



SMARTYMAX[™] 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
09/17/19	1.0	1.3.1	27 / 44	Initial release.
08/17/20	1.2	N/C	NO CHANGE	Updated thermal
10/06/20	1.4	N/C	NO CHANGE	Updated specifications
01/11/21	1.6	1.3.4	NO CHANGE	Updated sun protection
07/22/21	1.8	N/C	NO CHANGE	Added FIL dimensions

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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.

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 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 I Fax 323-832-9142 I support@elationlighting.com

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REPLACEMENT PARTS please visit parts.elationlighting.com

WARRANTY RETURNS (USA ONLY)

To obtain warranty service, a Return Materials Authorization (RMA) number must first be obtained from ELATION. It is the Customer's responsibility to provide product proof of purchase and serial number by acceptable evidence such as an invoice copy or an approved ELATION Extended Warranty Certificate ("EWC") and any relevant maintenance records at the time warranty service is sought. Failure to provide acceptable evidence of product proof of purchase or EWC and any relevant maintenance records may be cause for denial of warranty service.

Products returned for warranty service must be sent without any accessories (i.e., power, data, and safety cables, brackets, clamps, rigging hardware, frost filters, gel frames, barn doors, lens, hoses, nozzles, rack mounting hardware, etc.), must be boxed using the original and/or suitable packaging materials (double-box and foam) that provides ample product protection for ground and/or air freight transit, and must be shipped freight pre-paid and insured to ELATION in Los Angeles, CA or an ELATION Authorized Service Center. The RMA number must be clearly written on the outside of the return box, and a brief description of the problem and the RMA number must be documented and included in the box.

Products returned for warranty service without an RMA number clearly marked on the outside of the package will be refused and returned to the shipper at the Customer's expense. Products returned for warranty service, which are received damaged due to inadequate and/or improper packaging and/or due to damage caused by shipping carrier, may incur additional repair charges before warranty service begins and/or may void this warranty. If any product accessories (included and/or optional) are shipped with the product, ELATION and/or the ELATION Authorized Service Center shall have no liability what so ever for the loss and/or damage to any such accessories, nor the safe return thereof. If the requested warranty repairs or service (including parts replacement) are within the terms of this warranty, ELATION will pay return ground transportation shipping charges to a single designated point within the United States.

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 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!

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



MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 49.2 FEET (15 METERS) MAXIMUM TEMP OF EXTERNAL SURFACE 248°F (120°C) MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE 1.6 FEET (0.5 METER)

SAFETY GUIDELINES



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 DIS-ORDERS**, 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 60 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.

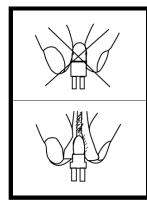
Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.

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.

DISCHARGE LAMP WARNING



This fixture is fitted with a DISCHARGE LAMP, which is highly susceptible to damage if improperly handled. NEVER touch the lamp with your bare hands, as the oil from your hands will shorten the life of the lamp. **NEVER** move the fixture until the lamp has had ample time to cool. DISCHARGE LAMPS are NOT covered under warranty conditions. Avoid switching the fixture ON and OFF repeatedly in short intervals, as this will reduce lamp life and intensity. To achieve the intensity associated with discharge lamps, these lamps use gas sealed in a high-pressure environment to emit a brilliant output.

Due to the high pressure involved with the construction of the lamp, it MAY

EXPLODE DURING PROLONGED EXTENSIVE USE. This risk is increased with age; added care is encouraged when dealing with older lamps. Thus, the lamp must always be replaced at the end of their recommended duty cycle. Extreme caution should be used when operating this or any fixture fitted with a gas discharge lamp.

UV RADIATION NOTICE



THIS FIXTURE EMITS INTENSE UV RADIATION, WHICH IS HARMFUL TO THE EYES AND SKIN. THE INTENSE LUMINANCE OF THE LAMP CAN CAUSE SEVERE DAMAGE TO THE RETINA. NEVER OPERATE THIS FIXTURE WITH ANY OF THE PROTECTIVE COVERS REMOVED. THESE COVERS HAVE BEEN SPECIALLY DESIGNED TO SHIELD AGAINST UV RADIATION.

LAMP REPLACEMENT

USE ONLY GENUINE ORIGINAL PHILIPS™ LAMPS. OTHER BRAND LAMPS WILL CAUSE DAMAGE AND WILL VOID FIXTURE WARRANTY!



DISCONNECT THE MAIN POWER SUPPLY BEFORE REPLACING LAMP! FIXTURE MUST COOL FOR 60 MINUTES BEFORE REPLACING LAMP!

NEVER TOUCH LAMP WITH BARE HANDS, ALWAYS WEAR GLOVES! OIL FROM HANDS WILL SHORTEN LIFE OF LAMP!

MAKE SURE ALL COVERS/PANELS ARE REPLACED/SECURED BEFORE OPERATING FIXTURE TO PREVENT ANY RISK AND/OR DAMAGE TO EYE RETINA FROM UV RADIATION EXPOSIURE!

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

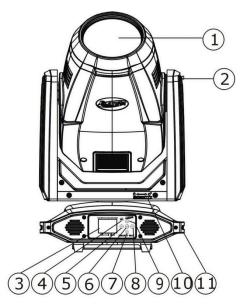
Regular inspections are recommended to insure proper function and extended life.

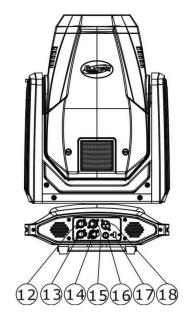
There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation dealer.

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 OVERVIEW





SAFETY CABLE ATTACHMENT

- 1. Lens
- 2. TILT Lock
- 3. LCD Control Menu Display
- 4. MODE/ESC Button
- 5. LEFT Button
- 6. ENTER Button
- 7. DOWN Button
- 8. **RIGHT Button**
- 9. UP Button
- 10. PAN Lock
- 11. Handel (s)
- 12. RJ45 Ethernet IN
- 13. RJ45 Ethernet OUT
- 14. 5pin DMX OUT
- 15. 5pin DMX IN
- 16. Fuse
- 17. Service Port
- 18. Power IN





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

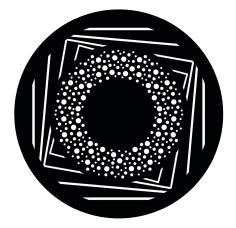
COLORS, GOBOS, ANIMATION

Color Wheel	Color Flags
Red	Cyan
Green	Magenta
Yellow	Yellow
Purple	
Cyan	
Orange	_
Magenta	
Light Green	
Pink	
UV Filter	
CTB	
СТО	
Blue	

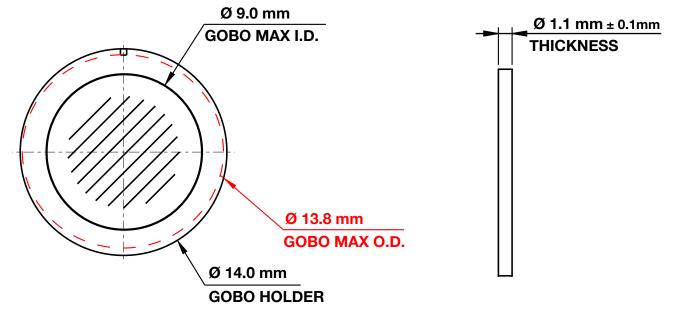
INTERCHANGEABLE-ROTATING GLASS GOBO WHEEL 1



BI-DIRECTIONAL ANIMATION WHEEL



GOBO SIZE



ROTATING GLASS GOBOS - WHEEL 1	
Gobo O.D. (Max. Outer Diameter)	Ø 13.8mm
Gobo I.D. (Max. Image Diameter)	Ø 9.0mm
Gobo Holder Diameter	Ø 14.0mm
Gobo Thickness	Ø 1.1mm ±0.1mm
Gobo Material	BOROFLOAT GLASS

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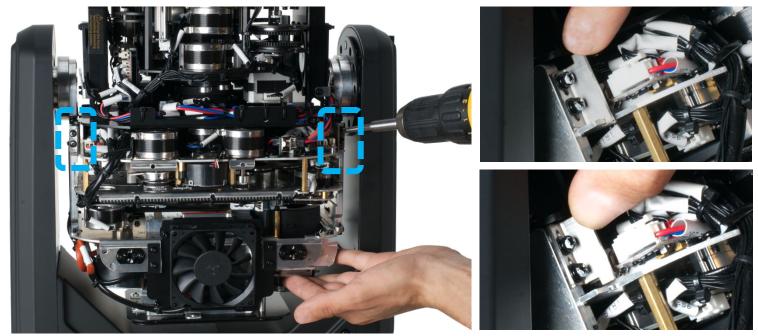
1. Before removing covers, place fixture on a stable flat surface in an **INDOOR DUST FREE** location. Ensure moving head is locked into a neutral upright position with both PAN and TILT locks engaged.



2. Unfasten and remove the front and back panels; each are secured with (2x) ¹/₄-turn Phillips-head screws. (These screws are integrally installed in both panels and cannot be removed.) With the panel screws unfastened, unclip their safety cables to remove them completely from the fixture. For safety and ease of access, the fixture can be locked at a 45° angle.







3. Locate the two slotted brackets which secure the GOBO Wheel Module to the frame, each held with two Phillips-head screws. Loosen the (4x) Phillips-head screws, which will allow the slotted brackets to slide up. Slide the two slotted brackets up as shown above right.



4. Locate the 9-pin GOBO Wheel Module connector and carefully unplug it from the connector base.

CAUTION! DO NOT USE FORCE TO REMOVE CONNECTOR!



5. Impeding the removal of the GOBO Wheel Module is the Zoom Lens, which is set within the lens housing aperture. Position the moving head down so the lens is facing down as well. This will allow gravity to drop the Zoom Lens out of the aperture. With the Zoom Lens dropped out of the way, carefully grip the GOBO Wheel Module, and slide it out and away to clear the mounting rails, and then carefully place the module on a stable flat surface in an **INDOOR DUST FREE** location.





6. REPLACING A ROTATING GOBO

Locate the specific Rotating GOBO to replace. Carefully grip the GOBO Holder using needle nose pliers (or equivalent) and the ring/tab with a precision pick (or equivalent) and gently lift it slightly to pull it out and away until it fully clears the GOBO Wheel.

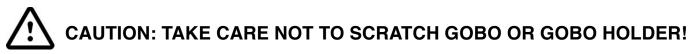


7. REPLACING A ROTATING GOBO

Locate the tab of the spring, and with a precision pick (or similar tool), carefully press retaining spring inward to relieve tension.



8. Remove the retaining spring and carefully separate the GOBO from the GOBO Holder. Install the replacement Rotating GOBO following the steps above in reverse order.



To ensure a proper/safe lamp change, carefully read all the following instructions.

USE ONLY GENUINE ORIGINAL PHILIPS™ LAMPS. OTHER BRAND LAMPS WILL CAUSE DAMAGE AND WILL VOID FIXTURE WARRANTY!



DISCONNECT THE MAIN POWER SUPPLY BEFORE REPLACING LAMP! FIXTURE MUST COOL FOR 60 MINUTES BEFORE REPLACING LAMP!

NEVER TOUCH LAMP WITH BARE HANDS, ALWAYS WEAR GLOVES! OIL FROM HANDS WILL SHORTEN LIFE OF LAMP!

MAKE SURE ALL COVERS/PANELS ARE REPLACED/SECURED BEFORE OPERATING FIXTURE TO PREVENT ANY RISK AND/OR DAMAGE TO EYE RETINA FROM UV RADIATION EXPOSIURE!

LAMP PROTECTION CIRCUITRY

The fixture LCD Menu Control Display will indicate the lamp life and related lamp warnings with each power ON, each lamp strike, and when specific lamp hours are reached. The table below provides details on each lamp life warning. Due to the extreme heat associated with the lamp and the nature of the internal optical system, it is **IMPERATIVE** the lamp is replaced when the LCD Menu Control Display indicates replacement is needed. This is done to protect the internal optical system as well as prevent accidental lamp explosion, which could lead to hot glass particles falling from the fixture.

Total Lamp Hours = X – 20%

LCD display will slowly blink with a YELLOW outline and the following warning for 10 mins: "LAMP LIFE left "X" hours. Please change lamp soon"

Sending a DMX value of 250-251 in Channel 24 (Standard Mode) or Channel 34 (Extended Mode) from the lighting controller or pressing the OK button on the fixture control panel will clear this warning.

Total Lamp Hours = X up to X + 20%

LCD display will slowly blink with a RED outline and the following warning for 10 mins: "LAMP LIFE exceeded by "X" hours. Please change lamp immediately"

Sending a DMX value of 250-251 in Channel 24 (Standard Mode) or Channel 34 (Extended Mode) from the lighting controller or pressing the OK button on the fixture control panel will clear this warning.

Total Lamp Hours = X + 20% and higher

LCD display will slowly blink RED Outline and the following warning:

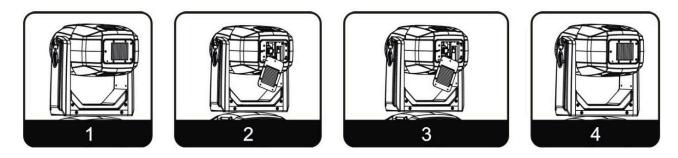
"Lamp Life "X" hours. Danger of lamp explosion and permanent fixture damage. Replace lamp immediately! User assumes all risks"

This error can ONLY be cleared when the lamp hours are reset.

LAMP LIFE OF PHILIPS PLATINUM 400L FLEX = UP TO 4,000 HOURS

Lamp hours are calculated in real time by a smart algorithm combining periods of full output and periods of hibernation with the shutter closed. To reach 4,000 hours the fixture must be operated in average entertainment usage patterns that contain cycles of closed shutters to enter hibernation mode. On average this will allow to the fixture to reach 4,000 hours under common entertainment operation cycles as defined by Philips as 30% operation, 70% hibernation. In the rare case that the fixture Smarty would be turned on, shutter opened and never closed again the lamp life is 1,500 hours. Lamp life idle, total time and an estimated total lamp life % are provided in the display of the fixture.

LAMP INSTALLATION PROCEDURE





WARNING! LAMP REPLACEMENT SHOULD ONLY BE DONE BE A TRAINED TECHNICIAN.

- 1. Turn OFF power and allow approximately 60 minutes for the fixture to cool down.
- Place fixture on a stable flat surface in an INDOOR DUST FREE location, and position moving head into a 90 degree position with both PAN and TILT locks engaged.
- 3. Remove (3) Philips-head screws marked "A", "B", and "C" to remove lamp access panel.



LAMP INSTALLATION PROCEDURE

4. Remove the (2x) spade receptacle-terminals connected to the lamp base.





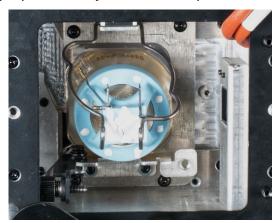
5. Loosen the large black slotted screw holding down the hinged lamp retention clip bar. Pull the bar out away and push to the side.





6. Squeeze the retention clip and pull clip up and away from the lamp.





LAMP INSTALLATION PROCEDURE

7. Gently grab lamp base with thumb and index finger and pull lamp out from fixture.



- **8.** Using thumb and index finger, gently install the new lamp. Position lamp so it is seated properly, then swing down the retention clip, squeezing the ends to lock/secure the lamp into place.
- 9. Brush away any debris as this could compromise fixture performance.



- 10. Gently attach (2x) spade receptacle-terminals securely to the base of the lamp.
- 11. Replace lamp access panel and secure (3) Philips-head screws marked "A", "B", and "C".
- 12. Be sure to reset the LAMP HOURS in the system menu to prevent the protection circuitry from accidently shutting off the lamp during normal operation. If the lamp protection circuitry has already been initiated and the LAMP HOURS is not reset, the "Replace the Lamp" warning will continue to flash, and fixture will eventually shut down. To reset LAMP HOURS, see instructions on the next page.

LAMP HOURS RESET PROCEDURE

- 1. Activate the main menu by pressing MODE/ESC and toggle to "Information".
- 2. Press ENTER and press UP or DOWN to toggle to "Time Information".
- 3. Press UP or DOWN to toggle to "LampTime Password" and press ENTER.

Press **UP** or **DOWN** to enter the reset pass code, "038" and press **ENTER** to confirm. The display will automatically revert to "**LampTime Password**", next press **UP** or **DOWN** to toggle down to "Clean Lamp Time".

4. Press **ENTER** and select "**ON**". The lamp timer has now been reset, press **MODE/ESC** to exit the menu and return to the home screen.

LAMP OPTIMIZATION

Unlike traditional discharge lamps the **Philips MSD Platinum 400L FLEX** lamp does **NOT** require optimization. The lamp orientation and optimization procedure has been preset during the manufacturing process of the lamp. The lamp is **NOT** a hot-restrike lamp therefore, you must wait approximately **10 minutes** before attempting to restrike once it has been turned off.

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.



MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 49.2 FEET (15 METERS)



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



MAXIMUM TEMP OF EXTERNAL SURFACE 248° F (120°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 **14° to 113°F. (-10° 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 **60 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 ¹/₄ 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

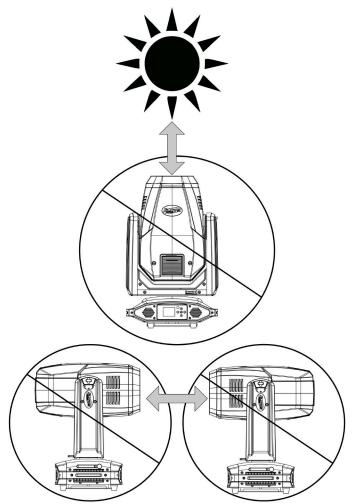
FIXTURE INSTALLATION

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.

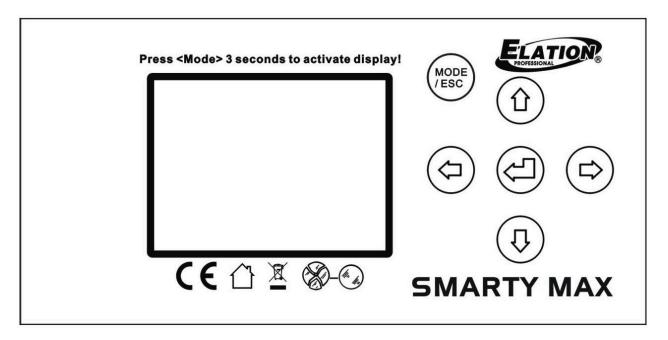
This issue is not specific only to ELATION lighting fixtures, it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can prevent any potential damage from occurring if followed. Contact ELATION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



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 5 seconds. The LCD Menu Control Display will shut **OFF** automatically about 1 minute from the last button press.



			- Supports Software V		
Features are subject	to change without notice. *Rotat SUB MENU		rclockwise) of effects depends on orie (Default Settings in BOLD)	ntation of the fixture head and Pan/Tilt settings. DESCRIPTION	
	Set Dmx Address	A001~AXXX		DMX Address Setting	
	Dmx Value	AUU1~AXXX ALL		DMX Value Display	
FUNCTION	Slave Mode Slave1, Slave2, Slave3		3	Slave Setting	
		Master / Alone	5	Auto Program	
	Auto Program	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	
			Total Time xxxx (Hours)	Total Lamp Time Usage	
			Active Time xxxx (Hours)	Active Lamp Time Usage	
		Lamp Time Info	Idle Time xxxx (Hours)	Idle Lamp Time	
	Time Information		Lamp Life (% Percent)	Lamp Life	
		Lamp Off Time	xxxx (Hours)	Lamp OFF Time	
		LastRun Password	Password = 038	(PSWD Required)	
INFORMATION		Clear Last Run	ON / OFF	Clear Fixture Last Run Time	
		LampTimePassword	Password = 038	(PSWD Required)	
		Clear Lamp Time	ON / OFF	Clear Lamp Run Time	
		Head Temperature	xxx C° / F °	Temperature in Fixture Head	
	Temperature Info	Base Temperature	xxx C° / F °	Temperature in Fixture Base	
	Ethernet IP			Displays Fixture Ethernet Address	
	Fan Info	xxxx RPM	7000 - 7000 - 7000	Speeds of Head/Base Fans	
	Error Info	Error Record 1 ~ Error	Record 10	Fixture Last 10 Error Codes	
	Software Version	1U01: - 10U01:	≥V1.3.1	Software Version	
	Lamp On/Off			Lamp ON/OFF	
	Automatic On	ON/OFF		Lamp ON/OFF when Power ON	
	Lamp On via DMX	ON/OFF	Lamp ON via DMX		
CONTROL	Lamp Off via DMX	ON/OFF	Lamp OFF via DMX		
	Lamp Power Mode	480W, 470W , 370W		Lamp Power Mode	
	· · · ·	Address via DMX	ON/OFF	Address Via DMX	
		No DMX Status	Close / Hold / Auto	Fixture State When NO DMX Signal	
	Status Settings	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	Set Movement Speed	
		Hibernation	OFF, 01M~99M, 15M	Standby Mode	
		P/T Brake Mode	Smooth, Fast	Set Pan / Tilt Brake Mode	
		Password	Password=050	Service Password	
		RDM UID	22A6xxxxxxx	RDM PID Code (PSWD Required)	
		Clear Err. Info	ON/OFF	Clear Error Info (PSWD Required)	
	Service Setting	DFLT Pow. LampOn	ON/ OFF	Set Lamp Default Power State	
PERSONALITY		DFLT Pow. Efly On	ON/ OFF	Set E-FLY Default Power State (E-FLY Optional)	
		USB Uspdate	YES/NO	Service Port - Software Updates	
		Shutoff Time	02~60m 05m	Display Shut Off Time	
	Display Setting	Display Reverse	AUTO, ON, OFF	Display Reverse 180°	
		Key Lock	ON/ OFF	Key Lock	
	Temperature C/F	Celsius/Fahrenheit		Temperature Switch Between C°/ F°	
	Initial Status	Control =XXX		Initial Effect Position	
	Select Signal		Y, E-FLY & Out, Art-Net, sACN	Activate Signal Protocol (E-FLY Optional)	
	Ethernet IP	XXX . XXX . XXX . XX		Ethernet IP	
	Ether Mask IP	XXX . XXX . XXX . XX	x	Ethernet Mask IP	
	Set Universe	000 - 32767		Set Art-Net Universe	
	Set E-FLY Chn	00 – 14		Set E-FLY Channel (E-FLY Optional)	
	Dimmer Curve	Linear, Square, Invers		Set Dimmer Curve Mode	
	Reset Default	ON/OFF	Password = 011	Restore Factory Settings (PSWD Required)	

	ELATION SMARTY I	MAX SYSTEM MENU	- Supports Software	Versions: ≥ 1.3.1	
				ntation of the fixture head and Pan/Tilt settings.	
MAIN MENU	SUB MENU	OPTIONS / VALUES	(Default Settings in BOLD)	DESCRIPTION	
	Reset All			Reset All Motors	
	Reset Pan&Tilt			Reset Pan/Tilt	
Reset Function	Reset Colors			Reset Color Wheel	
Reset Function	Reset Gobos			Reset Gobos	
	Reset Shutter			Reset Shutter	
	Reset Others			Reset Other Motors	
	Test Channel	PAN		Test function	
Effect Adjust	Manual Control	PAN =XXX,		Fine Adjustments	
	Calibration	Calibration Password		Password 050 (PSWD Required)	
	User Mode	Standard Mode		DMX Channel Modes	
	User wode	Extended Mode			
User Mode Set		Edit User Mode A	Max Channel = XX	Edits User Defined	
	Edit User Mode	Edit User Mode B		Channel Assignments	
		Edit User Mode C	PAN = CH01	onannei Assignments	
		Auto Pro Part1 = Program 1~10 (Program 1)			
	Select Program	Auto Pro Part2 = Program 1~10 (Program 2)		Select Programs To Be Run	
		Auto Pro Part3 = Progra	am 1~10 (Program 3)		
		Program 1	Program Test	Testing Program	
	Edit Program	:	Step 01=SCxxx	Program In Loop	
Edit Program		Program 10	Step 64=SCxxx	Save and Exit	
			Pan,Tilt,	Save and Automatically Return	
	Edit Scenes	Edit Scene 001 ~ Edit Scene 250	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.

PERSONALITY - Status Settings - Address Via DMX

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).
- 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).
- 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 - Password (050)

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

PERSONALITY – Service Setting – <u>USB Update</u>

To update the fixture software via the UPDATE/SERVICE PORT, follow steps below.



ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION! NOTE ALL MENU SETTINGS BEFORE UPDATING SOFTWARE! FIXTURE SOFTWARE CAN NOT BE DOWNGRADED! DOWNLOAD FIXTURE SOFTWARE TO PC ONLY! (NO MAC SUPPORT) PLEASE CONTACT ELATION SERVICE FOR FURTHER INFORMATION.

- 1. Copy fixture software update file from a PC computer to a compatible USB flash drive. Make sure only the fixture software update file is stored on the USB flash drive.
- 2. Disconnect DMX, Art-Net, and E-FLY connections and power the fixture ON.
- 3. Insert USB flash drive into the UPDATE/SERVICE PORT on the rear connection panel.
- 4. Navigate to the Personality main menu Service Setting / USB Update sub menu.
- 5. Select the software file name on the menu display and press **ENTER**.
- 6. Select **YES** to begin update process and **Updating...%** will show on the menu display.
- 7. After file is uploaded, the fixture will check the software which will take some time. The fixture will perform a reset process when the software update process is complete.
- 8. Remove the USB flash drive and make necessary system menu setting adjustments.

PERSONALITY - Display Setting – Key Lock

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 - Reset Default

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 – Test Channel

Auto test each individual channel function independently from the DMX control board.

EFFECT ADJUST – Manual Control

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 - Calibration

ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION!

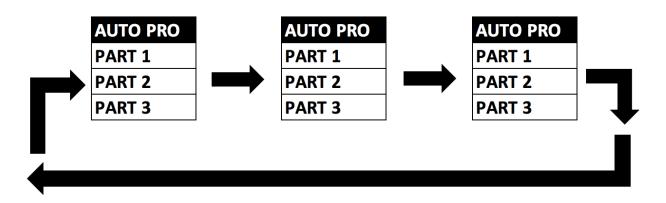
This function allows small adjustments to be made to the Pan, Tilt, and Zoom movements to compensate for ware or in the event a sensor has been knocked slightly out of place. Because improper use of this function can result in undesired operation this function has been password protected. The password 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.

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 Master unit can send up to 3 different data groups to the Slave units, i.e. a Master unit can start 3 different Slave units, which run 3 different programs. The Master unit sends the 3 program parts in a continuous loop.



The Slave unit receives data from the Master unit according to the group which the Slave unit was assigned to. If e.g. a Slave unit is set to **"Slave 1"** in the menu **"Set to Slave"**, the Master unit sends **"Auto Program Part 1"** to the Slave unit.

If set to "Slave 2", the Slave unit receives "Auto Program Part 2".

EDIT PROGRAM – Record Controller – Working with Built-In Program [continued]

To start an Auto Program, proceed as follows:

Slave Setting
 Select "Function Mode".
 Press ENTER to confirm.
 Select "Set to Slave".
 Press ENTER to confirm.
 Select "Slave 1", "Slave 2" or "Slave 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 "Master" 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 Slave program is to be sent. Selection "Part 1" means, that the Slave unit runs the same program as the master 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.

EDIT PROGRAM – Record Controller – Working with Built-In Program [continued]

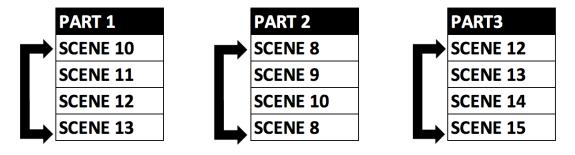
5. Automatic Scene Recording

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 Slave groups run the Auto Program in certain 1

The 3 Slave groups run the Auto Program in certain time segments. (See chart below)



DMX CHANNEL FUNCTIONS AND VALUES

			ELATION SMARTY MAX™				
	DMX	Channel	Values / Functions (44 Total DMX Channe	ls)			
		Su	pports Software Versions: ≥ 1.3.1				
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	Default	Snap		
4			PAN				
1	1	0-255	Movement				
0	0		PAN FINE				
2	2	0-255	Fine Movement				
3 3	0		TILT				
3	3	0-255	Movement				
4			TILT FINE				
4	4	0-255	Fine Movement				
			CYAN				
5	5	0-255	0 → 100%				
	6		CYAN FINE				
	6	0-255	Fine Adjustment				
C	7		MAGENTA				
6	/	0-255	0 → 100%				
	0		MAGENTA FINE				
	8	0-255	Fine Adjustment				
7	0		YELLOW				
7	9	0-255	0 → 100%				
	10		YELLOW FINE				
	10	0-255	Fine Adjustment				
0			СТО				
8	11	0-255	0 → 100%	1			
	40		CTO FINE				
	12	0-255	Fine Adjustment				

Standard	Extended	Value	Function	Default	Snap
			COLOR WHEEL		
		0-10	Open		
		11-19	Red		
		20-28	Green		
		29-37	Yellow		
		38-46	Purple		
		47-55	Cyan		
		56-64	Orange		
		65-73	Magenta		
	9 13	74-82	Light Green		
0		83-91	Pink		
9	13	92-100	UV FILTER		
		101-109	СТВ		
		110-118	СТО		
		119-127	Blue		
		128-180	Color Scroll CW FAST \rightarrow SLOW		
		181	Stop		
		182-234	Color Scroll CCW SLOW \rightarrow FAST		
		235-239	Random Colors FAST		
		240-244	Random Colors MEDIUM		
		245-249	Random Colors SLOW		
		250-255	Open		
	14		COLOR WHEEL FINE		
	14	0-255	Fine Control of Color Wheel Position		

	Extended	Value	Function	Default	Snap
			ROTATING GOBOS [GOBO WHEEL 1]		
		0-10	BEAM Open		
		11-21	SPOT Open		
		22-31	Rotating Gobo 1		
		32-41	Rotating Gobo 2		
		42-51	Rotating Gobo 3		
		52-61	Rotating Gobo 4		
		62-71	Rotating Gobo 5		
		72-81	Rotating Gobo 6		
		82-91	Rotating Gobo 7		
10	15	92-101	Rotating Gobo 8		
		102-112	Rotating Gobo 1 Shake SLOW to FAST		
		113-123	Rotating Gobo 2 Shake SLOW to FAST		
		124-134	Rotating Gobo 3 Shake SLOW to FAST		
		135-145	Rotating Gobo 4 Shake SLOW to FAST		
		146-156	Rotating Gobo 5 Shake SLOW to FAST		
		157-167	Rotating Gobo 6 Shake SLOW to FAST		
		168-178	Rotating Gobo 7 Shake SLOW to FAST		
		179-189	Rotating Gobo 8 Shake SLOW to FAST		
		190-221	Gobo Scroll CW FAST to SLOW		
		222-223	STOP		
		224-255	Gobo Scroll CCW SLOW to FAST		
			ROTATING GOBOS INDEXING [GOBO WHEEL 1]		
		0-127	Gobo Indexing		
11	16	128-189	Gobo Scroll CW FAST to SLOW		
		190-193	NO Rotation		
		194-255	Gobo Scroll CCW SLOW to FAST		
	17		ROTATING GOBOS INDEXING FINE [GOBO WHEEL 1]		
		0-255	Fine Control of Rotating Gobos Indexing		

	Extended	Value	Function	Default	Snap
			FIXED GOBOS [GOBO WHEEL 2]		
		0-7	Open		
		8-14	Gobo 1		
		15-21	Gobo 2		
		22-28	Gobo 3		
		29-35	Gobo 4		
		36-42	Gobo 5		
		43-49	Gobo 6		
		50-56	Gobo 7		
		57-63	Gobo 8		
		64-70	Gobo 9		
		71-77	Gobo 10		
		78-84	Gobo 11		
		85-91	Gobo 12		
		92-98	Gobo 13		
		99-105	Gobo 14		
12	18	106-111	Gobo 1 Shake SLOW to FAST		
		112-117	Gobo 2 Shake SLOW to FAST		
		118-123	Gobo 3 Shake SLOW to FAST		
		124-129	Gobo 4 Shake SLOW to FAST		
		130-135	Gobo 5 Shake SLOW to FAST		
		136-141	Gobo 6 Shake SLOW to FAST		
		142-147	Gobo 8 Shake SLOW to FAST		
		148-153	Gobo 9 Shake SLOW to FAST		
		154-159	Gobo 10 Shake SLOW to FAST		
		160-165	Gobo 11 Shake SLOW to FAST		
		166-171	Gobo 12 Shake SLOW to FAST		
		172-177	Gobo 13 Shake SLOW to FAST		
		178-183	Gobo 14 Shake SLOW to FAST		
		184-189	Gobo 8 Shake SLOW to FAST		
		190-221	Gobo Scroll CW FAST to SLOW		
		222-223	NO Rotation		
		224-255	Gobo Scroll CCW SLOW to FAST		
			FIXED GOBO WHEEL INDEXING FINE		
	19		[GOBO WHEEL 2]		
		0-255	Fine Control of Fixed Gobo Wheel 2 Indexing		

standard	Extended	Value	Function	Default	Sna
			ROTATING PRISM, PRISM / GOBO MACROS		
		0-63	Open		
		64-95	8 Facet Prism		
		96-127	6 Facet Linear		
		128-135	Macro1		
		136-143	Macro2		
		144-151	Macro3		
		152-159	Macro4		
		160-167	Macro5		
10	00	168-175	Macro6		
13	20	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		
			ROTATING PRISM INDEXING		
		0-127	Prism Indexing		
14	21	128-189	Prism Rotation CW FAST to SLOW		
		190-193	NO Rotation		
		194-255	Prism Rotation CCW SLOW to FAST		
	22		ROTATING PRISM INDEXING FINE		
	22	0-255	Prism Indexing Fine Control		
			ROTATING PRISM 2		
		0-63	Open		
15	23	64-95	16 Facet Prism		
		96-127	4 Facet Linear Prism		
		128255	Reserved		
			ROTATING PRISM 2 INDEXING		
		0-127	Prism 2 Indexing		
16	24	128-189	Prism 2 Rotation CW FAST to SLOW		
		190-193	NO Rotation		
		194-255	Prism 2 Rotation CCW SLOW to FAST		
	05		ROTATING PRISM 2 INDEXING FINE		
	25	0-255	Prism 2 Indexing Fine Control		

tandard	Extended	Value	Function	Default	Sna
17	26		FOCUS		
17	20	0-255	Focus Adjustment from NEAR to FAR		
	27		FOCUS FINE		
	21	0-255	Focus Fine Adjustment from NEAR to FAR		
18	28		ZOOM		
10	20	0-255	Zoom Adjustment from NARROW to WIDE		
	29		ZOOM FINE		
	29	0-255	Zoom Fine Adjustment		
			AUTO FOCUS		
		0-50	Auto Focus Off		
	00	51-100	5 Meters (16.4 ft)		
	30	101-150	7.5 Meters (24.6 ft)		
		151-200	10 Meters (32.8 ft)		
		201-255	15 Meters (49.2 ft)		
	04		AUTO FOCUS FINE		
	31	0-255	Fine Control of Focus Adjustment		
			STROBE		
	32	0-31	Shutter Closed		
		32-63	NO Function (Shutter Open)		
		64-95	Strobe SLOW to FAST		
19		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)		
			DIMMER		
20	33	0-255	$0 \rightarrow 100\%$		
			DIMMER FINE		
21	34	0-255	Fine Dimming		
			IRIS		
		0-191	MAX Diameter to MIN Diameter		
22	35	192-223	Pulse Closing FAST to SLOW		
		224-255	Pulse Opening SLOW to FAST		
			IRIS FINE		
	36	0-255	Fine Control of Iris		
			FROST 1		
23	37	0-255	MIN to MAX	—	
			FROST 2		
24	38	0-127	MIN to MAX		
	· I			I	

Standard	Extended	Value	Function	Default	Snap
			ANIMATION WHEEL		
25	39	0	Open		
	39	1-127	Animation Track 1		
		128-255	Animation Track 2		
26	40		ANIMATION WHEEL, INDEX ROATIONI		
		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		
	41		SPEED of CMY & Color Macro		
		0-255	Speed MAX to MIN		
		0.01	COLOR MACROS - CMY & Color Wheel OFF		
		0-31 32-39	Macro1		
		40-47	Macro2		
		40-47			
		46-55 56-63	Macro3		
		64-71	Macro4		
			Macro5		
		72-79	Macro6		
	42	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		
		270-233	PAN / TILT SPEED		
	-	0-225			
	43		Speed MAX to MIN		
	ŀ	226-235	Blackout by All Wheel Changing		
		236-255	NO Function		

Standard	Extended	Value	Function	Default	Snap
			CONTROL		
		0-19	Color Change Normal		
		20-29	Color Change to Any Position		
		30-39	Color and Gobo Change to Any Position		
		40-49	Lamp ON		
		50-59	Lamp OFF		
		60-66	Lamp Power 370W		
		67-73	Lamp Power 470W		
		74-79	Lamp Power 480W		
		80-84	All Motor Reset		
27	44	85-87	Pan and Tilt Motor Reset		
		88-90	Color Motor Reset		
		91-93	Gobo Motor Reset		
		94-96	Shutter and Dimmer Motor Reset		
		97-99	Other Motor Reset		
21		100-180	Idle		
		181-190	Pan Tilt Smooth (default)		
		191-200	Pan Tilt 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		
		242	Internal Program 2		
		243	Internal Program 3		
		244	Internal Program 4		
		245	Internal Program 5		
		246	Internal Program 6		
		247	Internal Program 7		
		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 have 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				
TILT Er	motor or a defective motor IC drive on the main PCB). This error may also be displaye if the head/yoke was blocked during a reset function.				
Zoom Er					
Focus Er					
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-				
Cyan Color Er					
Magenta Color Er					
Yellow Color Er					
CTO Color Er					
Rot Gobo Er					
Gobo Rot Er					
Fix Gobo Er					
Animation Er	indexing circuit malfunctions (sensor failed, or magnet is missing)				
AnimationRot Er	or there is a motor failure (defective motor or a defective motor				
Prism Er	IC drive on the main PCB).				
Prism Rot Er					
Prism 2 Er					
Prism Rot 2 Er					
Frost 1 Er					
Frost 2 Er	1				
Iris Er					
Flow Er					

SPECIFICATIONS

SOURCE

Philips MSD Platinum 400 Flex 480W Lamp Variable Lamp Power 370/470/480W Automated Lamp Hibernation with Instant Recovery Up to 4,000 Hour Lamp 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

21,000+ Lumen Total Fixture Output 1.5° Beam: 1,784,448 LUX (165,781 FC) @5m (16.4ft) 3° Spot: 462,508 LUX (42,968 FC) @5m (16.4ft)

Beam

Zoom Range 2° - 20° Beam Angle 0.8° - 6.5° Field Angle 1.8° - 16.2°

Spot

Zoom Range 3° - 30° Beam Angle 1.7° - 14.8° Field Angle 3° - 26.5°

Wash

Zoom Range 9° - 35° Beam Angle 6.8° - 29° Field Angle 12.8° - 39.4°

EFFECTS

Beam, Spot and Wash Modes Motorized Zoom Dual Frost Filter for Light Frost/ Full Wash 4 Prisms on Dual Planes Iris CMY Color, Gobo, Prism Macros Motorized Focus with Auto-Focus Feature High Speed Shutter and Strobe

COLOR

Full CMY Color Mixing System Variable CTO 13 Position Color Wheel

GOBOS

2 Gobo Wheels 8 Interchangeable-Rotating / Indexing Glass Gobos 14 Static-Stamped Metal Gobos Dual Track Animation Wheel

CONTROL / CONNECTIONS

2 DMX Channel Modes (27 / 44 Channels)
(6) Button Touch Panel
Full Color 180° Reversible LCD Menu Display
DMX, RDM, Art-Net and sACN Protocol Support
5pin DMX In/Out
RJ45 Ethernet In/Out
IP65 Locking Power Cable In/Out
With Wired Digital Communication Network

SIZE / WEIGHT

Length: 15.34" (389.8mm) Width: 17.53" (445.3mm) Height: 25.27" (642mm) Weight: 60.0 lbs. (27.2kg)

ELECTRICAL / THERMAL

AC 100-240V 50/60Hz 700 W Max Power Consumption (estimated) 14°F to 113°F (-10°C to 45°C) BTU/hr (+/- 10%) 2387 BTU/hr (+/- 10%) 2387

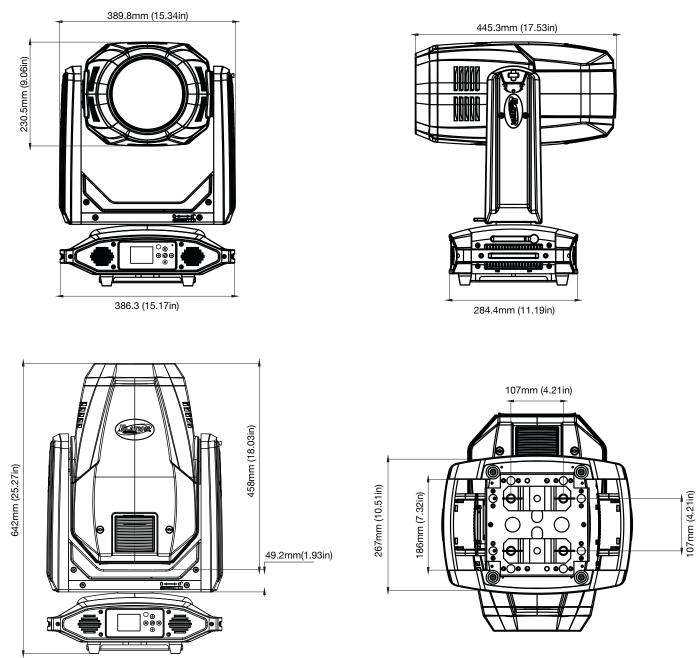
APPROVALS / RATINGS

CE | cETLus | IP20

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

DIMENSIONAL DRAWINGS

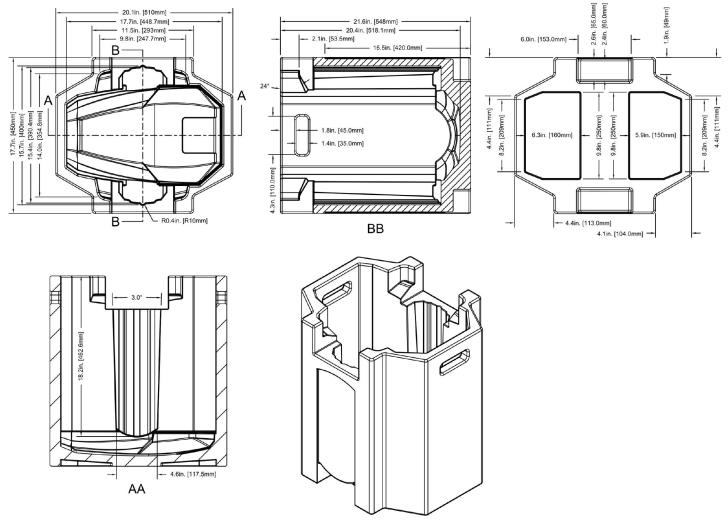
*DRAWINGS NOT TO SCALE



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

DIMENSIONAL DRAWINGS

*DRAWINGS NOT TO SCALE



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

OPTIONAL ACCESSORIES

ORDER CODE	ITEM
ZB-MSD PLATINUM 400L FLEX	Philips Platinum 400L Flex Lamp
DRCPRO004	Road Case for Smarty Max
TRIGGER CLAMP	Heavy Duty Wrap Around Hook Style Clamp
AC5PDMX5PRO	5 ft. (1.5m) 5pin PRO DMX 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

