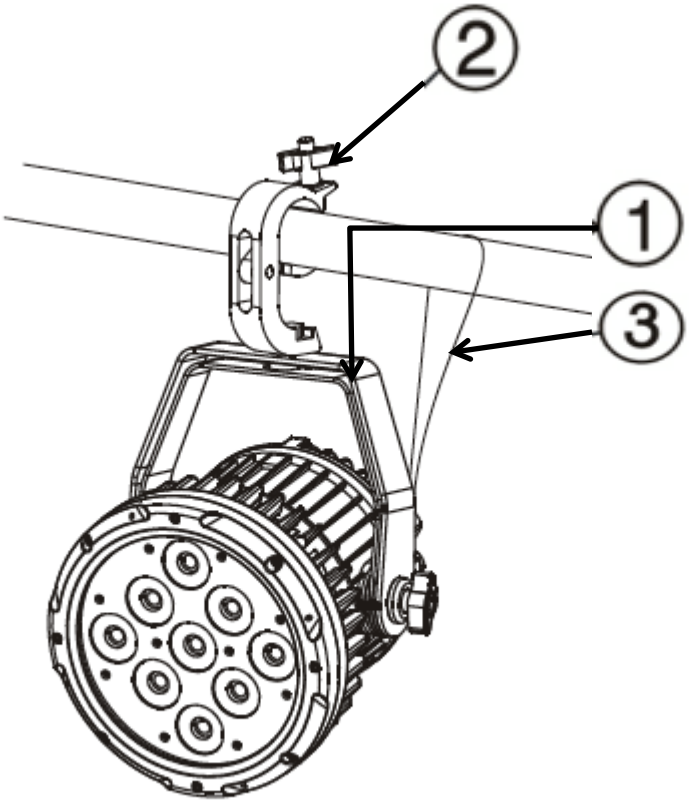
120V - ONLY (5) devices may be linked together for power.
Connect device number #6 to a different power source.

220V and above - ONLY (12) devices may be linked together for power.
Connect device number #13 to a different power source.

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 any mounting position, hanging upside-down, side mounted, or on any flat level surface, and will remain steady no matter the angle of the fixture head.
- Be sure the fixture is kept at least 0.5m (1.5 feet) away from any flammable materials (decoration etc.).





(1) Mounting Bracket (included)

(2) Clamp (optional)

(3) Safety Cable (included)

INSTALLATION VIA MOUNTING BRACKET

- Attach clamp to center Φ13 hole on the Mounting Bracket.
- Pull the included Safety Cable underneath the Mounting Bracket and over the trussing system for a safe installation.

This step is a very important to ensure the fixture will not drop if the clamp fails.

UNDERSTANDING DMX

DMX-512

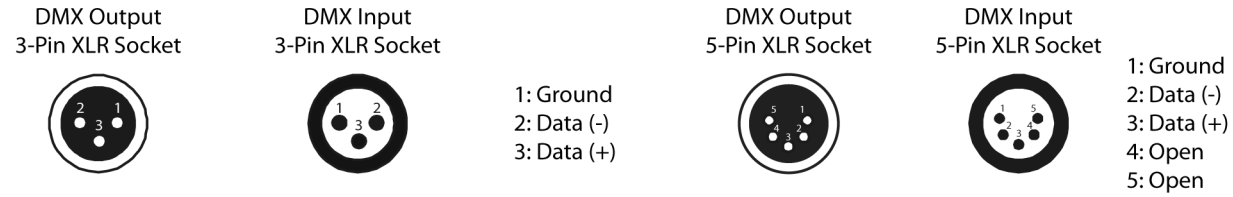
DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers. DMX allows all makes and models of different manufactures to be linked together and operate from a single controller. 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 PAR**™ 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)

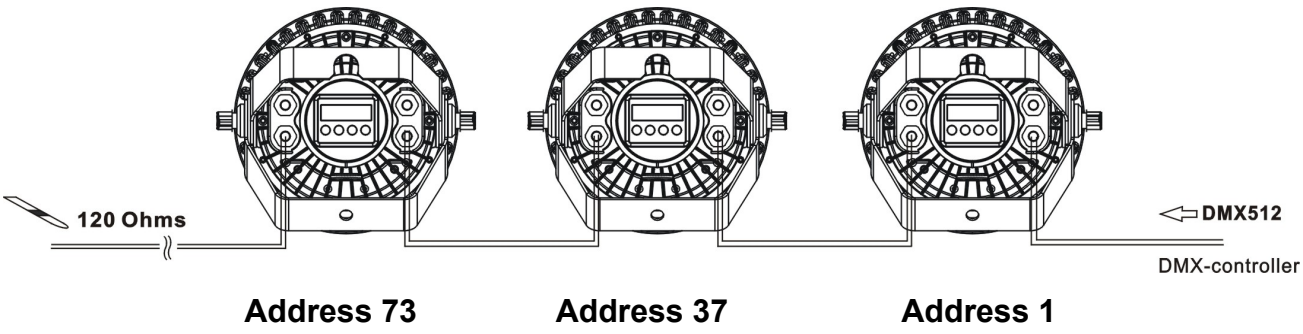
Your fixture and your DMX controller require a standard 3-pin or 5-pin XLR connector for data input and data output (see figure below). If you are making your own cables, be sure to use two conductor, shielded digital DMX cable rated at 120 ohms; this cable is designed for DMX transmission and may be 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™.



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.

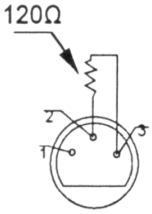
DMX-512 CONTROLLER CONNECTION

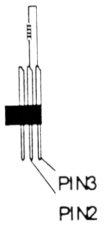
Connect the provided XLR cable to the female XLR output of your controller and the other side to the male XLR input of the **ELAR QUAD PAR™** (Please refer to the diagram below.). You can chain multiple panels together through serial linking. The cable that should be used is two conductor, shielded DMX 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.

5-Pin XLR DMX CONNECTORS

Some manufactures use 5-pin XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin 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 PAR™,** when in 36 channel mode (default can also be set to 4, 5, 6, or 8), you should set the starting DMX address of the first unit to 1, the second unit to 37 (1 + 36), the third unit to 73 (37 + 36), the fourth unit to 109 (73 + 36) and so on.

Note: During start-up the **ELAR QUAD PAR™** 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 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 PAR™** comes with an easy to navigate system menu. The next section will detail the functions of each command in the system menu.

LED CONTROL PANEL

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

ELAR QUAD PAR™ SYSTEM MENU				*Default Settings Shaded
MODE	<ADDR>	VALU	**A001**~AXXX (AXXX)	DMX address setting
		SLAV	ON/**OFF**	Set as Slave
		RDMX	**ON**/OFF	Change address via DMX
	<RUN>	AUTO	**ALON**/MAST	Run Auto program
	<DISP>	VALU	D-XX D-00(DXXX)	Display DMX value
		FLIP	ON/**OFF**	Flip display
		D ON	**ON**/OFF	Delay shutting off LED display
		LOCK	ON/**OFF**	Key lock (Press the MODE/ESC button for 3 seconds to activate)
SET	**<CHAN>**	**4CH**/5CH/6CH/8CH/36CH		DMX Channel Mode
	<FAIL>	OFF/**HOLD**/AUTO		Status while there is no DMX
	<DFSE>	ON/**OFF**		Default setting
	<POHO>	**ON**/OFF		Power on to preserve the MANL settings
	<VER>	V-1.0~V-9.9		Software version
MANL	**STRB** :	S XXX(000~255) :		Manual adjust intensity Manual adjust intensity.
TIME	**<LIFE>**	0000~9999(HOURS)		Life time of machina running
	<CODE>	CXXX		Passord of clear time ”038”
	<CLFE>	ON/**OFF**		Clear machina running time
EDIT	**<STEP>**	S-01~**S-48**		Select steps of program
	REC.	RE.XX		Auto Save Scene
	<SC01> ~<SC48>	STRB :	S XXX(000~255) :	Edit the internal scenes
		FADE	XXX	
		TIME	XXX.X(000.1S~999.9S)	
		CEDT	ON/**OFF**	Edit program via controller

MAIN FUNCTIONS

MODE - SET - MANL - TIME - EDIT

MODE **Main Menu**

1. Press **[MENU]** to enter the main menu **"MODE"** (display flashing)
2. Press **[ENTER]** to select **"ADDR"**, **"RUN"** or **"DISP"** by pressing **[UP]** or **[DOWN]**.
3. Press **[ENTER]** for selecting the desired sub menu.

MODE - ADDR
RUN
DISP

ADDR **DMX Address Setting, Slave Setting**

MODE - ADDR - VALU - A001 - A512
SLAV - ON/OFF
RDM - ON/OFF

VALU **DMX Address Setting**

With this function, you can adjust the desired DMX-address via the Control Board.

1. Select **"VALU"** by pressing **[UP]** or **[DOWN]** buttons.
2. Press **[ENTER]**, adjust the DMX address by pressing **[UP]** or **[DOWN]** button.
3. Press **[ENTER]** to confirm or press **[MENU]** to return to main menu.

SLAV **Slave Setting**

With this function, you can define the device as slave.

1. Select **"SLAV"** by pressing **[UP]** or **[DOWN]** button.
2. Press **[ENTER]**, the display shows **"ON"** or **"OFF"**.
3. Press **[UP]** to select **"ON"** to enable this function or press **[DOWN]** to select **"OFF"**.
4. Press **[ENTER]** to confirm or press **[MENU]** to return to main menu.

rdM11 DMX Address Setting Via Controller

With this function, you can adjust the desired DMX-address via an external controller.
This function can only be activated when the DMX-value of all other channels is set to "0" on the controller.

1. Select **"EBOC"** by pressing **[UP]** or **[DOWN]** buttons.
2. Press **[ENTER]**, the display shows **"ON"** or **"OFF".**
3. Press **[UP]** to select **"ON"** if you wish to enable this function or **[DOWN]** to select **"OFF"**.
4. Press **[ENTER]** to confirm or press **[MENU]** to return to main menu.

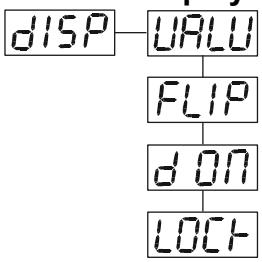
On the controller, set the DMX-value of channel 1 to "7".
Set the DMX-value of channel 2 to "7"or "8". When set to "7" you can adjust the starting address between 1 and 255. When set to "8" you can adjust the starting address between 256 and 510.
Set the DMX-value of channel 3 to the desired starting address. If you want to set the starting address to 57, set channel 1 to "7", channel 2 to "7" and channel 3 to "57". If you want to set the starting address to 420, set channel 1 to "7", channel 2 to "8" and channel 3 to "164" (256+164=420).
Wait for approx. 20 seconds and the unit will carry out a reset. After that, the new starting address is set.

rUN Program Run, Master Setting

With the function **"RUN"**, you can run the internal program. You can set the number of steps under Step. You can edit the individual scenes under Edit.

1. Select **"ALON"** or **"MAST"** by pressing **[UP]** or **[DOWN]** buttons.
2. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

dISP Display The DMX-Value, Reverse Display, Shut Off LED Display



VALU Display The DMX 512 Value Of Each Channel

With this function you can display the DMX 512 value of each channel.

1. Select **"VALU"** by pressing **[UP]** or **[DOWN]** buttons.
2. Press **[ENTER]** to confirm; the display shows**"D-00"**. In this setting, the DMX-adjustment of every channel will be displayed.
3. Press **[UP]** or **[DOWN]** button in order to select the desired channel. If you select **"D-00"** the display will only show the DMX-value of the xxth channel.
4. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.
5. The display shows **"D- XX"**, "X" stands for the DMX-value of the selected channel.

FLIP Reverse Display

Keyboard Shortcuts：Press down the **[MENU]** and the **[UP]** buttons at the same time, the words showed on the digital display of the control panel will flip 180°. You can also use the following instructions below to enter to configure the display.

1. Select **"FLIP"** by pressing **[UP]** or **[DOWN]** buttons.
2. Press **[ENTER]**, the display shows **"ON"** or **"OFF"**.
3. Press **[UP]** to select **"ON"** to enable this function or press **[DOWN]** to select **"OFF"**.
4. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

d ON Shut Off LED Display

With this function you can shut off the LED display after 2 minutes.

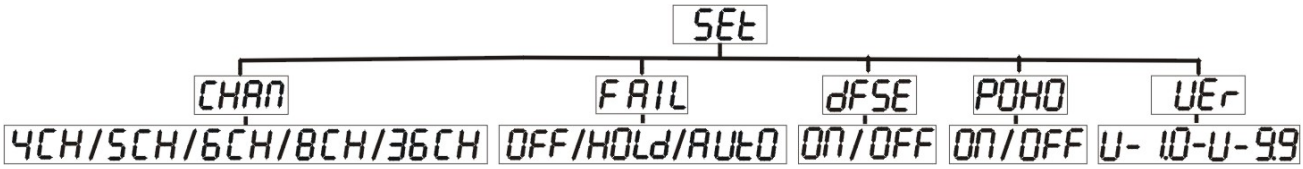
1. Select **"D ON"** by pressing **[UP]** or **[DOWN]** buttons.
2. Press **[ENTER]**, the display shows **"ON"** or **"OFF"**.
3. Press **[UP]** to select **"ON"** to enable this function or press **[DOWN]** to select **"OFF"**.
4. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

LOCK Locked Display Keys

With this function you can activate the automatic key lock status. If this function is activated, the keys will be locked automatically after exiting the edit mode for 15 seconds. Keeping the **[MENU]** key pressed for 3 seconds if you do not need this function.

1. Press the **[UP]** button until **"LOCK"** is displayed and press the **[ENTER]** button.
2. Press the **[UP]** button to select **"ON"** to activate this function, or **"OFF"** to deactivate this function.
3. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

SEt Main Menu



1. Press **[MENU]** to enter the main menu (display flashing).
2. Press **[UP]** or **[DOWN]** to select **"SET"**.

CHAN DMX Channel Mode

With this function you can choose DMX channel Mode

1. Select **"CHAN"** by pressing **[UP]** or **[DOWN]** button.
2. Press **[ENTER]**, the display shows **"4CH"，"5CH"，"6CH"，"8CH"，or "36CH".**
3. Press **[UP]** or **[DOWN]** button to select desired mode, the default is "4CH".
4. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

FAIL Automatic Run By No DMX

With this function you can automatically run the device with no DMX.

1. Select **"FAIL"** by pressing **[UP]** or **[DOWN]** button.
2. Press **[ENTER]**, the display shows **"OFF", "HOLD" or "AUTO".**
3. Press **[UP]** or **[DOWN]** to select **"OFF", "HOLD"** or **"AUTO"**, the default is **"HOLD"**.
4. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

dFSE Restore Factory Settings

With this function you can restore the factory settings of the device. All settings will be set back to the default values (shaded). Any edited scenes will be lost.

1. Select **"DFSE"** by pressing **[UP]** or **[DOWN]** button.
2. Press **[ENTER]**, the display shows **"ON"** or **"OFF"**.
3. Press **[UP]** to select **"ON"** to enable this function or press **[DOWN]** to select **"OFF"**
4. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

POHO Power On To Preserve The MANL Settings

With this function enabled, the fixture returns to the set manual scene after re-power on.

1. Press the **[UP]** button until **"POHO"** is displayed and press **[ENTER]** button.
2. Press the **[UP]** to select **"ON"** to enable this function, or press **[DOWN]** to select **"OFF"** to deactivate this function.
3. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

UEr Software Version

With this function you can display the software version of the device.

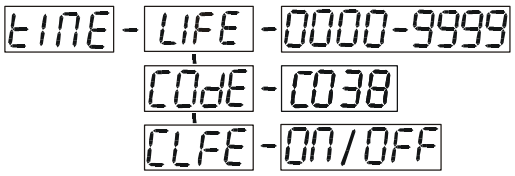
1. Select **"VER"** by pressing **[UP]** or **[DOWN]** button.
2. Press **[ENTER]**, The display will show **"V-XX", "XX"** stands for the version number, such as the display may also show**,"V-1.0"~"V-9.9"**etc.
3. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

MANL Manual Adjust Intensity

With this function you can Manual adjust intensity.

1. Select "MANL" by pressing **[UP]** or **[DOWN]** button.
2. Press **[ENTER]**, the display shows **"STRB", ··· ····.**
3. Press **[UP]** or **[DOWN]** button to select **"STRB", ··· ····.**
4. Press **[ENTER**] to confirm or press **[MENU]** to return to the main menu.

tIME Main Menu



1. Press **[MENU]** to enter the main menu (display flashing).
2. Press **[UP]** or **[DOWN]** button to select **"TIME"**.
3. Press **[MODE/ESC]** to enter the main menu (display flashing).
4. Press **[UP]** or **[DOWN]** button to select **"TIME"**.

LIFE Fixture Running Time

With this function you can display the running time of the device.

1. Select **"LIFE"** by pressing **[UP]** or **[DOWN]** button.
2. Press **[ENTER]**, the display shows **"XXXX"**, "**X"** stands for the number of hours.
3. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

CODE Time Password

With this function you can display the running time of the lamp.

1. Select **"CODE"** by pressing **[UP]** button.
2. Press **[ENTER]**, the display shows **"C038"**, **"038"** is password of clear open time.
3. Press **[MENU]** to return to the main menu.

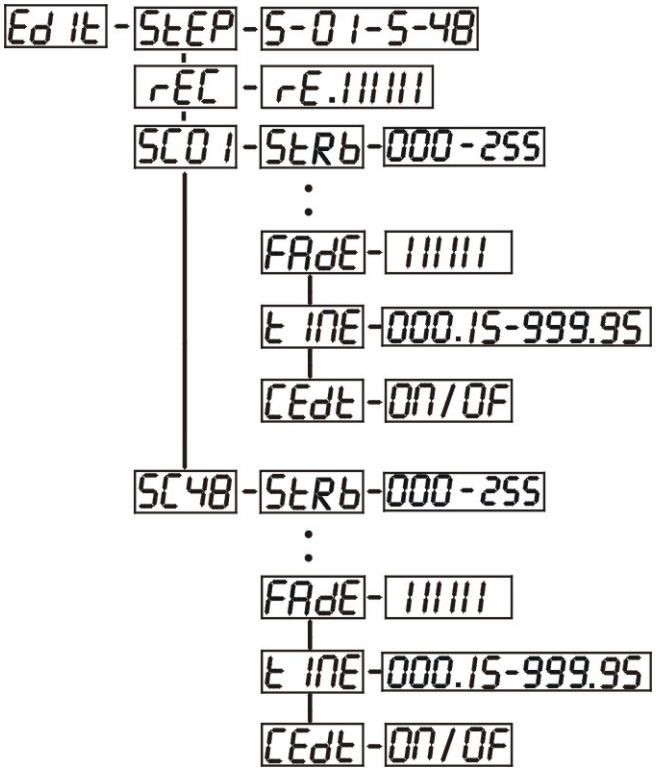
CLFE Clear Fixture Time

With this function you can clear the running time of the device.

1. Select **"CLFE"** by pressing **[UP]** or **[DOWN]** button.
2. Press **[ENTER]**, the display shows **"ON"** or **"OFF"**.
3. Press **[UP]** to select **"ON"** to enable this function or press **[DOWN]** to select **"OFF"**.
4. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

Edit Main Menu

1. Press **[MENU]** to enter the main menu (display flashing).
2. Press **[UP]** or **[DOWN]** button to select **"EDIT"**.



StEP Define Number Of Steps In Run

With this function you can define the number of steps in the Program Run.

1. Select **"STEP"** by pressing **[UP]** or **[DOWN]** button.
2. Press **[ENTER]**, the display shows **"S-XX"**, **"X"** stands for the total amount of steps you want to save, so you can call up to 48 scenes in **"RUN"**. For example if the **"XX"** is 05, it means that **"RUN"** will run the first 5 scenes you saved in **"EDIT"**.
3. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

rEC Auto Save

With this function you can automatic save the number of steps in the Program Run.

1. Select **"REC"** by pressing **[UP]** or **[DOWN]** button.
2. Press **[ENTER]**, the display shows **"RE.XX"**, **"XX"** stands for the number from 1 to 400.
3. Press **[ENTER]** to confirm or press **[MENU]** to return to the main menu.

SC01 Editing The Channels Of The Individual Scenes

With this function you can edit the program to be called up in the Program Run.

1. Select **"SC01"** by pressing **[UP]** or **[DOWN]** button.
2. Press **[ENTER]**, display shows **"SCXX"**, **"X"** stands for scene number to be edited.
3. Select the desired channel number to edit by pressing **[UP]** or **[DOWN]** button.
4. Adjust the desired DMX value by pressing **[UP]** or **[DOWN]** button.
5. Press **[ENTER]** in order to edit other channels of this scene.
6. Repeat steps 3-5 until you finish setting all the DMX values for all channels of this scene.
7. Once all the channels are completed, the display will flash **"TIME"**
8. Press **[ENTER]** to edit the time needed, the display shows **"TXXX"**, **"XXX"** stands for the time needed to run the current scene, value **"001-999"**. E.g., **"002"** means you need 0.4ms (002*0.2ms) to run the current scene. Adjust the desired time by pressing **[UP]** or **[DOWN]** button.
9. Press **[ENTER]** to save the settings for the scene you are editing, the display will change to the next scene automatically.
10. Repeat step 3-8 to edit other scenes, you can edit and save a maximum of 48 scenes.
11. Press **[MENU]** to exit. The number of steps can be defined under **"STEP"** and the scenes can be called up under **"RUN".**

Editing Via The External Controller

Call up the first scene in your controller now.

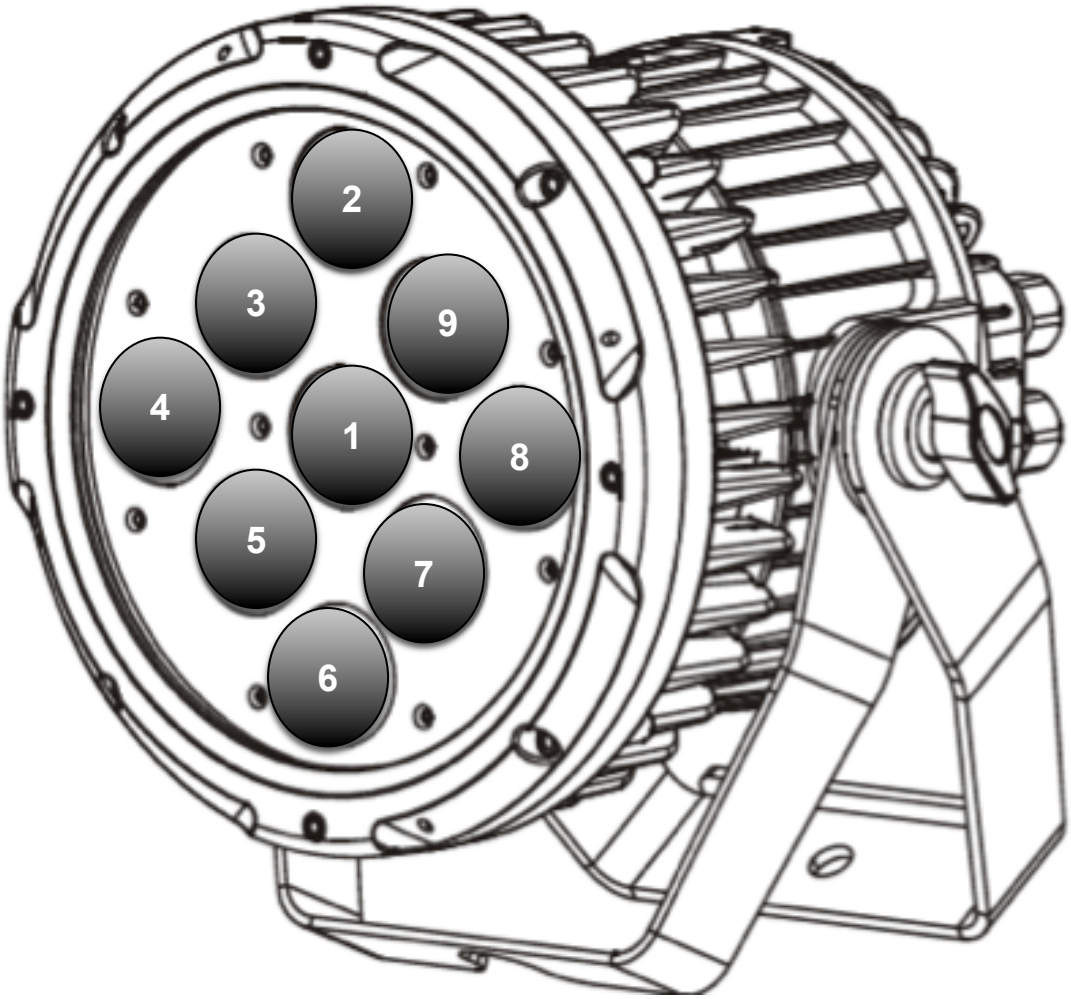
1. Press **[ENTER]**, the display to be edited.
2. Select **"SC01"** by pressing **[UP]** or **[DOWN]** button.
3. Select the desired channel number, press **[UP]** or **[DOWN]** button.
4. Press **[ENTER]**, the display shows **"C-01"**.
5. Press **[UP]** or **[DOWN]** button and the display shows **" FADE "**.（Adjust fade speed）
6. Press **[ENTER]** to adjust fade speed.
7. Select **"CEDT"** by pressing **[UP]** or **[DOWN]** button.
8. Press **[ENTER]**, and the display shows **"OFF"**.
9. Press **[UP]** or **[DOWN]** button and the display shows **"ON"**.
10. Press **[ENTER],** the display shows **"SC02"**, you successfully downloaded the first scene.
11. Adjust the Step-time as described above under point 12.
12. Call up the second scene in your controller now.
13. Repeat steps 5-11 until all desired scenes are downloaded.
14. Press **[MENU]** to exit. The number of steps can be defined under **"STEP"** and the scenes can be called up under **"RUN".**

DMX CHANNEL FUNCTIONS AND VALUES

ELATION© ELAR QUAD PAR™ DMX Channel Values / Functions (36 DMX Channels)						
Specifications are subject to change without any prior written notice.						
MODE / CHANNEL					VALUE	FUNCTION
4	5	6	8	36		
1	1	1	1			**RED - All LEDs [1-9]**
					0-255	Red (0-Black , 255-100% Red)
2	2	2	2			**GREEN - All LEDs [1-9]**
					0-255	Green (0-Black , 255-100% Green)
3	3	3	3			**BLUE - All LEDs [1-9]**
					0-255	Blue (0-Black , 255-100% Blue)
4	4	4	4			**WHITE - All LEDs [1-9]**
					0-255	White (0-Black , 255-100% White)
				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)

ELATION© ELAR QUAD PAR™ DMX Channel Values / Functions (36 DMX Channels)						
Specifications are subject to change without any prior written notice.						
MODE/CHANNEL					VALUE	FUNCTION
4	5	6	8	36		
				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)
				33		**RED - LED [9]**
					0-255	Red (0-Black , 255-100% Red)
				34		**GREEN - LED [9]**
					0-255	Green (0-Black , 255-100% Green)
				35		**BLUE - LED [9]**
					0-255	Blue (0-Black , 255-100% Blue)
				36		**WHITE - LED [9]**
					0-255	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
		5	5		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
	5	6	6		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
			7		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
			8		0-255	FAST to SLOW

LED NUMBERS



CLEANING AND MAINTENANCE

CAUTION!
Disconnect from mains before starting maintenance operation.

CLEANING

Frequent cleaning is recommended to insure proper function and an extended life.

- Clean LED lens surface weekly to avoid dust accumulation.
- Never use alcohol or solvents.

MAINTENANCE

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

Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue or sediments. Never remove the ground prong from the power cable.

TECHNICAL SPECIFICATIONS

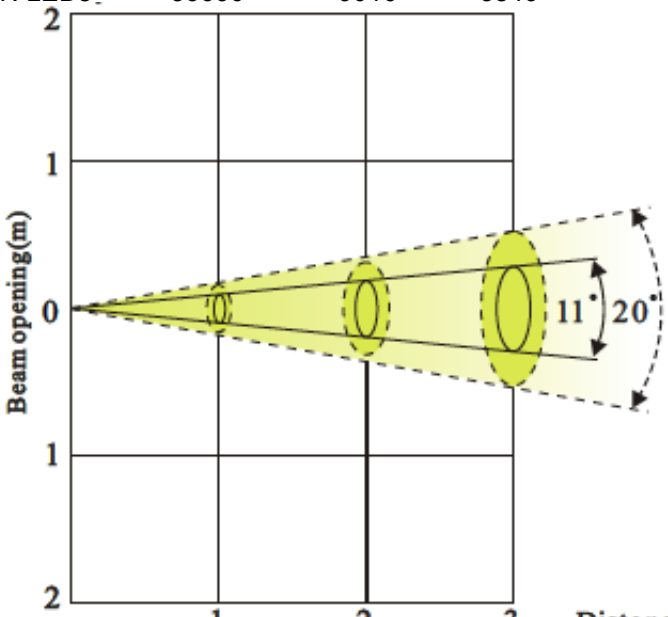
POWER SUPPLY	
Voltage Requirements	AC 100 ~240V / 50Hz~60Hz
Power Consumption	160 Watts
LIGHT SOURCE	
Type	9 x 10W CREE QUAD LEDs
Life Time	100,000 Rated Hours *May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.
OPTICAL	
11˚Beam Angle ~ 20˚ Field Angle	
COLOR MIXING	
RGBW Additive Color Mixing, 16.7 Million Color Possibilities	
STROBE / DIMMER	
Strobe-effect with variable speed 1 - 18 flashes per second	
0-100% Dimmer	
DMX CHANELS	
4, 5, 6, 8, 36	
DMX DRIVE	
USITT DMX-512, 3-pin IP65 rated XLR; [+] = Pin 3, [-] = Pin 2, [Ground] = Pin 1. Starting DMX [001].	
SIZE and WEIGHT	
Dimensions	10.6” (L) x 9.1” (W) x 12.4” (H) 269mm (L) x 232mm (W) x 315mm (H)
Weight (net)	16 lbs. / 7.3 kgs
RATINGS	
IP Rating	IP65
Maximum Ambient Temp	45˚C / 113°F

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

PHOTOMETRIC DATA

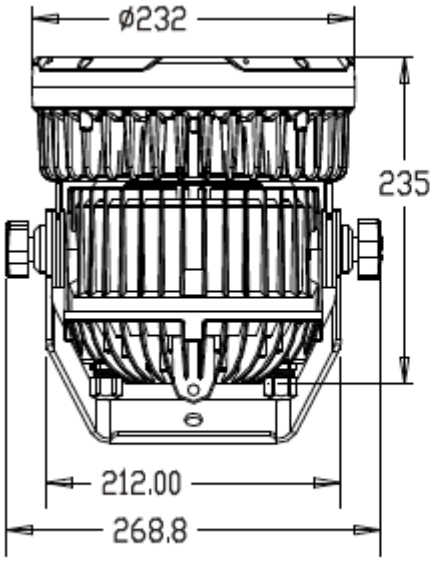
Beam Angle 11°
Field Angle 20°
Intensity LUX

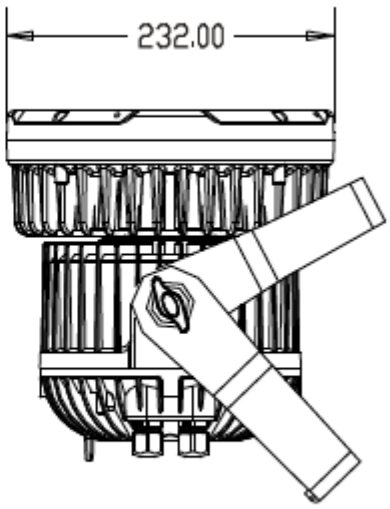
RED LEDs	8810	2326	986
GREEN LEDs	12520	2989	1374
BLUE LEDs	2670	690	284
WHITE LEDs	17980	3683	1691
FULL ON LEDs	36690	9010	3849



1	2	3	Distance(m)
0.2	0.4	0.6	11° Diameter(m)
0.35	0.7	1.05	20° Diameter(m)

DIMENSIONAL DRAWINGS (millimeters)





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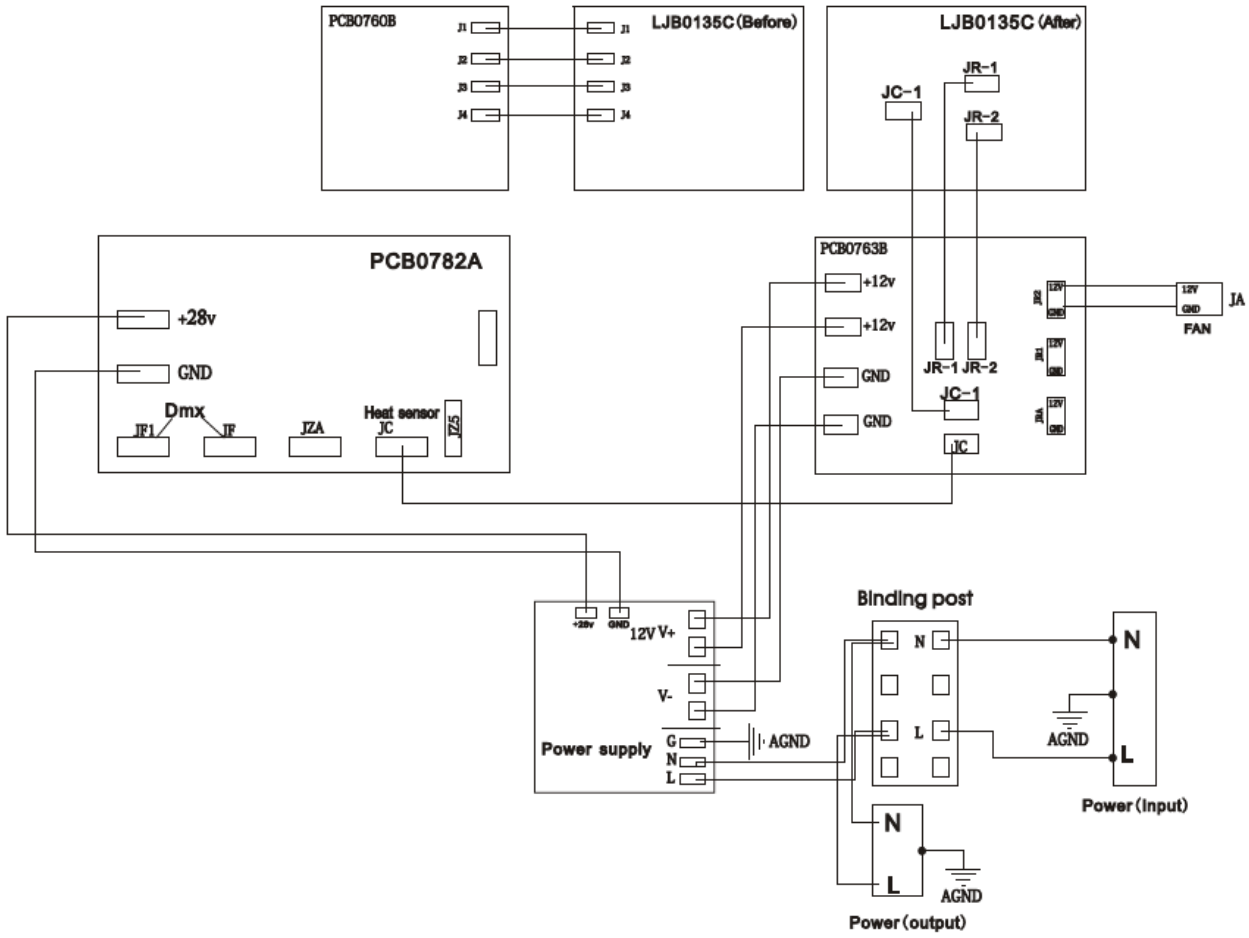
CIRCUIT SCHEMATIC



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