ELATION
PROFESSIONAL

PROTEUS™
MAXIMUS
MAXIMUS WMG

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	Software Version ≥	DMX Channel Modes	Notes
06/12/19	1.0	1.4.1	37 / 61	Initial release.
10/09/19	1.1	N/C	NO CHANGE	Included RJ45 data cable note added.
08/14/20	1.2	N/C	NO CHANGE	Updated thermal
08/21/20	1.4	N/C	NO CHANGE	Updated framing index
10/02/20	1.6	N/C	NO CHANGE	Updated specs
01/27/21	1.8	1.4.4	NO CHANGE	Updated primary/secondary modes, Fixture Installation, DMX Channel Functions, Specifications
03/01/21	2.0	N/C	NO CHANGE	Added Transportation & Handling Precaution
05/21/21	2.2	N/C	NO CHANGE	Updated Maintenance.
07/14/21	2.4	N/C	NO CHANGE	Corrected DMX Traits.

CONTENTS

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.

IP65 RATED
An IP rated lighting fixture is one, which is commonly installed in outdoor environments and has been designed with an enclosure that effectively protects the ingress (entry) of external foreign objects such as dust and water. The **International Protection (IP)** rating system is commonly expressed as **"IP"** (Ingress Protection) followed by two numbers (i.e. IP65) where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. An **IP65** rated lighting fixture is one, which has been designed and tested to protect against the ingress of dust **(6)** and low-pressure water jets from any direction **(5)**.

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)
IP65 Rated 5pin DMX Cable
IP65 Rated RJ45 Cable (Fixture to Fixture Interconnect Use Only!)
IP65 Power Cable

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

L I M I T E D   W A R R A N T Y   (U S A   O N L Y)

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.

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.

S A F E T Y   G U I D E L I N E S

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 qualified 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 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.

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!

NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!

ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT.

MINIMUM DISTANCE TO OBJECTS/SURFACES
MUST BE 10 FEET (3 METERS)
MAXIMUM TEMP OF EXTERNAL SURFACE 212° F (100°C)
MINIMUM DISTANCE OF INFLAMMABLE MATERIALS
FROM THE SURFACE 1.6 FEET (0.5 METER)

SAFETY GUIDELINES

WARNING

TWO PERSON LIFT REQUIRED

117 lbs. (53kg)

⚠ **CAUTION**

HIGH INTENSITY ULTRAVIOLET LIGHT

AVOID DIRECT EYE & SKIN EXPOSURE.
WEAR PROPER EYE & SKIN PROTECTION.
SEE MANUAL FOR SAFETY INSTRUCTIONS.

RISK GROUP 3 - RISK OF EXPOSURE TO ULTRAVIOLET UV RADIATION! FIXTURE EMITS HIGH INTENSITY WAVELENGTH OF ULTRAVIOLET UV LIGHT FROM THE UV COLOR FILTER. WEAR PROPER EYE AND SKIN PROTECTION. AVOID PROLONGED PERIODS OF EXPOSURE TO UV COLOR FILTER. AVOID WEARING WHITE COLOR CLOTHING AND/OR USING UV PAINTS ON SKIN. AVOID DIRECT EYE AND/OR SKIN EXPOSURE AT DISTANCES LESS THAN 11 feet (3.3m). DO NOT OPERATE FIXTURE WITH DAMAGED/MISSING EXTERNAL COVERS. DO NOT LOOK DIRECTLY INTO THE UV LIGHT AND/OR VIEW UV LIGHT DIRECTLY WITH OPTICAL INSTRUMENTS THAT MAY CONCENTRATE THE LIGHT/RADIATION OUTPUT. INDIVIDUALS SUFFERING FROM A RANGE OF EYE CONDITIONS, SUNLIGHT EXPOSURE DISORDERS, OR INDIVIDUALS USING PHOTOSENSITIVE MEDICATION, MAY RECEIVE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET UV LIGHT EMITTED FROM THE UV LED.

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

The device is a large format fixture that contains delicate optics and glass filters. While this product was carefully designed to be roadworthy, it must be handled carefully during transportation. Before transport, ensure that the color flags inside the unit are placed in an OPEN position. For superior impact protection, the fixture is shipped in a custom fitted high-density Foam Inlay (FIL). This FIL must be used inside the road-cases for 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!**

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 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.

FIXTURE DISASSEMBLY

The following points should be observed after performing any maintenance procedure that requires disassembly of the unit:

- After the unit has been reassembled, open the valve, and allow the light to run for approximately 2 hours in order to dry out any moisture that has been trapped inside the fixture. The process should continue until indicated humidity drops below 15% for the head and 30% for the base.
- Once this has been achieved, the light can be switched off, but the unit should remain connected to power so that the cooling fan can cool down the unit. Please note that allowing cool down time should ALWAYS be done after lamp operation.
- Some units may require partial disassembly in order to gain access to the valve. Please contact Elation service for information regarding the location and access procedure for the valve on your specific unit model.

F I X T U R E   O V E R V I E W
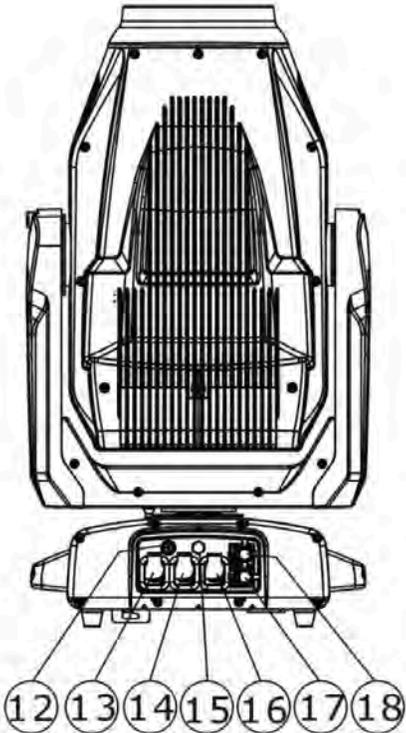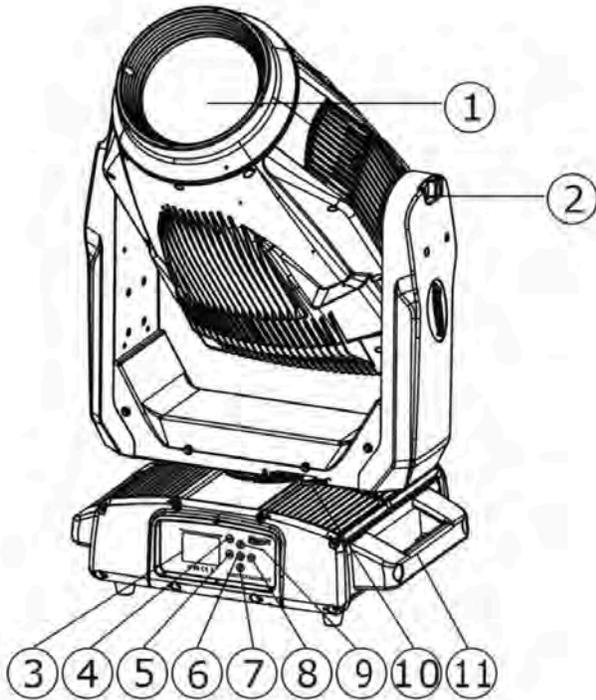
1. **Lens**

2. **Tilt Lock**

3. **System Menu LCD Display**

4. **MODE/ESC Button**

5. **LEFT Button**

6. **ENTER Button**

7. **DOWN Button**

8. **RIGHT Button**

9. **UP Button**

10. **Pan Lock**

11. **Carrying Handle(s)**

12. **Fuse**

13. **Power Input**

14. **RJ45 Input**

15. **Valve**

16. **RJ45 Output**

17. **5pin DMX Input**

18. **5pin DMX Output**

COLORS, GOBOS, ANIMATION

COLOR FLAGS
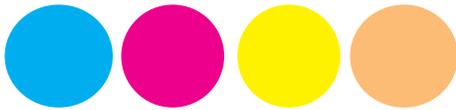
CYAN MAGENTA YELLOW C.T.O.

COLOR WHEEL

RED GREEN U V HIGH CRI ORANGE BLUE

INTERCHANGEABLE-ROTATING GLASS GOBO WHEEL 1

INTERCHANGEABLE-STATIC GLASS GOBO WHEEL 2

ANIMATION WHEEL

C U S T O M   G O B O S

Ø 25.0 mm
GOBO MAX I.D.

Ø 1.1 mm ± 0.1mm
THICKNESS

Ø 29.8 mm
GOBO MAX O.D.

Ø 30.0 mm
GOBO HOLDER O.D.
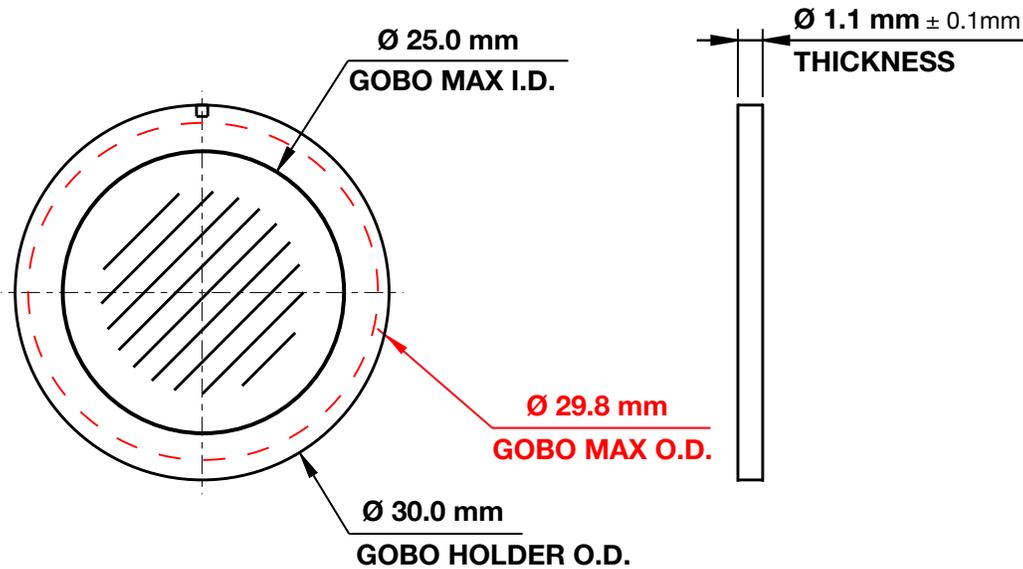
ROTATING & STATIC GLASS GOBOS - WHEEL 1 + 2	
Gobo O.D. (Max. Outer Diameter)	φ29.8mm
Gobo I.D. (Max. Image Diameter)	φ25.0mm
Gobo Holder Diameter	φ30.0mm
Gobo Thickness	1.1mm±0.1mm
Gobo Material	High Temp Glass (Minimum 600C°)

* * * IMPORTANT NOTICE REGARDING CUSTOM GOBOS * * *

Due to the high temperature optical system, special material as listed above is required for custom gobos. Due to varying manufacturing processes and tolerances, it is highly recommended to provide a gobo sample and holder from the fixture to the custom gobo vendor for accurate sizing. Extended testing of custom gobo designs is highly recommended prior to use. Contact ELATION SERVICE for further information.

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GOBO INSTALLATION

Tilt Lock

Pan Lock

1. Before removing covers, place fixture on a stable flat surface in an **INDOOR DUST FREE** location. Ensure moving head is locked into a neutral upright position with both PAN and TILT locks engaged.

2. Remove (2x) Phillips-head screws on the bottom cover to expose the safety cables for the front and back covers. With bottom cover removed, remove the (10x per cover) Phillips-head screws on the front and back covers. One at a time, gently lift the covers and unclip the safety cables to remove them completely from the fixture.

GOBO INSTALLATION
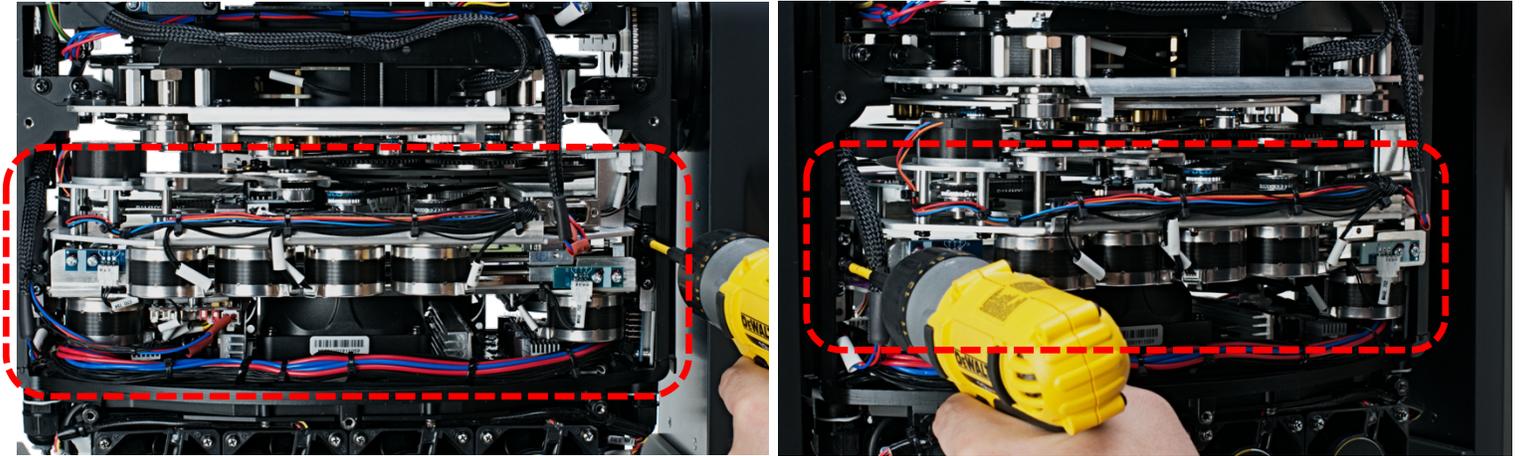
3. The GOBO Wheel module is secured to the fixture frame rail with (2x) sliding slotted brackets. To remove the module, loosen the (4x) Philips-head screws holding the brackets just enough (do not remove them) to allow the slotted brackets to slide down.
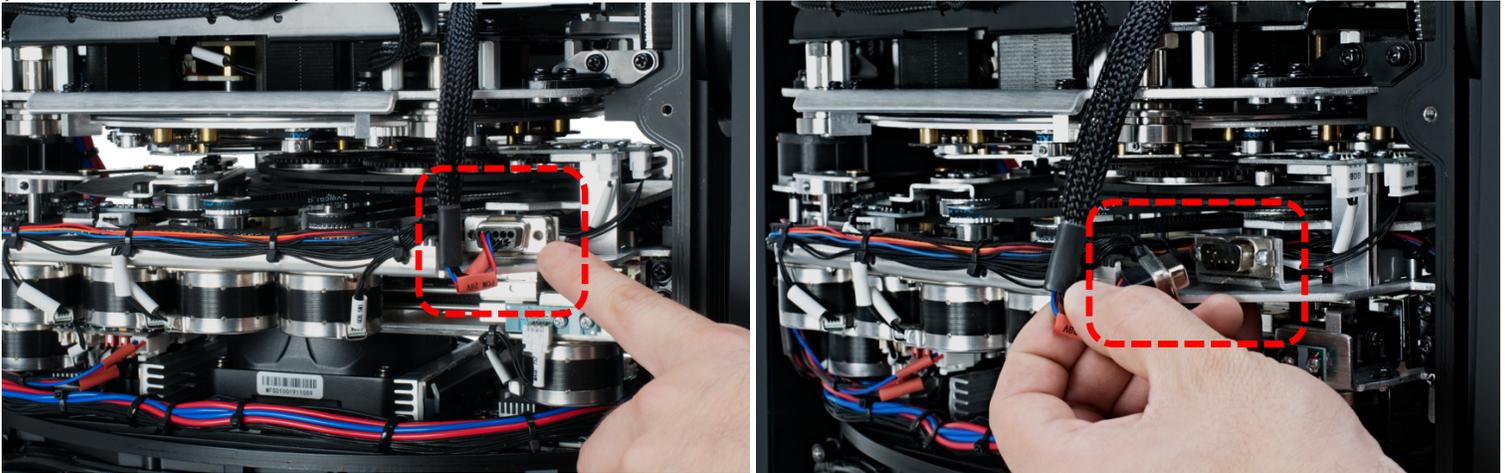
4. Locate the 9-pin connector and carefully unplug it from its socket. **DO NOT USE FORCE TO REMOVE!**
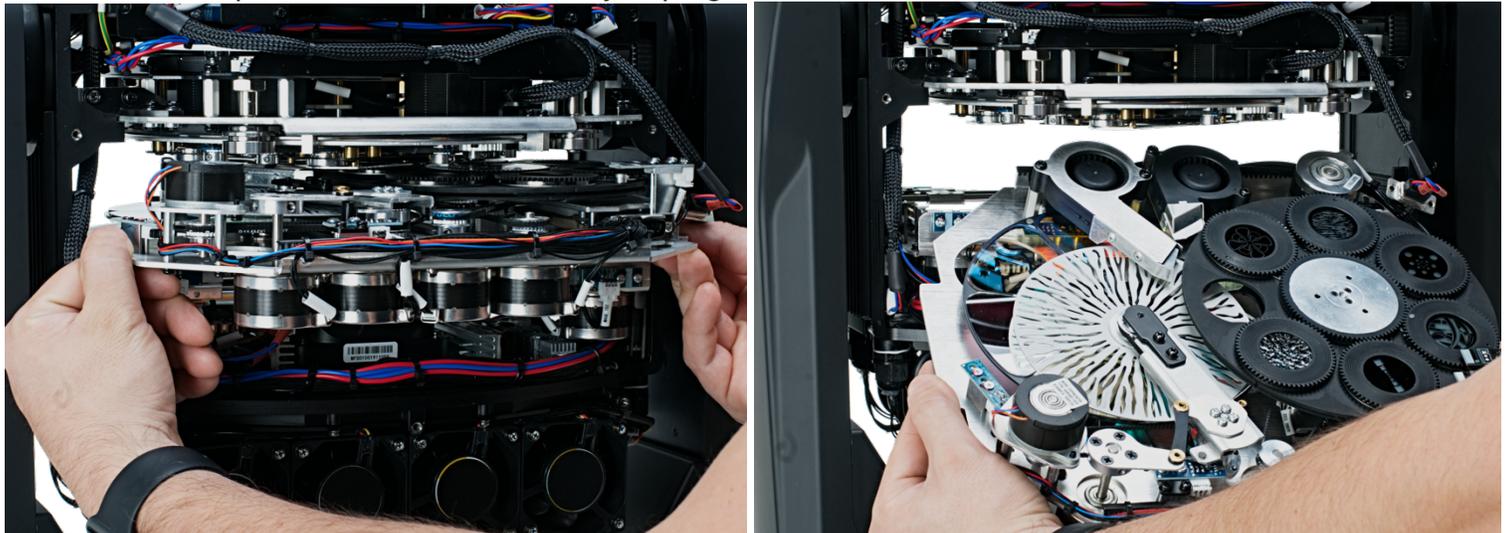
5. Carefully grip the GOBO Wheel module and slid it out and away to clear the mounting rails.

GOBO INSTALLATION
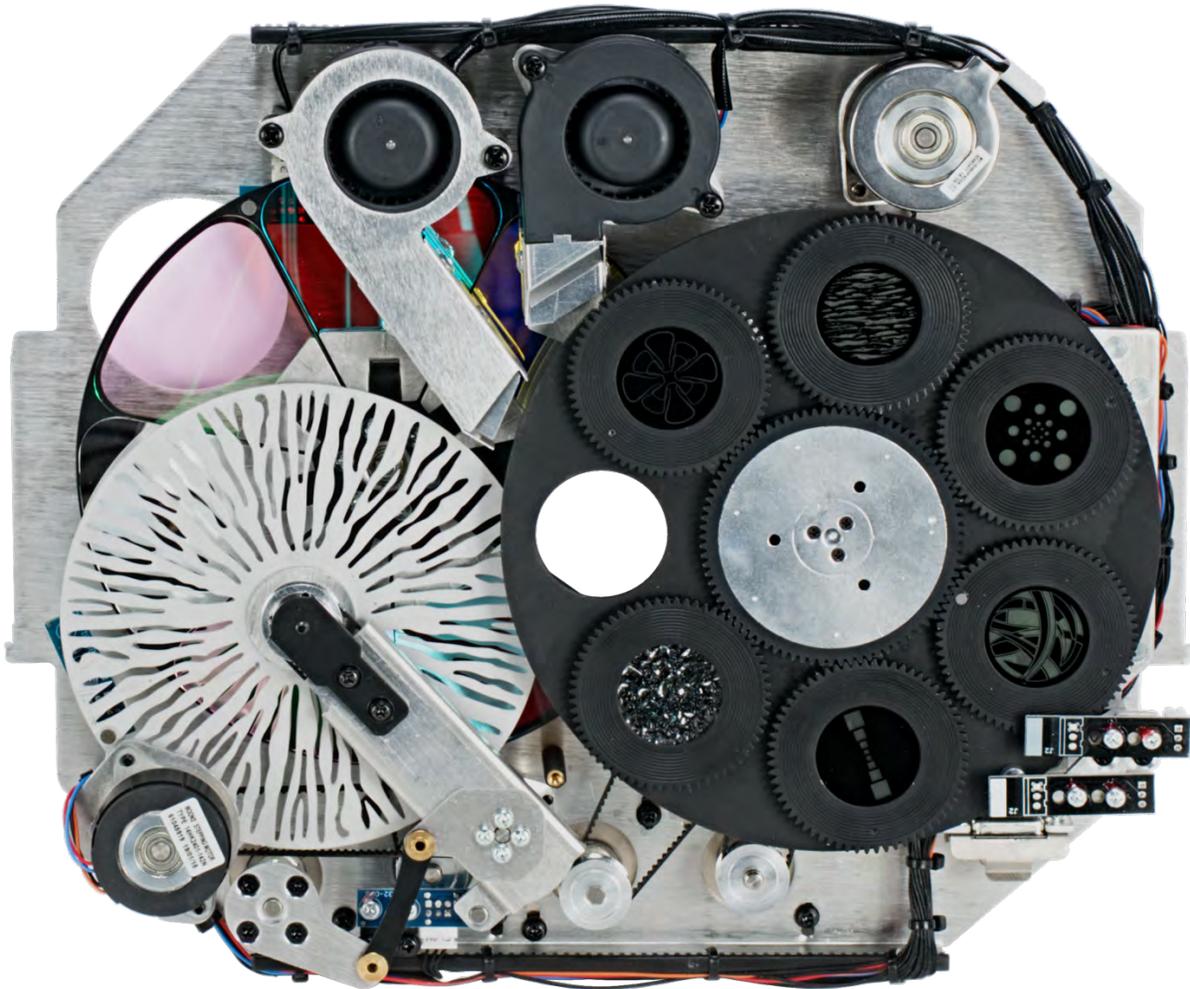
6. Carefully place the module on a stable flat surface in an **INDOOR DUST FREE** location.

7. REPLACING A ROTATING GOBO
Locate the specific Rotating GOBO to replace. Carefully grip the GOBO using your thumb and index finger, gently lifting it slightly and then pulling it out and away until it fully clears the GOBO Wheel.

GOBO INSTALLATION

8. Locate the tab of the spring, and with a precision pick (or similar tool), carefully press the retaining spring inward to relieve the tension. Remove the retaining spring and carefully separate the GOBO from the GOBO Holder. Lastly, remove the flat washer attached to the removed GOBO and attach it to the desired replacement GOBO. Install the replacement Rotating GOBO following the steps above in reverse order.

⚠ **CAUTION: TAKE CARE NOT TO SCRATCH GOBO OR GOBO HOLDER**
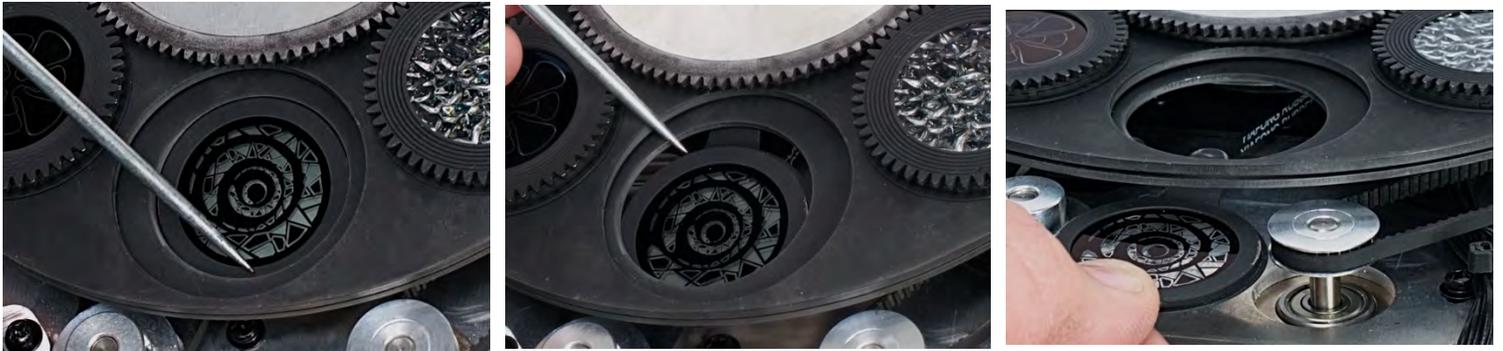
9. REPLACING A STATIC GOBO

Rotate the Static GOBO Wheel until the desired GOBO is visible through the OPEN slot in the Rotating GOBO Wheel. Using a precision pick (or similar tool), carefully press the Static GOBO Holder down slightly, then using your thumb and index finger, gently pull it out and away until if fully clears the GOBO Wheel.

10. Locate the tab of the retaining spring. Using a precision pick (or similar tool), carefully press the retaining spring inward to relieve the tension. Remove the retaining spring and carefully separate the GOBO from the GOBO Holder. Lastly, remove the flat washer attached to the removed GOBO and attach it to the desired replacement GOBO. Install the replacement Static GOBO following the steps above in reverse order.

⚠ **CAUTION: TAKE CARE NOT TO SCRATCH GOBO OR GOBO HOLDER**

FIXTURE INSTALLATION

⚠ **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 AMX AMPS.**

⚠ **MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 10 FEET (3 METERS)**

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

⚠ **MAXIMUM TEMPERATURE OF EXTERNAL SURFACE 212° F (100°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 ambient operating temperature range is **-4° to 113°F. (-20° to 45°C)**
Do not use the fixture under or above this temperature.

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.

FIXTURE INSTALLATION

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 a built-in rigging points for a **SAFETY CABLE**. 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 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.

⚠ **ALWAYS ATTACH AN APPROPRIATELY RATED SAFETY CABLE (NOT INCLUDED) THAT MEETS ALL LOCAL, NATIONAL, AND COUNTRY CODES AND REGULATIONS WHENEVER INSTALLING FIXTURE IN A SUSPENDED ENVIRONMENT!**

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

FIXTURE INSTALLATION

POWER AND DATA CABLES

⚠ **TO MAINTAIN THE IP65 RATING INTEGRITY OF THE FIXTURE, ALL CABLES MUST BE RUN TOWARDS THE GROUND TO PREVENT WATER ACCUMULATION AROUND THE CONNECTIONS. (see illustration below)**

SYSTEM MENU LCD DISPLAY
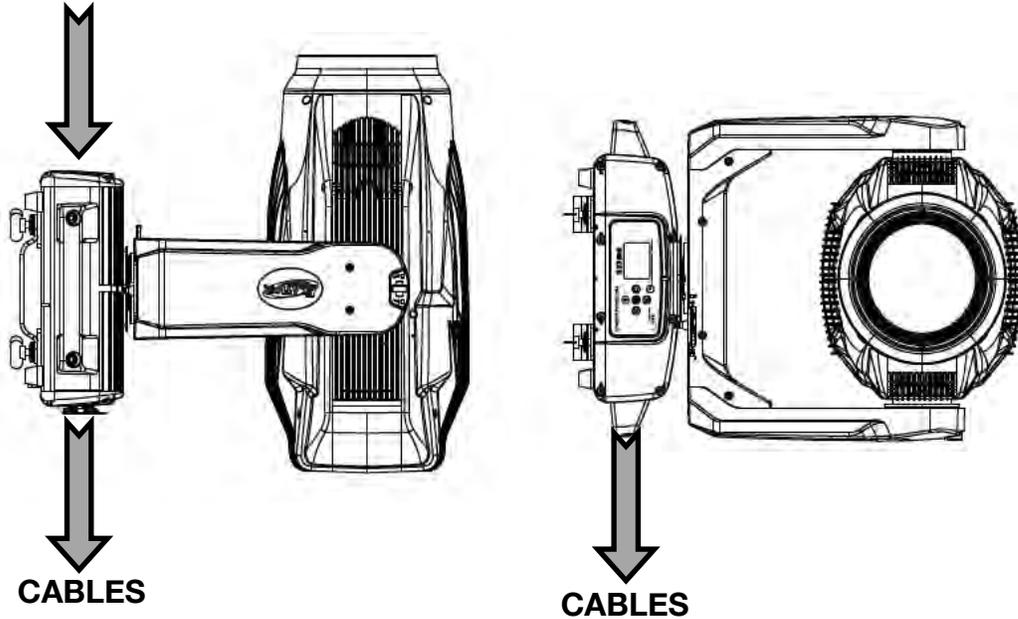
CABLES

CABLES

INCLUDED RJ45 DATA CABLE

⚠ **THE INCLUDED RJ45 DATA CABLE IS FOR FIXTURE TO FIXTURE INTERCONNECT ONLY! THE RJ45 CABLE CONNECTORS MAY NOT BE COMPATIBLE WITH OTHER RJ45/ETHERNET TYPE CONNECTORS.**
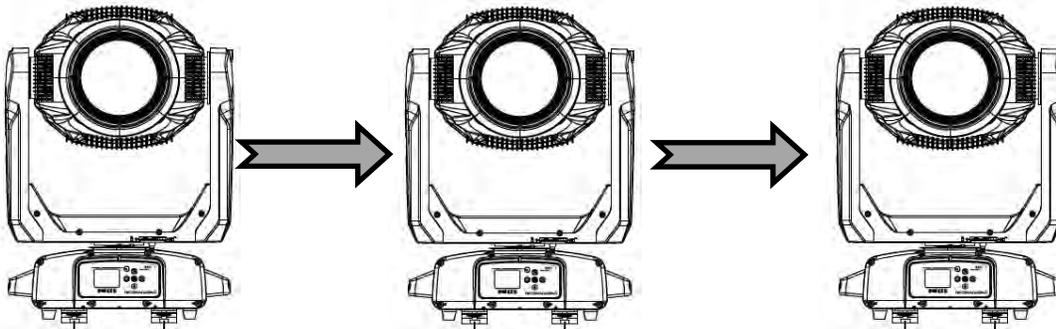
FIXTURE INSTALLATION

POWER AND DATA CONNECTIONS

⚠️ ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT.

⚠️ TO MAINTAIN IP65 RATING INTEGRITY AND PREVENT WATER FROM ENTERING THE FIXTURE, SEAL ALL UNUSED CONNECTION RUBBER CAPS.

⚠️ SAFETY CABLE RIGGING POINT

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

FIXTURE INSTALLATION
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 on 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.

SUN PROTECTION MODE / HIBERNATION MODE

This state can be set via DMX, or will go into this state after 3 minutes without a DMX signal.

When the sun protection is activated, the pan-and-tilt function of the moving-head will position the lens away from direct sunlight, or other high intensity light source, to protect the internal belts, electronics etc. from burn damage.

When the unit is in the 'sun protection state', it uses its accelerometer sensors (X-Y-Z) (only present on discharge units and IP units) to position the front lens downwards, even when the unit(s) will be moved from its position. This will keep on changing the position of the head.

Note that 'manual mode' overrides the 'sun-protection mode'.
The hibernation function is an incredibly old feature that puts the unit into a 'sleep state' to save power (this is a state whereas only the electronics remain on, and all other functions are turned off, functions such as motors lamps etc.). This state is automatically activated when no DMX signal is present for the set time (1-99min or off).
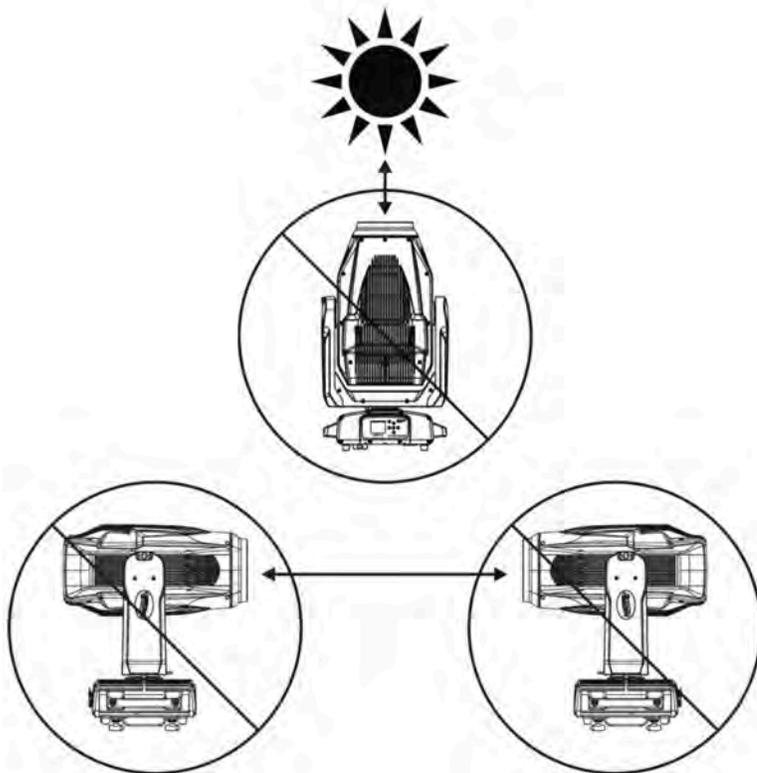
SYSTEM MENU

The fixture includes an easy to navigate system menu. The control panel (see image below) located on the front of the fixture, provides access to the main system menu and is where all necessary system adjustments are made to the fixture. During normal operation, pressing **MODE/ESC** 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, DOWN, RIGHT,** and **LEFT** 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 **MODE/ESC** button.

To access the LCD Menu Control Display via the internal battery, press and hold the **MODE/ESC** button for 10 seconds. The LCD Menu Control Display will shut **OFF** automatically about 1 minute from the last button press.
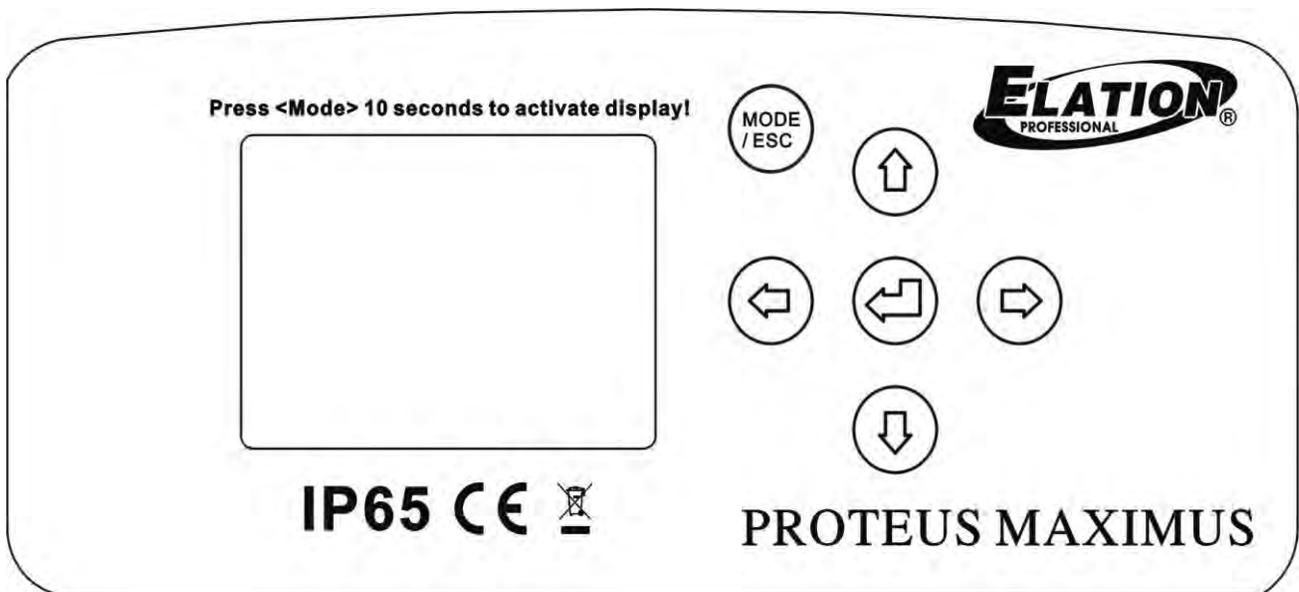
⚠ **ALTHOUGH E-FLY SETTINGS MAY APPEAR IN THE SYSTEM MENU, THIS FEATURE IS NOT ACTIVATED. E-FLY WIRELESS DMX IS AN OPTIONAL FEATURE WHICH MUST BE ACTIVATED IN THE SERVICE MENU. PLEASE CONTACT ELATION SERVICE FOR FURTHER DETAILS.**

E L A T I O N   P R O T E U S   M A X I M U S ™   -   S Y S T E M   M E N U

Supports Software Versions: ≥ 1.4.1

Features subject to change without notice.   *Rotation direction (Clockwise/Counterclockwise) and control of effects depends on head orientation and Pan/Tilt settings.

MAIN MENU	SUB MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		DESCRIPTION
FUNCTION	Set Dmx Address	A001~AXXX		DMX Address Setting
	Dmx Value	ALL……		DMX Value Display
	Secondary Mode	Secondary1, Secondary2, Secondary3		Secondary Setting
	Auto Program	Primary / **Alone**		Auto Program
INFORMATION	Time Information	Current Time	XXXX (Hours)	Fixture Run Time From Power ON
		Total Run Time	XXXX (Hours)	Fixture Total Run Time
		Last Run Time	XXXX (Hours)	Fixture Last Run Time
		LastRun Password	Password=**038**	**(PSWD Required)**
		Clear Last Run	ON / **OFF**	Clear Fixture Last Run Time
	Temperature Info	LED Temperature	XXX C° / F °	Temperature of LED Engine
		Head Temperature	XXX C° / F °	Temperature in Fixture Head
		Base Temperature	XXX C° / F °	Temperature in Fixture Base
	Humidity Info	Head Humidity	XXX%	Humidity in Base
		Base Humidity	XXX%	Humidity in Head
	Ethernet IP	000 . 000 . 000 . 000	000 . 000 . 000 . 000	Displays Fixture Ethernet Address
	Fan Info	HeadFan: xxxx RPM		Displays Fan Info
	Software Version	1U01: ~	≥V0.0.0	Software Version
	Error Info	Error Record 1 ~ Error Record 10		Fixture Last 10 Error Codes
PERSONALITY	Status Settings	Address via DMX	**ON**/OFF	Address Via DMX
		No DMX Status	Close / **Hold** / Auto	Fixture State When NO DMX Signal
		Pan Reverse	ON/**OFF**	Pan Reverse Movement
		Tilt Reverse	ON/**OFF**	Tilt Reverse Movement
		Pan Degree	630/**540**	Pan Degree Select
		Feedback	**ON**/OFF	Movement Feedback
		Movement Speed	**Normal** / Slow	Movement Speed
		P/T Brake Mode	**Smooth** / Fast	Pan/Tilt Brake Mode
		Hibernation	OFF, 01M~99M, **15M**	Stand By Mode
	Service Setting	Password	Password=**050**	Service Password
		RDM UID	**22A6xxxxxxxx**	RDM PID Code **(PSWD Required)**
		Clear Err. Info	ON/**OFF**	Clear Error Info **(PSWD Required)**
	Fans Control	**Auto**, High, Silent		Select Fan Speeds
	Display Setting	Shutoff Time	02~60m **05m**	Display Shut Off Time
		Display Reverse	ON/**AUTO**/OFF	Display Reverse 180º
		Key Lock	**ON**/OFF	Key Lock
	Temperature C/F	Celsius/**Fahren**		Temperature Switch Between C°/ F°
	Initial Status	Control =XXX		Initial Effect Position
	Select Signal	E-FLY Off		E-FLY Wireless Off **(Optional)**
		DMX & E-FLY		DMX In/Out & E-FLY Wireless On **(Optional)**
		E-FLY & Out		Activate E-FLY **(Optional)** & 5pin DMX OUT
		DMX In&E-FLY Out		DMX In & E-FLY Out **(Optional)**
		Art-Net		Select Art-Net
		sACN		Activate sACN
	Ethernet IP	XXX . XXX . XXX . XXX		Ethernet IP (PSWD Required)
	Ether Mask IP	XXX . XXX . XXX . XXX		Ethernet Mask IP (PSWD Required)
	Set Universe	**000** - 32767		Set ArtNet Universe
	Set E-FLY Chn	**00** - 14		Set E-FLY Wireless Channel **(Optional)**
	Dimmer Mode	**Standard**, Stage, TV, Architectural, Theatre, Stage2, Delay: 0s, 0.1s, 0.2s, 0.3s, 0.4s, 0.5s, 0.6s, 0.7s, 0.8s, 0.9s 1.0s, 1.5s, 2.0s, 3.0s, 4.0s, 5.0s, 6.0s, 7.0s, 8.0s, 9.0s, 10s		Set Dimmer Mode
	Refresh	**1200**, 900-1500, 2500, 4000, 5000, 6,000 10000, 15000, 20000, 25000 (Hz)		Set LED Refresh Rate
	Dimmer Curve	**Linear**, Square, Inverse Square, S-Curve		Set Dimmer Curve Mode
	Reset Default	ON/**OFF**	Passcode=**011**	Restore Factory Settings **(PSWD Required)**

ELATION PROTEUS MAXIMUS™ - SYSTEM MENU

Supports Software Versions: ≥ 1.4.1

Features subject to change without notice.   *Rotation direction (Clockwise/Counterclockwise) and control of effects depends on head orientation and Pan/Tilt settings.

MAIN MENU	SUB MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		DESCRIPTION
Reset Function	Reset All			Reset All Motors
	Reset Pan&Tilt			Reset Pan/Tilt
	Reset Colors			Reset Colors
	Reset Gobos			Reset Gobos
	Reset ZoomModules			Reset Zoom Modules
	Reset Others			Reset Other Motors
Effect Adjust	Test Channel	PAN ……		Test function
	Manual Control	PAN =XXX, ...		Fine Adjustments
	Calibration	Calibration Password		Password **050 (PSWD Required)**
User Mode Set	User Mode	**Standard**		DMX Channel Modes
		Extended		
Edit Program	Select Program	Auto Pro Part1 = Program 1~10 **(Program 1)**		Select Programs To Be Run
		Auto Pro Part2 = Program 1~10 **(Program 2)**		
		Auto Pro Part3 = Program 1~10 **(Program 3)**		
	Edit Program	Program 1	Program Test	Testing Program
		:	Step 01=SCxxx	Program In Loop
		Program 10	Step 64=SCxxx	Save and Exit
	Edit Scenes	Edit Scene 001 ~ Edit Scene 250	Pan,Tilt,……	Save and Automatically Return
			--Fade Time-- --Scene Time--	Manual Scenes Edit
			Input By Outside	Stores Scenes via Ext DMX Console
	Rec. Controller	XX~XX		Automatic Scenes Recorder

⚠ **ALTHOUGH E-FLY SETTINGS MAY APPEAR IN THE SYSTEM MENU, THIS FEATURE IS NOT ACTIVATED. E-FLY WIRELESS DMX IS AN OPTIONAL FEATURE WHICH MUST BE ACTIVATED IN THE SERVICE MENU.**
PLEASE CONTACT ELATION SERVICE FOR FURTHER DETAILS.

SYSTEM MENU

PERSONALITY - Status Settings - <u>Address Via DMX</u>

When ON, define the desired DMX address via an external controller.

NOTE: This process assumes the fixture DMX address is set to 001. If fixture DMX address is not at 001, you must adjust the channel numbers accordingly in order for this feature to work.
For example: if your fixture address is 010, then Channel 1 becomes Channel 10, Channel 2 becomes Channel 11, and Channel 3 becomes Channel 12.

1. Connect the fixture to the external controller and power ON.

2. Set the DMX value of **Channel 1** on the controller to **(7)**.

3. Set the DMX value of **Channel 2** on the controller to **(7)** or **(8)**.
   When set to **(7)**, the DMX address can be set between **(1)** and **(255)**.
   When set to **(8)**, the DMX address can be set between **(256)** and **(511)**.

4. Using **Channel 3** on the controller set the desired DMX address of the fixture.

   Example 1: If the desired DMX address is **57**, set **Channel 1** to a value of **(7)**, set **Channel 2** to a value of **(7)**, and then set **Channel 3** to a value of **(57)**.

   Example 2: If the desired DMX address is **420**, set **Channel 1** to a value of **(7)**, set **Channel 2** to a value of **(8)**, and then set **Channel 3** to a value of **(164)**. (256+164=420)

5. After setting **Channel 3** to the desired DMX address value, wait for approximately 20 seconds (some fixtures may require a longer time) for the fixture to complete the address reset function.

PERSONALITY – Service Setting - <u>Password</u> (050)

The Service Password MUST be entered in order to access the service menus.

S Y S T E M   M E N U

PERSONALITY - Display Setting – <u>Key Lock</u>

When ON, Control Panel buttons lock automatically after exiting main menu for 15 seconds. To unlock, keep **MODE/ESC** button pressed for 3 seconds.

PERSONALITY - <u>Reset Default</u>

⚠️ **ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION!**

This function restores all fixture settings to the factory default settings. The password is **011** and must be entered each time a reset is performed.

EFFECT ADJUST – <u>Test Channel</u>
Auto test each individual channel function independently from the DMX control board.

EFFECT ADJUST – <u>Manual Control</u>
Select and manually test and fine adjust each individual channel function
Independently from DMX control board. This function will center PAN and TILT motors and set dimmer to 100%. PAN and TILT functions will still operate if the fixture needs to be positioned to a flat clear surface. With the individual functions, you can focus the light on a flat surface (wall) and perform fine adjustments.

EFFECT ADJUST – <u>Calibration</u>

⚠️ **ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION!**

This function allows small adjustments to be made to the Pan, Tilt, and Zoom movements to compensate for ware or in the event a sensor has been knocked slightly out of place. Because improper use of this function can result in undesired operation this function has been password protected. The password is **050** and must be entered each time the calibration menu function is entered. Because calibration is an extremely delicate procedure, instructions on performing this action are left out of this manual. For a first-time calibrator, please contact our customer support team for step-by-step instructions.

SYSTEM MENU

EDIT PROGRAM – Rec. Controller
The fixture features an integrated DMX-recorder by which you can transmit the programmed scenes from your DMX-controller to the moving head. Adjust the desired scene numbers via the encoder (from – to). When you call up the scenes at your controller, they will automatically be transmitted to the moving head.

EDIT PROGRAM – Record Controller – Working with Built-In Programs
A Primary unit can send up to 3 different data groups to the Secondary units, i.e. a Primary unit can start 3 different Secondary units, which run 3 different programs. The Primary unit sends the 3 program parts in a continuous loop.
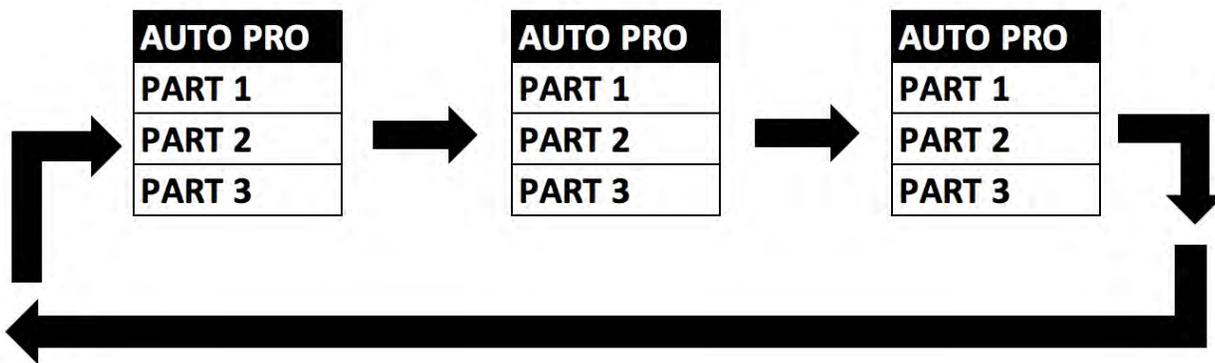
The Secondary unit receives data from the Primary unit according to the group which the Secondary unit was assigned to. If e.g. a Secondary unit is set to **"Secondary 1"** in the menu **"Set to Secondary"**, the Primary unit sends **"Auto Program Part 1"** to the Secondary unit. If set to **"Secondary 2"**, the Secondary unit receives **"Auto Program Part 2"**.

S Y S T E M   M E N U

EDIT PROGRAM – Record Controller – <u>Working with Built-In Program [continued]</u>

To start an Auto Program, proceed as follows:

1. Secondary Setting
Select **"Function Mode"**.
Press **ENTER** to confirm.
Select **"Set to Secondary"**.
Press **ENTER** to confirm.
Select **"Secondary 1"**, **"Secondary 2"** or **"Secondary 3"**.
Press **ENTER** to confirm.
Press **MODE/ESC** in order to return to the main menu.

2. Automatic Program Run
Select **"Function Mode"**.
Press **ENTER** to confirm.
Select **"Auto Program"**.
Press **ENTER** to confirm.
Select **"Primary"** or **"Alone"**.
Press **ENTER** to confirm.
Press **MODE/ESC** in order to return to the main menu.

3. Program Selection for Auto Pro Part
Select **"Edit Program"**.
Press **ENTER** to confirm.
Select **"Select Programs"**.
Press **ENTER** to confirm.
Select **"Auto Pro Part 1"**, **"Auto Pro Part 2"** or **"Auto Pro Part 3"** and select which Secondary
program is to be sent. Selection **"Part 1"** means, that the Secondary unit runs the same program as
the Primary units.
Press **ENTER** to confirm.
Press **MODE/ESC** in order to return to the main menu.

4. Program Selection for Edit Program
Select "**Edit Program"**.
Press **ENTER** to confirm.
Select **"Edit Program"**.
Press **ENTER** to confirm.
Select the desired program to edit specific scenes into a specific program.
Press **ENTER** to confirm.
Press **MODE/ESC** in order to return to the main menu.

S Y S T E M   M E N U

EDIT PROGRAM – Record Controller – <u>Working with Built-In Program [continued]</u>

5. Automatic Scene Recording
Select **"Edit Program"**.
Press **ENTER** to confirm.
Select **"Edit Scenes"**.
Select desired scene numbers. A maximum of 250 scenes can be programmed.
Press **ENTER** to confirm.
Press **MODE/ESC** in order to return to the main menu.

Example:
Program 2 includes scenes: 10, 11, 12, & 13
Program 4 includes scenes: 8, 9, & 10
Program 6 includes scenes: 12, 13, 14, & 15
Auto Pro Part 1 is Program 2
Auto Pro Part 2 is Program 3
Auto Pro Part 3 is Program 6
The 3 Secondary groups run the Auto Program in certain time segments. (See chart below)

PART 1	PART 2	PART3
SCENE 10	SCENE 8	SCENE 12
SCENE 11	SCENE 9	SCENE 13
SCENE 12	SCENE 10	SCENE 14
SCENE 13	SCENE 8	SCENE 15
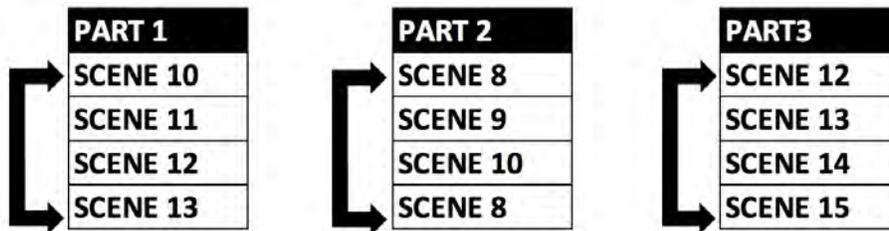
DMX CHANNEL FUNCTIONS AND VALUES

ELATION PROTEUS MAXIMUS™							
DMX Channel Values / Functions (61 Total DMX Channels)							
Supports Software Versions: ≥ 1.4.3							
Features subject to change without notice. *Rotation direction (Clockwise/Counterclockwise) and control of effects depends on head orientation and Pan/Tilt settings.							
Standard	Extended	Value	Function		Hold Time	Default	Snap
1	1		**PAN**			127	
		0-255	Movement				
2	2		**PAN FINE**			127	
		0-255	Fine Movement				
3	3		**TILT**			127	
		0-255	Movement				
4	4		**TILT FINE**			127	
		0-255	Fine Movement				
5	5		**CYAN**				
		0-255	0 → 100%				
	6		**CYAN FINE**				
		0-255	Fine Adjustment				
6	7		**MAGENTA**				
		0-255	0 → 100%				
	8		**MAGENTA FINE**				
		0-255	Fine Adjustment				
7	9		**YELLOW**				
		0-255	0 → 100%				
	10		**YELLOW FINE**				
		0-255	Fine Adjustment				
8	11		**CTO**				
		0-255	0 → 100%				
	12		**CTO FINE**				
		0-255	Fine Adjustment				

Standard	Extended	Value	Function	Hold Time	Default	Snap
9	13		**COLOR WHEEL**			X
		0-19	Open			
		20-37	Red			
		38-55	Green			
		56-73	UV			
		74-91	High CRI			
		92-109	Orange			
		110-127	Medium Blue			
		128-189	Color Scroll CW FAST to SLOW			
		190-193	NO Rotation			
		194-255	Color Scroll CCW SLOW to FAST			
	14		**COLOR WHEEL FINE**			X
		0-255	Fine Control of Color Wheel Position			
10	15		**ROTATING GOBOS** **[GOBO WHEEL 1]**			X
		0-9	Open			
		10-19	Rotating Gobo 1			
		20-29	Rotating Gobo 2			
		30-39	Rotating Gobo 3			
		40-49	Rotating Gobo 4			
		50-59	Rotating Gobo 5			
		60-69	Rotating Gobo 6			
		70-89	Rotating Gobo 1 Shake SLOW to FAST			
		109	Rotating Gobo 2 Shake SLOW to FAST			
		110-129	Rotating Gobo 3 Shake SLOW to FAST			
		130-149	Rotating Gobo 4 Shake SLOW to FAST			
		150-169	Rotating Gobo 5 Shake SLOW to FAST			
		170-189	Rotating Gobo 6 Shake SLOW to FAST			
		190-221	Gobo Scroll CW FAST to SLOW			
		222-223	STOP			
		224-255	Gobo Scroll CCW SLOW to FAST			
11	16		**ROTATING GOBOS INDEXING** **[GOBO WHEEL 1]**			
		0-127	Gobo Indexing			
		128-189	Gobo Scroll CW FAST to SLOW			
		190-193	NO Rotation			
		194-255	Gobo Scroll CCW SLOW to FAST			
12	17		**ROTATING GOBOS INDEXING FINE** **[GOBO WHEEL 1]**			
		0-255	Fine Control of Rotating Gobos Indexing			

Standard	Extended	Value	Function	Hold Time	Default	Snap
13	18		**FIXED GOBOS [GOBO WHEEL 2]**			X
		0-9	Open			
		10-19	Gobo 1			
		20-29	Gobo 2			
		30-39	Gobo 3			
		40-49	Gobo 4			
		50-59	Gobo 5			
		60-69	Gobo 6			
		70-77	Gobo 7			
		78-93	Gobo 1 Shake SLOW to FAST			
		94-109	Gobo 2 Shake SLOW to FAST			
		110-125	Gobo 3 Shake SLOW to FAST			
		126-141	Gobo 4 Shake SLOW to FAST			
		142-157	Gobo 5 Shake SLOW to FAST			
		158-173	Gobo 6 Shake SLOW to FAST			
		174-189	Gobo 7 Shake SLOW to FAST			
		190-221	Gobo Scroll CW FAST to SLOW			
		222-223	NO Rotation			
		224-255	Gobo Scroll CCW SLOW to FAST			
	19		**FIXED GOBO WHEEL INDEXING [GOBO WHEEL 2]**			X
		0-255	Fine Control of Fixed Gobo Wheel 2 Indexing			
14	20		**ROTATING PRISM, PRISM / GOBO MACROS**			X
		0-63	Open			
		64-95	4 Prism			
		96-127	4 Facet Linear			
		128-135	Macro1			
		136-143	Macro2			
		144-151	Macro3			
		152-159	Macro4			
		160-167	Macro5			
		168-175	Macro6			
		176-183	Macro7			
		184-191	Macro8			
		192-199	Macro9			
		200-207	Macro10			
		208-215	Macro11			
		216-223	Macro12			
		224-231	Macro13			
		232-239	Macro14			
		240-247	Macro15			
		248-255	Macro16			

Standard	Extended	Value	Function	Hold Time	Default	Snap
15	21		**ROTATING PRISM, PRISM INDEXING**			
		0-127	Prism Indexing			
		128-189	Prism Rotation CW FAST to SLOW			
		190-193	NO Rotation			
		194-255	Prism Rotation CCW SLOW to FAST			
	22		**ROTATING PRISM, PRISM INDEXING FINE**			
		0-255	Fine Control of Prism Indexing			
16	23		**FOCUS**		127	
		0-255	Focus Adjustment from NEAR to FAR			
17	24		**FOCUS FINE**		127	
		0-255	Focus Fine Adjustment from NEAR to FAR			
18	25		**ZOOM**		127	
		0-255	Zoom Adjustment from NARROW to WIDE			
19	26		**ZOOM FINE**		127	
		0-255	Zoom Fine Adjustment			
	27		**AUTO FOCUS**			X
		0-50	Auto Focus Off			
		51-100	5m			
		101-150	7.5m			
		151-200	10m			
		201-255	15m			
	28		**AUTO FOCUS FINE**			
		0-255	Fine Control of Focus Adjustment			
20	29		**STROBE**		50	
		0-31	Shutter Closed			
		32-63	NO Function (Shutter Open)			
		64-95	Strobe SLOW to FAST			
		96-127	No Function (Shutter Open)			
		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)			
21	30		**DIMMER**			
		0-255	0 → 100%			
22	31		**DIMMER FINE**			
		0-255	Fine Dimming			

Standard	Extended	Value	Function	Hold Time	Default	Snap
23	32		**DIM MODES**	0s		X
		0-20	Standard			
		21-40	Stage			
		41-60	TV			
		61-80	Architectural			
		81-100	Theatre			
		101-120	Stage 2			
			DIMMER DELAY TIME			
		121	0s			
		122	0.1s			
		123	0.2s			
		124	0.3s			
		125	0.4s			
		126	0.5s			
		127	0.6s			
		128	0.7s			
		129	0.8s			
		130	0.9s			
		131	1.0s			
		132	1.5s			
		133	2.0s			
		134	3.0s			
		135	4.0s			
		136	5.0s			
		137	6.0s			
		138	7.0s			
		139	8.0s			
		140	9.0s			
		141	10s			
		142-255	Idle			

Standard	Extended	Value	Function	Hold Time	Default	Snap
24	33		**IRIS**			
		0-191	MAX Diameter to MIN Diameter			
		192-223	Pulse Closing FAST to SLOW			
		224-255	Pulse Opening SLOW to FAST			
	34		**IRIS FINE**			
		0-255	Fine Control of Iris			
25	35		**FROST**			
		0-127	Open to LIGHT Frost			
		128-255	Open to WASH Frost			
26	36		**ANIMATION WHEEL**			
		0-7	Open			
		8-255	Animation Rotation MIN to MAX			
27	37		**ANIMATION WHEEL, INDEX ROTATION**			
		0-127	Animation Wheel Indexing			
		128-189	Animation Wheel Rotation CW from FAST to SLOW			
		190-193	No Rotation			
		194-255	Animation Wheel Rotation CW from SLOW to FAST			

Standard	Extended	Value	Function	Hold Time	Default	Snap
	38		**SPEED of CMY & Color Macro**			
		0-255	Speed MAX to MIN			
	39		**COLOR MACROS - CMY & Color Wheel**			X
		0-31	OFF			
		32-39	Macro1			
		40-47	Macro2			
		48-55	Macro3			
		56-63	Macro4			
		64-71	Macro5			
		72-79	Macro6			
		80-87	Macro7			
		88-95	Macro8			
		96-103	Macro9			
		104-111	Macro10			
		112-119	Macro11			
		120-127	Macro12			
		128-135	Macro13			
		136-143	Macro14			
		144-151	Macro15			
		152-159	Macro16			
		160-167	Macro17			
		168-175	Macro18			
		176-183	Macro19			
		184-191	Macro20			
		192-199	Macro21			
		200-207	Macro22			
		208-215	Macro23			
		216-223	Macro24			
		224-231	Macro25			
		232-239	Macro26			
		240-247	Macro27			
		248-255	Random CMY			

Standard	Extended	Value	Function	Hold Time	Default	Snap
28	40		**BLADE 1A**			
		0 -255	Open to Close			
	41		**BLADE 1A FINE**			
		0 -255	Open to Close FINE			
29	42		**BLADE 1B**			
		0 -255	Open to Close			
	43		**BLADE 1B FINE**			
		0 -255	Open to Close FINE			
30	44		**BLADE 2A**			
		0 -255	Open to Close			
	45		**BLADE 2A FINE**			
		0 -255	Open to Close FINE			
31	46		**BLADE 2B**			
		0 -255	Open to Close			
	47		**BLADE 2B FINE**			
		0 -255	Open to Close FINE			
32	48		**BLADE 3A**			
		0 -255	Open to Close			
	49		**BLADE 3A FINE**			
		0 -255	Open to Close FINE			
33	50		**BLADE 3B**			
		0 -255	Open to Close			
	51		**BLADE 3B FINE**			
		0 -255	Open to Close FINE			
34	52		**BLADE 4A**			
		0 -255	Open to Close			
	53		**BLADE 4A FINE**			
		0 -255	Open to Close FINE			
35	54		**BLADE 4B**			
		0 -255	Open to Close			
	55		**BLADE 4B FINE**			
		0 -255	Open to Close FINE			
36	56		**FRAMING INDEX ROTATION**			
		0-126	Minimum (-45 degrees)			
		127-128	Parallel (0 degrees)			
		129-255	Maximum (+45 degrees)			
	57		**FRAMING ROTATION FINE**			
		0 -255	Fine Control of Framing Rotation			
	58		**FRAMING SPEED**			
		0 -255	Speed MAX to MIN			

Standard	Extended	Value	Function	Hold Time	Default	Snap
			FRAMING MACROS			
		0-7	OFF			
		8-15	Macro1			
		16-23	Macro2			
		24-31	Macro3			
		32-39	Macro4			
		40-47	Macro5			
		48-55	Macro6			
		56-63	Macro7			
		64-71	Macro8			
		72-79	Macro9			
		80-87	Macro10			
		88-95	Macro11			
		96-103	Macro12			
		104-111	Macro13			
		112-119	Macro14			
	59	120-127	Macro15			X
		128-135	Macro16			
		136-143	Macro17			
		144-151	Macro18			
		152-159	Macro19			
		160-167	Macro20			
		168-175	Macro21			
		176-183	Macro22			
		184-191	Macro23			
		192-199	Macro24			
		200-207	Macro25			
		208-215	Macro26			
		216-223	Macro27			
		224-231	Macro28			
		232-239	Macro29			
		240-247	Macro30			
		248-255	Macro31			
			PAN / TILT SPEED			
		0-225	Speed MAX to MIN			
	60	226-235	Blackout by Movement			X
		236-245	Blackout by All Wheel Changing			
		246-255	NO Function			

Standard	Extended	Value	Function	Hold Time	Default	Snap
			CONTROL			
		0-19	Color Change Normal			
		20-29	Color Change to Any Position			
		30-39	Color & Gobo Change to Any Position	0s		
		40-59	Fan Mode Low			
		60-69	Fan Mode High			
		70-79	Fan Mode Auto			
		80-84	All Motor Reset			
		85-87	Pan / Tilt Motors Reset			
		88-90	Color Motors Reset	3s		
		91-93	Gobo Motors Reset			
		94-96	Focus and Zoom Motor Reset			
		97-99	Other Motor Reset			
		100-168	**Refresh Rate (Hz)**			
		100	900			
		101	910			
		102	920			
		103	930			
		104	940			
		105	950			
		106	960			
37	61	107	970			X
		108	980			
		109	990			
		110	1000			
		111	1010			
		112	1020			
		113	1030			
		114	1040	1s		
		115	1050			
		116	1060			
		117	1070			
		118	1080			
		119	1090			
		120	1100			
		121	1110			
		122	1120			
		123	1130			
		124	1140			
		125	1150			
		126	1160			
		127	1170			
		128	1180			
		129	1190			

Standard	Extended	Value	Function	Hold Time	Default	Snap
37	61	130	1200	1s		X
		131	1210			
		132	1220			
		133	1230			
		134	1240			
		135	1250			
		136	1260			
		137	1270			
		138	1280			
		139	1290			
		140	1300			
		141	1310			
		142	1320			
		143	1330			
		144	1340			
		145	1350			
		146	1360			
		147	1370			
		148	1380			
		149	1390			
		150	1400			
		151	1410			
		152	1420			
		153	1430			
		154	1440			
		155	1450			
		156	1460			
		157	1470			
		158	1480			
		159	1490			
		160	1500			
		161	2500			
		162	4000			
		163	5000			
		164	6000			
		165	10000			
		166	15000			
		167	20000			
		168	25000			

Standard	Extended	Value	Function	Hold Time	Default	Snap
37	61	169-172	Idle	3s		X
		173-174	Hibernation Off			
		175-176	Hibernation On			
		177-178	Home Position Before Power Off			
		179-180	Home Position Off			
		181-190	PanTilt Smooth (default)			
		191-200	PanTilt Fast			
		201-210	Dimmer Curve Linear (default)			
		211-220	Dimmer Curve Square			
		221-230	Dimmer Curve Inverse Square			
		231-240	Dimmer Curve S-Curve			
		241	Internal Program 1 (Scene 1-8)			
		242	Internal Program 2 (Scene 9 -16)			
		243	Internal Program 3 (Scene17-24)			
		244	Internal Program 4 (Scene 25-32)			
		245	Internal Program 5 (Scene 33-40)			
		246	Internal Program 6 (Scene 41-48)			
		247	Internal Program 7 (Scene 49~56)			
		248-255	Idle			

ERROR CODES

When power is applied, the unit will automatically enter a **"Reset/Test"** mode. This mode brings all the internal motors to a home position. If there is an internal problem with one or more of the motors an error code will flash in the display in the form of **"XXer"** were as XX will represent a function number. For example, when the display shows **"0Er"** it means there is some type of error with the Pan motor. If there are multiple errors during the start-up process they will all flash in the display. For example: if the fixtures has errors on **Channel 1**, **2**, and **5** all at the same time, you will see the error message **"01Er", "02Er"**, and **"05Er"** flash repeated 5 times.

If an error does occur during the initial start-up procedure the fixture will self-generate a second reset signal and try to realign all the motors and correct the errors. If the error persists after a second attempt a third attempt will be made. If after a third attempt all the errors have not been corrected the fixture will make the following determinations:

3 or More Errors - The fixture cannot function properly with three or more errors therefore the fixture will place itself in a stand-by mode until subsequent repairs can be made.

Less Than 3 Errors - The fixture has less than 3 errors; therefore, most other functions will work properly. The fixture will attempt to operate normally until the errors can be correct by a technician. The errors in question will remain flashing in the display as a reminder of internal errors.

Error Codes subject to change without notice.	
ERROR CODES	**DESCRIPTION**
PAN Er	Movement is not located in the default position after the reset. This message 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). This error may also be displayed if the head/yoke was blocked during a reset function.
TILT Er	
Cyan Color Wheel Er	Movement is not located in the default position after the reset. This message 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).
Magenta Color Wheel Er	
Yellow Color Wheel Er	
CTO Wheel Er	
Color Wheel Er	
Focus Wheel Er	
Zoom Wheel Er	
Iris Er	
AllBladeRotation Er	
Prism1 Er	
Prism2 Er	
Prism_Rot1 Er	
Prism_Rot1 Er	
Animation Er	
AnimationRot Er	

SPECIFICATIONS

SOURCE
950W 6,500K Bright White LED Engine
30,000 Hour 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.

PHOTOMETRIC DATA
50,000 Total Lumen Output
CRI 70+ (82+ with HCRI Filter)
2:1 Hotspot Ratio
Zoom Range 5.5° - 55°
Beam Angle 4.8° - 41.2°
Field Angle 6.1° - 51°

EFFECTS
Motorized Zoom (Large 180mm Front
Aperture)
4 Rotating Full Blackout Framing Blades
+/-45° Framing Indexing
Full 360° Bi-Directional Animation Wheel
4-Facet and Linear Rotating Prisms
2 Variable Frost Filters (Light and Wash)
Internal Color, Framing, Prism, and Frost
Macros
Motorized Iris with Variable Pulse Effects
Variable 16-bit Dimming Curve Modes
High Speed Electronic Shutter and Strobe
DMX Controllable LED Refresh Rate

COLOR
CMY Color Mixing
Linear CTO Color Correction

6 Dichroic Colors including High CRI Filter and
UV

GOBOS
2 Gobo Wheels
6 Rotating / Indexing Interchangeable Glass
Gobos
7 Static Glass Gobos

CONTROL / CONNECTIONS
2 DMX Channel Modes (37 / 61)
16-bit Pan, Tilt and Dimming Control
Motorized Focus and Auto-Focus Presets
DMX, RDM, Art-NET, sACN Protocol Support
(6) Button Touch Control Panel
Full Color 180° Reversible LCD Menu Display
Hibernation Mode (Power Save)
5pin XLR DMX In/Out
IP65 RJ45 ethernet In/Out
IP65 Locking Power Cable In
With Wired Digital Communication Network

SIZE / WEIGHT
Length: 18.0 in (458mm)
Width: 23.3 in (591mm)
Height: 32.5 in (825mm)
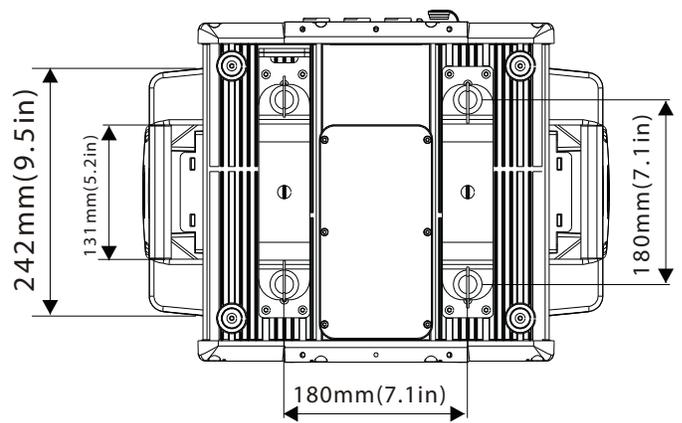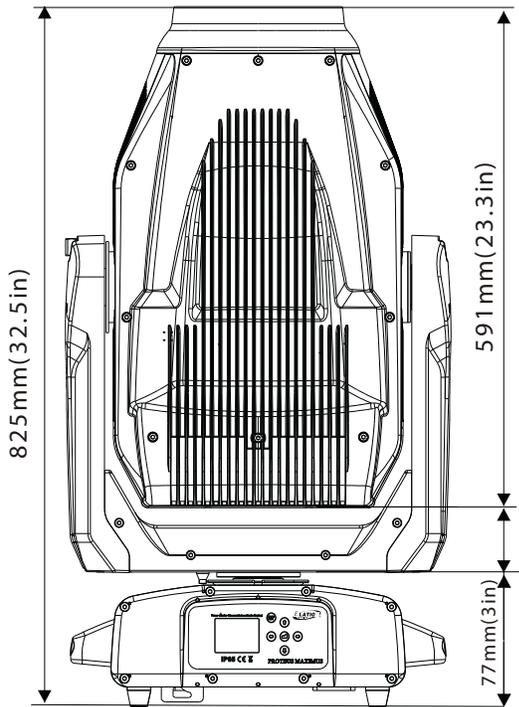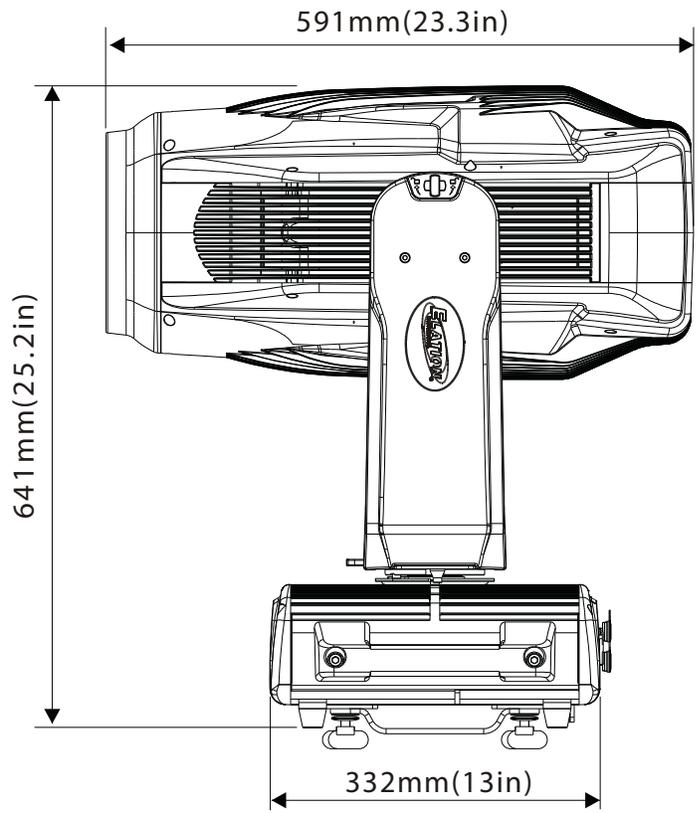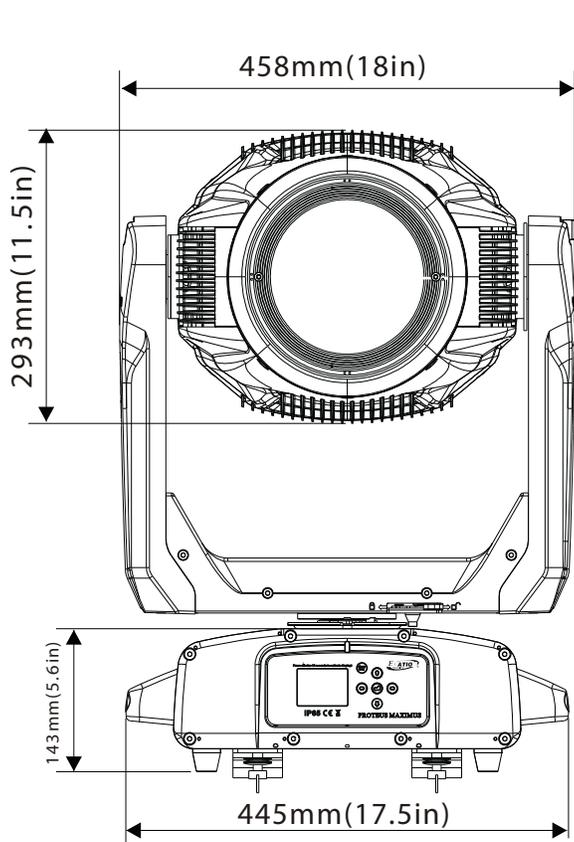Weight: 117 lbs. (53kg)

ELECTRICAL
AC 120-240V 50/60Hz
Max Power Consumption 1,400W
-4°F to 113°F (-20°C to 45°C)

APPROVALS / RATINGS

CE | IP65   ETL
               Intertek
               4010832   FC

Specifications and improvements in the design of this unit and this manual are subject to change without notice.

DIMENSIONAL DRAWINGS

458mm(18in)

293mm(11.5in)

143mm(5.6in)

445mm(17.5in)

591mm(23.3in)

641mm(25.2in)

332mm(13in)

825mm(32.5in)

591mm(23.3in)

77mm(3in)

242mm(9.5in)

131mm(5.2in)

180mm(7.1in)

180mm(7.1in)

Specifications and improvements in the design of this unit and this manual are subject to change without notice.

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O P T I O N A L   A C C E S S O R I E S

ORDER CODE	ITEM
IP TESTER	IP Fixture Vacuum and Pressure Leak Tester
TRIGGER CLAMP	Heavy Duty Wrap Around Hook Style Clamp
STR527	5 ft. (1.5m) IP65 5pin XLR Cable
	Additional Cable Lengths Available

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 determined 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.

Europe Energy Saving Notice
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