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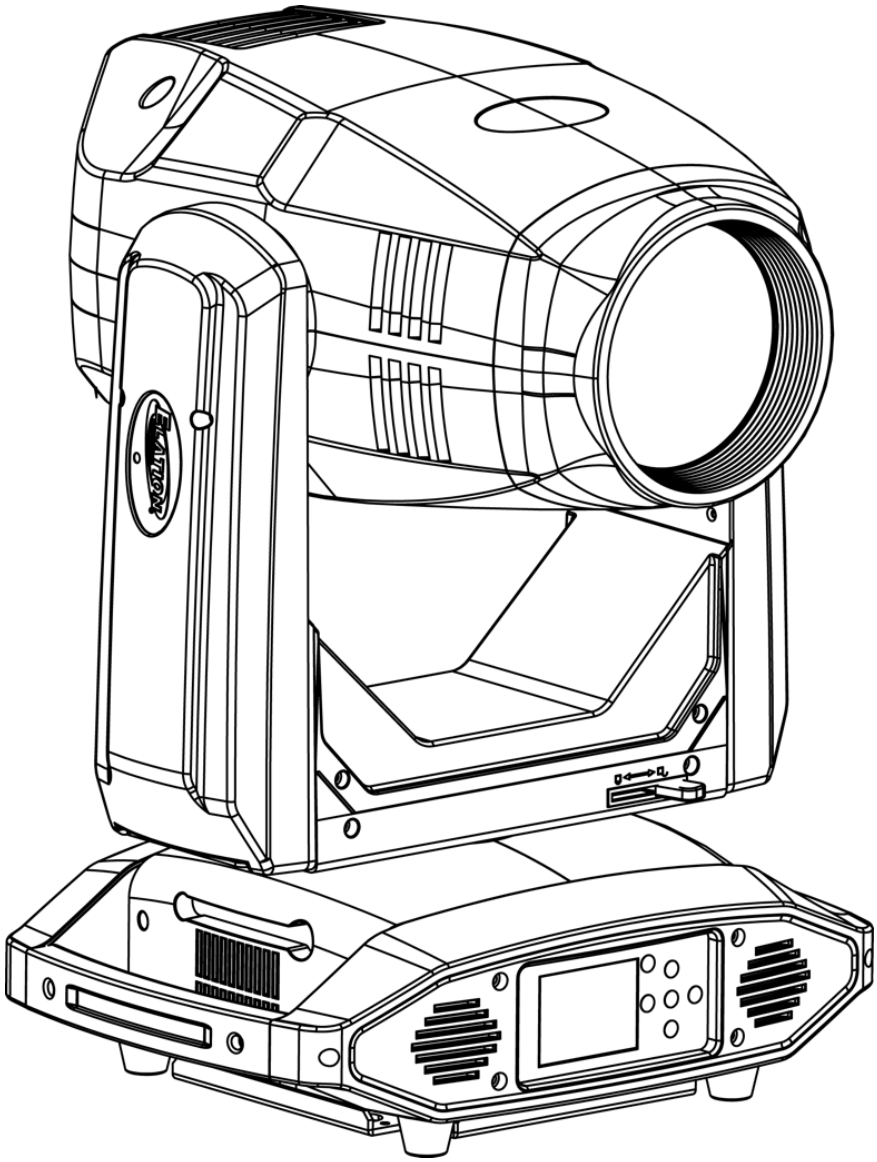

SMARTY HYBRID™

User Manual

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D O C U M E N T V E R S I O N

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
06/13/18	1.0	1.1.2	20 / 34	Initial release.
07/05/18	1.2	N/C	NO CHANGE	Added gobo dimensions, lamp, and road case order #, updated lamp wattage.
07/08/28	2.0	1.2.1	NO CHANGE	Updated DMX traits and system menu, and lamp module.
08/24/18	2.2	1.2.2	NO CHANGE	Added new Lamp Life Warning and text. Updated System Menu.
11/29/18	2.4	N/C	NO CHANGE	Added POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS section.
01/02/19	2.6	1.2.4	CH 24 (Standard) CH 34 (Extended)	Updated DMX traits for CH 24 (Standard) and CH 32 (Extended).
03/12/19	2.8	NO CHANGE	NO CHANGE	Warranty and Specification update.
03/10/21	3.0	NO CHANGE	NO CHANGE	Updated sun protection, FCC, and primary/secondary modes
09/02/22	3.2	1.4.1	NO CHANGE	Added Software Updates
01/12/23	3.4	NO CHANGE	NO CHANGE	Added Handling, Software Service Port Update, FIL Dimensions, RDM, & updated Specifications
05/09/23	3.5	NO CHANGE	NO CHANGE	Added center-to-center dimension
08/03/26	3.6	1.4.3	20 / 34 Ch	Updated: General Info, System Menu, DMX Traits; Added Index

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GENERAL INFORMATION

FOR PROFESSIONAL USE ONLY

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.

COOLING

After usage, the lamp may be switched off, but the fixture should remain connected to power in order to allow the fan time to cool down the fixture.

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

Fixture Interconnect Splice (x1)

Safety Cable (x1)

IP65 Locking Power Cable (x1)

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

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REPLACEMENT PARTS please visit parts.elationlighting.com

It is strongly recommended to power the fixture down completely when not in use. Doing so will reduce wear on the fixture due to sustained or extended operational periods, thereby maximizing its operational lifespan.

GENERAL INFORMATION

LIMITED WARRANTY

For up-to-date warranty information regarding your device, please visit Elation's warranty page online or scan the QR codes below.

USA: https://www.elationlighting.com/warranty-information

EU: https://www.elationlighting.eu/terms_and_conditions

PRODUCT REGISTRATION

To register your product, please visit the page listed below or scan the QR code.

USA: https://www.elationlighting.com/pages/product-warranty-registration

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.

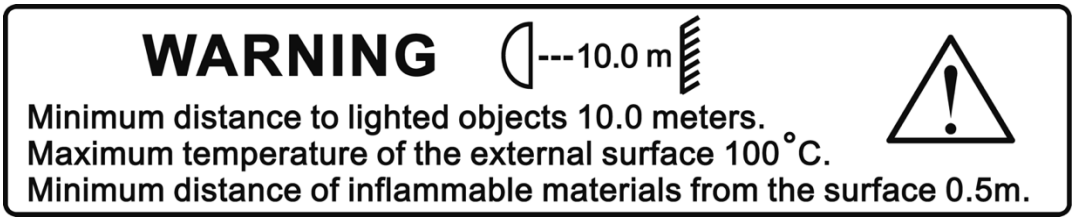
PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED

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!



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 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.

When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always install fixture with an appropriately rated safety cable.

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

During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.

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

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

FIXTURE TRANSPORT AND HANDLING

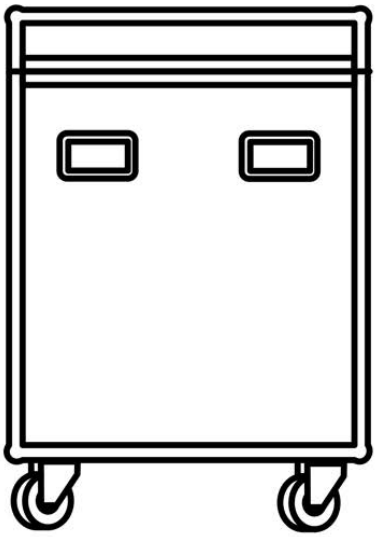
POTENTIAL INTERNAL DAMAGE FROM 'TIPPING' FIXTURE DURING TRANSPORT AND HANDLING

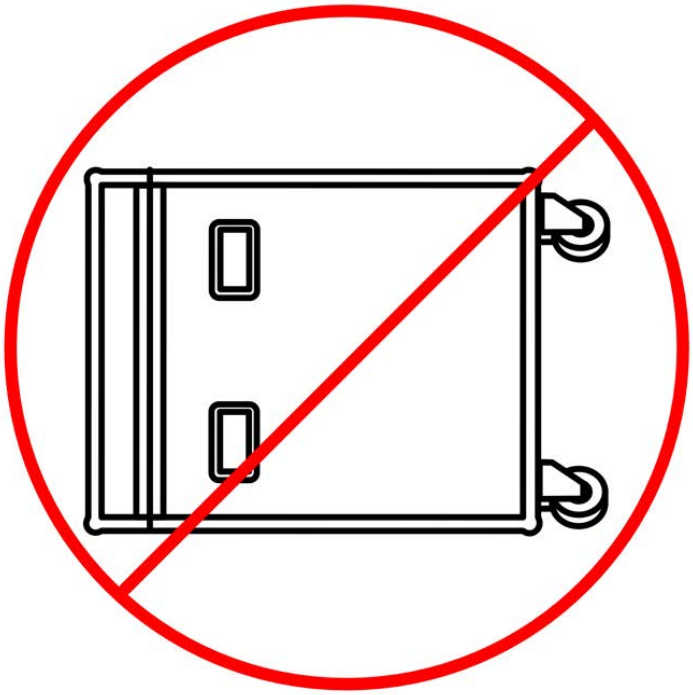
Note that not all features listed are available on all fixtures; the following instructions may not apply.

Depending on the model, large format fixtures may contain delicate optics and glass filters. While this product was carefully designed to be roadworthy, it must be handled carefully during transportation. If the fixture contains color flags, before transport, ensure that color flags inside the unit are placed in an OPEN position.

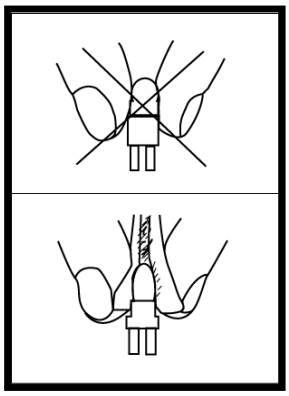
For superior impact protection, some fixtures are shipped in a custom fitted high-density Foam Inlay (FIL). This FIL must be used inside the road-cases for transportation.

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.





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:

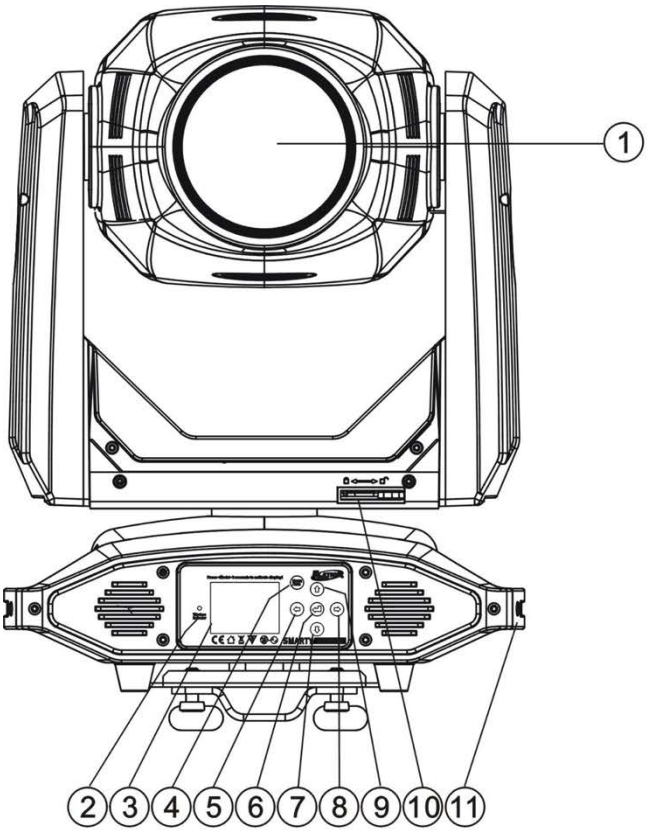
A detailed review by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.

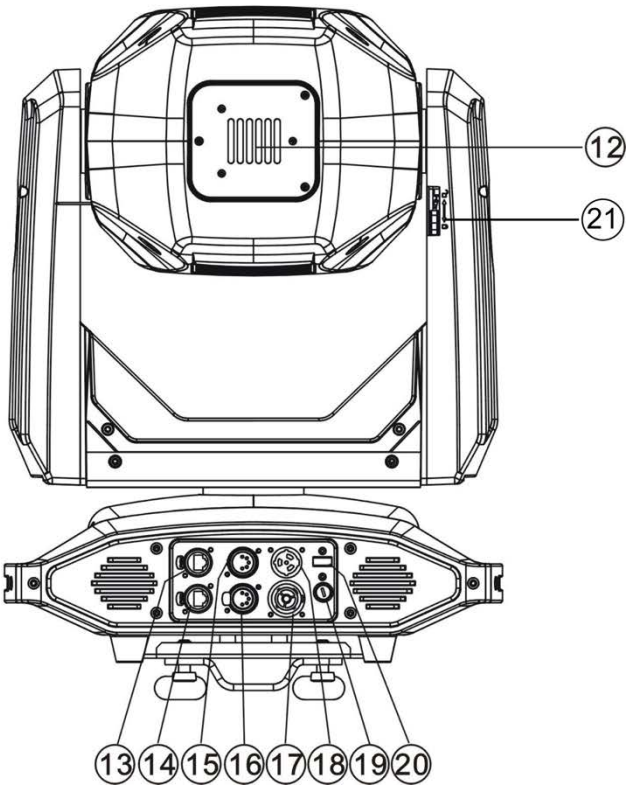
Be sure all screws and fasteners are always securely tightened. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.

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 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





1. Lens
2. Wireless Indicator
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. Handle (s)
12. Lamp Access Panel
13. RJ45 Ethernet IN
14. RJ45 Ethernet OUT
15. 5pin DMX IN
16. 5pin DMX OUT
17. Power IN
18. Power OUT
19. Fuse
20. Service Port
21. TILT Lock

COLORS AND GOBOS

COLOR WHEEL

1 Red 2 Green 3 Yellow 4 Magenta 5 Orange 6 Aqua 7 Pink 8 Cyan 9 RYBG

10 CTB 11 UV 12 CTO 13 Blue

COLOR FLAGS

CYAN MAGENTA YELLOW

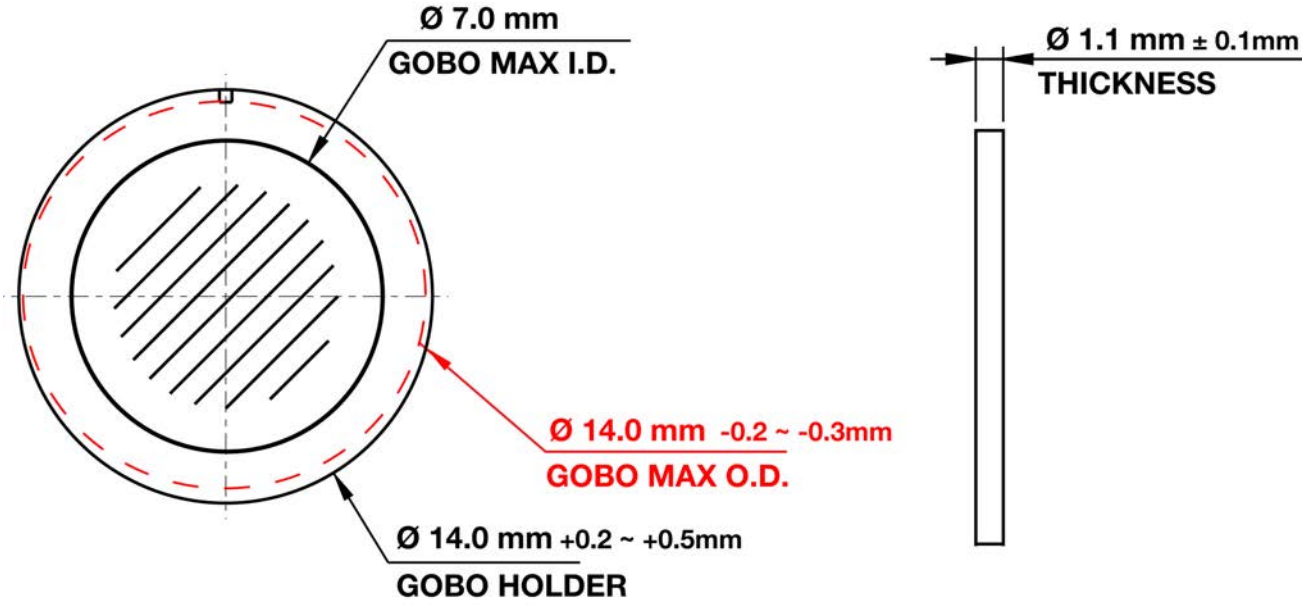
INTERCHANGEABLE-ROTATING GLASS GOBO WHEEL 1

1 2 3 4 5 6 7 8

STATIC-FIXED METAL GOBO WHEEL 2

1 2 3 4 5 6 7 8 9 10 11 12

CUSTOM GOBOS



ROTATING GLASS GOBOS - WHEEL 1	
Gobo O.D. (Max. Outer Diameter)	Ø 14mm -0.2~-0.3mm
Gobo I.D. (Max. Image Diameter)	Ø 7mm
Gobo Holder Diameter	Ø 14mm +0.2~+0.5mm
Gobo Thickness	Ø 1.1mm ±0.1mm
Gobo Material	BOROFLOAT

*** * * 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 that a gobo sample and holder from the fixture be provided 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.

ELATION SERVICE USA - Monday - Friday 8:00am to 5:00pm PST
Voice: 323-582-3322
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ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
Voice: +31 45 546 85 30
E-mail: support@elationlighting.eu

LAMP REPLACEMENT

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.

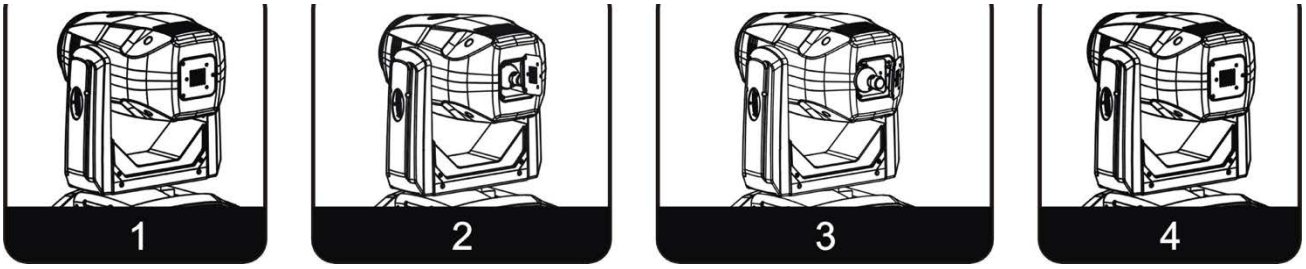
Total Lamp Hours = X – 20% LCD display will slowly blink with a YELLOW outline and the following warning for 10 mins: "**LAMP LIFE left "X" hours. Please change lamp soon**" Sending a DMX value of 250-251 in Channel 24 (Standard Mode) or Channel 34 (Extended Mode) from the lighting controller or pressing 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 REPLACEMENT

LAMP LIFE OF PHILIPS PLATINUM 200 FLEX = UP TO 6,000 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 6,000 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 6,000 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 2,000 hours. Lamp life idle, total time and an estimated total lamp life % are provided in the display of the fixture.

LAMP INSTALLATION PROCEDURE



1. Place fixture on a flat surface and let cool for a minimum of **60 MINUTES**.

2. Remove (3) screws marked **"A"**, **"B"**, and **"C"** to remove lamp access panel.

LAMP REPLACEMENT

LAMP INSTALLATION PROCEDURE [continued]

3. Unlock retention clip and pull clip towards you away from the lamp.
4. Gently grab lamp base with thumb and index finger and pull towards you.
5. Gently remove (2) Wires connected to spade terminals on lamp.
6. Gently pull lamp out towards you away from the fixture.
7. Using thumb and index finger, gently install new lamp into the fixture.
8. Gently attach (2) Wires to spade terminals on the base of the lamp. Make sure both wires are securely attached to the lamp.
9. Install and position lamp so it is seated properly, then secure retention clip.
10. Replace lamp access panel and secure (3) screws marked **"A"**, **"B"**, and **"C"**.
11. 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 below.

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 200 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.

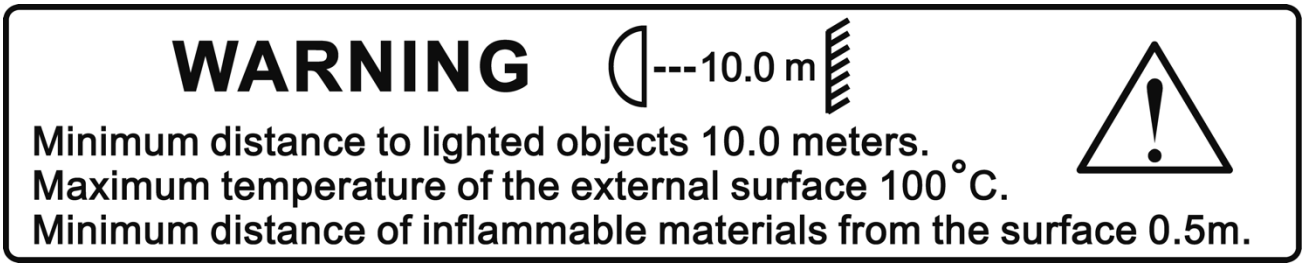
INSTALLATION GUIDELINES

FLAMMABLE MATERIAL WARNING

Keep fixture at least 5.0 feet (1.5m) away from any flammable materials, decorations, pyrotechnics, etc.

ELECTRICAL CONNECTIONS

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



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 the fixture to any metal truss/structure or placing the fixture 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, clamps, cables, and accessories.

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 should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might reach the fixture by hand.

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

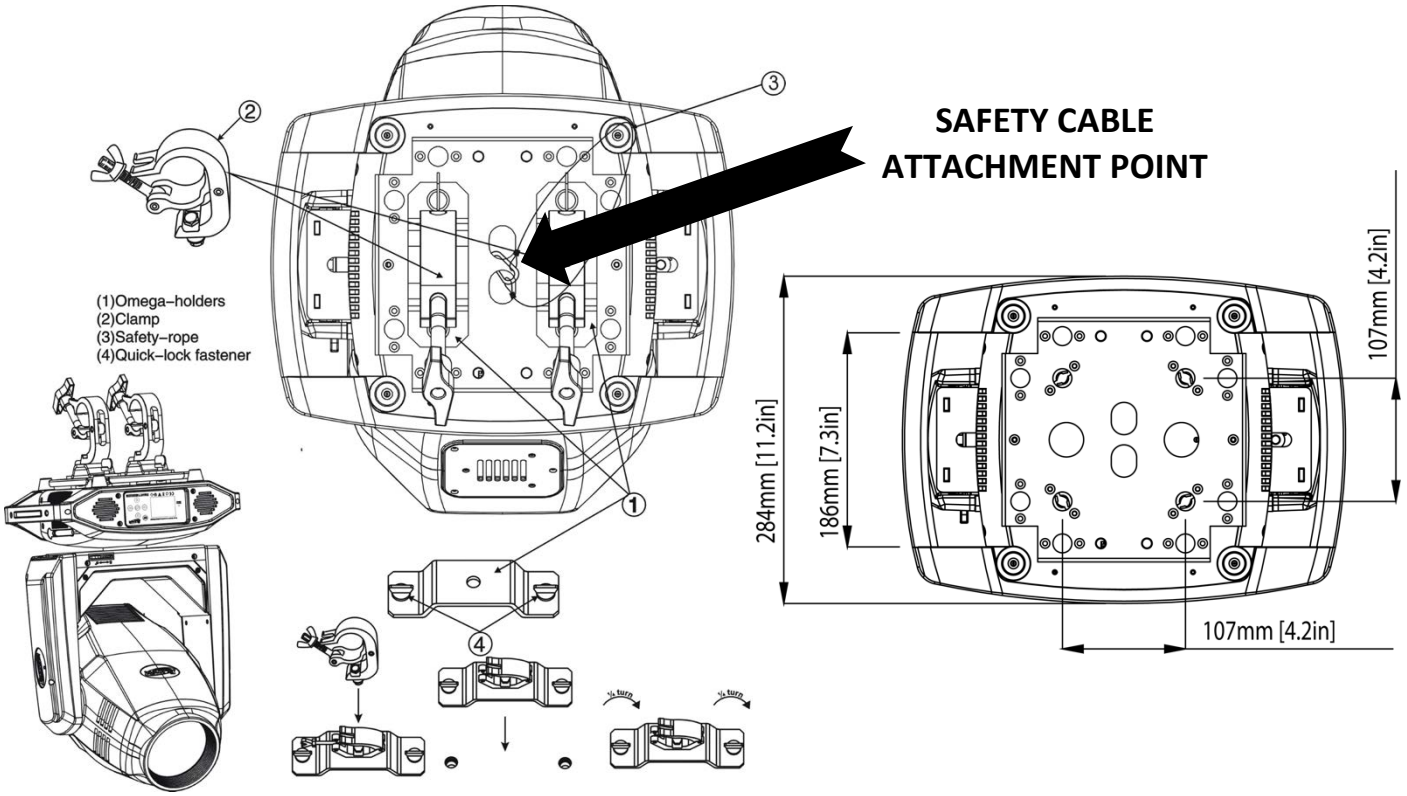
Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

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

INSTALLATION GUIDELINES

OMEGA BRACKETS INSTALLATION

Insert the included 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.



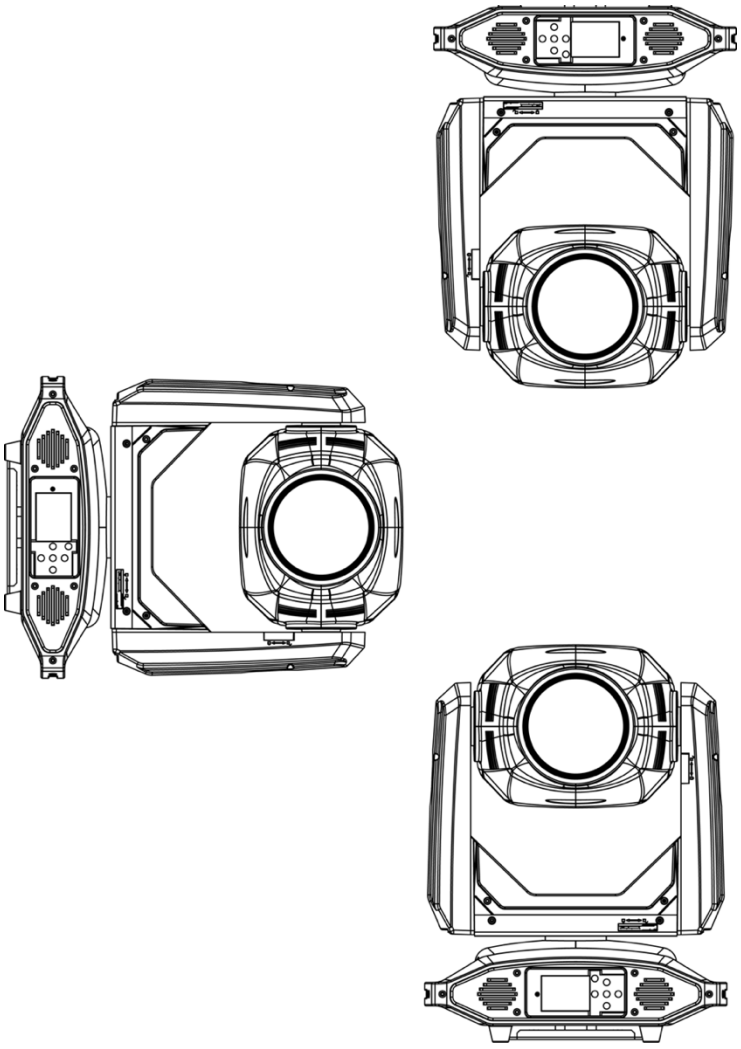
CLAMP INSTALLATION

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 point for a **SAFETY CABLE**. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

INSTALLATION GUIDELINES

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. Fixture is fully operational in the specific mounting positions illustrated below.



SAFETY CABLE

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

ART-NET 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

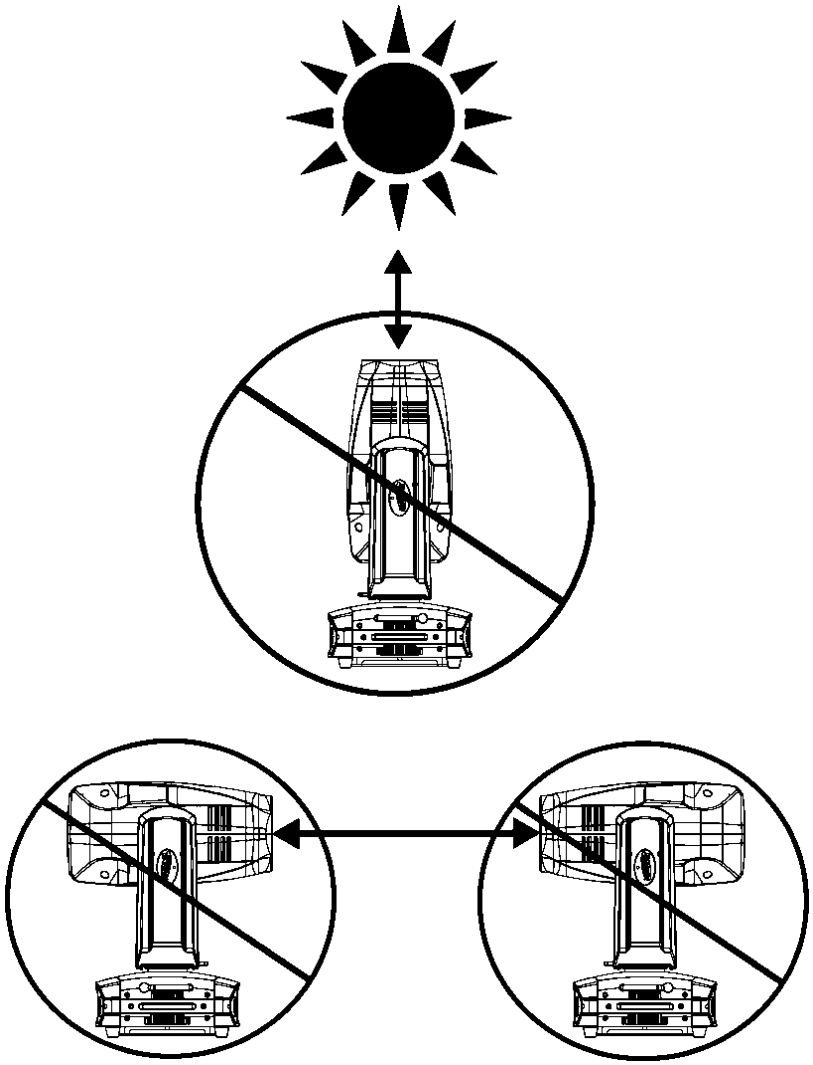
INSTALLATION GUIDELINES

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.



HIBERNATION MODE

To reduce wear on the fixture and its components, this mode disables motors and most electronics. Set the hibernation mode countdown time in the Display Menu: “Status Settings / Personality / Hibernation”. Hibernation can be fully disabled.

The hibernation mode activates under the following conditions:

Loss of DMX: the fixture enters hibernation after the timeout expires. Default is 15 minutes.

Remote DMX control: Hold “Hibernate Fixture” for 3s

The hibernation mode deactivates under the following conditions:

Connect DMX Signal

Remote DMX control: Hold “Hibernate Off” for 3s

The fixture will perform a full calibration cycle, then assume the current DMX status.

Please note that the Hibernation does not change the PT position of the fixtures, allowing the user to set the desired position and then issue the Hibernate command.

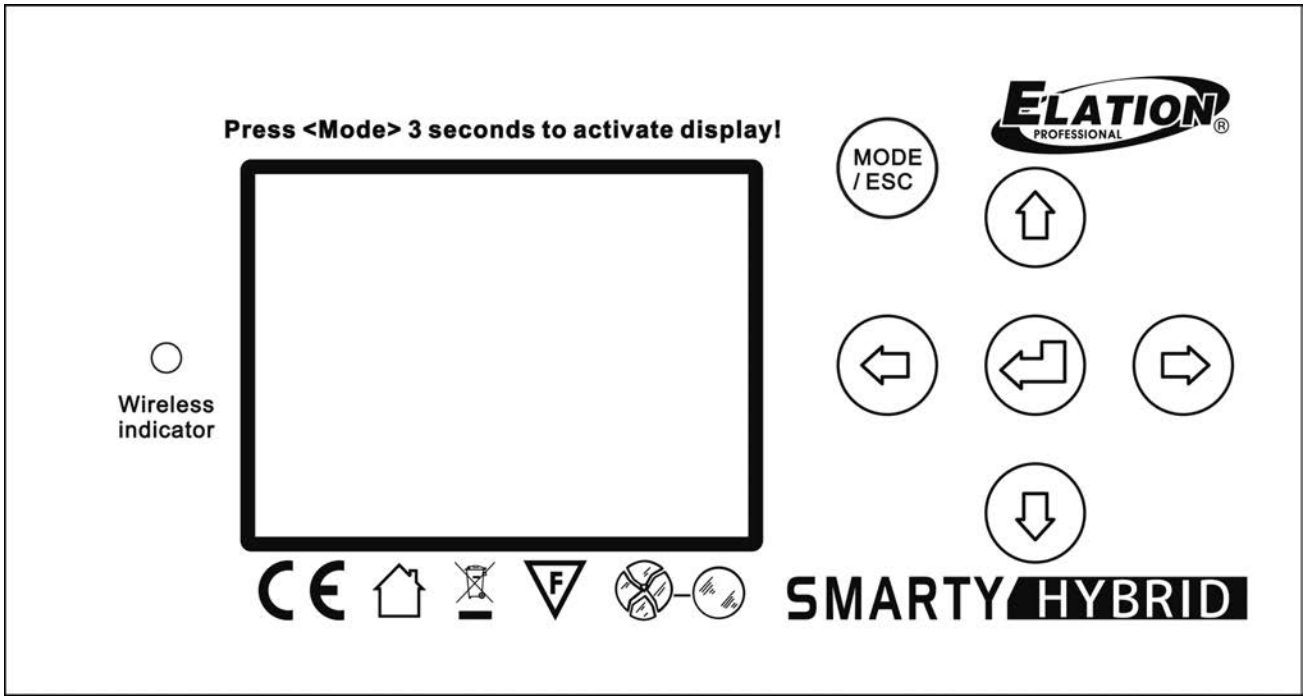
To ensure the fixture is protected from harmful sunrays it is recommended to either leave the “No DMX Status” in “Sun Protection” (so the fixture is already in the correct position after 3 minutes of DMX loss) or set the fixture to a safe Tilt position manually first before hibernation.

Burn and heat damage to the fixture’s interior components due to external light sources (sun or other fixtures shining into the lens) is never covered under the manufacturer’s warranty.

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



ELATION SMARTY HYBRID SYSTEM MENU

Features are subject to change without notice.
*Rotation direction (Clockwise or Counterclockwise) of effects depends on orientation of the fixture head 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
		Lamp Time Info	Total Time (Hours)	Total Lamp Usage Time
			Active Time (Hours)	Lamp Active Operating Time
			Idle Time (Hours)	Lamp Standby Time
			Lamp Life (%)	Lamp Life Percentage
		Lamp Off Time	xxxx (Minute)	Lamp OFF Time
		LastRun Password	Password = **038**	**(PSWD Required)**
		Clear Last Run	ON / **OFF**	Clear Fixture Last Run Time
		LampTime Password	Password=**038**	**(PSWD Required)**
		Clear Lamp Time	ON / **OFF**	Clear Lamp Run Time
	Temperature Info	Head Temperature	xxx C° / **F °**	Temperature in Fixture Head
		Base Temperature	xxx C° / **F °**	Temperature in Fixture Base
	Ethernet IP	xxx . xxx . xxx . xxx	xxx . xxx . xxx . xxx	Displays Fixture Ethernet Address
	Fan Info	Base Fan 1 …		Speeds of Head/Base Fans
	Encode Info	PAN ENCODE: TILT ENCODE:		PAN and TILT Encode Info
	Software Version	Vx.xx		Software Version
	Error Info	Error Record 1 ~ Error Record 10		Fixture Last 10 Error Codes
LAMP CONTROL	Lamp On/Off	**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
	Lamp Off via DMX	**ON**/OFF		Lamp OFF via DMX
	Lamp Power Mode	190W, 240W, **280W**		Lamp Power Mode
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
		Hibernation	OFF, 01M~99M, **15M**	Stand By Mode
		Follow Spot Mode	ON/**OFF**/Close Menu	Manual Scan Mode
	Service Setting	Password	Password=**050**	Service Password
		RDM UID	**xxxxxx**	RDM PID Code **(PSWD Required)**
		Clear Err. Info	ON/**OFF**	Clear Error Info **(PSWD Required)**
		DFLT Pow. LampOn	**ON**/OFF	Set Lamp Default Power State to ON
		DFLT Pow. EflyOn	**ON**/OFF	Set E-FLY Default Power State to ON
		USB Update		Update Fixture Software (see page 00)
	Display Setting	Shutoff Time	02~60m **05m**	Display Shut Off Time
		Display Reverse	**AUTO**, ON, OFF	Display Reverse 180º
		Key Lock	ON/**OFF**	Key Lock
	Temperature C/F	Celsius/**Fahrenheit**		Temperature Switch Between C°/ F°
	Initial Status	PAN =XXX …		Initial Effect Position

ELATION SMARTY HYBRID SYSTEM MENU				
Features are subject to change without notice. *Rotation direction (Clockwise or Counterclockwise) of effects depends on orientation of the fixture head and Pan/Tilt settings.				
PERSONALITY (continued)	Select Signal	E-FLY Off		Disable E-FLY Wireless Transceiver
		DMX & E-FLY		Activate 5pin DMX and E-FLY
		E-FLY & Out		Activate E-FLY and 5pin DMX OUT
		Art-Net		Activate Art-Net
		sACN		Activate sACN
		DMX In & E-Fly Out		Wired to wireless transmission output
	Ethernet IP	XXX . XXX . XXX . XXX		Ethernet IP
	Ether Mask IP	XXX . XXX . XXX . XXX		Ethernet Mask IP
	Set Universe	**000** - 32767		Set Art-Net Universe
	Set E-FLY Chn	**00** - 14		Set E-FLY Wireless Channel
	Reset Default	ON/**OFF**	Password = **011**	Restore Factory Settings **(PSWD Required)**
RESET FUNCTION	Reset All			Reset all fixture functions
	Reset Pan & Tilt			Reset pan & tilt functions only
	Reset Colors			Reset color functions
	Reset Gobos			Reset gobo functions
	Reset Shutter			Reset shutter functions
	Reset Others			Reset all other functions
EFFECT ADJUST	Test Channel	Pan, ...		Channel test
	Manual Control	Pan = xxx ...		Manual adjustment
	Calibration	Calibrate Password = 050		Channel data calibration
		Pan = xxx ...		
USER MODE SET	User Mode	**Standard**		Standard channel mode (16-bit)
		Extended		Extended channel mode
		User Mode A		User defined channel mode A
		User Mode B		User defined channel mode B
		User Mode C		User defined channel mode C
	Edit User Mode A, B, C	Max Channel = xx		Edit user modes A, B, and C
		Pan = Ch01		
		...		
EDIT PROGRAM	Select Program	Auto Pro Part 1 = **Program 1** - 10		Select Auto Program
		Auto Pro Part 2 = Program 1 – 10, Default = **Program 2**		
		Auto Pro Part 3 = Program 1 – 10, Default = **Program 3**		
	Edit Program	Program 1	Program Test	Test Program
		...	Step 01 = SCxxx	Program Start Scene
		Program 10	Step 64 = SCxxx	Program End Scene
	Edit Scenes	Edit Scene 001 – Edit Scene 250	Pan, Tilt, ... -- Fade Time -- -- Scene Time -- Input by Out	Manual Scene Input Manually Adjust Fade Time Manually Adjust Scene Time External Console Scene Input
	Rec Controller	XX - XX		Automatically record scenes

SYSTEM MENU

PERSONALITY – Service Setting – USB Update

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.

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.

USER MODE SET – Edit User Mode

Create user defined channel orders allowing the fixture to match the channel order of other fixtures on the market for easier operation. A total of three user modes may be configured: User Mode A, User Mode B, and User Mode C.

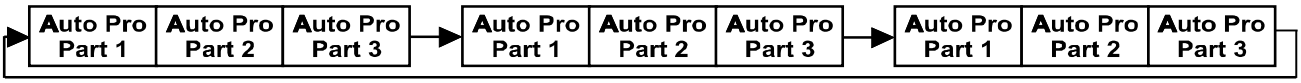
EDIT PROGRAM – Rec. Controller

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.

SYSTEM MENU

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"**.

EDIT PROGRAM – Record Controller – Working with Built-In Program [continued]
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** to return to the main menu.

SYSTEM MENU

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

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.

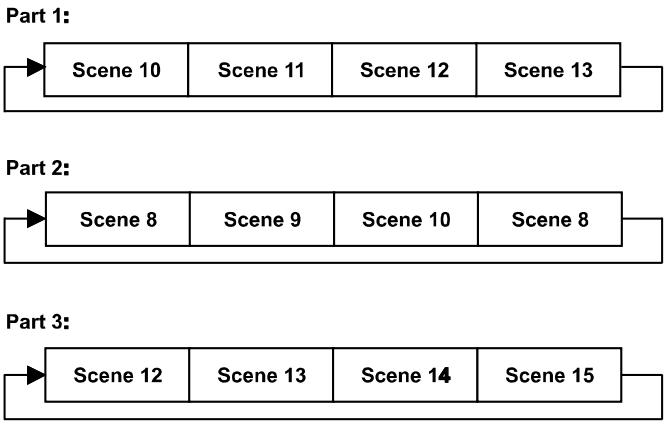
5. Automatic Scene Recording

• 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 diagram below)



E-FLY WIRELESS DMX SET UP

BEFORE SETTING THE WIRELESS CHANNEL ON ANY E-FLY FIXTURE, MAKE SURE THE SOURCE E-FLY WIRELESS DMX TRANSCEIVER DEVICE IS OFF.

TO CONTROL FIXTURE WITH E-FLY WIRELESS DMX SIGNAL

1. Ensure the source **E-FLY** wireless DMX Transceiver device is powered **OFF**.

2. Power **ON** fixture and from the LCD control panel select **DMX & E-FLY** or **E-FLY & OUT** in the **Select Signal** sub menu of the **PERSONALITY** main system menu.

3. From the LCD control panel set the **E-FLY** wireless channel to the same wireless channel of the source **E-FLY** DMX Transceiver device in the **Set E-FLY Chn** sub menu of the **PERSONALITY** main system menu.

NOTE: Erratic fixture movement may occur if other **E-FLY** wireless DMX products are in use in the same area and are using the same **E-FLY** wireless channel. The fixture may immediately start to respond to the DMX wireless signal from another **E-FLY** wireless DMX Transceiver immediately when **E-FLY** is enabled. Make sure to know what **E-FLY** wireless channels are being used in the area where the fixture is being installed.

ELATION E-FLY WIRELESS TRANSCEIVER has 0-14 wireless channels.

4. Set fixture DMX address in the **Set DMX Address** sub menu of the **FUNCTION** main system menu.

5. The **E-FLY** signal Indicator on the fixture LCD control display will illuminate **GREEN** if a successful wireless DMX connection has been made or illuminate **RED** for NO connection. If no connection is made, repeat steps 1-4 above.

6. Repeat this process for all **E-FLY** compatible fixtures in the E-FLY wireless network, making sure all fixtures are assigned the same **E-FLY** wireless channel.

7. After all fixtures in the **E-FLY** wireless network have been set to the same **E-FLY** wireless channel and powered ON, now power ON the source **E-FLY** DMX Transceiver device.

8. Test all fixtures connected to the **E-FLY** wireless network to confirm proper functionality.

E-FLY WIRELESS DMX SET UP

There are many factors that affect and/or interrupt a wireless signal such as walls, glass, metal, objects, and people. Therefore, it is highly recommended to:

- Install devices a minimum of 9.8 ft. (3m) above audiences and/or ground level
- Adjust the wireless antenna in a vertical upright position
- Position devices in direct line of sight of the controlling E-FLY device

Careful planning and testing of the selected installation location is critical to ensure optimum and reliable wireless operation.

DMX TRAITS

CHANNEL		DMX VALUES	FUNCTION
20CH	34CH		
1	1		**Pan Movement, 8-bit**
		000 - 255	Pan movement
2	2		**Pan Fine, 16-bit**
		000 - 255	Fine control of pan movement
3	3		**Tilt Movement, 8-bit**
		000 - 255	Tilt movement
4	4		**Tilt Fine, 16-bit**
		000 - 255	Fine control of tilt movement
5	5		**Cyan Color**
		000 - 255	Cyan, 0% to 100%
	6		**Cyan Color Fine**
		000 - 255	Cyan fine adjustment
6	7		**Magenta Color**
		000 - 255	Magenta, 0% to 100%
	8		**Magenta Color Fine**
		000 - 255	Magenta fine adjustment
7	9		**Yellow Color**
		000 - 255	Yellow, 0% to 100%
	10		**Yellow Fine**
		000 - 255	Yellow fine adjustment
8	11		**Color Wheel**
		000 - 010	Open / white
		011 - 019	Red
		020 - 028	Green
		029 - 037	Yellow
		038 - 046	Magenta
		047 - 055	Orange
		056 - 064	Aqua
		065 - 073	Pink
		074 - 082	Cyan

CHANNEL		DMX VALUES	FUNCTION
20CH	34CH		
8	11		**Color Wheel (continued)**
		083 - 091	Quad Color
		092 - 100	CTB
		101 - 109	UV
		110 - 118	CTO
		119 - 127	Blue
		128 - 189	Clockwise scroll, fast to slow
		190 - 193	No rotation
		194 - 255	Counter-clockwise scroll, slow to fast
	12		**Color Wheel Fine**
		000 - 255	Color wheel position fine adjustment
9	13		**Rotating Gobos**
		000 - 010	Beam open
		011 - 021	Spot open
		022 - 031	Rotating gobo 1
		032 - 041	Rotating gobo 2
		042 - 051	Rotating gobo 3
		052 - 061	Rotating gobo 4
		062 - 071	Rotating gobo 5
		072 - 081	Rotating gobo 6
		082 - 091	Rotating gobo 7
		092 - 101	Rotating gobo 8
		102 - 112	Rotating gobo 1 shake
		113 - 123	Rotating gobo 2 shake
		124 - 134	Rotating gobo 3 shake
		135 - 145	Rotating gobo 4 shake
		146 - 156	Rotating gobo 5 shake
		157 - 167	Rotating gobo 6 shake
		168 - 178	Rotating gobo 7 shake
		179 - 189	Rotating gobo 8 shake

CHANNEL		DMX VALUES	FUNCTION
20CH	34CH		
9	13		**Rotating Gobos (continued)**
		190 - 221	Clockwise scroll, fast to slow
		222 - 223	Reserved
		224 - 255	Counter-clockwise scroll, slow to fast
10	14		**Rotating Gobo Index**
		000 - 127	Gobo indexing
		128 - 189	Clockwise rotation, fast to slow
		190 - 193	No rotation
		194 - 255	Counter-clockwise rotation, slow to fast
	15		**Rotating Gobo Indexing, Fine**
		000 - 255	Fine indexing adjustment
11	16		**Fixed Gobos**
		000 - 009	Open
		010 - 017	Gobo 1
		018 - 025	Gobo 2
		026 - 033	Gobo 3
		034 - 041	Gobo 4
		042 - 049	Gobo 5
		050 - 057	Gobo 6
		058 - 065	Gobo 7
		066 - 073	Gobo 8
		074 - 081	Gobo 9
		082 - 089	Gobo 10
		090 - 097	Gobo 11
		098 - 105	Gobo 12
		106 - 112	Gobo 1 shake, slow to fast
		113 - 119	Gobo 2 shake, slow to fast
		120 - 126	Gobo 3 shake, slow to fast
		127 - 133	Gobo 4 shake, slow to fast
		134 - 140	Gobo 5 shake, slow to fast

CHANNEL		DMX VALUES	FUNCTION
20CH	34CH		
11	16		**Fixed Gobos (continued)**
		141 - 147	Gobo 6 shake, slow to fast
		148 - 154	Gobo 7 shake, slow to fast
		155 - 161	Gobo 8 shake, slow to fast
		162 - 168	Gobo 9 shake, slow to fast
		169 - 175	Gobo 10 shake, slow to fast
		176 - 182	Gobo 11 shake, slow to fast
		183 - 189	Gobo 12 shake, slow to fast
		190 - 221	Clockwise scroll, fast to slow
		222 - 223	Reserved
		224 - 255	Counter-clockwise, slow to fast
	17		**Fixed Gobo Indexing Fine**
		000 - 255	Fixed gobo fine indexing
12	18		**16 Facet Rotating Prism/Line Prism**
		000 - 031	Open
		032 - 064	16 Prism
		065 - 094	Linear Prism
		095 - 127	16/Linear Prism
		128 - 135	Macro 1
		136 - 143	Macro 2
		144 - 151	Macro 3
		152 - 159	Macro 4
		160 - 167	Macro 5
		168 - 175	Macro 6
		176 - 183	Macro 7
		184 - 191	Macro 8
		192 - 199	Macro 9
		200 - 207	Macro 10
		208 - 215	Macro 11
		216 - 223	Macro 12

CHANNEL		DMX VALUES	FUNCTION
20CH	34CH		
12	18		**16 Facet Rotating Prism/Line Prism (continued)**
		224 - 231	Macro 13
		232 - 239	Macro 14
		240 - 247	Macro 15
		248 - 255	Macro 16
13	19		**Rotating 8/Line Prism**
		000 - 127	Prism indexing
		128 - 189	Clockwise rotation, fast to slow
		190 - 193	No rotation
		194 - 255	Counter-clockwise rotation, slow to fast
	20		**Rotating 8/Line Prism Indexing, Fine**
		000 - 255	Fine indexing
14	21		**Focus**
		000 - 255	Continuous adjustment, near to far
	22		**Focus Fine**
		000 - 255	Continuous adjustment, fine
15	23		**Zoom**
		000 - 255	Zoom adjustment, small to large
	24		**Zoom Fine**
		000 - 255	Zoom adjustment, fine
	25		**Auto Focus - Spot Mode**
		000 - 031	Auto focus off
		032 - 059	8m
		060 - 087	9m
		088 - 115	10m
		116 - 143	11m
		144 - 171	12m
		172 - 199	13m
		200 - 227	14m
		228 - 255	15m

CHANNEL		DMX VALUES	FUNCTION
20CH	34CH		
	25		**Auto Focus - Beam Mode**
		000 - 021	Auto focus off
		022 - 039	8m
		040 - 057	9m
		058 - 075	10m
		076 - 093	11m
		094 - 111	12m
		112 - 129	13m
		130 - 147	14m
		148 - 165	15m
		166 - 183	16m
		184 - 201	17m
		202 - 219	18m
		220 - 237	19m
		238 - 255	20m
	26		**Auto Focus Fine**
		000 - 255	Continuous adjustment, fine
16	27		**Shutter, Strobe**
		000 - 031	Shutter closed
		032 - 063	No function (shutter open)
		064 - 095	Strobe effect, slow to fast
		096 - 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)
17	28		**Dimmer Intensity**
		000 - 255	0 to 100%
18	29		**Fine Dimmer Intensity**
		000 - 255	Fine adjustment

CHANNEL		DMX VALUES	FUNCTION
20CH	34CH		
19	30		**Frost**
		000 - 127	Disable frost
		128 - 255	Enable frost
	31		**Gobo, Speed of CMY, and Color Macro Speed**
		000 - 255	Speed, maximum to minimum
	32		**Color Macros, CMY and Color Wheel**
		000 - 031	Off
		032 - 039	Macro 1
		040 - 047	Macro 2
		048 - 055	Macro 3
		056 - 063	Macro 4
		064 - 071	Macro 5
		072 - 079	Macro 6
		080 - 087	Macro 7
		088 - 095	Macro 8
		096 - 103	Macro 9
		104 - 111	Macro 10
		112 - 119	Macro 11
		120 - 127	Macro 12
		128 - 135	Macro 13
		136 - 143	Macro 14
		144 - 151	Macro 15
		152 - 159	Macro 16
		160 - 167	Macro 17
		168 - 175	Macro 18
		176 - 183	Macro 19
		184 - 191	Macro 20
		192 - 199	Macro 21
		200 - 207	Macro 22
		208 - 215	Macro 23
		216 - 223	Macro 24

CHANNEL		DMX VALUES	FUNCTION
20CH	34CH		
	32		**Color Macros, CMY and Color Wheel (continued)**
		224 - 231	Macro 25
		232 - 239	Macro 26
		240 - 247	Macro 27
		248 - 255	Random CMY
	33		**Speed Pan/Tilt Movement**
		000 - 225	Maximum to minimum speed
		226 - 235	Blackout by movement
		236 - 245	Blackout by all wheel changing
		246 - 255	No function
20	34		**Special Functions**
		000 - 019	Color change normal
		020 - 029	Color change to any position
		030 - 039	Reserved
		040 - 049	Lamp on
		050 - 059	Lamp switch off
		060 - 066	Lamp power minimum, 190W
		067 - 073	Lamp power medium, 240W
		074 - 079	Lamp power maximum, 280W
		080 - 084	All motor reset
		085 - 087	Scan motor reset
		088 - 090	Color motor reset
		091 - 093	Gobo motor reset
		094 - 096	Shutter & dimmer motor reset
		097 - 099	Other motor reset
		100 - 119	Internal program 1
		120 - 139	Internal program 2
		140 - 159	Internal program 3
		160 - 179	Internal program 4
		180 - 199	Internal program 5

CHANNEL		DMX VALUES	FUNCTION
20CH	34CH		
20	34		**Special Functions (continued)**
		200 - 219	Internal program 6
		220 - 239	Internal program 7
		240 - 241	Hibernation off
		242 - 243	Hibernation on
		244 - 246	Home position before power off
		247 - 249	Home position off
		250 - 251	Display off
		252 - 253	Display on
		254 - 255	Reserved

REMOTE DEVICE MANAGEMENT (RDM)

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

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

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

FIXTURE RDM INFORMATION:

RDM CODE	DEVICE ID	DEVICE MODEL ID	PERSONALITY ID
0X5D8	Open	1496	Open

Please be aware that not all RDM devices support all RDM features, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all the features that you require.
The following parameters are accessible in RDM on this device:

Sensor Definition
Sensor Value
Device Model Description
Manufacturer Label
Device Label
DMX Personality
DMX Personality Description
Device Hours
Lamp Hours
Lamp State
Pan Invert
Tilt Invert
Display Invert

ERROR CODES

When fixture is powered ON, it 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 represents a function number. For example, **"0Er"** 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 there are errors on **Channel 1**, **2**, and **5** all at the same time, 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.

<table>
<tr><td colspan="2">Error Codes subject to change without notice.</td></tr>
<tr><td>ERROR CODES</td><td>DESCRIPTION</td></tr>
<tr><td>PAN Er</td><td rowspan="2">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.</td></tr>
<tr><td>TILT Er</td></tr>
<tr><td>Cyan Color Wheel Er</td><td rowspan="14">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).</td></tr>
<tr><td>Magenta Color Wheel Er</td></tr>
<tr><td>Yellow Color Wheel Er</td></tr>
<tr><td>Color Wheel Er</td></tr>
<tr><td>Gobo Wheel 1 Er</td></tr>
<tr><td>Gobo Rotation Wheel 1 Er</td></tr>
<tr><td>Dimmer Wheel Er</td></tr>
<tr><td>Fixed Gobo Wheel Er</td></tr>
<tr><td>Prim 3 Wheel Er</td></tr>
<tr><td>Prism Rotation 1 Wheel Er</td></tr>
<tr><td>Prism 16 Wheel Er</td></tr>
<tr><td>Focus Wheel Er</td></tr>
<tr><td>Zoom Wheel Er</td></tr>
<tr><td>Frost Wheel Er</td></tr>
</table>

SOFTWARE UPDATE: SERVICE PORT

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.

PERSONALITY – Service Setting – USB Update
To update the fixture software via the UPDATE/SERVICE PORT, follow steps below.

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.
1. The fixture will perform a reset process when the software update process is complete.
2. 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.

SOFTWARE UPDATE: ETHERNET

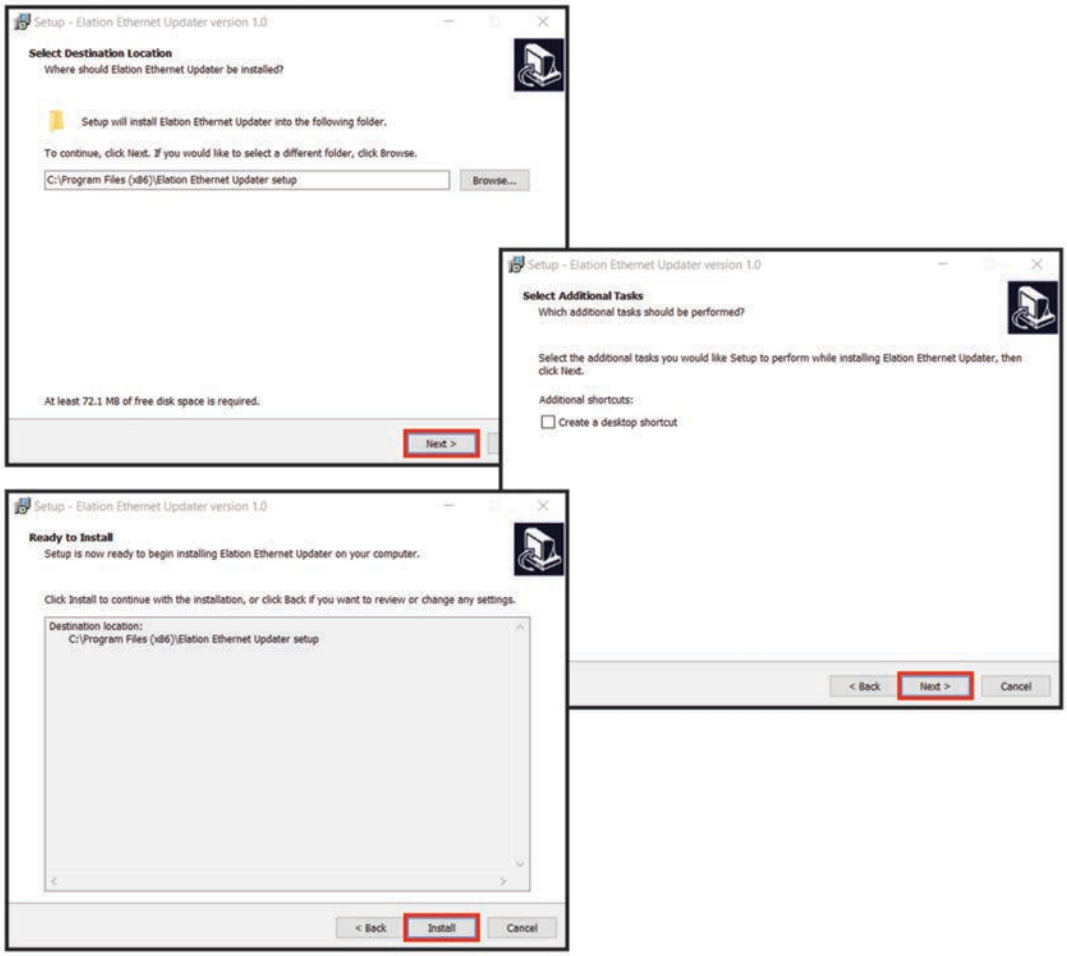
Software updates for this fixture can be performed using the **Elation Ethernet Updater.** Contact Elation Service to obtain this updater device:

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

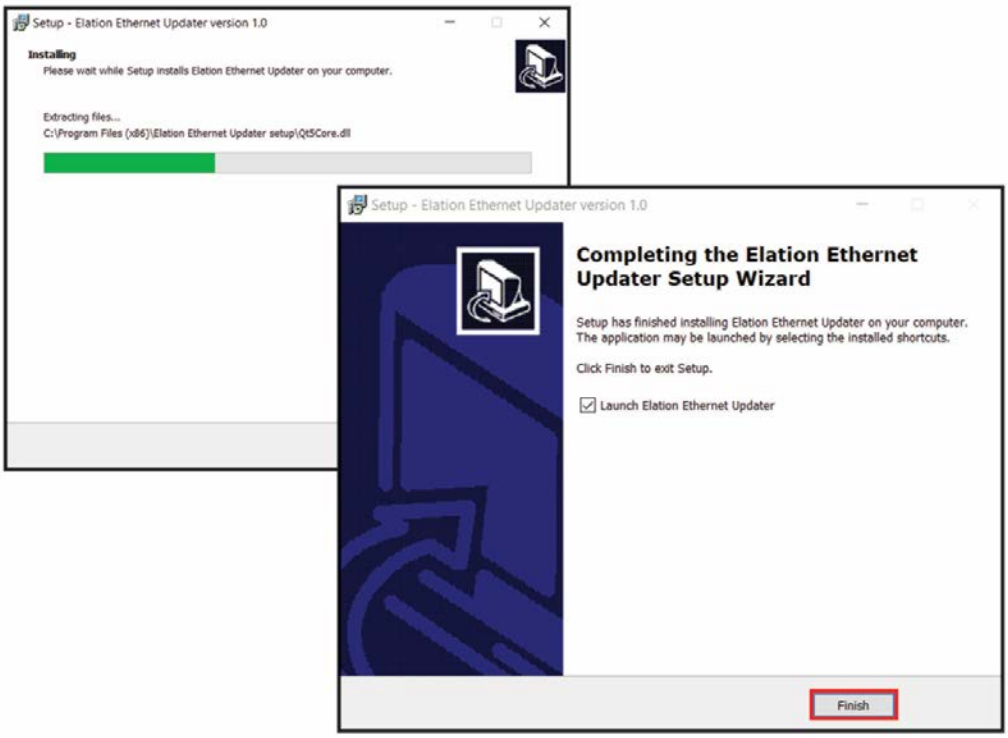
ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
+31 45 546 85 63 | Fax +31 45 546 85 96 | support@elationlighting.eu

The Elation Ethernet Updater is an EXE file, which only works on a PC System. Once you've received the Elation Ethernet Updater RAR file from Elation Service via email, download and extract the EXE file. With the file extracted, click **Elation Ethernet Updater setupV100.exe** to launch the installation wizard.

Follow the prompts once the Elation Ethernet Updater EXE has launched the Setup Wizard.



SOFTWARE UPDATE: ETHERNET



Once you have installed the Elation Ethernet Updater, it will launch automatically (unless you unchecked “Launch Elation Ethernet Updater”), or you can open it any time by clicking on the icon.

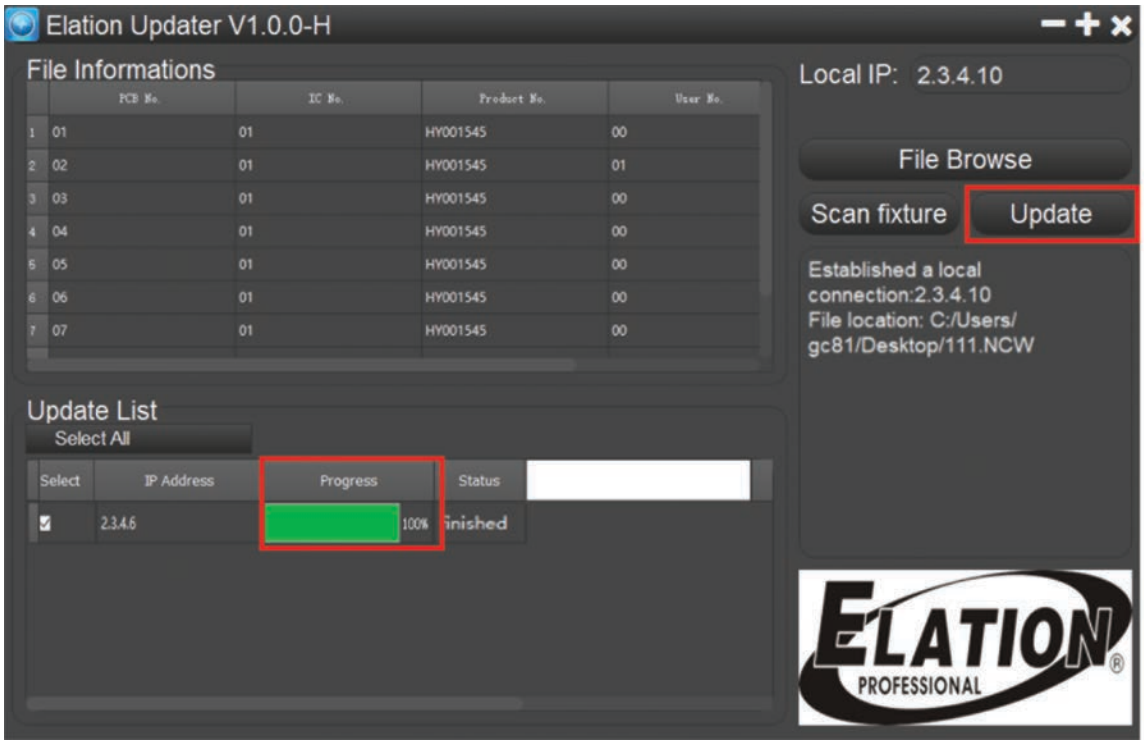
SOFTWARE UPDATE: ETHERNET

Once opened, your local IP will automatically be identified. Click “Scan fixture” and create a connection. The fixture identity will appear in the Update List on the left side of browser. A connection will fail to establish if the fixture IP and Local IP are not in the same network segment.

Click “File Browse” to select the files you want to download. The download Progress is displayed in the File information chart as a percentage bar graph.

SOFTWARE UPDATE: ETHERNET

Click Update, then wait for the download Progress to reach 100% before closing Updater. The Elation Ethernet Updater can update up to 31 fixtures via connection to a PC.



SPECIFICATIONS

SOURCE
Philips™ MSD Platinum 200 Flex 280W Lamp
Up To 6,000 Hour Lamp Life*
*May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, Dimming, and Lamp Mode.

PHOTOMETRIC DATA
11,000 Total Lumen Output
128,426 LUX 11,931 FC @49.2' (15m) (Min Zoom Beam)
135,108 LUX 12,552 FC @16.4' (5m) (Min Zoom Spot)

EFFECTS
Beam, Spot, and Wash Modes
Motorized Zoom: 1° - 18° Beam, 3° - 27° Spot, 5° - 33° Wash
Full Frost Filter for Wash Effects
16-Facet and 4-Facet Linear Rotating Prisms
CMY Color, Gobo, and Prism Macros
Motorized Focus with Auto-Focus Feature
High Speed Shutter and Strobe
Pan Angle: 540°/630°
Tilt Angle: 270°

COLOR
Full CMY Color Mixing System
13 Colors including Quad Color, CTB, CTO, and UV

GOBOS
2 Gobo Wheels
8 Interchangeable-Rotating / Indexing Glass Gobos
12 Static-Stamped Metal Gobos

CONTROL / CONNECTIONS
2 DMX Channel Modes (20/34 channels)
Full Color 180° Reversible LCD Menu Display
6 Button Menu Control Panel
16 Bit Resolution Adjustable Movement
DMX, RDM, Art-NET, and sACN Protocol Support
Elation E-FLY Internal Wireless DMX Transceiver
Hibernation Mode (Power Save)
5pin DMX In/Out
RJ45 etherCON In/Out
Neutrik TRUE1 Power In/Out
With Wired Digital Communication Network

SIZE / WEIGHT
Length: 15.2" (385mm)
Width: 15.9" (405mm)
Vertical Height: 24.0" (610mm)
Center-to-Center Spacing 19.3in (490.8mm)
Weight: 49.0 lbs. (22.2 kg)

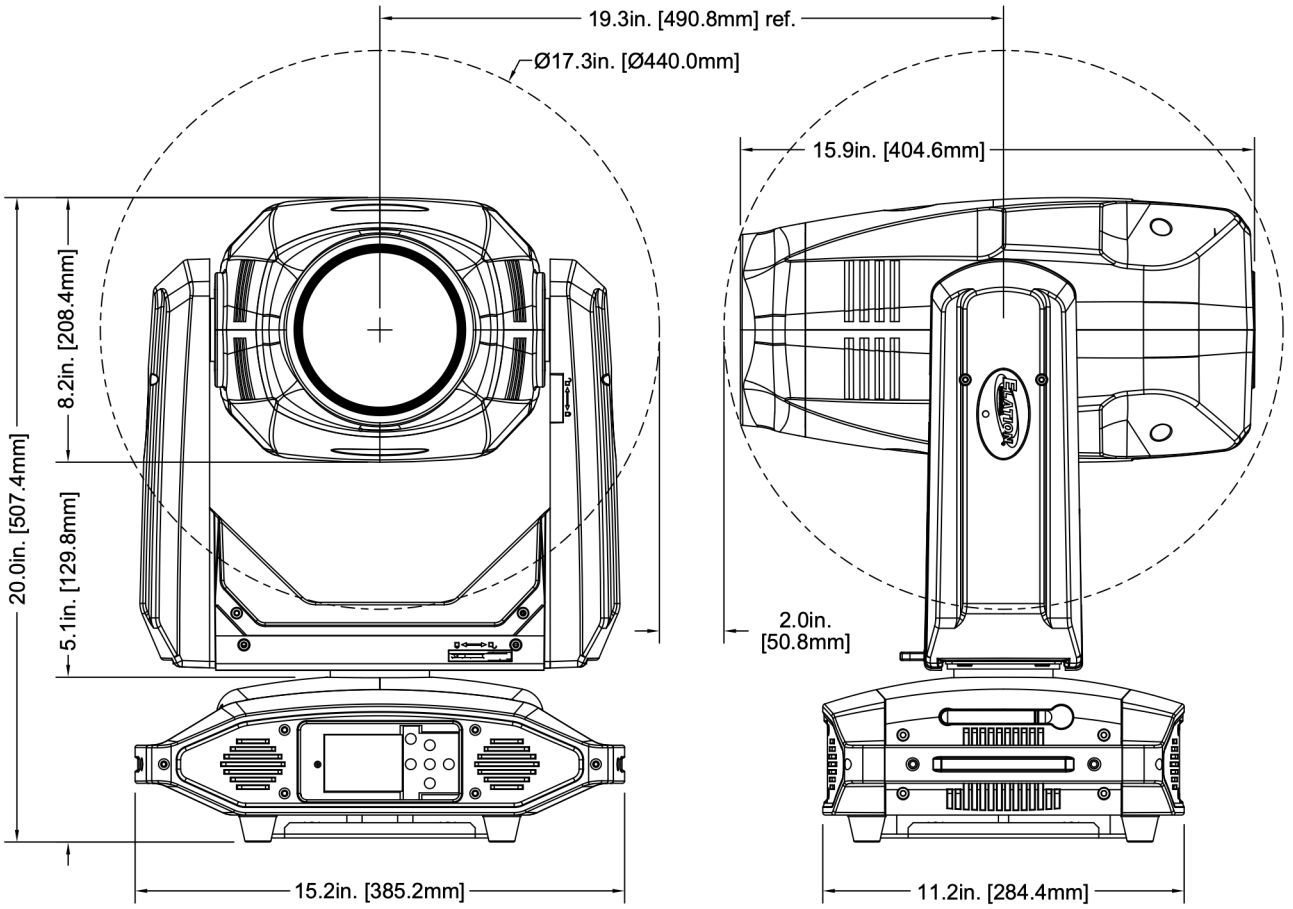
ELECTRICAL / THERMAL
AC 100-240V - 50/60Hz
480W Max Power Consumption
14°F to 113°F (-10°C to 45°C)

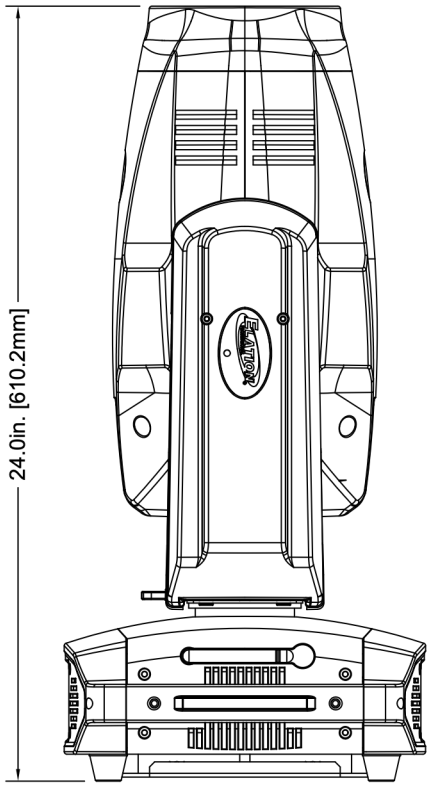
APPROVALS / RATINGS
CE | cETLus | IP20

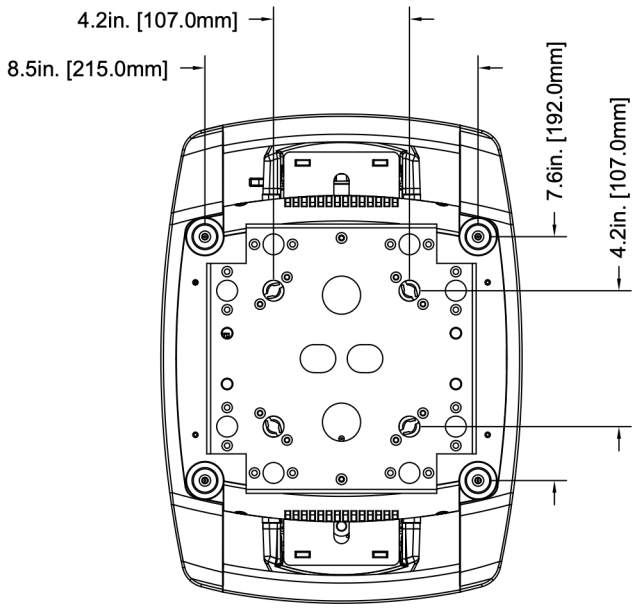
Specifications and improvements in the design of this unit and this manual subject to change without notice.

DIMENSIONAL DRAWINGS

Dimension drawings not to scale.

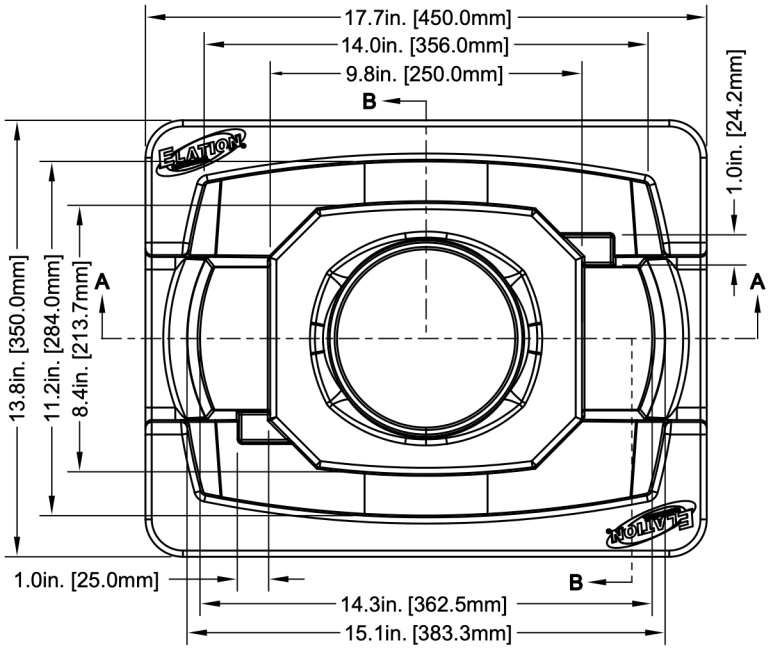


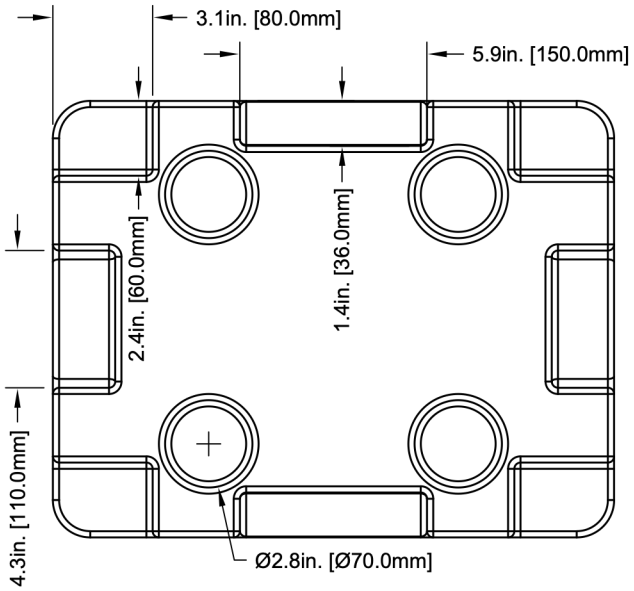


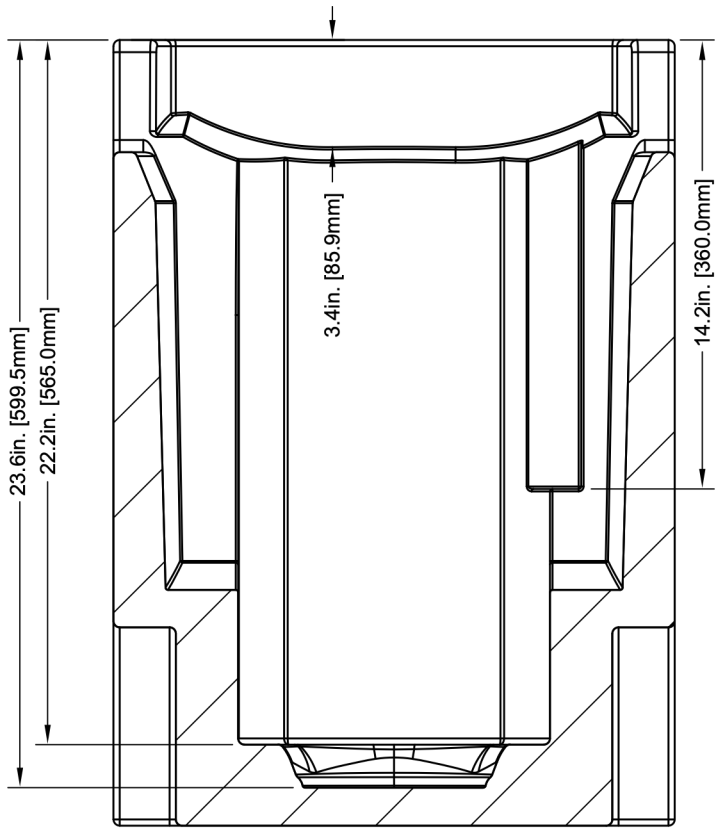


DIMENSIONAL DRAWINGS

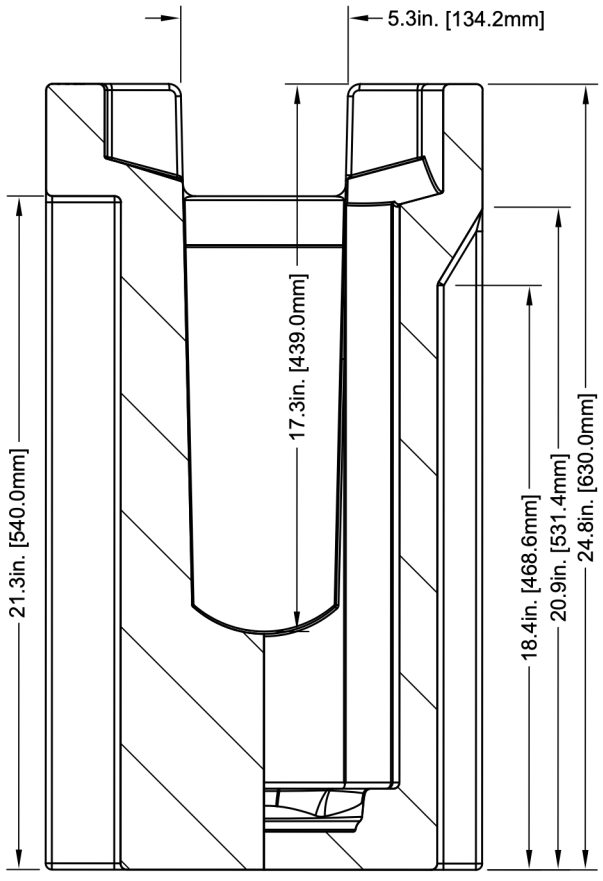
Dimension drawings not to scale.







A-A



B-B

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

ORDER CODE	ITEM
ZB-MSD PLATINUM 200 FLEX	Philips MSD Platinum 200 Flex Lamp
DRCSMARTY	Dual Road Case for SMARTY HYBRID
TRIGGER CLAMP	Heavy Duty Wrap Around Hook Style Clamp
EFL001	E-FLY™ External Wireless DMX Transceiver
AC5PDMX5PRO	5 ft. (1.5m) 5pin PRO DMX Cable
CAT6PRO5	5 ft. (1.5m) CAT6 Ethernet 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

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