

# PROTRON 3K COLOR™

user manual

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## DOCUMENT VERSION

 Please check [www.elationlighting.com](http://www.elationlighting.com) for the latest revision/update of this manual.

Date	Document Version	Software Version	DMX Channel Modes	Notes
4/15/16	1	B: $\geq 1.0$ V: $\geq 1.0$	3 / 5 / 7 / 8	Initial release.

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## **GENERAL INFORMATION**

### **INTRODUCTION**

Congratulations, you have just purchased one of the most innovative and revolutionary new 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) powerCON TRUE1 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](http://www.elationlighting.com) for any comments or suggestions. For service related issue please contact Elation Professional®.

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

**Voice: 323-582-3322**

**Fax: 323-832-9142**

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

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## **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.



**I N D O O R S U S E O N L Y !**  
**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!**



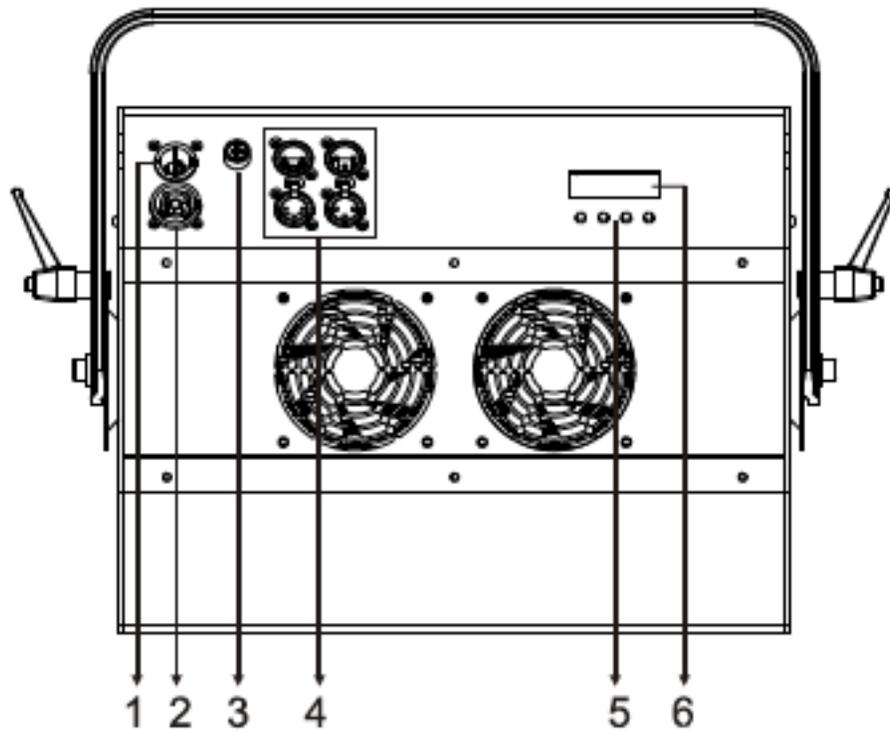
**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!**  
**SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!**

- 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 manufacturer's warranty and increase the risk of damage and/or personal injury.
- Never look directly into the light source of this fixture to prevent risk of injury to your retina, which may induce blindness. Those suffering from **EPILEPSY** should avoid looking directly into the light source of this unit at all times.
- 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. **powerCON TRUE1 IN**
2. **powerCON TRUE1 OUT**
3. **FUSE**
4. **3/5pin DMX IN/OUT**
5. **MENU, UP, DOWN, ENTER Buttons**
6. **OLED Menu Function Display**

## FIXTURE INSTALLATION

	<p><b>FLAMMABLE MATERIAL WARNING</b></p>
	<p><b>ELECTRICAL CONNECTIONS</b></p>
	<p><b>W A R N I N G</b></p>
	<p><b>MINIMUM</b> 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.</p>

### CAUTIONS

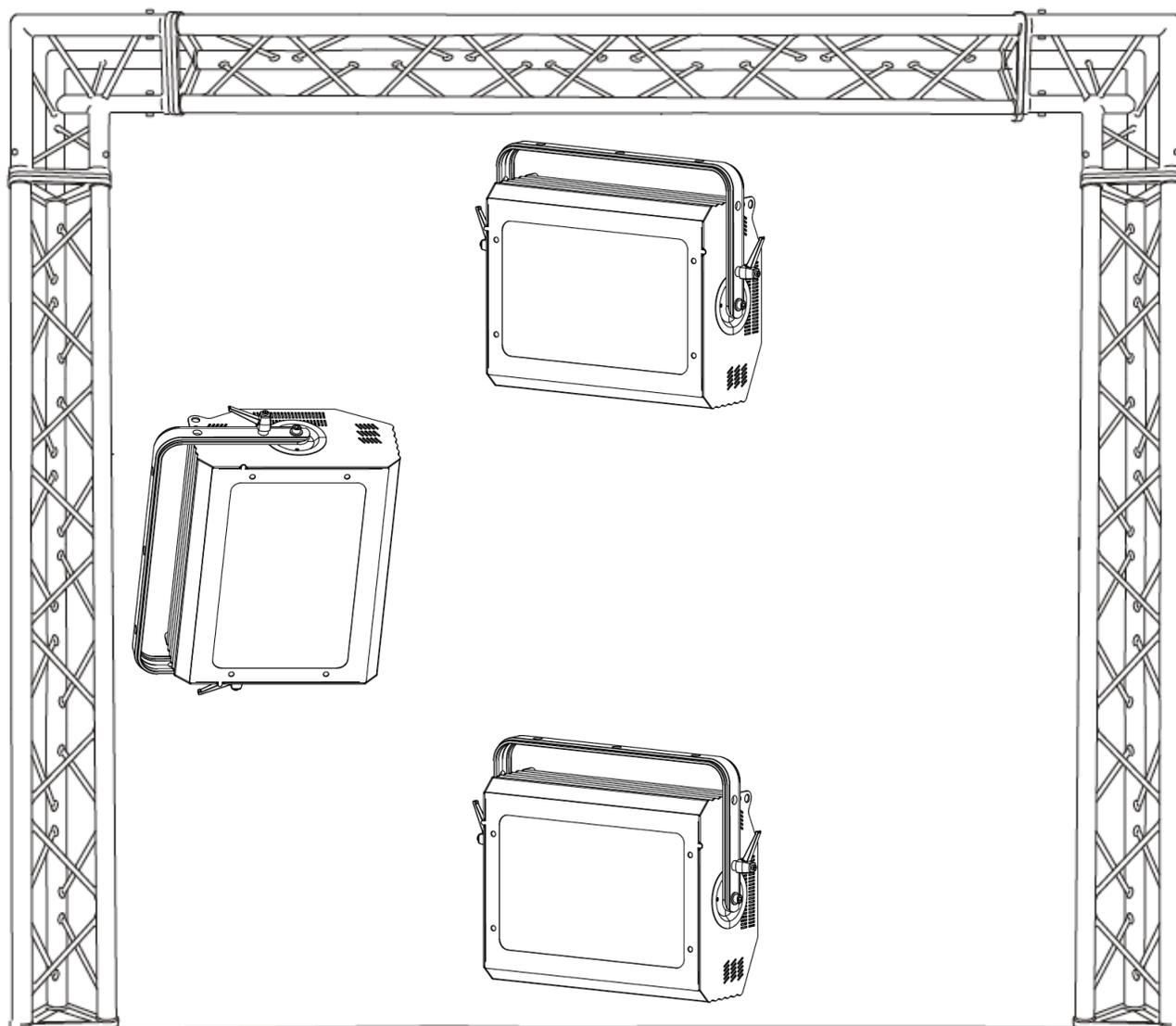
- For added protection, mount the fixture in areas outside walking paths, seating areas, or in areas where unauthorized personnel might reach the fixture.
- Maximum ambient operating temperature for this fixture is **104°F. (40°C)**  
Do not use the fixture under or above this temperature.
- Maximum 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 / 4 units @230V**.

## 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.



## SAFETY CABLE

**ALWAYS USE A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT DROP IF THE CLAMP FAILS.**

## CLAMP MOUNTING AND SECURING

The fixture 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** (not included) to the fixture using the safety cable rigging points on the both sides of the fixture as illustrated below. Be sure to only use these designated rigging points to attach the safety cable.

## SAFETY CABLE RIGGING POINTS



## FIXTURE MENU

### ON-BOARD SYSTEM MENU

The fixture comes with an easy to navigate system menu. The next section will detail the functions of each command in the system menu.

### OLED 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 fixture. 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 **DOWN** and **UP** 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 COLOR™ MAIN MENU		
Specifications are subject to change without any prior written notice.		
MENU	OPTIONS / VALUES <small>(Default settings in <b>BOLD</b>)</small>	DESCRIPTION
DMX Address	<b>1</b> - 512	Set DMX Address
Channel Mode	<b>1Chan</b> , 2Chan, 3Chan, 4Chan	Set DMX Channel Mode
Power Save	<b>Low</b> , High	Set Power Mode
Manual Mode	Red ( <b>000</b> -255) Green ( <b>000</b> -255) Blue ( <b>000</b> -255) White ( <b>000</b> -255) Intensity ( <b>000</b> -255) Duration ( <b>000</b> -255) Rate ( <b>000</b> -255)	Set Manual Settings
DMX Last State	<b>Manual</b> Blackout Last State	Set how fixture responds to loss of DMX signal
Back Light	<b>On</b> , Off	Turn LCD Display Back Light On/Off
Auto Test		Run Self-Test Using Internal Programs
White Balance	Red (125- <b>255</b> ) Green (125- <b>255</b> ) Blue (125- <b>255</b> ) White (125- <b>255</b> )	White Balance adjustment
Temp	T x x x °C	Displays Fixture Temperature
Fixture Hours	x x x x	Displays Total Fixture Run Time
Version	B:1.0 V1.0	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), Full Duration (255), and Full Rate (255) for more than 10 seconds, the output brightness will reduce to protect the LED lamp.

# DMX CHANNEL FUNCTIONS AND VALUES

ELATION® PROTRON 3K COLOR™					
DMX Channel Values / Functions (8 DMX Channels)					
Specifications subject to change without any prior written notice.					
MODE / CHANNEL				VALUES	FUNCTION
3	5	7	8		
	1	1	1		RED
				0-255	0 to 100%
	2	2	2		GREEN
				0-255	0 to 100%
	3	3	3		BLUE
				0-255	0 to 100%
	4	4	4		WHITE
				0-255	0 to 100%
1		5	5		FLASH INTENSITY
				0-5	Blackout
				6-255	MINIMUM to MAXIMUM
2		6	6		FLASH DURATION
				0-255	2.5ms - 650ms
3		7	7		FLASH RATE
				0-5	Blackout
				6-255	SLOW to FAST 0.3 - 25Hz
	5				FLASH RATE
				0-5	Blackout
				6-250	FLASH Rate, SLOW to FAST
				251-255	Continuous BLINDER effect
			8		SPECIAL EFFECTS
				0-5	NO EFFECT
				6-42	Ramp UP
				43-85	Ramp DOWN
				86-128	Ramp UP-DOWN
				129-171	Random
				172-214	Lightning
				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. Loose screws may fall out during normal operation resulting in damage or injury.
- Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Inspect all moving parts and make sure there are no signs of wear and rotate/move without imbalances.
- Electric power supply cables must not show any damage, material fatigue or sediments. Never remove the ground prong from the power cable.

## TECHNICAL SPECIFICATIONS

### SOURCE

(240) CREE™ XLamp™ 3W LEDs (60 each color-RGBW)

40,000 Total Lumens (Peak)

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.

### COLOR

RGBW

### EFFECTS

Electronic Dimming

Burst, Pulse, Lightning, Full ON\*

\*Thermally regulated output at full max 10 seconds.

### CONTROL / CONNECTIONS

4 DMX Channel Modes (3 / 5 / 7 / 8)

4 Button Control Panel

OLCD Menu Display

3/5pin DMX In/Out

powerCON TRUE1 In/Out

Power Link Up To (2) Units at 120V / (4) Units at 230V

### SIZE / WEIGHT

Length: 19.9" (506mm)

Width: 5.9" (150mm)

Vertical Height: 14.1" (357mm)

Weight: 24.3 lbs. (11.0kg)

### ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz

800W Max Power Consumption

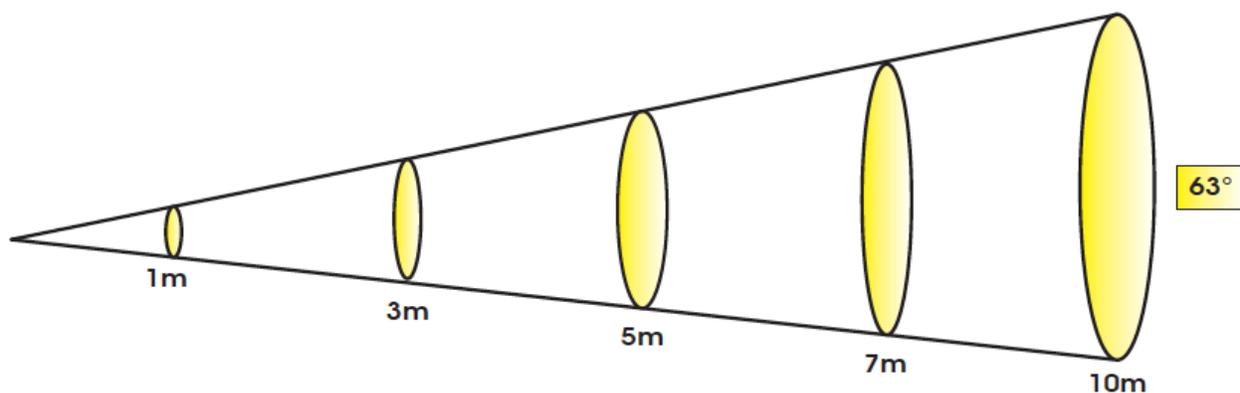
Max Ambient Temperature 104°F (40°C)

### APPROVALS / RATINGS

CE | IP20

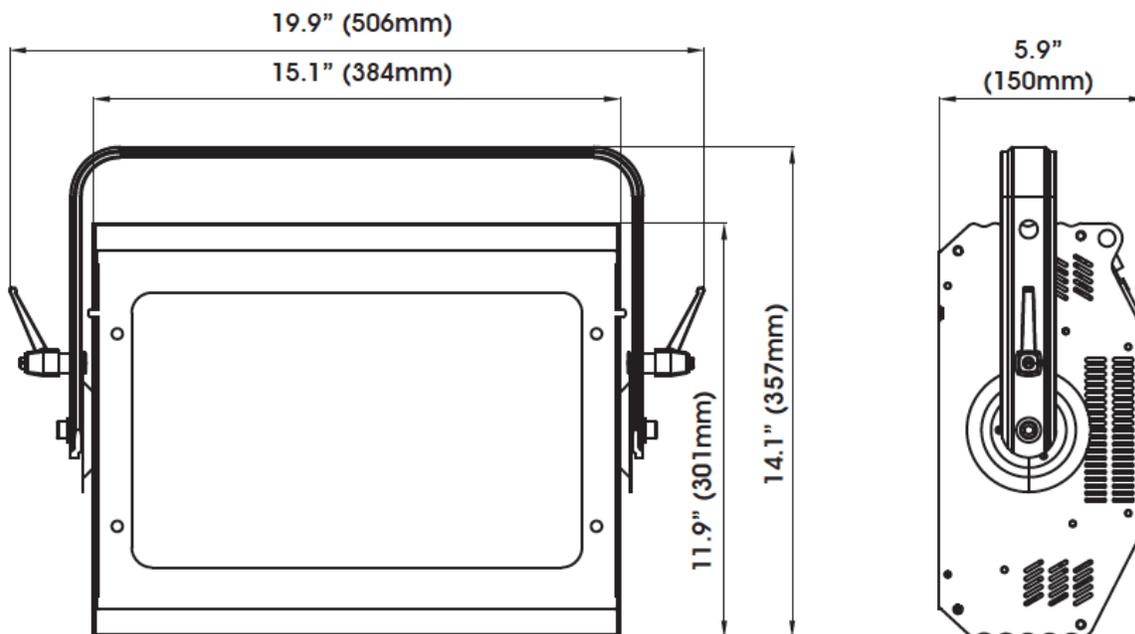
Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

### PHOTOMETRIC DATA



	1 m	3.3 ft	3 m	9.8 ft	5 m	16.4 ft
	lux	fc	lux	fc	lux	fc
RED	3833	356	280	26	112	10
GREEN	4427	411	607	56	245	23
BLUE	124	12	21	2	11	1
WHITE	7542	701	897	83	395	37
FULL ON	12,210	1,134	1,674	156	736	68

### 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

<b>ORDER CODE</b>	<b>ITEM</b>
TRIGGER CLAMP	Heavy Duty Wrap Around Hook Style Clamp
NEU088	3' (1m) powerCON TRUE! Power Link Cable
AC3PDMX5PRO	5 ft. (1.5m) 3pin PRO DMX Cable
AC5PDMX5PRO	5 ft. (1.5m) 5pin PRO DMX Cable
	Additional Cable Lengths Available

