PROTRON 3K™

user manual

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

323-582-3322 **|** 323-832-9142 fax **|** www.elationlighting.com **|** info@elationlighting.com

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

+31 45 546 85 66 **|** +31 45 546 85 96 fax **|** www.elationlighting.eu **|** info@elationlighting.eu

DOCUMENT VERSION

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

Date	Document Version	Software Version	DMX Channel Modes	Notes
1/15/16	2	A: ≥1.1 Ab: ≥1.0 B: ≥1.1 Bb: ≥1.0	1 / 2 / 3 / 4	Added ETL control number.
08/31/20	3	N/C	NO CHANGE	Updated connections
08/25/21	4	N/C	NO CHANGE	Added Power Saving Mode section, updated Specifications

CONTENTS

GENERAL INFORMATION

INTRODUCTION

Congratulations, you have just purchased one of the most innovative and revolutionary new hybrid lighting fixtures on the market today! The fixture 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.

UNPACKING

Every fixture 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) Power Cable
- Manual & Warranty Card

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

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

E-mail: support@elationlighting.com

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

Voice: +31 45 546 85 30   Fax: +31 45 546 85 96

E-mail: support@elationlighting.eu

WARRANTY REGISTRATION

Please complete and mail in the enclosed warranty card or register online: http://www.elationlighting.com/Login.aspx 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.

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), and Elation Professional® product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days), from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Elation Professional® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional® will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional® shall have no liability what so ever for loss and/or or damage to any such accessories, nor for the safe return thereof.

C.   This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Elation Professional® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional® factory unless prior written authorization was issued to purchaser by Elation Professional®; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.

D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Elation Professional® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional®. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.

E. Elation Professional® reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional® be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.

G. This warranty is the only written warranty applicable to Elation Professional® products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

SAFETY INSTRUCTIONS

This fixture 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.

INDOORS USE ONLY!
DO NOT EXPOSE FIXTURE RAIN AND MOISTURE!

UNPLUG POWER BEFORE SERVICING FIXTURE!
DO NOT PLUG FIXTURE INTO A DIMMER PACK!
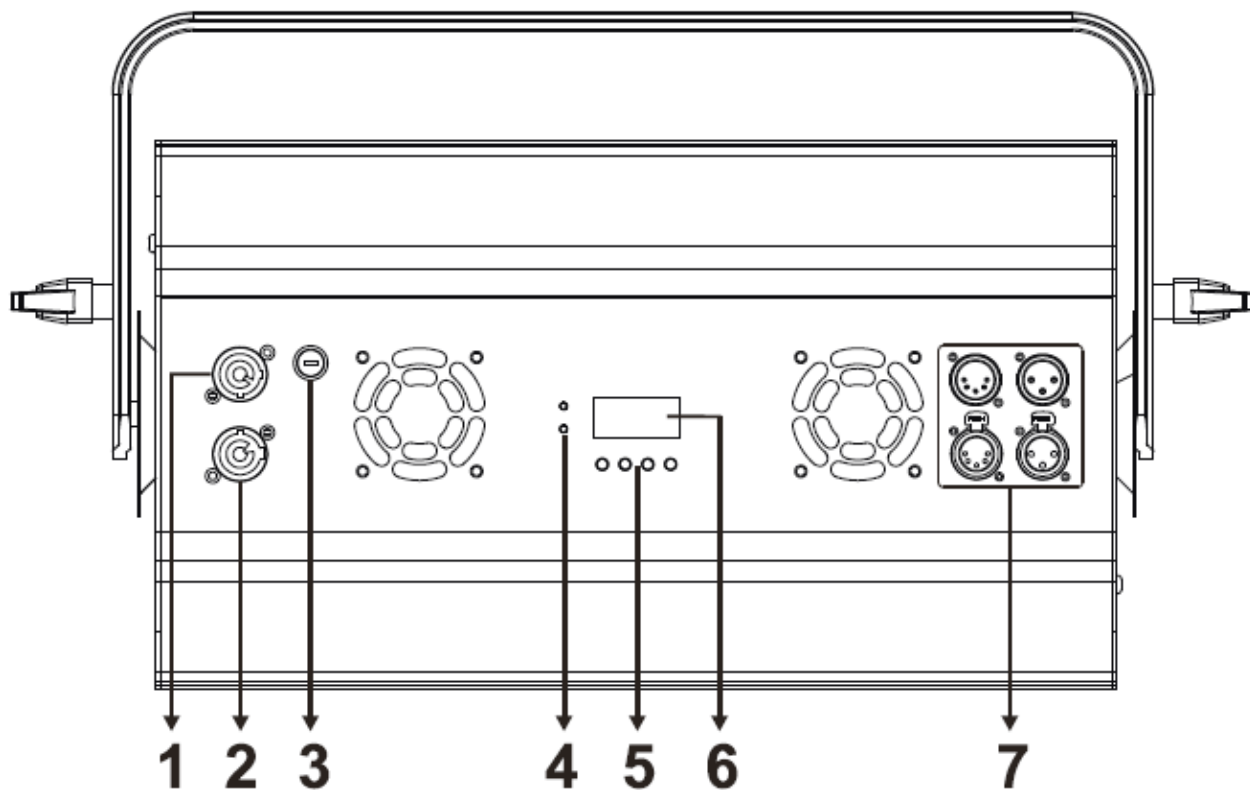**NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!**

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 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 **INDOOR / DRY LOCATIONS ONLY** on stage, in nightclubs, theatres, etc.

- 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)**.

- **Maximum** temp of the external surface may reach **167°F (75°C)**.

- The fixture must be installed in a location with adequate ventilation, at least **0.6" (15cm)** from adjacent surfaces. Be sure no air ventilation slots are blocked.

- **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. **Power OUT**

2. **Power IN**

3. **FUSE**

4. **LED Indicators - DMX Signal, Flash**

5. **MENU, UP, DOWN, ENTER Buttons**

6. **LCD Menu Function Display**

7. **3/5pin DMX IN/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.**
⚠️	**WARNING** **MINIMUM distance of inflammable materials from surface 1.6 feet (0.5m). Keep fixture at least 5.0 feet (1.5m) away from any flammable materials, decorations, pyrotechnics, etc.**

CAUTIONS

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

- Maximum ambient operating temperature for this fixture is **104°F**. **(40°C)**

  Do not use the fixture under or above this temperature.

- Maximum temperature of the external surface may reach up to **167°F (75°C)**.

- 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.

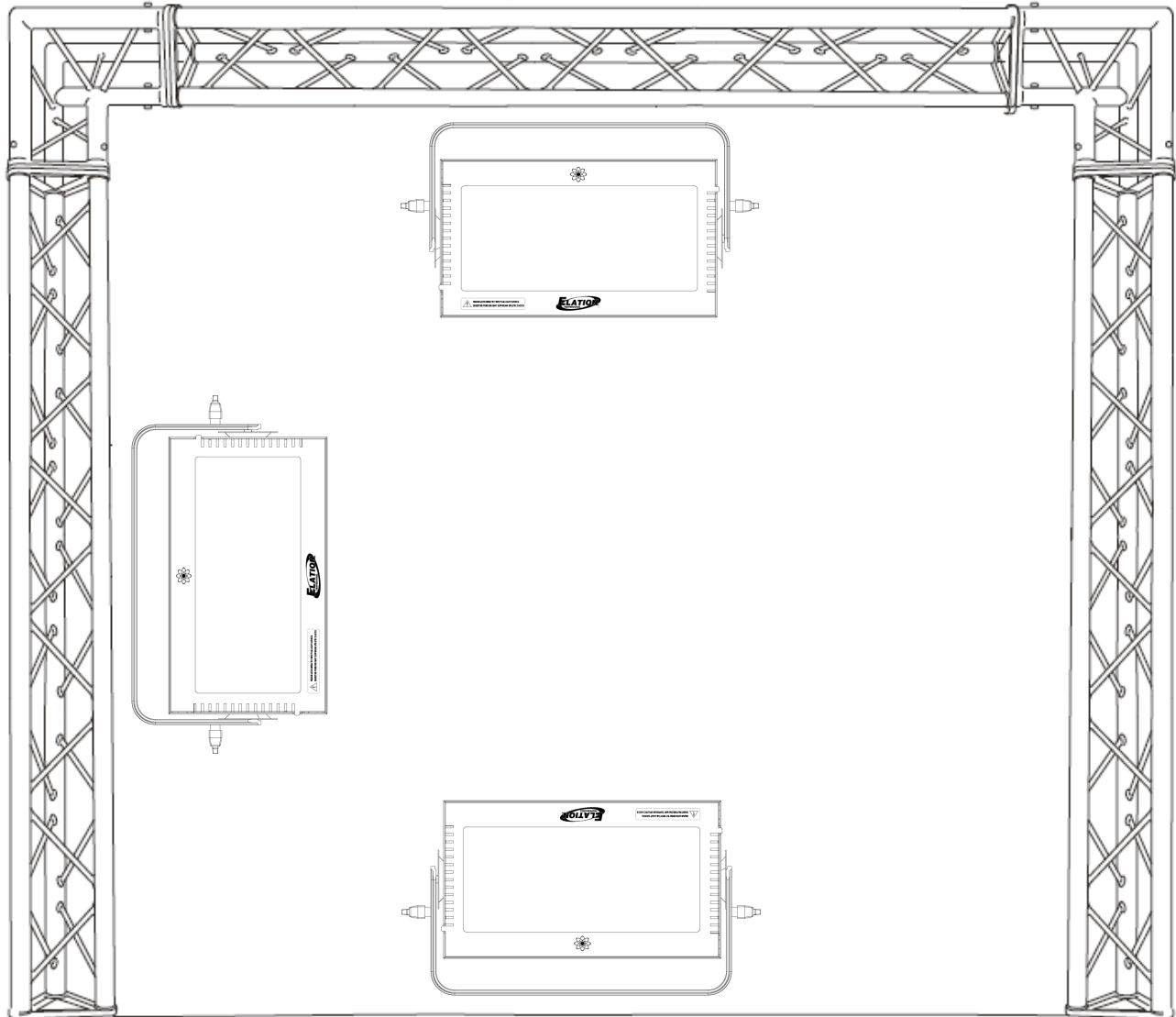- Never stand directly below the device when mounting, removing or servicing.

👉 POWER LINKING

Max number of units that can be power linked is **2 units @120V**.

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 of the mounting positions as illustrated below.

👉 **S A F E T Y   C A B L E**

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 AND SECURING

The **PROTRON 3K™** includes an adjustable mounting yoke that attaches to both sides of the fixture. When mounting this fixture to truss be sure to secure an appropriately rated clamp to the mounting yoke using a M10 screw fitted through the center hole of the mounting yoke. Be sure to attach a **Safety Cable** to the fixture using the safety cable rigging point on the back of the fixture as illustrated below. Be sure to only use this designated rigging point to attach the safety cable.
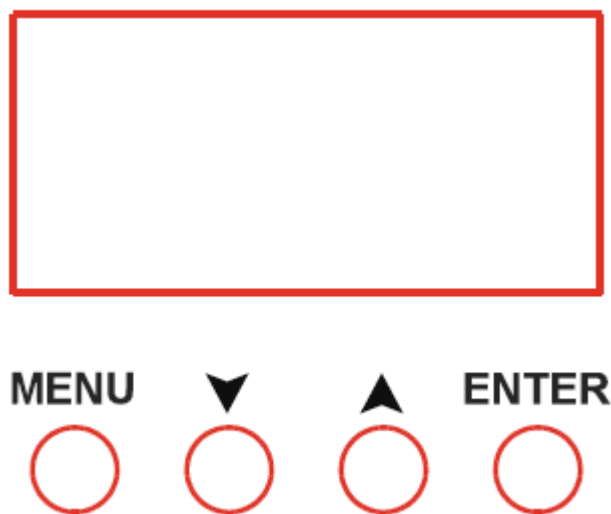
SAFETY CABLE   RIGGING POINT

FIXTURE MENU

ON-BOARD SYSTEM MENU

The **PROTRON 3K™** 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 back of the fixture allows you to access the main menu and make all necessary adjustments to the **PROTRON 3K™.** During normal operation, pressing **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 and holding the **MENU** button for 3 seconds.

☞ **The MENU display will lock when NO buttons are pressed for 30 seconds. When the display locks, none of the control panel buttons will respond. To unlock the display, press and hold the MENU button 3 seconds to access the menu options once again.**

ELATION© PROTRON 3K™ MAIN MENU			
Specifications are subject to change without any prior written notice.			
MENU	**OPTIONS / VALUES**		**DESCRIPTION**
DMX Address	1 - 512		Set DMX Address
Channel Mode	1Chan, 2Chan, 3Chan, 4Chan		Set DMX Channel Mode
Power Save	Low, High		Set Power Mode
Manual Mode	On, Off	Intnsity 000- 255	Set Manual Settings
		Durate - Null 0.1s / 0.2s / 0.5s / 1s 1.5s / 2s / 2.5s / 3s	
		Rate 000 - 255	
Back Light	On, Off		Turn LCD Display Back Light On/Off
Auto Test			Run Self-Test Using Internal Programs
Temp	T x x x		Displays Fixture Temperature
Fixture Hours	x x x x		Displays Total Fixture Run Time
Firmware Version	A: Ab:		Displays Fixture Software Version

T H E R M A L   P R O T E C T I O N   F E A T U R E

When operating the unit in **High Power Save Mode** at Full Intensity (255) and Rate (255) for more than 10 seconds, the output brightness will reduce to protect the LED lamp.

POWER SAVING MODE

This device features a power saving mode that allows the user to selection from the following options:

- *Low:* Allows longer periods of illumination at a reduced intensity level. Power consumption is limited to 197W 3.54A.

- *High:* Allows shorter periods of illumination (up to approximately 10 seconds, with a cool down interval of 6 seconds) at full intensity. Full power draw of 887W 6.48A is permitted.

Please note that if the device illuminates for 20 seconds in the "High" setting, the device will default to the "Low" setting the next time it illuminates.

To access this setting in the system menu, follow the steps below:

1. Press the MENU button to bring up the main menu.
2. Use the UP and DOWN buttons to scroll to "Power Save," and press ENTER to confirm.
3. Use the UP and DOWN buttons to toggle between the "High" and "Low" settings, then press ENTER to confirm your choice.

DMX CHANNEL FUNCTIONS AND VALUES

MODE / CHANNEL				VALUE	FUNCTION
ELATION© PROTRON 3K™					
DMX Channel Values / Functions (4 DMX Channels)					
Specifications subject to change without any prior written notice.					
1	2	3	4		
1					**FLASH RATE**
				0-5	Blackout
				6-250	FLASH Rate, SLOW to FAST
				251-255	Continuous BLINDER effect
	1				**FLASH RATE**
				0-5	Blackout
				6-255	FLASH Rate, SLOW to FAST
	2	1	1		**FLASH INTENSITY**
				0-5	Blackout
				6-255	FLASH Intensity, MIN to MAX
		2	2		**FLASH DURATION**
				0-255	0-650ms @50Hz AC / 0-530ms @60Hz AC (0-100%)
		3	3		**FLASH RATE**
				0-5	NO FLASH (single FLASH with CH 1)
				6-255	0.5-25Hz AC / 0.6-30Hz AC
			4		**SPECIAL EFFECTS**
				0-5	NO Effect
				6-42	Ramp UP
				43-85	Ramp DOWN
				86-128	Ramp UP-DOWN
				129-171	Random
				172-214	Lighting
				215-255	Spikes

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. Lose 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.

TECHNICAL SPECIFICATIONS

SOURCE
(202) CREE™ 3W Cool White LEDs
80,000 Total Lumens
50,000 Average LED Life*
*May vary depending on several factors including but not limited to:
Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.

EFFECTS
Electronic Dimming
Burst, Pulse, Lighting, Full ON*
*Thermally regulated output at full max 10 seconds.

CONTROL / CONNECTIONS
4 DMX Channel Modes (1 / 2 / 3 / 4)
4 Button Control Panel
LCD Menu Display
3/5pin DMX In/Out
Power In/Out
Power Link Up To (2) Units at 120V

SIZE / WEIGHT
Length: 21.5" (546mm)
Width: 6.9" (175mm)
Vertical Height: 11.7" (297mm)
Weight: 17.2 lbs. (7.8kg)

ELECTRICAL / THERMAL
AC 100-240V - 50/60Hz
887W Max Power Consumption
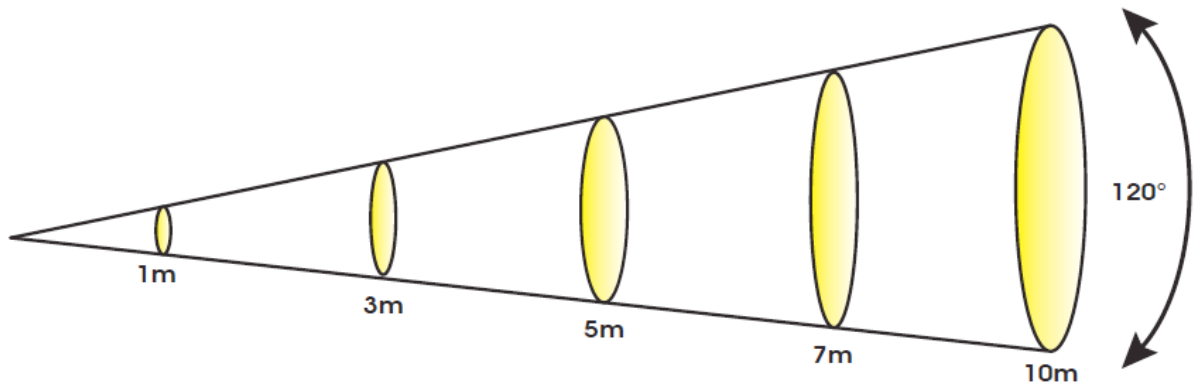Max Ambient Temperature 104°F (40°C)
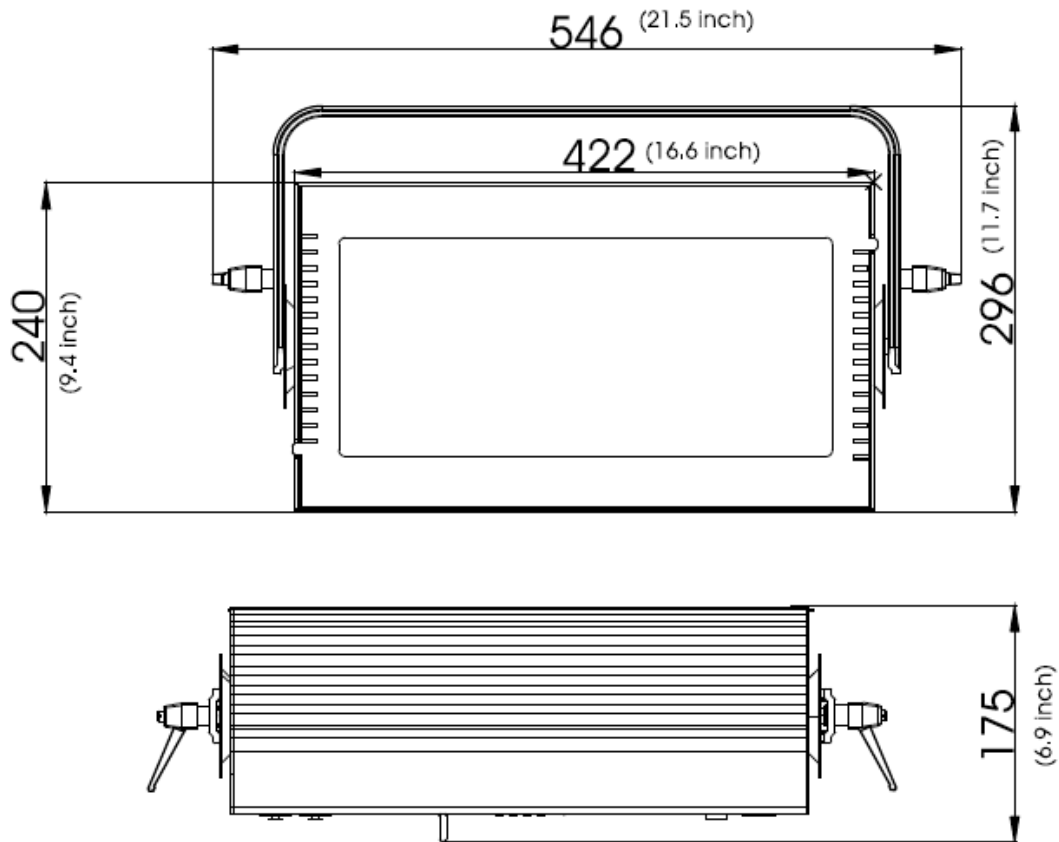
APPROVALS / RATINGS
CE | IP20

Intertek
4000358

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

Distance	m	ft	m	ft	m	ft	m	ft	m	ft
	1	3.3	3	9.8	5	16.4	7	23.0	10	32.8
Photometrics	lux	fc	lux	fc	lux	fc	lux	fc	lux	fc
FULL ON	16,450	1,528	2,200	204	900	84	565	52	274	25

DIMENSIONAL DRAWINGS

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

OPTIONAL ACCESSORIES

ORDER CODE	ITEM
TRIGGER CLAMP	Heavy Duty Wrap Around Hook Style Clamp
PLC3	3' (1m) PRO Link Cable
PLC6	6' (1.8m) PRO Link Cable
AC3PDMX5PRO	5 ft. (1.5m) 3pin PRO DMX Cable
AC5PDMX5PRO	5 ft. (1.5m) 5pin PRO DMX Cable
	Additional Cable Lengths Available