

SMARTY HYBRID™

User Manual

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DOCUMENT VERSION



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

| Date | Document Version | Software Version ≥ | DMX Channel Modes | Notes |
|----------|------------------|--------------------|--------------------------------------|---|
| 06/13/18 | 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 | 2.9 | NO CHANGE | NO CHANGE | Warranty and Specification update. |

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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

2 Omega Brackets
1 Power Cable
1 Safety 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
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REPLACEMENT PARTS please visit parts.elationlighting.com



IMPORTANT NOTICE !

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

ULTIMATE WARRANTY (USA ONLY)

A. This ULTIMATE WARRANTY covers the first two years of operation or 6,000 hours of use, whichever comes first, based on regular maintenance for the fixture and lamp. This comprehensive warranty for a 2-year period covers material and workmanship of the fixture, including the highly-efficient Philips Platinum FLEX 200 lamp. Elation Professional warrants product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days) from the original date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought. B. For warranty service, send the product only to the Elation Professional factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional shall have no liability what so ever for loss and/or or damage to any such accessories, nor for the safe return thereof. C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Elation Professional concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional factory unless prior written authorization was issued to purchaser by Elation Professional; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual. D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Elation Professional will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect. E. Elation Professional reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured. F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product. G. This warranty is the only written warranty applicable to Elation Professional products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

WARRANTY RETURNS

All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

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!**

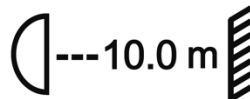


**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!**



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

WARNING



**Minimum distance to lighted objects 10.0 meters.
Maximum temperature of the external surface 100°C.
Minimum distance of inflammable materials from the surface 0.5m.**



SAFETY GUIDELINES

⚠ CAUTION

**HIGH
INTENSITY
ULTRAVIOLET
LIGHT**



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

RISK GROUP 3 - RISK OF EXPOSURE TO ULTRAVIOLET UV RADIATION! FIXTURE EMITS HIGH INTENSITY WAVELENGTH OF ULTRAVIOLET UV LIGHT FROM THE UV COLOR FILTER. WEAR PROPER EYE AND SKIN PROTECTION. AVOID PROLONGED PERIODS OF EXPOSURE TO UV COLOR FILTER. AVOID WEARING WHITE COLOR CLOTHING AND/OR USING UV PAINTS ON SKIN. AVOID DIRECT EYE AND/OR SKIN

EXPOSURE AT DISTANCES LESS THAN 11 feet (3.3m). DO NOT OPERATE FIXTURE WITH DAMAGED/MISSING EXTERNAL COVERS. DO NOT LOOK DIRECTLY INTO THE UV LIGHT AND/OR VIEW UV LIGHT DIRECTLY WITH OPTICAL INSTRUMENTS THAT MAY CONCENTRATE THE LIGHT/RADIATION OUTPUT. INDIVIDUALS SUFFERING FROM A RANGE OF EYE CONDITIONS, SUNLIGHT EXPOSURE DIS-ORDERS, OR INDIVIDUALS USING PHOTSENSITIVE 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.

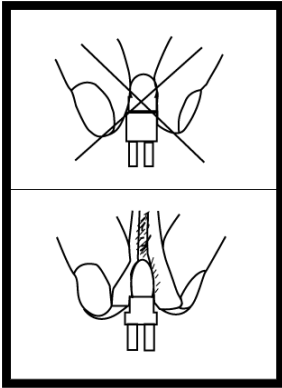
Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.

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.

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 EXPOSURE!

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.

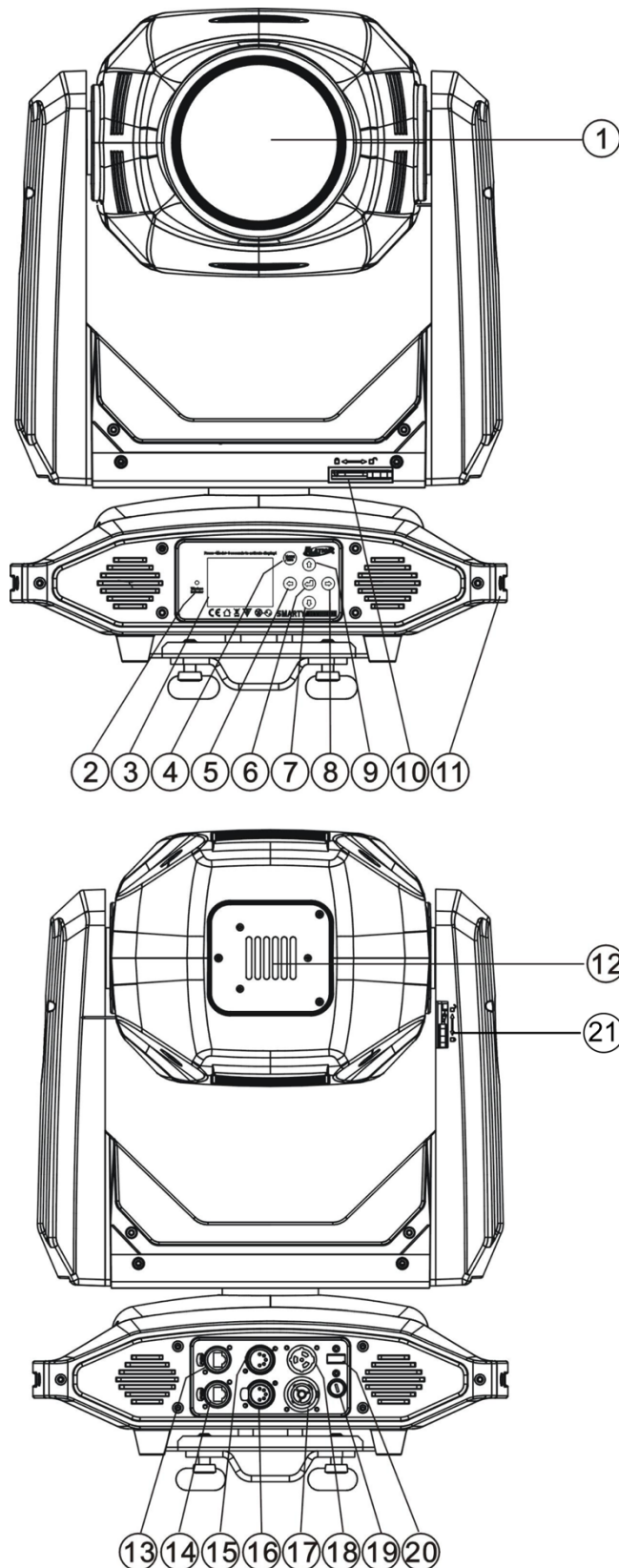
Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.

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



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. Handel (s)
12. Lamp Access Panel
13. RJ45 etherCON IN
14. RJ45 etherCON 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

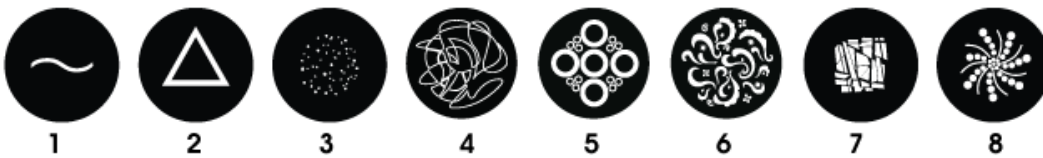
COLOR WHEEL



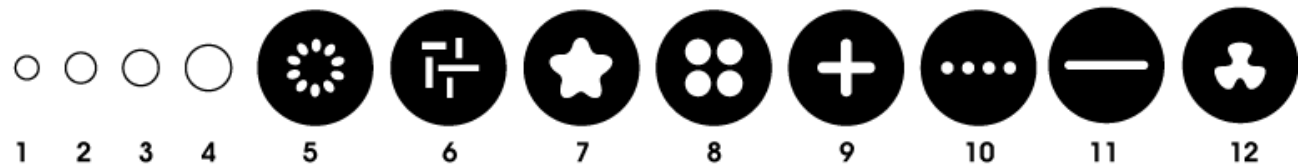
COLOR FLAGS



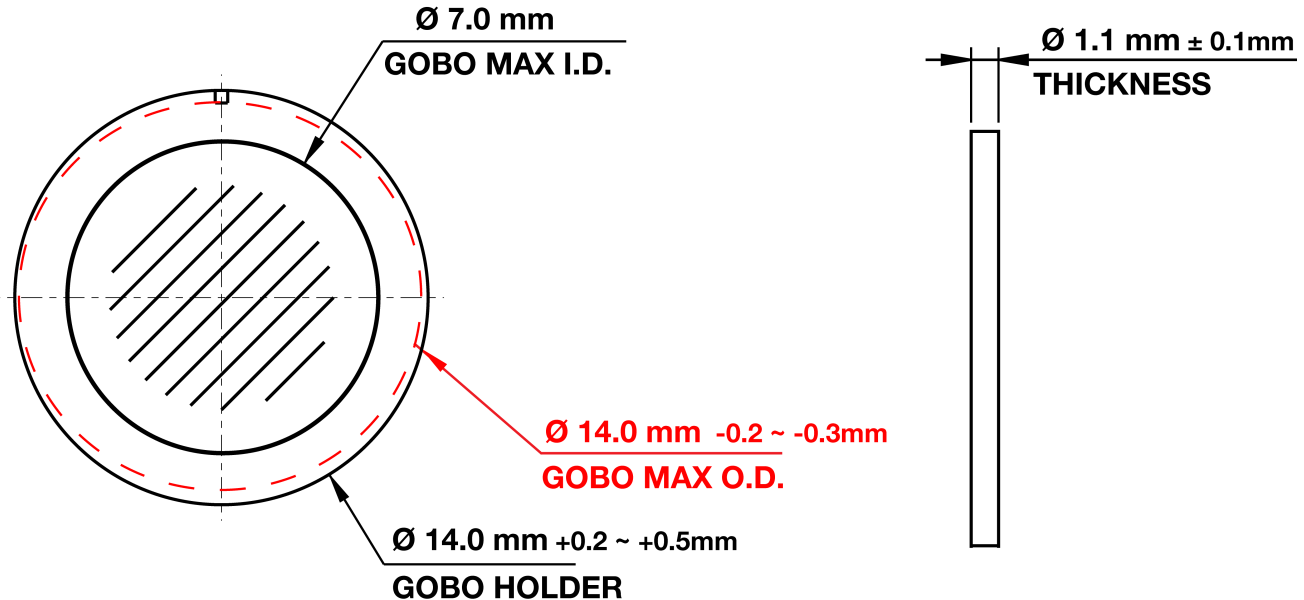
INTERCHANGEABLE-ROTATING GLASS GOBO WHEEL 1



STATIC-FIXED METAL GOBO WHEEL 2



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 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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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 EXPOSURE!**

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.

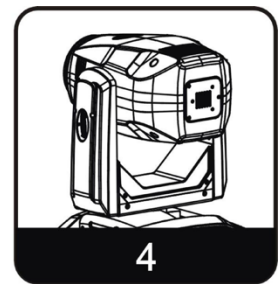
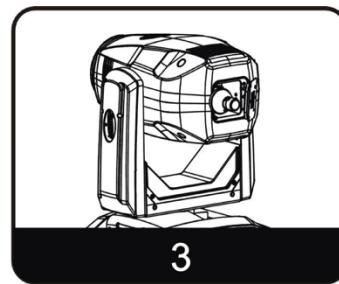
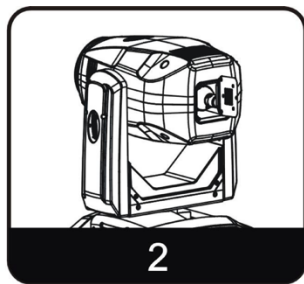
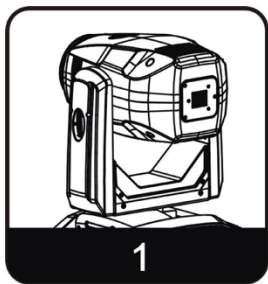
| |
|---|
| <p>Total Lamp Hours = X – 20%</p> <p>LCD display will slowly blink with a YELLOW outline and the following warning for 10 mins: "LAMP LIFE left "X" hours. Please change lamp soon"</p> <p>Sending a DMX value of 250-251 in Channel 24 (Standard Mode) or Channel 34 (Extended Mode) from the lighting controller or pressing the OK button on the fixture control panel will clear this warning.</p> |
| <p>Total Lamp Hours = X up to X + 20%</p> <p>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"</p> <p>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.</p> |
| <p>Total Lamp Hours = X + 20% and higher</p> <p>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"</p> <p>This error can ONLY be cleared when the lamp hours are reset.</p> |

LAMP REPLACEMENT

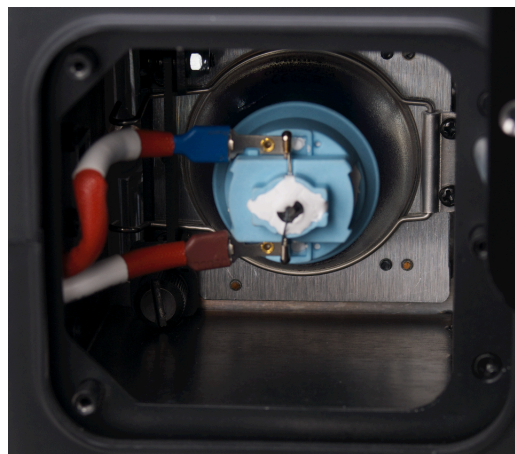
LAMP LIFE OF PHILIPS PLATINUM 200 FLEX = UP TO 6,000 HOURS

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 2000 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. (see below)



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 accidentally 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

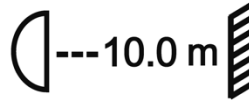
Keep fixture at least 5.0 feet (1.5m) away from any flammable materials, decorations, pyrotechnics, etc.



ELECTRICAL CONNECTIONS

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

WARNING



Minimum distance to lighted objects 10.0 meters.

Maximum temperature of the external surface 100°C.

Minimum distance of inflammable materials from the surface 0.5m.



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.

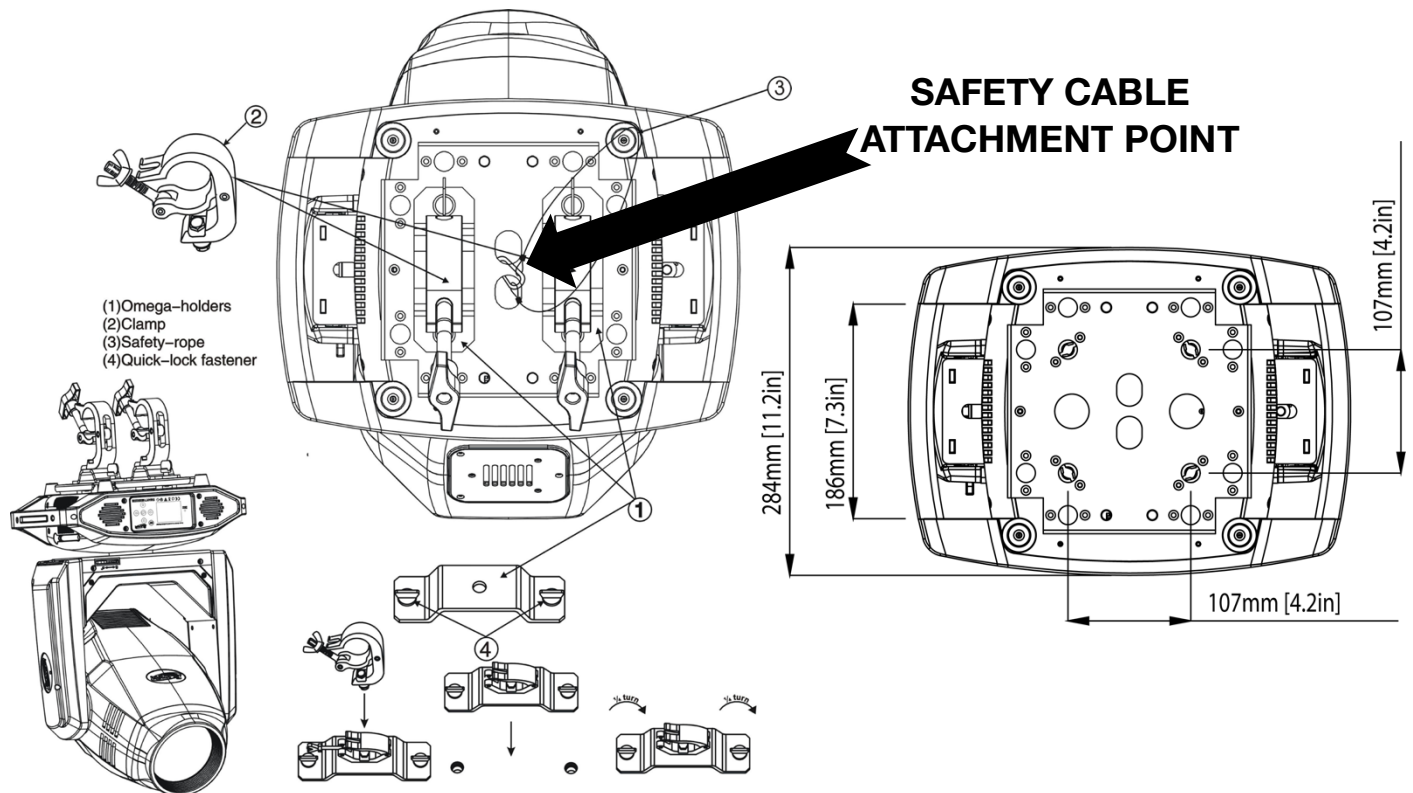
Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

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 $\frac{1}{4}$ turn clockwise; making sure the fastener is completely locked.



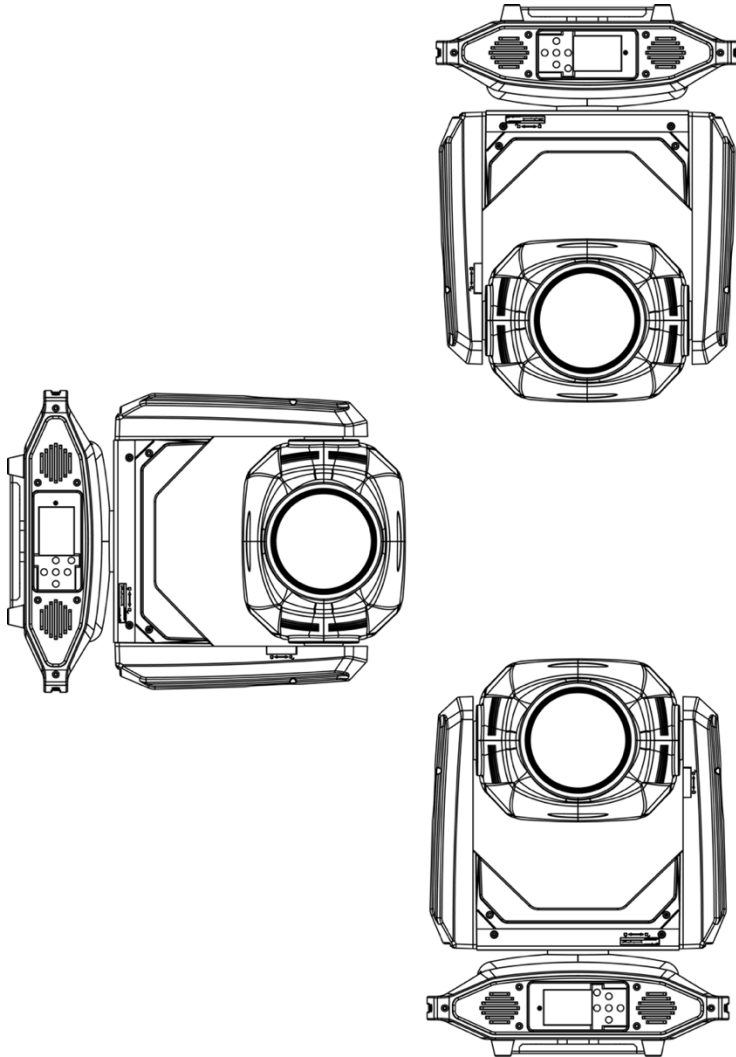
CLAMP INSTALLATION

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

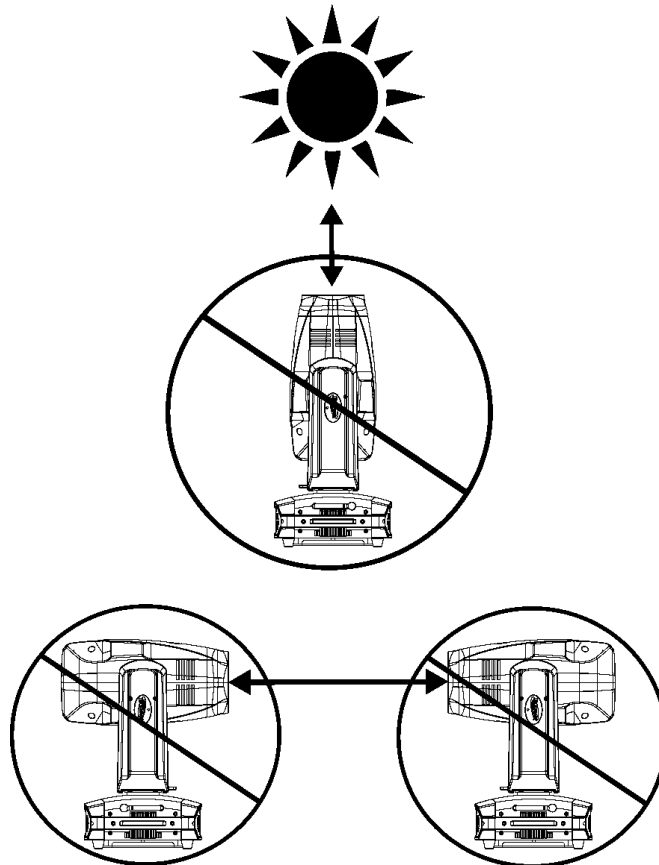
INSTALLATION GUIDELINES

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 towards the exterior housing and/or penetrate the front lens opening of ELATION lighting fixtures, can cause severe internal damage including burning to optics, dichroic color filters, glass and metal gobos, prisms, animation wheels, frost filters, iris, shutters, motors, belts, wiring, discharge lamps, and LEDs.

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

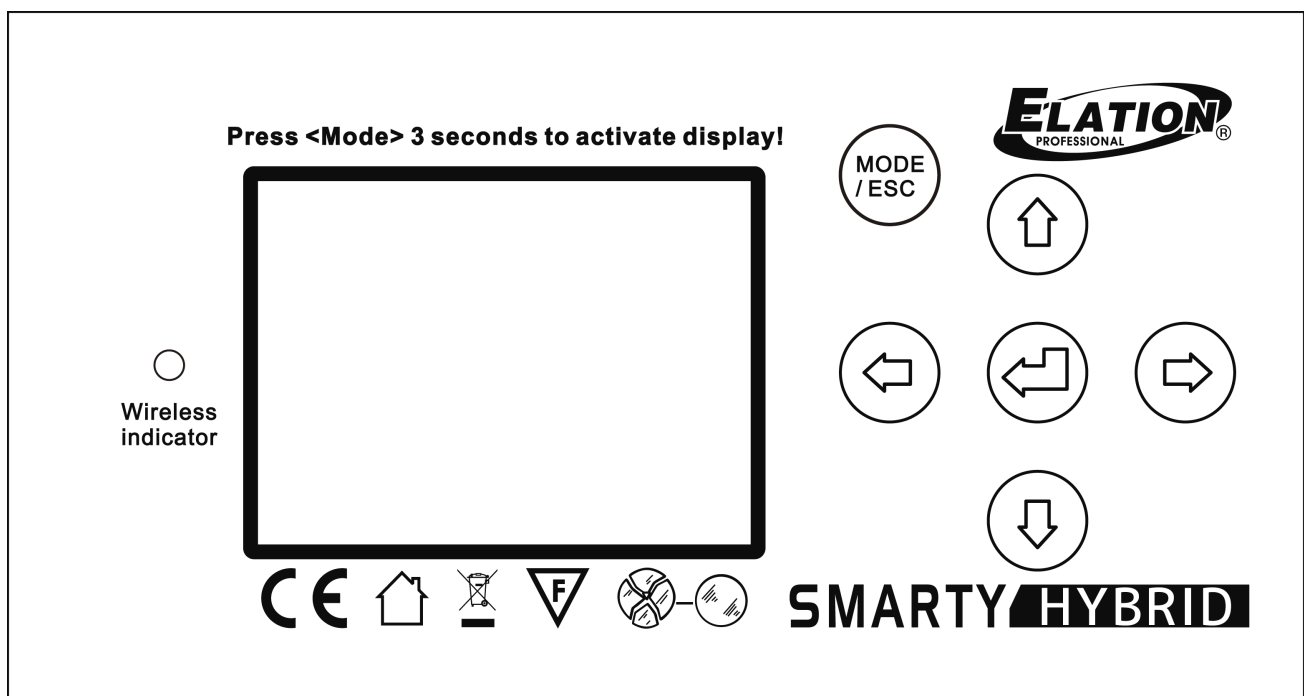
DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING MOVING HEAD FIXTURES, AND LASERS WHILE UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS.
DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.



SYSTEM MENU

The fixture includes an easy to navigate system menu. The 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 - Supports Software Versions: ≥ 1.1.2

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 |
| | Slave Mode | Slave1, Slave2, Slave3 | | Slave Setting |
| | Auto Program | Master / 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 Hours | xxxx (Hours) | Lamp Total ON Hours |
| | | Lamp Off Time | xxxx (Hours) | 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 | xxxx RPM | | Speeds of Head/Base Fans |
| | EnCode Info | PAN: xxxx TILT:xxxx | | PAN and TILT Encode Info |
| LAMP CONTROL | Software Version | 1U01: - 5U01: | ≥ V1.1.2 | Software Version |
| | Error Info | Error Record 1 ~ Error Record 10 | | Fixture Last 10 Error Codes |
| | 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 |
| | Service Setting | Password | Password= 050 | Service Password |
| | | RDM UID | 22A6xxxxxxxx | RDM PID Code (PSWD Required) |
| | | Clear Err. Info | ON/ OFF | Clear Error Info (PSWD Required) |
| | | 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 | YES/ NO | Update Fixture Software (see page 00) |
| | Display Setting | Shutoff Time | 02~60m 05m | Display Shut Off Time |
| | | 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 | PAN =XXX | | Initial Effect Position |
| | 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 |
| | 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) |

| ELATION SMARTY HYBRID SYSTEM MENU - Supports Software Versions: ≥ 1.1.2 | | | | |
|--|----------------|---|------------------|--|
| Features 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 |
| Reset Function | Reset All | | | Reset All Motors |
| | Reset Pan&Tilt | | | Reset Pan/Tilt |
| | Reset Colors | | | Reset Color Wheel |
| | Reset Gobos | | | Reset Gobos |
| | Reset Shutter | | | Reset Shutter |
| | Reset Others | | | Reset Other Motors |
| Effect Adjust | Test Channel | PAN | | Test function |
| | Manual Control | PAN =XXX, | | Fine Adjustments |
| | Calibration | Calibration Password | | Password 050 (PSWD Required) |
| User Mode Set | User Mode | Standard Mode | | DMX Channel Modes |
| | | Extended Mode | | |
| | | User Mode A | | User Defined Channel Assignment |
| | | User Mode B | | |
| | | User Mode C | | |
| | Edit User Mode | Edit User Mode A | Max Channel = XX | Edits User Defined Channel Assignments |
| | | Edit User Mode B | | |
| | | Edit User Mode C | PAN = CH01 | |
| Edit Program | Select Program | Auto Pro Part1 = Program 1~10 (Program 1) | | Select Programs To Be Run |
| | | Auto Pro Part2 = Program 1~10 (Program 2) | | |
| | | Auto Pro Part3 = Program 1~10 (Program 3) | | |
| | Edit Program | Program 1 | Program Test | Testing Program |
| | | : | Step 01=SCxxx | Program In Loop |
| | | Program 10 | Step 64=SCxxx | Save and Exit |
| | Edit Scenes | Edit Scene 001 | Pan,Tilt,..... | Save and Automatically Return |
| | | ~ | --Fade Time-- | Manual Scenes Edit |
| | | Edit Scene 250 | --Scene Time-- | |
| | | | Input By Outside | Stores Scenes via Ext DMX Console |
| Rec. Controller | XX~XX | | | Automatic Scenes Recorder |

| ELATION SMARTY HYBRID SYSTEM MENU - UPDATE WITH SOFTWARE VERSION $\geq 1.2.2$ | | | | |
|--|------------------|---|--------------------------|--------------------------------|
| Features 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 |
| 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 xxxx (Hours) | Total Lamp Time Usage |
| | | | Active Time xxxx (Hours) | Active Lamp Time Usage |
| | | | Idle Time xxxx (Hours) | Idle Lamp Time |
| | | | Lamp Life (% Percent) | Lamp Life |
| | | Lamp Off Time | xxxx (Hours) | 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 |

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

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

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

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

PERSONALITY – Service Setting - Password (050)

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

PERSONALITY – Service Setting - RDM UID

Select various submenus via RDM. RDM stands for "Remote Device Management", which provides the ability to control the device remotely while connected to a DMX-bus. ANSI E1.20-2006 by ESTA specifies the RDM standard as an extension of the DMX512 protocol. Manual settings like adjusting the DMX starting address are no longer needed. This is especially useful when the device is installed in a remote area.

RDM ready and conventional DMX devices can be operated in one DMX line. The RDM protocol sends its own packages in the DMX512 data feed and does not influence conventional devices. If DMX splitters are used and RDM control is to be used, these splitters must support RDM. The number and type of RDM parameters depend on the RDM controller being used.

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.

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 (011)



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 wear 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

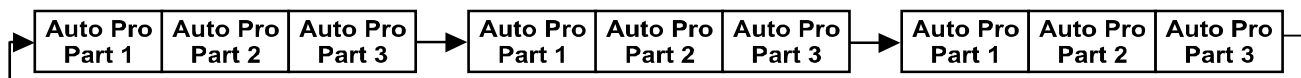
Create user defined channel orders allowing the fixture to match the channel order of other fixtures on the market for easier operation. A total of three user modes may be configured: User Mode A, User Mode B, and User Mode C.

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.

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:

1. 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.

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

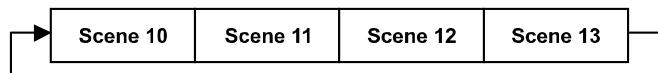
Auto Pro Part 1 is Program 2

Auto Pro Part 2 is Program 3

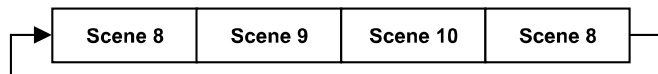
Auto Pro Part 3 is Program 6

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

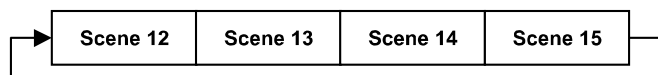
Part 1:



Part 2:



Part 3:



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.

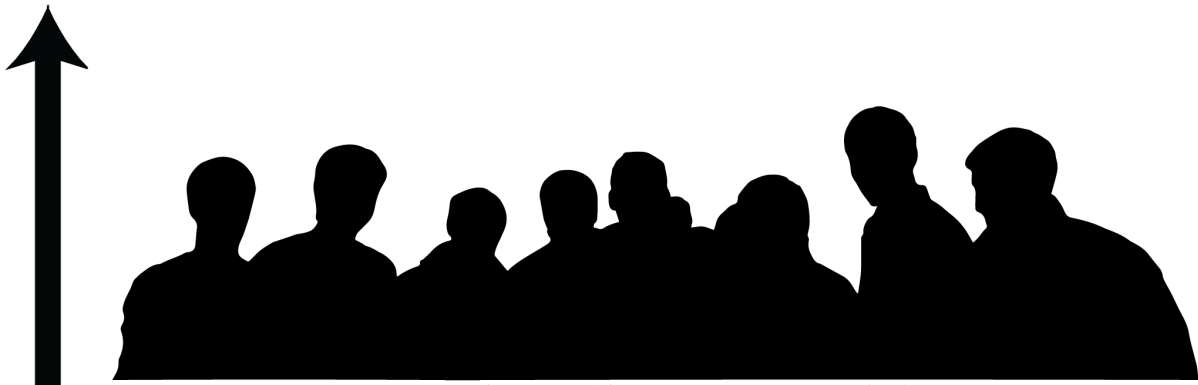
E-FLY WIRELESS INSTALLATION LOCATION GUIDELINES

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.

**9.8 ft (3m)
Above Ground**



DMX CHANNEL FUNCTIONS AND VALUES

ELATION SMARTY HYBRID

DMX Channel Values / Functions (34 DMX Channels)

Supports Software Versions: $\geq 1.2.1$

Features are subject to change without any prior written notice.

*Rotation direction (Clockwise or Counterclockwise) of effects depends on orientation of the fixture head and Pan/Tilt settings.

| MODE / CHANNEL | | VALUE | FUNCTION |
|----------------|----------|-------|--------------------------------------|
| STANDARD | EXTENDED | | |
| 1 | 1 | | PAN MOVEMENT |
| | | 0-255 | PAN Movement |
| 2 | 2 | | PAN FINE MOVEMENT FINE |
| | | 0-255 | Fine 16-bit Control of PAN Movement |
| 3 | 3 | | TILT MOVEMENT |
| | | 0-255 | TILT Movement |
| 4 | 4 | | TILT MOVEMENT |
| | | 0-255 | Fine 16-bit Control of TILT Movement |
| 5 | 5 | | CYAN COLOR |
| | | 0-255 | 0-WHITE ~ 255-100% CYAN |
| | 6 | | CYAN COLOR FINE |
| | | 0-255 | CYAN FINE 16-bit Adjustment |
| 6 | 7 | | MAGENTA COLOR |
| | | 0-255 | 0-WHITE ~ 255-100% MAGENTA |
| | 8 | | MAGENTA COLOR FINE |
| | | 0-255 | MAGENTA FINE 16-bit Adjustment |
| 7 | 9 | | YELLOW COLOR |
| | | 0-255 | 0-WHITE ~ 255-100% YELLOW |
| | 10 | | YELLOW COLOR FINE |
| | | 0-255 | YELLOW FINE 16-bit Adjustment |

| MODE / CHANNEL | | VALUE | FUNCTION |
|----------------|----------|---------|--|
| STANDARD | EXTENDED | | |
| 8 | 11 | | COLOR WHEEL |
| | | 0-10 | OPEN / WHITE |
| | | 11-19 | RED - [RGB = 255, 0, 0] |
| | | 20-28 | GREEN - [RGB = 0, 255, 0] |
| | | 29-37 | YELLOW - [RGB = 255, 255, 0] |
| | | 38-46 | MAGENTA - [RGB = 255, 0, 255] |
| | | 47-55 | ORANGE - [RGB = 255, 102, 0] |
| | | 56-64 | AQUA - [RGB = 10, 148, 22] |
| | | 65-73 | PINK - [RGB = 217, 89, 153] |
| | | 74-82 | CYAN - [RGB = 53, 227, 227] |
| | | 83-91 | QUAD COLOR [R=163,8,8] [Y=242, 242,5] [B=11,71,212] [G=33,181,57] |
| | | 92-100 | CTB - [RGB = 134, 165, 227] |
| | | 101-109 | UV - [RGB = 70, 19, 173] |
| | | 110-118 | CTO - [RGB = 209, 154, 92] |
| | | 119-127 | BLUE - [RGB = 0, 51, 255] |
| | | 128-189 | *Clockwise COLOR Rotation from FAST to SLOW |
| | | 190-193 | NO Rotation |
| | | 194-255 | *Counter-Clockwise COLOR Rotation from SLOW to FAST |
| | 12 | | COLOR WHEEL FINE ADJUSTMENT |
| | | 0-255 | FINE 16-bit Adjustment of Color Wheel to Any Position |

| MODE / CHANNEL | | VALUE | FUNCTION |
|----------------|----------|---------|--|
| STANDARD | EXTENDED | | |
| 9 | 13 | | ROTATING GOBOS, CONTINUOUS ROTATION [WHEEL 1] |
| | | 0-10 | BEAM OPEN |
| | | 11-21 | SPOT OPEN |
| | | 22-31 | Rotate Gobo 1 |
| | | 32-41 | Rotate Gobo 2 |
| | | 42-51 | Rotate Gobo 3 |
| | | 52-61 | Rotate Gobo 4 |
| | | 62-71 | Rotate Gobo 5 |
| | | 72-81 | Rotate Gobo 6 |
| | | 82-91 | Rotate Gobo 7 |
| | | 92-101 | Rotate Gobo 8 |
| | | 102-112 | Shake SLOW to FAST Gobo 1 |
| | | 113-123 | Shake SLOW to FAST Gobo 2 |
| | | 124-134 | Shake SLOW to FAST Gobo 3 |
| | | 135-145 | Shake SLOW to FAST Gobo 4 |
| | | 146-156 | Shake SLOW to FAST Gobo 5 |
| | | 157-167 | Shake SLOW to FAST Gobo 6 |
| | | 168-178 | Shake SLOW to FAST Gobo 7 |
| | | 179-189 | Shake SLOW to FAST Gobo 8 |
| | | 190-221 | *Counter-Clockwise Gobo Wheel Rotation from FAST to SLOW |
| | | 222-223 | RESERVED |
| | | 224-255 | *Clockwise Gobo Wheel Rotation from SLOW to FAST |
| 10 | 14 | | ROTATING GOBOS, INDEX ROTATION [WHEEL 1] |
| | | 0-127 | Gobo Indexing |
| | | 128-189 | *Clockwise Gobo Rotation from FAST TO SLOW |
| | | 190-193 | NO Rotation |
| | | 194-255 | *Counter-Clockwise Gobo Rotation from SLOW to FAST |
| | 15 | | ROTATING GOBOS, FINE INDEX ROTATION [WHEEL 1] |
| | | 0-255 | Gobo Rotation FINE 16-bit Indexing |
| | | | |

| MODE / CHANNEL | | VALUE | FUNCTION |
|----------------|--|---------|---|
| STANDARD | EXTENDED | | |
| 11 | 16 | | STATIC / FIXED GOBOS [GOBO WHEEL 2] |
| | | 0-9 | OPEN |
| | | 10-17 | Static / Fixed Gobo 1 |
| | | 18-25 | Static / Fixed Gobo 2 |
| | | 26-33 | Static / Fixed Gobo 3 |
| | | 34-41 | Static / Fixed Gobo 4 |
| | | 42-49 | Static / Fixed Gobo 5 |
| | | 50-57 | Static / Fixed Gobo 6 |
| | | 58-65 | Static / Fixed Gobo 7 |
| | | 66-73 | Static / Fixed Gobo 8 |
| | | 74-81 | Static / Fixed Gobo 9 |
| | | 82-89 | Static / Fixed Gobo 10 |
| | | 90-97 | Static / Fixed Gobo 11 |
| | | 98-105 | Static / Fixed Gobo 12 |
| | | 106-112 | Shake SLOW to FAST Gobo 1 |
| | | 113-119 | Shake SLOW to FAST Gobo 2 |
| | | 120-126 | Shake SLOW to FAST Gobo 3 |
| | | 127-133 | Shake SLOW to FAST Gobo 4 |
| | | 134-140 | Shake SLOW to FAST Gobo 5 |
| | | 141-147 | Shake SLOW to FAST Gobo 6 |
| | | 148-154 | Shake SLOW to FAST Gobo 7 |
| | | 155-161 | Shake SLOW to FAST Gobo 8 |
| | | 162-168 | Shake SLOW to FAST Gobo 9 |
| | | 169-175 | Shake SLOW to FAST Gobo 10 |
| | | 176-182 | Shake SLOW to FAST Gobo 11 |
| | | 183-189 | Shake SLOW to FAST Gobo 12 |
| | | 190-221 | *Clockwise Gobo Wheel Rotation from FAST to SLOW |
| 222-223 | RESERVED | | |
| 224-255 | *Counter-Clockwise Gobo Wheel Rotation from SLOW to FAST | | |
| | 17 | | STATIC / FIXED GOBOS, FINE INDEX ROTATION [WHEEL 2] |
| | | 0-255 | Gobo Rotation FINE 16-bit Indexing |
| | | | |

| MODE / CHANNEL | | VALUE | FUNCTION |
|----------------|----------|---|---|
| STANDARD | EXTENDED | | |
| 12 | 18 | | ROTATING PRISMS, PRISM / GOBO MACROS |
| | | 0-31 | OPEN |
| | | 32-64 | 16-Facet PRISM |
| | | 65- 94 | 4-Facet Linear PRISM |
| | | 95- 127 | 16 + 4 Facet PRISMS COMBINED |
| | | 128-135 | Prism / Gobo Macro 1 |
| | | 136-143 | Prism / Gobo Macro 2 |
| | | 144-151 | Prism / Gobo Macro 3 |
| | | 152-159 | Prism / Gobo Macro 4 |
| | | 160-167 | Prism / Gobo Macro 5 |
| | | 168-175 | Prism / Gobo Macro 6 |
| | | 176-183 | Prism / Gobo Macro 7 |
| | | 184-191 | Prism / Gobo Macro 8 |
| | | 192-199 | Prism / Gobo Macro 9 |
| | | 200-207 | Prism / Gobo Macro 10 |
| | | 208-215 | Prism / Gobo Macro 11 |
| | | 216-223 | Prism / Gobo Macro 12 |
| | | 224-231 | Prism / Gobo Macro 13 |
| | | 232-239 | Prism / Gobo Macro 14 |
| | | 240-247 | Prism / Gobo Macro 15 |
| | | 248-255 | Prism / Gobo Macro 16 |
| 13 | 19 | | ROTATING PRISMS, PRISMS INDEX ROTATION |
| | | 0-127 | Prism Indexing |
| | | 128-189 | *Clockwise Prism Rotation from FAST to SLOW |
| | | 190-193 | NO Rotation |
| | | 194-255 | *Counter-Clockwise Prism Rotation from SLOW to FAST |
| | 20 | | ROTATING PRISMS, PRISMS FINE INDEX ROTATION |
| 0-255 | | Gobo Rotation FINE 16-bit Indexing | |
| 14 | 21 | | FOCUS |
| | | 0-255 | Continuous Adjustment from NEAR to FAR |
| | 22 | | FOCUS FINE |
| 0-255 | | Continuous FINE 16-Bit Focus Adjustment | |
| | | | |

| MODE / CHANNEL | | VALUE | FUNCTION |
|----------------|----------|---------|---|
| STANDARD | EXTENDED | | |
| 15 | 23 | | MOTORIZED ZOOM |
| | | 0-255 | ZOOM Adjustment from SMALL to BIG |
| | 24 | | MOTORIZED ZOOM FINE |
| | | 0-255 | ZOOM FINE 16-bit Adjustment |
| | 25 | | AUTO FOCUS |
| | | | SPOT MODE |
| | | 0-31 | AUTO FOCUS OFF |
| | | 32-59 | 26.2 ft (8m) |
| | | 60-87 | 29.5 ft (9m) |
| | | 88-115 | 32.8 ft (10m) |
| | | 116-143 | 36.0 ft (11m) |
| | | 144-171 | 39.4 ft (12m) |
| | | 172-199 | 42.7 ft (13m) |
| | | 200-227 | 46.0 ft (14m) |
| | | 228-255 | 49.2 ft (15m) |
| | | | BEAM MODE |
| | | 0-21 | AUTO FOCUS OFF |
| | | 22-39 | 26.2 ft (8m) |
| | | 40-57 | 29.5 ft (9m) |
| | | 58-75 | 32.8 ft (10m) |
| | | 76-93 | 36.0 ft (11m) |
| | | 94-111 | 39.4 ft (12m) |
| | | 112-129 | 42.7 ft (13m) |
| | | 130-147 | 46.0 ft (14m) |
| | | 148-165 | 49.2 ft (15m) |
| | | 166-183 | 52.5 ft (16m) |
| | | 184-201 | 55.8 ft (17m) |
| | | 202-219 | 59.0 ft (18m) |
| | | 220-237 | 62.3 ft (19m) |
| | | 238-255 | 65.6 ft (20m) |
| | 26 | | AUTO FOCUS FINE |
| | | 0-255 | Continuous FINE 16-bit Focus Adjustment |

| MODE / CHANNEL | | VALUE | FUNCTION |
|----------------|----------|---------|--|
| STANDARD | EXTENDED | | |
| 16 | 27 | | SHUTTER, STROBE |
| | | 0-31 | Shutter CLOSED |
| | | 32-63 | NO Function (Shutter OPEN) |
| | | 64-95 | Strobe Effect SLOW to FAST |
| | | 96-127 | NO Function (Shutter OPEN) |
| | | 128-159 | Pulse Effect In Sequences |
| | | 160-191 | NO Function (Shutter OPEN) |
| | | 192-223 | Random Strobe Effect SLOW to FAST |
| | | 224-255 | NO Function (Shutter OPEN) |
| 17 | 28 | | DIMMER INTENSITY |
| | | 0-255 | Intensity 0 to 100% |
| 18 | 29 | | DIMMER INTENSITY FINE |
| | | 0-255 | Intensity FINE 16-bit Adjustment 0 to 100% |
| 19 | 30 | | FROST |
| | | 0-127 | DISABLE FROST |
| | | 128-255 | ENABLE FROST |
| | 31 | | GOBO / CMY / COLOR MACRO SPEED |
| | | 0-255 | MAX to MIN Speed |
| | | | |

| MODE / CHANNEL | | VALUE | FUNCTION |
|----------------|----------|---------|--------------------------------|
| STANDARD | EXTENDED | | |
| | 32 | | CMY / COLOR MACROS |
| | | 0-31 | OFF |
| | | 32-39 | Macro 1 |
| | | 40-47 | Macro 2 |
| | | 48-55 | Macro 3 |
| | | 56-63 | Macro 4 |
| | | 64-71 | Macro 5 |
| | | 72-79 | Macro 6 |
| | | 80-87 | Macro 7 |
| | | 88-95 | Macro 8 |
| | | 96-103 | 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 |
| | | 224-231 | Macro 25 |
| | | 232-239 | Macro 26 |
| | | 240-247 | Macro 27 |
| | | 248-255 | RANDOM CMY |
| | 33 | | PAN / TILT MOVEMENT SPEED |
| | | 0-225 | MAX to MIN Speed |
| | | 226-235 | Blackout by PAN/TILT Movement |
| | | 236-245 | Blackout by ALL WHEEL Movement |
| | | 246-255 | NO FUNCTION |
| | | | |

| MODE / CHANNEL | | VALUE | FUNCTION |
|----------------|----------|---------|---------------------------------------|
| STANDARD | EXTENDED | | |
| 20 | 34 | | LAMP ON/OFF, RESET, INTERNAL PROGRAMS |
| | | 0-19 | COLOR Change Normal |
| | | 20-29 | COLOR Change to Any Position |
| | | 30-39 | RESERVED |
| | | 40-49 | LAMP ON |
| | | 50-59 | LAMP OFF |
| | | 60-66 | LAMP POWER 190W |
| | | 67-73 | LAMP POWER 240W |
| | | 74-79 | LAMP POWER 280W |
| | | 80-84 | All MOTORS Reset |
| | | 85-87 | MOVEMENT Reset |
| | | 88-90 | COLOR Reset |
| | | 91-93 | GOBO Reset |
| | | 94-96 | DIMMER Reset |
| | | 97-99 | OTHER MOTORS 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 |
| | | 200-219 | INTERNAL PROGRAM 6 |
| | | 220-239 | INTERNAL PROGRAM 7 |
| | | 240-255 | RESERVED |

DMX CHANNEL UPDATE WITH SOFTWARE VERSION ≥1.2.4

See highlighted items below which have been updated with this software update.

| MODE / CHANNEL | | VALUE | FUNCTION |
|----------------|----------|---------|---------------------------------------|
| STANDARD | EXTENDED | | |
| 20 | 34 | | LAMP ON/OFF, RESET, INTERNAL PROGRAMS |
| | | 0-19 | COOR Change Normal |
| | | 20-29 | COLOR Change to Any Position |
| | | 30-39 | RESERVED |
| | | 40-49 | LAMP ON |
| | | 50-59 | LAMP OFF |
| | | 60-66 | LAMP POWER 190W |
| | | 67-73 | LAMP POWER 240W |
| | | 74-79 | LAMP POWER 280W |
| | | 80-84 | All MOTORS Reset |
| | | 85-87 | MOVEMENT Reset |
| | | 88-90 | COLOR Reset |
| | | 91-93 | GOBO Reset |
| | | 94-96 | DIMMER Reset |
| | | 97-99 | OTHER MOTORS 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 |
| | | 200-219 | INTERNAL PROGRAM 6 |
| | | 220-239 | INTERNAL PROGRAM 7 |
| | | 240-243 | RESERVED |
| | | 244-246 | Home Position Before Power OFF |
| | | 247-249 | Home Position OFF |
| | | 250-251 | Display OFF |
| | | 252-253 | Display ON |
| | | 254-255 | RESERVED |

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”** where 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 corrected by a technician. The errors in question will remain flashing in the display as a reminder of internal errors.

| Error Codes subject to change without notice. | |
|---|---|
| ERROR CODES | DESCRIPTION |
| PAN Er | Movement is not located in the default position after the reset. This message will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a motor failure (defective motor or a defective motor IC drive on the main PCB). This error may also be displayed if the head/yoke was blocked during a reset function. |
| TILT Er | |
| Cyan Color Wheel Er | Movement is not located in the default position after the reset. This message will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a motor failure (defective motor or a defective motor IC drive on the main PCB). |
| Magenta Color Wheel Er | |
| Yellow Color Wheel Er | |
| Color Wheel Er | |
| Gobo Wheel 1 Er | |
| Gobo Rotation Wheel 1 Er | |
| Dimmer Wheel Er | |
| Fixed Gobo Wheel Er | |
| Prim 3 Wheel Er | |
| Prism Rotation 1 Wheel Er | |
| Prism 16 Wheel Er | |
| Focus Wheel Er | |
| Zoom Wheel Er | |
| Frost Wheel Er | |

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.

EFFECTS

Beam, Spot, and Wash Modes

Motorized Zoom

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

COLOR

Full CMY Color Mixing System

13 Colors including Quad Color, CTB, CTO, UV, and Blue

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 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 Ethernet In/Out

Neutrik TRUE1 Power In/Out

SIZE / WEIGHT

Length: 15.2" (385mm)

Width: 15.9" (405mm)

Vertical Height: 24.0" (610mm)

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



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

FCC STATEMENT

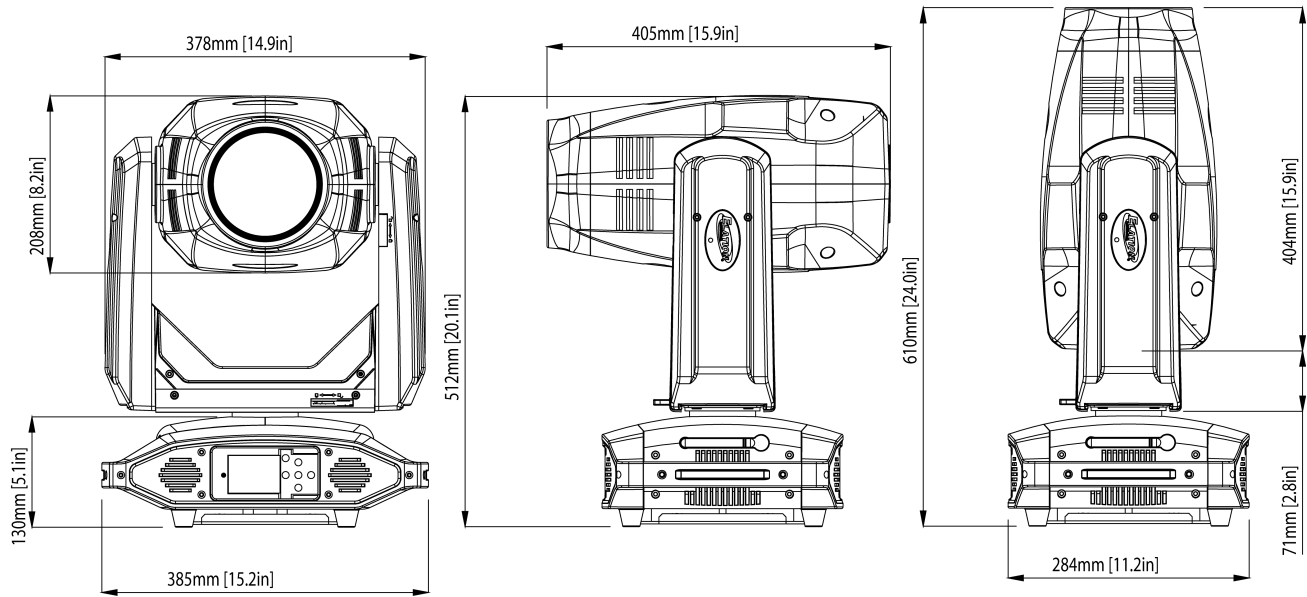
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

DIMENSIONAL DRAWINGS



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

OPTIONAL ACCESSORIES

| 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 |
| SCABLE60 | Safety Cable 24" (610mm) 60 lbs. (27kg) Rating |
| EFL001 | E-FLY™ External Wireless DMX Transceiver |
| AC5PDMX5PRO | 5 ft. (1.5m) 5pin PRO DMX Cable |
| CAT6PRO5 | 5 ft. (1.5m) CAT6 etherCON Cable |
| | Additional Cable Lengths Available |

