



FUZE WASH 500™ user manual

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DOCUMENT VERSION



Due to additional product features and/or enhancements, an updated version of this document may be available online. Please scan the QR Code with your mobile device or visit www.elationlighting.com for the latest revision/update of this manual, before installation and/or programming.

Date	Document Version	SoftwareVersion ≥	DMX Channel Modes	Notes
01/06/2023	1.0	1.3.1	Standard, Extended, CMY, CMY Extended, RGB, RGB Extended	Initial Release
04/04/2023	1.1	N/C	No Change	Updated Accessory Installation, DMX Channel Functions and Values, Specifications, Dimensional Drawings, Optional Accessories
05/24/2023	1.2	N/C	No Change	Updated Fixture Transporting

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GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information. For professional use only.

UNPACKING

Every device 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 is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device 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 device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

BOX CONTENTS

Omega Brackets (x2) Locking Power Cable Snoot with screws

CUSTOMER SUPPORT

Contact ELATION Service for any product related service and support needs. Also visit forums.elationlighting.com with questions, comments or suggestions.

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST 323-582-3322 | Fax 323-832-9142 | support@elationlighting.com

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REPLACEMENT PARTS please visit parts.elationlighting.com



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 instructions and guidelines in this manual void the manufactures warranty and are not subject to any warranty claims and/or repairs.

LIMITED WARRANTY (USA ONLY)

- 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 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.

WARRANTY RETURNS

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.

SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. Elation Professional is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only gualified and/or certified personnel should perform installation of this fixture and only the original rigging parts (omega brackets) included with this fixture should be used for installation. Any modifications to the fixture and/ or the included mounting hardware will void the original manufactures warranty and increase the risk of damage and/or personal injury.



PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND **GUIDELINES IN THIS MANUAL VOID THE MANUFACTURE'S WARRANTY AND ARE** NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.



DO NOT PLUG FIXTURE INTO A DIMMER PACK! **NEVER OPEN THIS FIXTURE WHILE IN USE! UNPLUG POWER BEFORE SERVICING FIXTURE!** NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT! **KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!**



SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!

KEEP DRY

INDOOR / DRY LOCATIONS USE ONLY! DO NOT EXPOSE FIXTURE TO RAIN AND MOISTURE!

NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE! **RETINA INJURY RISK - MAY INDUCE BLINDNESS!**



MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 3.3 FEET (1 METERS) MAXIMUM TEMP OF EXTERNAL SURFACE 185° F (85°C) MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE 1.6 FEET (0.5 METER)

SAFETY GUIDELINES

DO NOT TOUCH the fixture housing during operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before serving.

DO NOT shake fixture, avoid brute force when installing and/or operating fixture.

DO NOT operate fixture if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the fixture securely with ease. NEVER force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of similar power rating.

DO NOT block any air ventilation slots.

All fan and air inlets must remain clean and never blocked.

Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.

Always disconnect fixture 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.

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.

Consistent operational breaks will ensure fixture will function properly for many years.

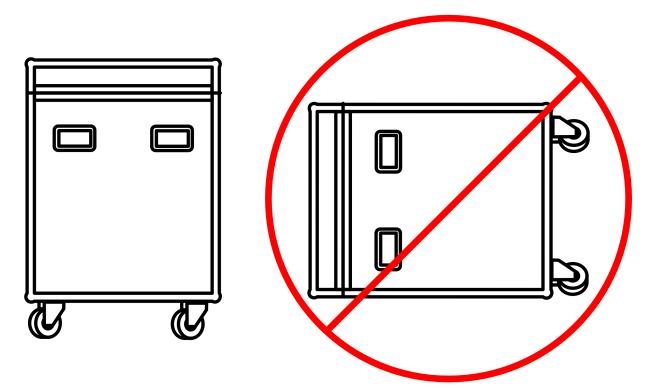
ONLY use the original packaging and materials to transport the fixture in for service.

FIXTURE TRANSPORT AND HANDLING

POTENTIAL INTERNAL DAMAGE FROM 'TIPPING' FIXTURE DURING TRANSPORT AND HANDLING

This fixture contains delicate optics. While this product was carefully designed to be roadworthy, it must be handled carefully during transportation.

DO NOT Tip the case over, and avoid all shocks and rough handling, especially "tipping", the practice of tipping the fixture-case over to its side and onto a hard surface. The case must ride on its wheels so that the fixture-head remains horizontal during transportation.



MAINTENANCE GUIDELINES



DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

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 an authorized Elation dealer.

Please refer to the following points during routine inspections:

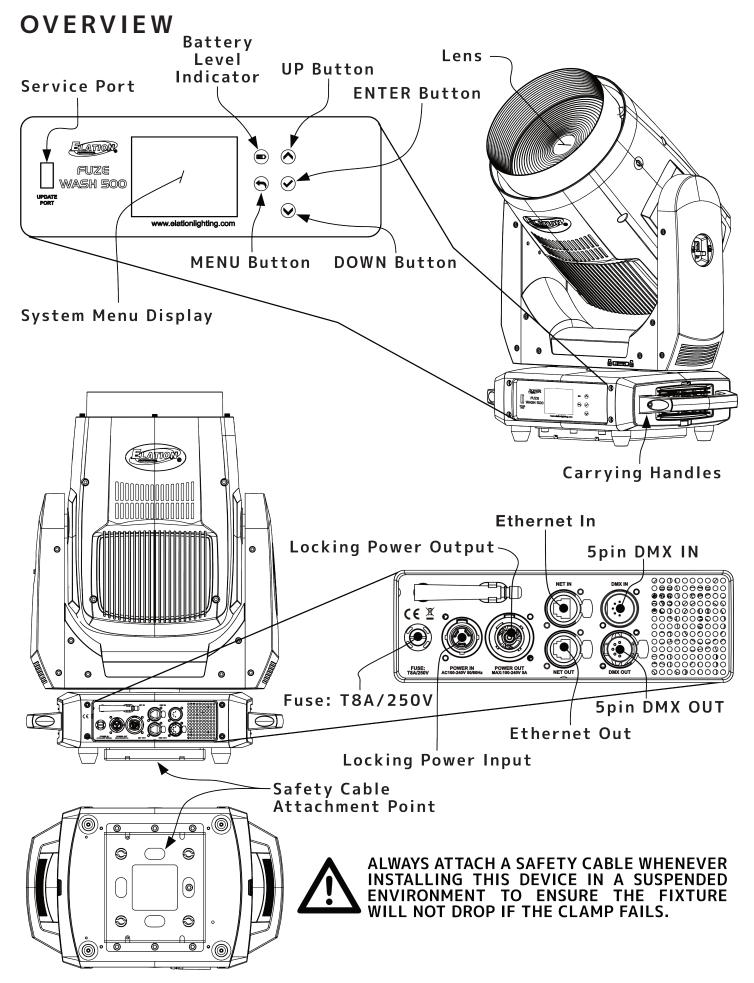
A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.

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.



FAN CONTROL AND LOW NOISE OPERATION

The Elation Fuze Wash 500 is a high-performance fixture suited for multiple applications. For noise critical environments such as Theater, Opera, or Orchestral Halls, it offers various fan operation modes which remove unwanted noise distractions for the audience and performers. Fan Modes can be changed remotely via the DMX control channel, allowing the fixture to offer high output or whisper-silent operation at a moment's notice. All Fan Modes smoothly transition over a brief period, preventing unwanted attraction to the fixture.

Mode	dbA at 1m LED off	dbA at 1m Dimmer 100%	
Fan Control - Auto (Default)	39	47	
Fan Control - High	40	55	
Fan Control - Low	37	42	
Low Noise – Studio	34	37	
Low Noise – Mute	31	31	

Auto – The default AUTO mode ensures optimal performance of the fixture. Fans only run at the speeds needed to keep the LED engine within a safe temperature range. They will turn off if possible, for example, when the fixture is dimmed to a low intensity. Fans sense the ambient and fixture temperature, and will, always, try to keep noise levels at a minimum. The fixture output will only reduce when the LED engine cannot be cooled down to its safe operating range due to high ambient temperature. **Note: Auto is the recommend mode for daily operation of the Elation Wash 500.**

High – This mode is only required in very high ambient temperatures when automatic fan speed adjustments are not desired. High Fan Speed will cool the fixture most efficiently. This mode will increase wear on the fans and should only be utilized in exceptional circumstances. Fans will always run, even if the fixture is dimmed. Fixture output is kept at 100% unless the LED engine temperature is too high, at which point the fixture will reduce power carefully to ensure safe operation.

Low – In this mode the fixture reduces fan speeds throughout for a lower noise profile of the fixture. This mode should be sufficient for most uses where lower noise is required. The fixture output is reduced to about 80%.

Additional Low Noise Modes

For very critical situations, the Fuze Wash 500 offers two additional low noise modes for silent operation. The fixture output will be reduced, but as the Fuze Wash 500 has such an extremely high luminous flux, it still offers outstanding performance. In low noise modes, all parameters of the Rembrandt operate quieter and with reduced speeds.

Studio – This mode reduces the fixture output to approximately 50%. Almost all fans inside the Rembrandt are turned off, and only run when necessary to keep the fixture at 50% LED power.

Mute – Running the fixture in MUTE mode reduces the fixture to about 25% output, and all fans are off. The fixture is totally silent.

COLORS

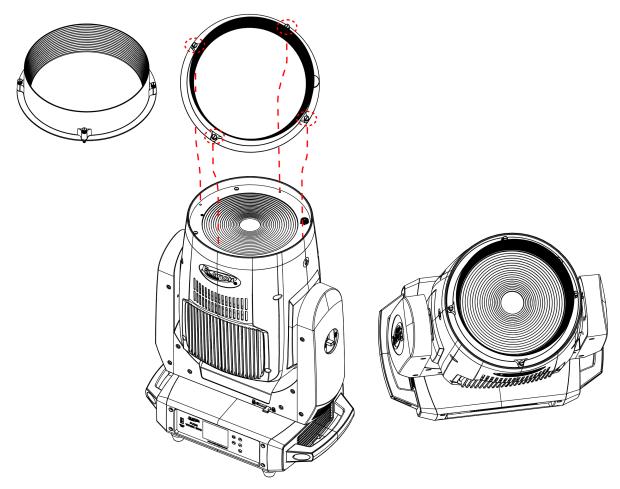
Colors	Color Temperature	Green Shift		
Cyan				
Magenta		Full Minus Green to Neutral		
Yellow				
Red	2400K – 8500K	Neutral White		
Green	2400K - 0300K			
Blue				
Mint		Neutral to Full Plus Green		
Amber				

	VIRTUAL GEL SWATCH BOOK COLORS										
Value	Filter Number	Name	Name Value Filter Name Valu		Value	Filter Number	Name				
1	7	Pale Yellow	21	157	Pink	41	68	Sky Blue			
2	103	Straw	22	36	Medium Pink	42	143	Pale Navy Blue			
3	151	Gold Tint	23	111	Dark Pink	43	131	Marine Blue			
4	100	Spring Yellow	24	128	Bright Pink	44	115	Peacock Blue			
5	10	Medium Yellow	25	148	Bright Rose	45	172	Lagoon Blue			
6	101	Yellow	26	332	Special Rose Pink	46	116	Medium Blue Green			
7	104	Deep Amber	27	793	Vanity Fair	47	90	Dark Yellow Green			
8	15	Deep Straw	28	113	Magenta	48	139	Primary Green			
9	179	Loving Amber	29	46	Dark Magenta	49	122	Fern Green			
10	21	Gold Amber	30	48	Rose Purple	50	89	Moss Green			
11	105	Orange	31	126	Mauve	51	124	Dark Green			
12	158	Deep Orange	32	49	Medium Purple	52	88	Lime Green			
13	22	Dark Amber	33	58	Lavender	53	138	Pale Green			
14	778	Millennium Gold	34	199	Palace Blue	54	203	Quarter CT Blue			
15	135	Deep Golden Amber	35	119	Dark Blue	55	202	Half CT Blue			
16	24	Scarlet	36	132	Medium Blue	56	201	FULL CT Blue			
17	106	Primary Red	37	120	Deep Blue	57	200	Double CT Blue			
18	26	Bright Red	38	165	Daylight Blue	58	206	Quarter CT Orange			
19	27	Medium Red	39	161	Slate Blue	59	205	Half CT Orange			
20	19	Fire	40	118	Light Blue	60	204	FULL CT Orange			

ACCESSORY INSTALLATION: SNOOT



NOTE: During normal operation, this unit is intended to work at all times with the Snoot installed.



To install either the Beam Shaper or Barndoor, it will be necessary to remove the Snoot.

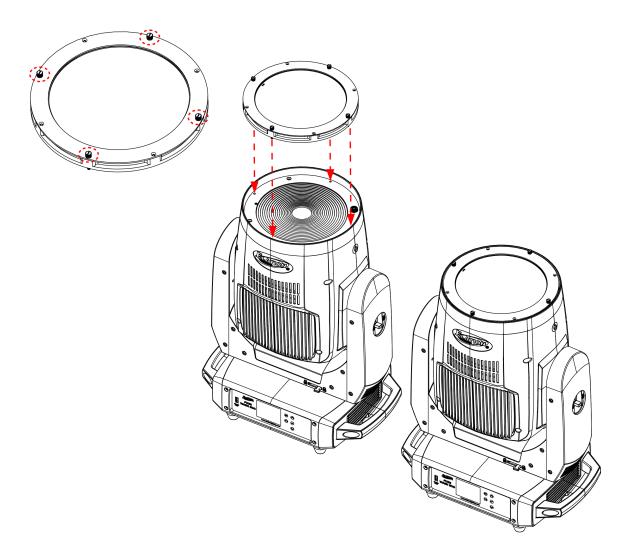
- 1. Place fixture on a stable flat surface and let cool for 15mins.
- 2. Using a hand screwdriver, remove 4 screws.
- 3. Carefully remove and set aside Snoot in safe location.

If either accessory is removed, it will be necessary to reinstall Snoot:

- 1. Place fixture on the stable flat surface and let cool for 15mins.
- 2. Align Snoot onto front lens, making sure that the indentation on the inner edge of the snoot is aligned with the gear on the front of the unit. This should also result in the 4 screw holes on the snoot being correctly aligned with the 4 screw holes on the fixture.
- 3. Carefully, using a hand screwdriver, insert/secure included 4 screws.
- 4. Check Snoot to confirm it is seated properly and all 4 screws are secure.



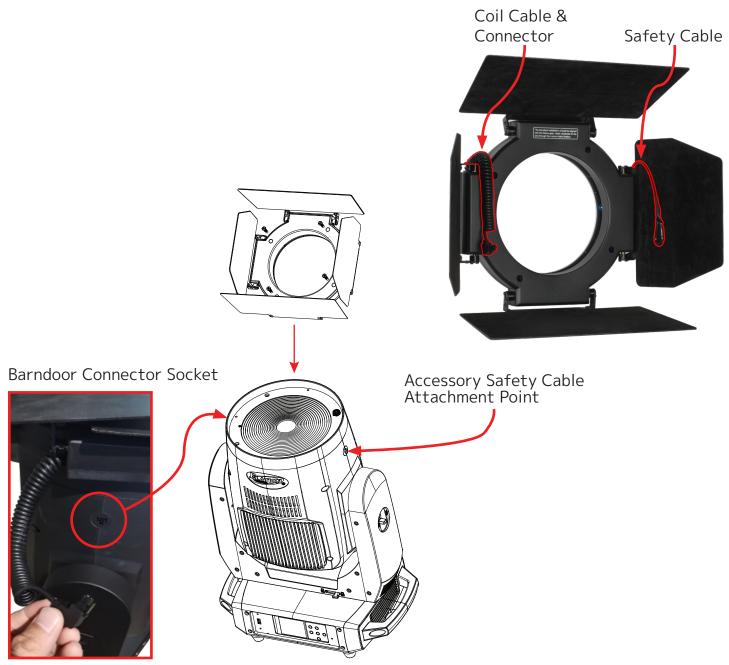
ACCESSORY INSTALLATION: BEAM SHAPER



- 1. Place fixture on the stable flat surface and let cool for 15mins.
- 2. Align Beam Shaper onto front lens so that the indentation on the inner edge of the beam shaper is aligned with the small gear at the front of the lens. This should also result in the 4 screw holes on the beam shaper being correctly aligned with the 4 screw holes on the fixture.
- 3. Carefully, using a hand screwdriver, insert/secure included 4 screws.
- 4. Check Beam Shaper to confirm it is seated properly and all 4 screws are secure.



ACCESSORY INSTALLATION: BARNDOORS



- 1. Place fixture on the stable flat surface and let cool for 15mins.
- 2. Before mounting Barndoors, orient the Barndoor assembly to match its Safety Cable/Coil Cable and Connector to the coresponding receptical and Safety Cable Attachment Point on the moving head. Make sure that the indentation on the inner edge of the barndoors is aligned with the gear on the front of the fixture. This should also result in the 4 screw holes on the barndoors being correctly aligned with the 4 screw holes on the fixture.
- 3. Carefully, using a hand screwdriver, insert/secure included 4 screws.
- 4. Check Snoot to confirm it is seated properly and all 4 screws are secure.

DO NOT OVER TIGHTEN SCREWS! DO NOT USE A POWER SCREWDRIVER!

ACCESSORY INSTALLATION: BARNDOORS

5. Insert the Power/Data Coil-Cable and Connector of the Bardnoor to the Barndoor Power/ Data Connector Socket located on the side of the Moving Head, and fasten the Barndoor Safety Cable to the Safety Cable Attachment Point.



6. To disconnect the Power/ Data Connector, depress the toggle-lock to disengage it, and with a firm grasp of the connector body, pull connector straight from socket. Follow steps in reverse order to remove the Barndoor.







FLAMMABLE MATERIAL WARNING

Keep fixture minimum 5.0 feet (1.5m) away from flammable materials and/or pyrotechnics.



ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.



USE CAUTION WHEN POWER LINKING OTHER MODEL FIXTURES AS THE POWER CONSUMPTION OF OTHER MODEL FIXTURES MAY EXCEED THE MAX POWER OUTPUT ON THIS FIXTURE. CHECK SILK SCREEN FOR MAX AMPS.

MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 1 FOOT (0.3 METERS)

MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE 1.6 FEET (0.5 METER)

MAXIMUM AMBIENT TEMPERATURE 113° F (45°C)



DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!

Fixture **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

Before rigging/mounting a single fixture or multiple fixtures to any metal truss/structure or placing the fixture(s) on any surface, a professional equipment installer **MUST** be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture(s), clamps, cables, and accessories.

Overhead rigging requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas were unauthorized personnel might reach the fixture by hand.

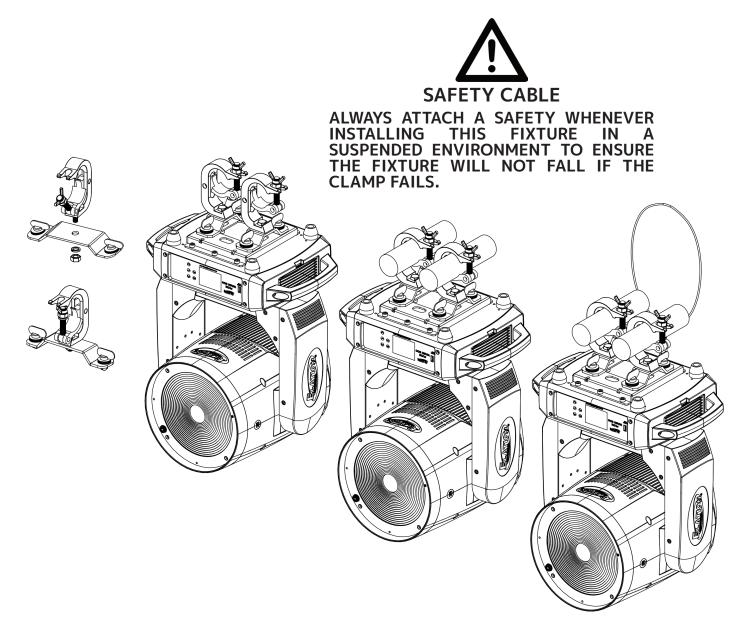
NEVER stand directly below the fixture(s) when rigging, removing or servicing.

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

Allow approximately 15 minutes for the fixture to cool down before serving.

OMEGA BRACKETS INSTALLATION

Insert the Omega Brackets into the matching holes on the bottom of the fixture. Secure the Omega Brackets to the fixture by turning each quick-lock fastener ¼ turn clockwise; making sure the fastener is completely locked. Omega Brackets can be installed into the fixture base as illustrated below.



CLAMP INSTALLATION

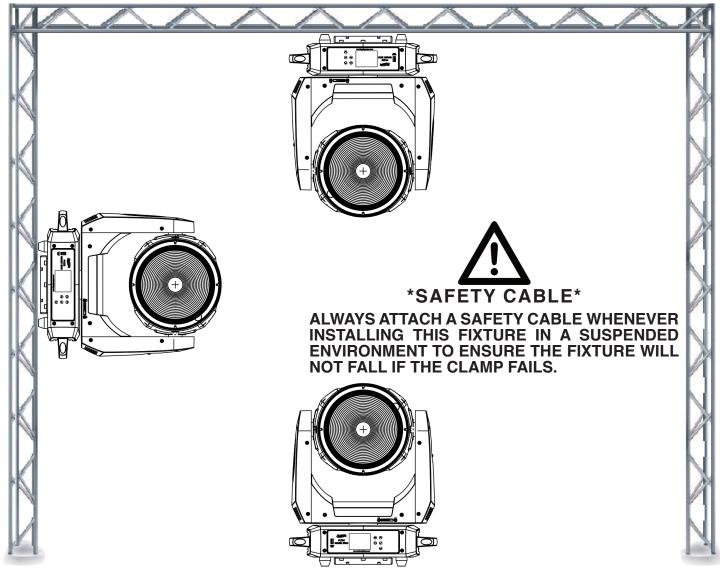
When mounting fixture to truss, be sure to secure an appropriately rated professional grade rigging clamp to the included **Omega Brackets** using an M10 screw fitted through the center hole of the **Omega Brackets**. The fixture provides built-in rigging points for a **SAFETY CABLE** (not included). Be sure to only use one of the designated rigging points for the safety cable and never secure a safety cable to a carrying handle.

RIGGING

Overhead rigging requires extensive experience, including among others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

FIXTURE INSTALLATION

The Elation Fuze Wash 500 is fully operational in three different mounting positions, hanging upside-down, mounted sideways on trussing, or set on a flat level surface. Be sure this fixture is kept at least 0.2m (7.9in.) away from any flammable materials (decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails. Never use the carrying handles for secondary attachment.



ART-NET | SACN CONNECTION

When connecting fixture to a network switch to control multiple devices, a **Gigabit Ethernet Switch** that supports **IGMP (Internet Group Management Protocol)** is required. Using a **Gigabit Ethernet Switch** that does not support **IGMP** can cause erratic behavior of all connected devices to the switch. Click link below for more information about IGMP.

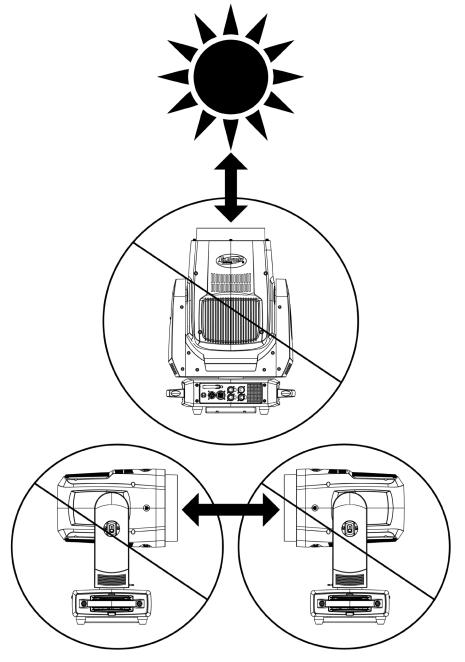
https://en.wikipedia.org/wiki/Internet_Group_Management_Protocol

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, lighting moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of ELATION lighting fixtures, can cause severe internal damage including burning to optics, dichroic color filters, glass and metal gobos, prisms, animation wheels, frost filters, iris, shutters, motors, belts, wiring, discharge lamps, and LEDs.

This issue is not specific only to ELATION lighting fixtures, it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can prevent any potential damage from occurring if followed. Contact ELATION Service for more details.

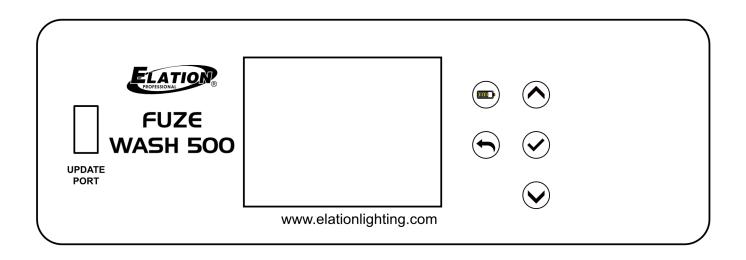
DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING MOVING HEAD FIXTURES, AND LASERS WHILE UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.



SYSTEM MENU

The fixture includes an easy to navigate system menu. The LCD touch panel display located on the front of the fixture (see image below), provides access to the main system menu and is where all necessary system adjustments are made to the fixture. During normal operation, pressing the **ENTER (Check Mark)** 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 **ESC (Back Arrow)** button.

To access the LCD Menu Control Display via the internal battery, press and hold the **BATTERY ICON** button for 3 seconds. The LCD Menu Control Display will shut **OFF** automatically about 1 minute from the last button press.





A USB FLASH DRIVE CAN BE USED TO UPDATE THE FIXTURE TO THE LATEST SOFTWARE. Using a USB Flash Drive loaded with the latest software, insert it into the USB Service Port, then navigate to PERSONALITY/SERVICE, enter the passcode (050), and select UPDATE SOFTWARE. A copy of the latest software can be obtained by contacting Elation Support.



AN ELATION C-LOADER II CAN ALSO BE USED TO UPDATE THE FIXTURE TO THE LATEST SOFTWARE. To order this device, please contact Elation Support for further details.

Detailed instructions can be found online at <u>www.elationlighting.com</u>.

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST 323-582-3322 | Fax 323-832-9142 | support@elationlighting.com

ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET +31 45 546 85 63 | Fax +31 45 546 85 96 | support@elationlighting.eu

SYSTEM MENU

MAIN MENU	OP	TIONS / VALUES (Defaul	t Settings in BOLD)			
	Dmx Address	001~AXXX				
		21Ch Standard				
		30CH Extended				
	DMX Channel Mode	26CH CMY Ex				
DMX Settings		20CH RGB				
		26CH RGB EX				
		Hold Last				
	No DMX Status	Fade to Black				
		Standalone				
	Primary	ON/OFF				
	Secondary	ON/OFF				
		Pan Invert	ON/ OFF			
		Tilt Invert	ON/OFF			
		Pan/Tilt Feedback	ON/OFF			
	Status	Pan Degree	630/ 540			
	Status	Feedback	ON/ OFF			
		Pan/TiltSpeed				
			Fast/Slow OFF, 01M~99M, 15M			
		Hibernation				
	Select Signal	DMX or Aria				
	5	Aria and DMX Out				
	Aria Settings	Aria Enable	ON/OFF			
		Set Aria Channel	0-14			
		Service PIN	Passcode : 50			
	Fixure ID	Universe	0			
		UnitIPAddr	2.000.000.XXX			
		Mask Addr	255.000.000.00			
	ProtocolSet	Artnet/sACN				
	KlingNet	OFF/ ON				
	Net Switch	OFF/ON				
	Fan Mode	Auto, High, Low, Studio, Mute				
	Zoom Speed	Standard, Fast				
	Dim Modes		hitectural, Theatre, Stage			
Personality	Dim Modes	Dim Speed	Os - 10s (Default = 0.1s)			
	Dim Curves	Linear, Square, Square In	verse, S-Curve			
	LED Refresh Rate		z), 2500Hz, 4000Hz, 5000Hz,			
	LLD Reffesti Rate	<u>6000Hz, 10KHz, 15KHz,</u>				
		Screen Saver Delay	01M~10M /OFF			
	Display	Touch Screen Lock	OFF/ON			
		Rotate Display 180°	YES/ NO			
	Temp Unit	Rotate Display 180° C/F	YES/NO			
	Temp Unit		Pan 000 - 255			
	Temp Unit					
	Temp Unit		Pan 000 - 255			
	Temp Unit		Pan 000 - 255 Tilt 000 - 255			
	Temp Unit		Pan 000 - 255 Tilt 000 - 255 Red 000 - 255			
	Temp Unit		Pan 000 - 255 Tilt 000 - 255 Red 000 - 255 Green 000 - 255 Blue 000 - 255			
	Temp Unit	C/F	Pan 000 - 255 Tilt 000 - 255 Red 000 - 255 Green 000 - 255 Blue 000 - 255 Mint 000 - 255			
			Pan 000 - 255 Tilt 000 - 255 Red 000 - 255 Green 000 - 255 Blue 000 - 255 Mint 000 - 255 Amber 000 - 255			
	Service	C/F	Pan 000 - 255 Tilt 000 - 255 Red 000 - 255 Green 000 - 255 Blue 000 - 255 Mint 000 - 255 Amber 000 - 255 CTO_Red 000-255			
		C/F	Pan 000 - 255 Tilt 000 - 255 Red 000 - 255 Green 000 - 255 Blue 000 - 255 Mint 000 - 255 Amber 000 - 255 CTO_Red 000-255 CTO_Green 000-255			
	Service	C/F	Pan 000 - 255 Tilt 000 - 255 Red 000 - 255 Green 000 - 255 Blue 000 - 255 Mint 000 - 255 Amber 000 - 255 CTO_Red 000-255 CTO_Green 000-255 CTO_Blue 000-255			
	Service	C/F	Pan 000 - 255 Tilt 000 - 255 Red 000 - 255 Green 000 - 255 Blue 000 - 255 Mint 000 - 255 Amber 000 - 255 CTO_Red 000-255 CTO_Green 000-255 CTO_Blue 000-255 CTO_Mint 000-255			
	Service	C/F	Pan 000 - 255 Tilt 000 - 255 Red 000 - 255 Green 000 - 255 Blue 000 - 255 Mint 000 - 255 Amber 000 - 255 CTO_Red 000-255 CTO_Green 000-255 CTO_Blue 000-255 CTO_Mint 000-255 CTO_Amber 000-255			
	Service	C/F	Pan 000 - 255 Tilt 000 - 255 Red 000 - 255 Green 000 - 255 Blue 000 - 255 Mint 000 - 255 Amber 000 - 255 CTO_Red 000-255 CTO_Blue 000-255 CTO_Blue 000-255 CTO_Mint 000-255 CTO_Amber 000-255 Zoom 000-255			
	Service	C/F Calibration	Pan 000 - 255 Tilt 000 - 255 Red 000 - 255 Green 000 - 255 Blue 000 - 255 Mint 000 - 255 Amber 000 - 255 CTO_Red 000-255 CTO_Green 000-255 CTO_Blue 000-255 CTO_Amber 000-255 CTO_Amber 000-255 Zoom 000-255 Beam Shaper 000-255			
	Service	C/F	Pan 000 - 255 Tilt 000 - 255 Red 000 - 255 Green 000 - 255 Blue 000 - 255 Mint 000 - 255 Amber 000 - 255 CTO_Red 000-255 CTO_Green 000-255 CTO_Blue 000-255 CTO_Mint 000-255 CTO_Amber 000-255 Zoom 000-255			

SYSTEM MENU

NO					
/ xxx C					
/ xxx C					
/ xxx C					
NO					
/ xxx C					
ē					
/ NO					
110					
4U:V1.X.X 5U:V1.X.X					

COLOR LED PROGRAMMING GUIDELINES

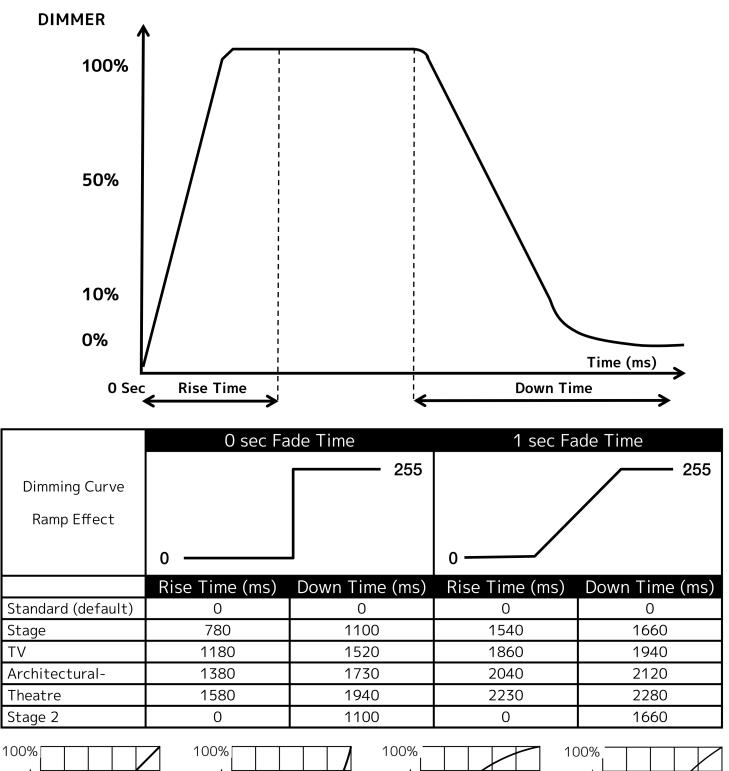
The fixture utilizes an advanced additive LED light engine that contains Red, Green, Blue, Mint and Amber LED which when combined, provides a brilliant high CRI White. Using a 5-color LED engine allows the fixture to have a wide color gamut which offers robust saturated colors as well as a wide range of pastel and theatrical colors.

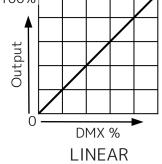
Programming a 5-color LED engine is a bit more time consuming than the more common 3-color CMY (Cyan, Yellow, Magenta) or RGB (Red, Blue Green) systems. To help ensure optimal performance of the fixture, it is highly suggested to try out the multiple DMX control modes to understand specifically how they work with color before programming a full show. A couple of suggested modes are listed below.

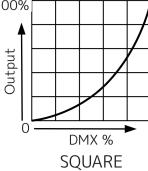
The **CMY Extended** DMX control mode provides a "natural" color mix which is compatible with color pickers of most lighting consoles and includes 16-bit color control.

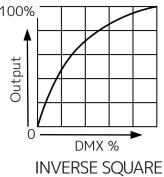
The **Extended RGBMA** (Red, Green, Blue, Mint, Amber) DMX control mode provides slightly higher precision color mixes but may be require additional time to find the right values for all 5-color LEDs to achieve a specific desired color.

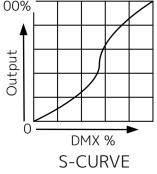
DIMMER MODE











DMX TRAITS: CHANNEL FUNCTIONS & VALUES

		MODE/C	HANNEL				thout notice		
Standard	Extended	СМҮ	CMY Extended	RGB	RGB Extended	VALUE	FUNCTION	DEFAULT	SNAF
1	1	1	1	1	1		PAN Movement 8bit:	127	
						0-255	Pan Movement Pan Fine 16bit:		
2	2	2	2	2	2	0-255	Fine control of Pan movement	127	
3	3	3	3	3	3		TILT Movement 8bit:	127	
			+		+	0-255	Tilt Movement Tilt Fine 16bit:		
4	4	4	4	4	4	0-255	Fine control of Tilt movement	127	
		5	5				Cyan:	0	
		-				0-255	Cyan (0-100% Cyan) Cyan Fine:		
			6			0-255	Cyan Fine	0	
		6	7				Magenta:	0	
		0	, ,			0-255	Magenta (0-100% Magenta)		
			8			0-255	Magenta Fine: Magenta Fine	0	
		7	9		1		Yellow:	0	
		1	9			0-255	Yellow (0-100% Yellow)	0	
			10			0-255	Yellow Fine: Yellow Fine	0	
5						0-233	Red:	255	
5	5			5	5	0-255	Red (0-100% Red)	255	
	6				6	0-255	Red Fine: Red Fine	255	
						0-255	Green:		
6	7			6	7	0-255	Green (0-100% Green)	255	
	8				8		Green Fine:	255	
						0-255	Green Fine Blue:		
7	9			7	9	0-255	Blue (0-100% Blue)	255	
	10				10		Blue Fine:	255	
						0-255	Blue Fine Mint:		
8	11					0-255	Mint (0-100% Mint)	255	
	12						Mint Fine:	255	
						0-255	Mint Fine Amber:		
9	13					0-255	Amber (0-100% Amber)	255	
	14						Amber Fine:	255	
						0-255	Amber Fine CTO:		
						0-23	Open		
10	15	8	11	8	11	24 -85	CTO 2400K-8500K	0	
						86-255	(see separate sheet) 8500K		
			1 1				Color Wheel:		
						0	Open		
						1-60	Virtual Swatch Book (see separate sheet)		
						61-179	Open		
						400.204	Color Scroll		
		-		-		202 202	Clockwise,fast→slow Stop		
11	16	9	12	9	12	208_220	Counter-clockwise,slow→ fast	0	
						200-229	fast		
						230-234	Open Random Slots		
						235-239	Fast		
						240-244	Medium		
						<u>245-249</u> 250-255	SIOW Open		
	I I				1	230 233			

		MODE/C	HANNEL				FUNCTION		Chia				
Standard	Extended	CMY	CMY Extended	RGB	RGB Extended	VALUE	FUNCTION	DEFAULT	SNA				
							Green Shift:						
						0	Idle						
	17		13		13	1-127	Full Minus Green to Neutral	0					
						128	Neutral White						
			+ +			129-255	Neutral to Full Plus Green						
	18		14		14	0	CTC Crossfade	0					
	10				14	255	Color Mix	. 0					
			+ +				Zoom:						
12	19	10	15	10	15	0-255	Zoom adjustment Narrow - Wide	127					
			1 1				Shutter, strobe:						
						0-31	Shutter closed]					
							No function (shutter open)						
							Strobe effect slow to fast						
13	20	11	16	11	16		No function (shutter open)	50	Х				
10	20					128-159	Pulse-effect in sequences						
						160-191	No function (shutter open)						
						192-223	Random strobe effect slow to fast						
						224 255	No function (shutter open)	{					
			+ +			224-255	Dimmer:						
14	21	12	17	12	17	0_255	Intensity 0 to 100%	0					
			+ +			0-233	Dimmer Fine:						
15	22	13	18	13	18	0-255	Dimmer fine	0					
			1 1		1	0 2 3 3	Dim Modes						
						0-20	Standard						
							Stage						
							TV	1					
							Architectural						
						81-100	Theatre						
						101-120	Stage 2	1					
							Dimmer Delay Time]					
							Os]					
						122	0.1s						
							0.2s						
							0.3s						
						125	0.4s						
							0.5s	4					
	23		19		19	127	0.6s	0	Х				
						128	0.7s						
						129	0.8s	4					
						130 131	0.9s	-					
						132	1.0s 1.5s	4					
						132	2.0s	{					
						134	3.0s	4					
						135	4.0s	4					
						136	5.0s	1					
						137	6.0s	1					
						138	7.0s	1					
							8.0s	1					
						140	9.0s	1					
						141	10s	1					
						142-255		1					

SNA	DEFAULT	FUNCTION	RGB VALUE		HANNEL	_ I	e			
	DEIMOLI			Extended	RGB	Extended	CMY	Extended	Standard	
	0	Barndoor Top Open to Close	0-255	21	14	20	14	24	16	
	0	Barndoor Bottom		22	15	21	15	25	17	
	0	Open to Close	0-255	22	15	21	15	25	17	
	0	Barndoor Left Open to Close	0-255	23	16	22	16	26	18	
	0	Barndoor Right		24	17	23	17	27	19	
	<u> </u>	Open to Close Barndoor / Shaper Index:	0-255	24	17	23	17	21	12	
		0-360 Index	0-180							
	90	Rotate CCW Fast to Slow	181-217	25	18	24	18	28	20	
		Stop	218							
		Rotate CW Slow to Fast Pan / Tilt and Color Speed:	219-255							
		Max to min speed	0-225							
Х	0	Blackout by movement	226-235	26	19	25		29		
		Blackout by all wheel changing	236-245							
		INO TUNCTION	246-255							
		Control:	0.20							
		ldle Small Barndoor First	0-29 30-34							
		Big Barndoor First								
		Low Noise - Mute	40-44							
		Low Noise - Studio								
		Fan Control - Low Fan Control - High	50-59 60-69							
	1	Fan Control - Auto (Default)	70-79							
		All motor reset								
		Pan / Tilt reset Idle	85-87 88-93							
		Zoom reset	94-96							
		Accessory Reset	97-99							
		Refresh Rate (Hz) 900	<u>100-168</u> 100							
		910	100							
		920 930	102							
		930 940	103 104							
Х	0	950	105	27	20	26	19	30	21	
		960	106							
		970 980	<u> 107</u> 108							
	i	990	109							
		1000	110							
		1010 1020	<u> 111</u> 112							
		1030	113							
		1040 1050	<u> 114 </u> 115							
		1060	115							
		1070	117							
		1080	<u> 118</u> 119							
		1090 1100	119							
	1	1110	121							
		1120	122							
		1130 1140	123 124							
	1	1150	125							

		MODE/C	HANNEL						
Standard	Extended	СМҮ	CMY Extended	RGB	RGB Extended	VALUE	FUNCTION	DEFAULT	SNA
						126	1160		
						127 128	1170 1180	-	
						120	1190	-	
						130	1200		
						131	1210		
						132	1220		
						133	1230		
						<u>134</u> 135	1240 1250	-	
						136	1260	-	
						137	1270	-	
						138	1280		
						139	1290		
						140	1300	_	
						141	1310	_	
						142 143	1320 1330	-	
						143	1340	-	
						145	1350		
						146	1360		
						147	1370		
						148	1380		
						149	1390	_	
						150	1400	-	
						151 152	1410 1420	-	
21	30	19	26	20	27	152	1430	0	Х
						154	1440	-	
						155	1450	-	
						156	1460		
						157	1470		
						158	1480	_	
						159	1490	_	
						<u> 160</u> 161	1500 2500	-	
						162	4000	-	
						163	5000	-	
							6000		
						165	10000		
							15000	_	
						167 168	20000 25000	_	
							Pan Tilt Speed Slow	_	
							Pan Tilt Speed Fast (default	-)	
						173-174	Zoom Speed Slow		
						175-176	Zoom Speed Fast (default)		
						177-200	Idle		
							Dimmer Curve Linear	_	
							Dimmer Curve Square		
							Dimmer Curve Inverse Squar	e	
						231-240	Dimmer Curve S-Curve (default)		
			1			241-255		-1	

COLOR TEMPERATURE

VALUE	COLOR TEMPERATURE (K)	VALUE	COLOR TEMPERATURE (K)
24	2400	55	5500
25	2500	56	5600
26	2600	57	5700
27	2700	58	5800
28	2800	59	5900
29	2900	60	6000
30	3000	61	6100
31	3100	62	6200
32	3200	63	6300
33	3300	64	6400
34	3400	65	6500
35	3500	66	6600
36	3600	67	6700
37	3700	68	6800
38	3800	69	6900
39	3900	70	7000
40	4000	71	7100
41	4100	72	7200
42	4200	73	7300
43	4300	74	7400
44	4400	75	7500
45	4500	76	7600
46	4600	77	7700
47	4700	78	7800
48	4800	79	7900
49	4900	80	8000
50	5000	81	8100
51	5100	82	8200
52	5200	83	8300
53	5300	84	8400
54	5400	85	8500

VIRTUAL GEL SWATCH BOOK COLORS

Value	Filter Number	Name	Value	Filter Number	Name	Value	Filter Number	Name
1	7	Pale Yellow	21	157	Pink	41	68	Sky Blue
2	103	Straw	22	36	Medium Pink	42	143	Pale Navy Blue
3	151	Gold Tint	23	111	Dark Pink	43	131	Marine Blue
4	100	Spring Yellow	24	128	Bright Pink	44	115	Peacock Blue
5	10	Medium Yellow	25	148	Bright Rose	45	172	Lagoon Blue
6	101	Yellow	26	332	Special Rose Pink	46	116	Medium Blue Green
7	104	Deep Amber	27	793	Vanity Fair	47	90	Dark Yellow Green
8	15	Deep Straw	28	113	Magenta	48	139	Primary Green
9	179	Loving Amber	29	46	Dark Magenta	49	122	Fern Green
10	21	Gold Amber	30	48	Rose Purple	50	89	Moss Green
11	105	Orange	31	126	Mauve	51	124	Dark Green
12	158	Deep Orange	32	49	Medium Purple	52	88	Lime Green
13	22	Dark Amber	33	58	Lavender	53	138	Pale Green
14	778	Millennium Gold	34	199	Palace Blue	54	203	Quarter CT Blue
15	135	Deep Golden Amber	35	119	Dark Blue	55	202	Half CT Blue
16	24	Scarlet	36	132	Medium Blue	56	201	FULL CT Blue
17	106	Primary Red	37	120	Deep Blue	57	200	Double CT Blue
18	26	Bright Red	38	165	Daylight Blue	58	206	Quarter CT Orange
19	27	Medium Red	39	161	Slate Blue	59	205	Half CT Orange
20	19	Fire	40	118	Light Blue	60	204	FULL CT Orange

REMOTE DEVICE MANAGEMENT (RDM)

NOTE: In order for RDM to work properly, RDM enabled equipment must be used throughout the entire system, including DMX data splitters and wireless systems.

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, allowing the DMX systems of the device to be managed, modified, and monitored remotely (hence, remote device management). This protocol is ideal for fixtures installed in locations that are not easily accessible.

With RDM, the DMX512 system becomes bi-directional, allowing a compatible RDM enabled controller to send out a signal to devices on the wire, as well as allowing the fixture to respond (known as a GET command). The controller can then use it's SET command to modify settings that would typically have to be changed or viewed directly via the unit's display screen, including the DMX Address, DMX Channel Mode, and Temperature Sensors.

FIXTURE RDM INFORMATION:

RDM Code	Device ID	Device Model ID	Personality ID
0×22A6	0013 0000-FFFF	0013	21Ch Standard(1) 30CH Extended(2) 19CH CMY(3) 24CH CMY Ex(4) 20CH RGB(5) 26CH RGB EX(6)

Please be aware that not all RDM devices support all RDM features, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

The following parameters are accessible in RDM on this device:

[0x0200] Sensor Definition	[Ox0602] Pan Tilt Swap
[0x0201] Sensor Value	[0x0500] Display Invert
[0x0080] Device Model Description	[0x0501] Display Level
[0x0081] Manufacturer Label	[OxO6O3] Realtime Clock
[0x0082] Device Label	[Ox1010] Power State
[OxOOEO] DMX Personality	[Ox1031] Preset Playback
[Ox00E1] DMX Personality Description	[Ox0122] Default Slot Value
[0x0400] Device Hours	[OxOOBO] Language
[0x0015] Comms Status	[OxOOAO] Language Capabilities
[0x0031] Status ID Description	[OxOOC2] Boot Software Version Label
[0x0032] Clear Status ID	[OxOOC1] Boot Software Version ID
[OxO4O2] Lamp Strikes	[Ox0070] Product Detail ID List
[0x0404] Lamp Mode	[0x0030] Status Messages
[0x0405] Device Power Cycles	[Ox1001] Reset Device
[Ox0600] Pan Invert	[0x0014] Undefined PID [0x0014,(20)]
[0x0601] Tilt Invert	

ERROR CODES

Error Codes subject to change without notice				
ERROR CODES	DESCRIPTION			
PAN	Movement is not located in the default position after the reset.			
Tilt	These messages will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a motor failure (defective			
Zoom	nairunctions (sensor failed, or magnet is missing) or there is a motor failure (defective notor or a defective motor IC drive on the main PCB). This error may also be displayed if the head/yoke was blocked during a reset function.			
Beam Shaper	Movement is not located in the default position after the reset. These messages will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a motor failure (defective motor or a defective motor IC drive on the main PCB).			
Barndoor				
LED Temp				
LED FAN	These messages will appear if there is a temperature and/or fan malfunction.			
BASE FAN				

SPECIFICATIONS

SOURCE

500W 6,500K RGBMA (Red, Green, Blue, Mint, Amber) LED Engine 30,000 Hour Average LED Life*

*Test lab conditions. May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.

PHOTOMETRIC DATA

17,000 Total Lumen Fixture Output CRI 92 Zoom Range 10° - 45°

EFFECTS

Motorized Zoom Optional Indexable Ovalizer Lens Optional Motorized Barn Doors Variable 16-bit Dimming Curve Modes High Speed Electronic Shutter and Strobe Pan 540°/630° Tilt 228°/180°

COLOR

RGBMA Color Array CMY and RGB Emulation Virtual Color Correction 2400K - 8500K Green/Magenta Shift Virtual Gel Swatch Book

CONTROL / CONNECTIONS

6 DMX Channel Modes (RGBMA 21/ 30) (CMY 17 / 24) (RGB 20 / 26) 16-bit Pan, Tilt, and Dimming Control DMX Adjustable LED Frequency DMX, RDM, E-FLY Wireless, Art-Net, sACN Protocol Support 4 Button Touch Control Panel Full Color 180° Reversible LCD Menu Display Locking 5pin XLR Connector In/Out Locking RJ45 Ethernet Connector In/Out Locking IP65 Power Connector In/Out USB Connection (Firmware Updates)

SIZE / WEIGHT

Length: 16.0" (408mm) Width: 10.1" (256mm) Vertical Height: 23.2" (590mm) Center Spacing: 23.6" (600mm) Weight: 40.8 lbs. (18.5kg)

ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz Max Power Consumption 609W 14°F to 113°F (-10°C to 45°C) BTU/hr (+/- 10%) 2151.71

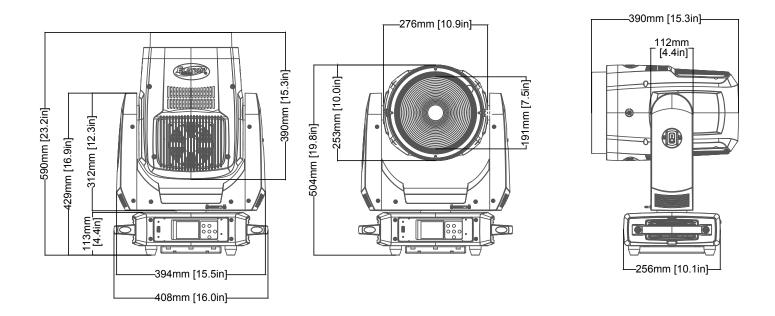
APPROVALS / RATINGS

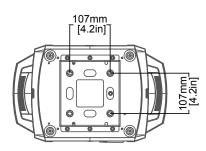
CE | cETLus | IP20

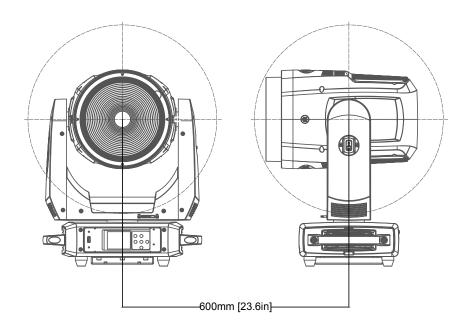


DIMENSIONS

*Drawings not to scale. Specifications and improvements in the design of this unit and this manual are subject to change without notice.

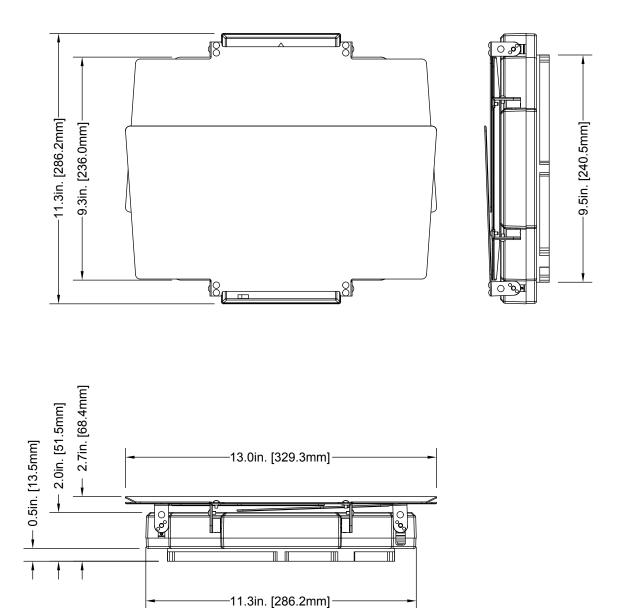






DIMENSIONS

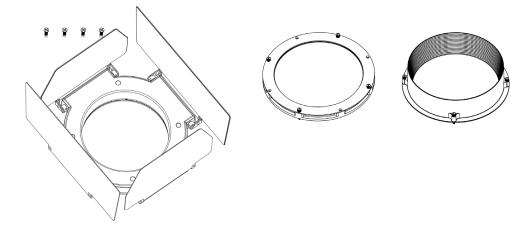
*Drawings not to scale. Specifications and improvements in the design of this unit and this manual are subject to change without notice.



OPTIONAL ACCESSORIES:

ORDER CODE	ITEM
FUZ567WH (USA) 1521000412 (EU)	Elation Fuze Wash 500 WH
TRIGGER CLAMP	Heavy Duty Wrap Around Hook Style Clamp
SIP126	5 ft. (1.5m) IP65 Twist Lock Power Link Cable
AC5PDMX5PRO	5 ft. (1.5m) 5pin PRO DMX Cable
	Additional Cable Lengths Available
8030500064	Beam Shaper
8050000652	Motorized Barn Doors

BARNDOORS, BEAM SHAPER, & SNOOT: Barn Door (optional) + Beam Shaper (optional) + Snoot (included)



FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be deter- mined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

