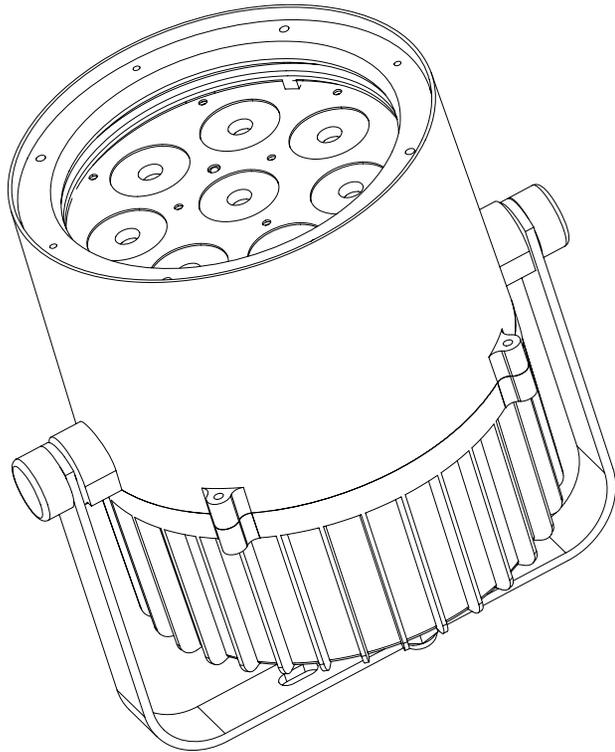




## ELAR EXQUADPAR HP



### *User Instructions*

#### ELAR EXQUADPAR HP

#### Introduction

**Unpacking:** Thank you for purchasing the ELAR EXQUADPAR HP by Elation Architectural®. Every ELAR EXQUADPAR HP 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 fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact our customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

**Introduction:** The ELAR EXQUADPAR HP is part of Elation Architectural® continuing pursuit for creating high quality affordable intelligent fixtures. The ELAR EXQUADPAR HP is a powerful DMX intelligent RGBW LED par. This par is light weight and compact which makes it a great piece for mobile DJ's and clubs. The unit has 4 operating modes; Auto Run mode, Program mode, RGB mode, and DMX Controlled. This unit can be used as a stand alone unit or in a master-slave configuration.

**Customer Support:** ©Elation® 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. Service Hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Pacific Standard Time.

Voice: (323) 582-3322

Fax: (323) 832-9142

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

**Warning!** To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

**Caution!** There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact ©Elation customer support.

**PLEASE recycle the shipping carton when ever possible.**

## ELAR EXQUADPAR HP

## General Instructions

To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit, for future reference.

## ELAR EXQUADPAR HP

## Features

- Multi-Colors
- Quad LEDs - 4 LEDs Per Lens
- Built in Microphone
- DMX-512 protocol
- 8 DMX Modes: 1 Channel Mode, 2 Channel Mode, 3 Channel Mode, 4 Channel Mode, 5 Channel Mode, 6 Channel Mode, 7 Channel Mode, & 8 Channel Mode
- Dimming 0-100% in 2 Channel Mode, 3 Channel Mode, 5 Channel Mode, 6 Channel Mode, 7 Channel Mode, 8 Channel Mode.
- Daisy Chain Units Together in DMX Mode
- Daisy Chain Units Together via Power Cord

## ELAR EXQUADPAR HP

## Warranty Registration

The ELAR EXQUADPAR HP carries a two year 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 included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain a R.A. number by contacting our customer support team on our customer support number. All packages returned to the service department not displaying a R.A. number on the outside of the package will be returned to the shipper.

## ELAR EXQUADPAR HP

## Safety Precautions

- Be sure that the local power outlet match that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never open this unit, it is factory sealed for a reason.
- Never plug this unit in to a dimmer pack
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 15 for cleaning details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged.
  - B. Objects have fallen, or liquid has been spilled into the appliance.
  - C. The appliance does not appear to operate normally or exhibits a marked change in performance.

**Power Supply:** The Elation ELAR EXQUADPAR HP contains a automatic voltage switch, which will auto sense the voltage when it is plugged into the power source. With this switch there is no need to worry about the correct power voltage, this unit can be plugged in anywhere.

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

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

**Data Cable (DMX Cable) Requirements (For DMX Operation):**

The ELAR EXQUADPAR HP can be controlled via DMX-512 protocol. The ELAR EXQUADPAR HP has 8 DMX Modes. The DMX address is set using the ELAR WR controller. Your unit and your DMX controller require a approved DMX-512 110 Ohm Data cable for data input and data output. We highly recommend the ELAR 3C-1M or ELAR 3C-5M DMX Cables. These cables can be used in dry, damp, or wet areas in indoor or outdoor enviroments. The rubber neoprene outer jacket is weather and ozone resistant making the cables suitable for outdoor use. This cable may be purchased at almost all professional sound and lighting stores. Remember that DMX cable must be daisy chained and cannot be split.

**Special Note: Line Termination.** When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will 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 DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below 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		Do Not Use
Not Used		Do Not Use

The **ELAR WR IR II** has many different functions and gives you complete control of your Elation® Architectural fixture.

To control the your desired fixture you must aim the controller at the front of the fixture and be no more the 30 feet away.

**BLACKOUT** - Pressing this button will blackout the fixture.

**PROGRAM SELECTION** - This button will let you activate color macro mode, color change mode, color fade mode, or auto run. Each press of this button will switch to the next running mode.

- If the Red LED's glow and then shut off, you are in Color Macro Mode. Use the "+" & "-" buttons to change the color macro.
- If the Green LED's glow and then shut off, you are in Auto Run Mode.
- If the Blue LED's glow and then shut off, you are in Color Fade Mode. Use the "+" & "-" buttons to change the color fade mode.
- If the White LED's glow and then shut off, you are in Color Change Mode. Use the "+" & "-" buttons to change the color change mode.

You can then press the FLASH button to turn on/off flash (strobe). See FLASH below. **NOTE: Flash will only work in color macro mode.** Press the SPEED button to adjust the color changing, fade speed, and auto run speed. See SPEED below.

**FLASH** - This button will activate the strobe effect. You can control the flash rate by pressing the "+" and "-" buttons. Press this button again to exit strobe mode.

**SPEED** - Press this button and use the "+" & "-" buttons to adjust the speed of the Auto run, color fade, and color change

**DMX MODE** - This button will let you select which DMX mode you want to use. Some fixtures will come with different DMX channel modes. This button will switch between the different modes. Please see pages 9-13 for DMX modes, values, and traits.

**SOUND ACTIVE** - The ELAR EXQUADPAR HP does not have sound active mode.

**SLAVE** - This designates the fixture as a slave fixture in a master/slave configuration.

**SET ADDRESS** - Press this button to set the DMX address. Press this button first, then press the numbers to set the address.

**Example: DMX Address 1 Press "S001"**

**DMX Address 245 Press "S245"**

**R G B W** - Press either one of these buttons, and then press the "+" and "-" to adjust the brightness. You can then press the FLASH button to turn on/off flash (strobe). See FLASH on the previous page.

**"+" and "-"** - Use these buttons to adjust the flash rate, speed of the Auto Run, and program selection.

#### **DMX Control:**

Operating through an Elation® DMX controller gives the user the freedom to create their own programs tailored to their own individual needs. Note: Your fixture may have different DMX modes, please see the page corresponding to your fixture, to understand and set the DMX Mode. To set your DMX Mode please see below.

1. Before connecting to an Elation® DMX controller, your fixture has different DMX channel modes, please select your desired mode by using the DMX Mode button. Set the mode before you address the fixture. After you have selected your mode, set the DMX address for the fixture by pressing the "S" button and then use the number buttons to press in your desired address. See **SET ADDRESS** for examples.
2. Now you may connect the fixture via the XLR connections to any standard Elation® DMX controller. Please see pages 9-13 to for a detailed descriptions of the DMX modes, values, and traits.

**Note: Do not connect to DMX unless you use the default start address of 1.**

- **If Red LED's glow you are in DMX Mode 1: 1 DMX Channel**
- **If Green LED's glow you are in DMX Mode 2: 2 DMX Channels**
- **If Blue LED's glow you are in DMX Mode 3: 3 DMX Channels**
- **If White LED's glow you are in DMX Mode 4: 4 DMX Channels**
- **If Red & Green LED's glow you are in DMX Mode 5: 5 DMX Channels**
- **If Red & Blue LED's glow you are in DMX Mode 6: 6 DMX Channels**

## ELAR EXQUADPAR HP

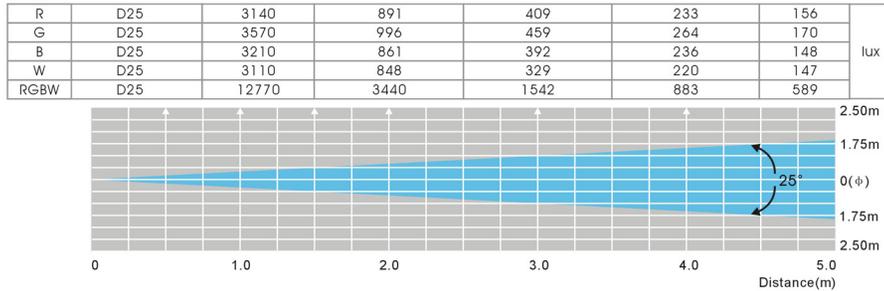
## Operating Instructions

### Channels

- If Red & White LED's glow you are in DMX Mode 7: 7 DMX Channels
- If Green & Blue LED's glow you are in DMX Mode 8: 8 DMX Channels

## ELAR EXQUADPAR HP

## Photometric Chart



## ELAR EXQUADPAR HP

## Power Cord Daisy Chain

With this feature you can connect the fixtures to one another using the IEC input and output sockets. The quantity that can be connected is 12 fixtures maximum. After 12 fixtures you will need to use a new power outlet. They must be the same fixtures. DO NOT mix fixtures.

## ELAR EXQUADPAR HP

## 1 Channel Mode

Channel	Value	Function
1	0 - 15	COLOR MACROS OFF
	16 - 31	RED
	32 - 47	GREEN
	48 - 63	BLUE
	64 - 79	WHITE
	80 - 95	RED & GREEN
	96 - 111	RED & BLUE
	112 - 127	RED & WHITE
	128 - 143	GREEN & BLUE
	144 - 159	GREEN & WHITE
	160 - 175	BLUE & WHITE
	176 - 191	RED & GREEN & BLUE
	192 - 207	RED & GREEN & WHITE
	208 - 223	RED & BLUE & WHITE
	224 - 239	GREEN & BLUE & WHITE
	240 - 255	RED & GREEN & BLUE & WHITE

## ELAR EXQUADPAR HP

## 2 Channel Mode

Channel	Value	Function
1		COLOR MACROS (Please see 1 Channel Mode)
		MASTER DIMMER 0% - 100%
2	1 - 255	MASTER DIMMER 0% - 100%

## ELAR EXQUADPAR HP

## 3 Channel Mode

Channel	Value	Function
1		COLOR MACROS (Please see 1 Channel Mode)
		MASTER DIMMER 0% - 100%
2	1 - 255	MASTER DIMMER 0% - 100%
	0 - 15	STROBING OFF
	16 - 255	SLOW - FAST

ELAR EXQUADPAR HP		4 Channel Mode
Channel	Value	Function
1	1 - 255	RED 0% - 100%
2	1 - 255	GREEN 0% - 100%
3	1 - 255	BLUE 0% - 100%
4	1 - 255	WHITE 0% - 100%

ELAR EXQUADPAR HP		6 Channel Mode
Channel	Value	Function
1	1 - 255	RED 0% - 100%
2	1 - 255	GREEN 0% - 100%
3	1 - 255	BLUE 0% - 100%
4	1 - 255	WHITE 0% - 100%
5	1 - 255	MASTER DIMMER 0% - 100%

ELAR EXQUADPAR HP		6 Channel Mode
Channel	Value	Function
1	1 - 255	RED 0% - 100%
2	1 - 255	GREEN 0% - 100%
3	1 - 255	BLUE 0% - 100%
4	1 - 255	WHITE 0% - 100%
5	1 - 255	MASTER DIMMER 0% - 100%
6	0 - 255	COLOR MACROS (Please see 1 Channel Mode)

**NOTE:** Channels 1, 2, 3, & 4 will not work, when Channel 6 is being used.

ELAR EXQUADPAR HP		7 Channel Mode
Channel	Value	Function
1	1 - 255	RED 0% - 100%
2	1 - 255	GREEN 0% - 100%
3	1 - 255	BLUE 0% - 100%
4	1 - 255	WHITE 0% - 100%
5	1 - 255	MASTER DIMMER 0% - 100%
6	0 - 15 16 - 255	STROBING OFF SLOW - FAST
7	0 - 255	COLOR MACROS (Please see 1 Channel Mode)

**NOTE:** Channels 1, 2, 3, & 4 will not work, when Channel 7 is being used.

ELAR EXQUADPAR HP		8 Channel Mode
Channel	Value	Function
1	1 - 255	RED 0% - 100%
2	1 - 255	GREEN 0% - 100%
3	1 - 255	BLUE 0% - 100%
4	1 - 255	WHITE 0% - 100%
5	1 - 255	MASTER DIMMER 0% - 100%
6	0 - 15 16 - 255 0 - 255	STROBING/PROGRAM SPEED STROBING OFF STROBING SLOW - FAST PROGRAM SPEED SLOW - FAST
7	0 - 63 64 - 127 128 - 191 192 - 255	DIMMING/STATIC COLOR SELECT/ COLOR CHANGE SELECT/ COLOR FADE SELECT DIMMER MODE COLOR MACRO MODE COLOR CHANGE MODE COLOR FADE MODE
8	0 - 255  0 - 15 16 - 31 32 - 47 48 - 63 64 - 79 80 - 95 96 - 111 112 - 127	MACROS & PROGRAMS <u>COLOR MACROS</u> (Please see 1 Channel Mode)  <u>COLOR CHANGE MODE</u> COLOR CHANGE 1 COLOR CHANGE 2 COLOR CHANGE 3 COLOR CHANGE 4 COLOR CHANGE 5 COLOR CHANGE 6 COLOR CHANGE 7 COLOR CHANGE 8

ELAR EXQUADPAR HP		8 Channel Mode
Channel	Value	Function
8	128 - 143 144 - 159 160 - 175 176 - 191 192 - 207 208 - 223 224 - 239 240 - 255	COLOR CHANGE 9 COLOR CHANGE 10 COLOR CHANGE 11 COLOR CHANGE 12 COLOR CHANGE 13 COLOR CHANGE 14 COLOR CHANGE 15 COLOR CHANGE 16
		<u>COLOR FADE MODE</u>
	0 - 15 16 - 31 32 - 47 48 - 63 64 - 79 80 - 95 96 - 111 112 - 127 128 - 143 144 - 159 160 - 175 176 - 191 192 - 207 208 - 223 224 - 239 240 - 255	COLOR FADE 1 COLOR FADE 2 COLOR FADE 3 COLOR FADE 4 COLOR FADE 5 COLOR FADE 6 COLOR FADE 7 COLOR FADE 8 COLOR FADE 9 COLOR FADE 10 COLOR FADE 11 COLOR FADE 12 COLOR FADE 13 COLOR FADE 14 COLOR FADE 15 COLOR FADE 16

**NOTE:**

When Channel 7 values are between 0-63, you are in RGBW dimming mode, meaning Channels 1, 2, 3, & 4 will control RGBW dimming and Channel 6 will control strobing.

When Channel 7 values are between 64-127, Channel 8 will be in Color Macro Mode, and Channel 6 will control strobing. See 1 Channel mode for the values and color macros.

When Channel 7 values are between 128-191, Channel 8 will be in Color Change Mode. Channel 6 will control the color change speed.

When Channel 7 values are between 192-255, Channel 8 will be in Color Fade Mode. Channel 6 will control the color fade speed.

## ELAR EXQUADPAR HP

## Cleaning

Due to fog residue, smoke, and dust cleaning the external optical lenses must be carried out periodically to optimize light output.

**Never** open the unit. This unit is sealed at the factory and designed to withstand outside elements.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

## ELAR EXQUADPAR HP

## Trouble Shooting

Listed below are a few common problems the user may encounter, with solutions.

### ***Unit not responding to DMX:***

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is “hot”; on some other DMX devices pin 2 may be ‘hot’). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

### ***Unit does not respond to sound:***

1. Quiet or high pitched sounds will not activate the unit.

## ELAR EXQUADPAR HP

## Warranty

### **2-YEAR LIMITED WARRANTY**

**A.** Elation® Architectural hereby warrants, to the original purchaser, Elation® Professionals® 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® Professionals® 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® Professionals® 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® Professionals® shall have no liability whatsoever 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® Professionals® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation® Professionals® factory unless prior written authorization was issued to purchaser by Elation® Professionals®; if the product is damaged because not properly maintained as set forth in the User 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® Professionals® 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® Professionals® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation® Professionals®. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

**E.** Elation® Professionals® 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® Professionals® 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® Professionals® 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® Professionals® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.



**Model: ELAR EXQUADPAR HP**SPECIFICATIONS:

Working Position:	Any safe working position
Voltage:	100V ~ 240V/60~50Hz
Power Cord Daisy Chain:	12 Fixtures Max.
LED's:	8 x 5 Watt Quad (4-in-1) LED's
Power Consumption:	45W
IP Rating:	65
Beam Angle:	25 Degrees
Weight:	11lbs./ 4.6Kgs.
Dimensions:	8.25" (L) x 8.25" (W) x 9.5" (H) 205 x 205 x 235mm
Colors:	RGBW Color Mixing
DMX Channels:	8 DMX Modes: 1 Channel Mode, 2 Channel Mode, 3 Channel Mode, 4 Channel Mode, 5 Channel Mode, 6 Channel Mode, 7 Channel Mode, & 8 Channel Mode
Warranty:	2 Year (730 days)

**Auto Sensing Voltage:** *This fixture contains a electronic ballast, which will auto sense the voltage when it is plugged into the power source.*

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

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