# ELATION
## PROFESSIONAL

*Artiste*
## VAN GOGH™

## 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 |
|------|------------------|--------------------|-------------------|-------|
| 04/30/19 | 1.0 | 1.3.0 | 22 / 36 | Initial release. |
| 06/25/20 | 1.1 | N/C | NO CHANGE | Updated thermal |
| 12/22/20 | 1.2 | 1.3.3 | NO CHANGE | Updated specifications and primary / secondary modes, corrected DMX Traits |
| 03/16/21 | 1.3 | N/C | NO CHANGE | Updated sun protection, & FCC |
| 04/20/22 | 1.4 | N/C | NO CHANGE | Updated General Information, added RDM |
| 08/29/22 | 1.5 | N/C | NO CHANGE | Updated Installation Guidelines and System Menu; added Software Updates. |
| 09/21/22 | 1.6 | N/C | NO CHANGE | Updated System Menu |
| 11/22/22 | 1.7 | 1.4.0 | NO CHANGE | Updated DMX Traits, RDM, System Menu, & Specifications, & added Rigging positions diagram |
| 08/30/23 | 1.8 | N/C | NO CHANGE | Updated Specifications, Dimensional Drawings |

# C O N T E N T S

# 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. **This device is intended for use by professionally trained personnel only, and is not suitable for private use.**

**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**
Fresnel Lens (installed)
PC Lens
Omega Brackets (x2)
Power Cable

**CUSTOMER SUPPORT**

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

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

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**+31 45 546 85 63 | Fax +31 45 546 85 96 |** support@elationlighting.eu
**REPLACEMENT PARTS** please visit parts.elationlighting.com

⚠ **I M P O R T A N T   N O T I C E !**

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

# LIMITED WARRANTY (USA ONLY)

A. Elation Professional hereby warrants, to the original purchaser, Elation Professional products to be free of manufacturing defects in material and workmanship for a period of two years (730 days), and Elation Professional product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days), from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Elation Professional factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional shall have no liability whatsoever 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!**

**MINIMUM DISTANCE TO OBJECTS/SURFACES**
**MUST BE 6.6 FEET (2 METERS)**
**MAXIMUM TEMP OF EXTERNAL SURFACE 185° F (85°C)**
**MINIMUM DISTANCE OF INFLAMMABLE MATERIALS**
**FROM THE SURFACE 1.6 FEET (0.5 METER)**

# SAFETY GUIDELINES

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

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

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

**DO NOT** block any air ventilation slots.

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

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

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.

# FIXTURE TRANSPORT AND HANDLING

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

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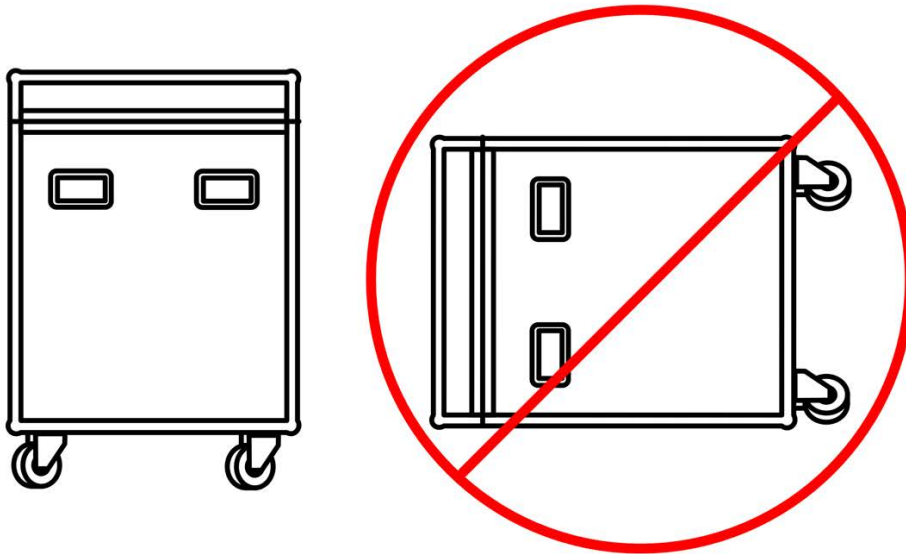


# MAINTENANCE GUIDELINES

⚠ **DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!**

## CLEANING

Frequent cleaning is recommended to insure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean the external lens surface at least every 20 days with a soft cloth to avoid dirt/debris accumulation. **NEVER** use alcohol, solvents, or ammonia-based cleaners.

## MAINTENANCE

Regular inspections are recommended to insure proper function and extended life. There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation dealer. Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall. Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).

Electric power supply cables must not show any damage, material fatigue or sediments. **NEVER** remove the ground prong from the power cable.

# FIXTURE OVERVIEW
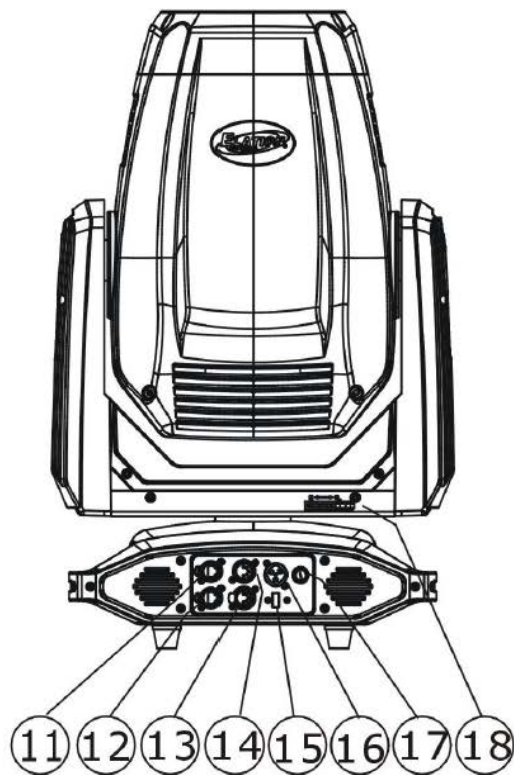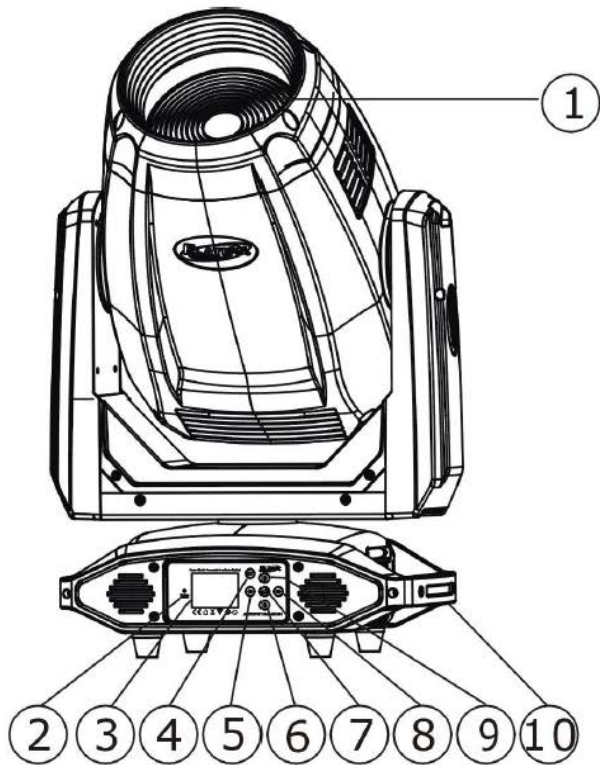
1. **Lens** (PC and Fresnel included)

2. **E-FLY Wireless Indicator**

3. **System Menu Display**

4. **MODE/ESC Button**

5. **LEFT Button**

6. **DOWN Button**

7. **ENTER Button**

8. **RIGHT Button**

9. **UP Button**

10. **Handle(s)**

11. **RJ45 Input**

12. **RJ45 Output**

13. **5pin DMX Output**

14. **5pin DMX Input**

15. **Service Port**

16. **Fuse**

17. **Power Input**

18. **Pan Lock**

# C O L O R S

## COLOR FLAGS

CYAN    MAGENTA    YELLOW    C.T.O.

## COLOR WHEEL

RED    GREEN    ORANGE    C.T.B.    U V    PINK    DARK BLUE

# FAN MODES and LOW NOISE OPERATION

The Artiste Van Gogh is a high-performance fixture suited for many applications. For noise critical environments like Theater, Opera or Orchestra Halls, it offers various operation modes to remove any distraction for the audience and performers. Modes can be changed remotely via the DMX control channel, allowing the fixture to offer high output or whisper silent operation at a moment's notice. All modes smoothly transition over a brief period, preventing unwanted attraction to the fixture.

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

**Fan Modes**

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

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

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

**Low Noise Modes**

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

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

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

# PC / FRESNEL LENS INSTALLATION



Tilt Lock

Pan Lock

**1.** Before removing top cover, place fixture on a stable flat surface in an indoor dust free location.
Ensure moving head is locked into a neutral upright position with the PAN and TILT locks both engaged.
**NOTE:** The top cover is on the same side as the PAN lock when the head is positioned vertically.
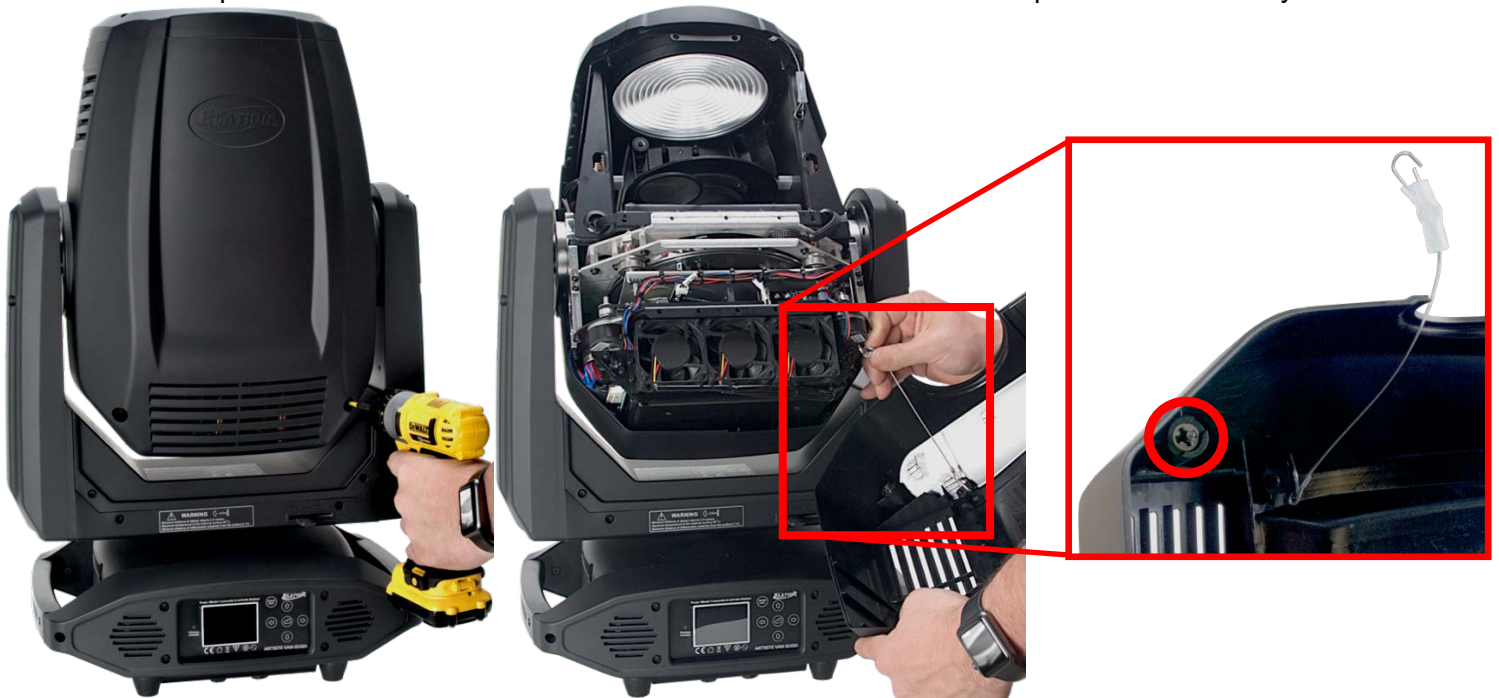


**2.** Loosen (2x) Phillips head screws to remove the top cover. (Screws integrated in cover - cannot be removed).
Gently lift the top cover away from the fixture and unclip the safety cable to remove cover completely.

# PC / FRESNEL LENS INSTALLATION

**3.** The lens is secured with (4x) Phillips head screws and a safety cable. Unclip the safety cable and remove the
(4x) Phillips head screws to remove the lens. **NOTE:** Fixture ships with the **Fresnel** lens as default.

**Fresnel Lens**          **PC Lens**

**4.** To install the included **PC** lens, first clip the lens safety cable onto the head and then position it into place and then install / tighten the (4x) Phillips head screws. Reinstall top cover and tighten (2x) Phillips-head screws.

# INSTALLATION GUIDELINES

⚠ **FLAMMABLE MATERIAL WARNING**
Keep fixture minimum 5.0 feet (1.5m) away from flammable materials and/or pyrotechnics.

⚠ **ELECTRICAL CONNECTIONS**
A qualified electrician should be used for all electrical connections and/or installations.

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

⚠ **MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 6.6 FEET (2 METERS)**

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

⚠ **MAXIMUM TEMPERATURE OF EXTERNAL SURFACE 185° F (85°C)**

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

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

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

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

Fixture ambient operating temperature range is **14° to 113°F. (-10° to 45°C)**

Do not use the fixture under or above this temperature.

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

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

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

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

# INSTALLATION GUIDELINES

## OMEGA BRACKETS INSTALLATION

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



## CLAMP INSTALLATION

When mounting fixture to truss, be sure to secure an appropriately rated professional grade rigging clamp to the included **Omega Brackets** using an M10 screw fitted through the center hole of the **Omega Brackets**. The fixture provides a built-in rigging point for a **SAFETY CABLE**. Be sure to only use one of the designated rigging points for the safety cable and never secure a safety cable to a carrying handle.

## RIGGING

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

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

## ART-NET | sACN CONNECTION

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

# 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.**
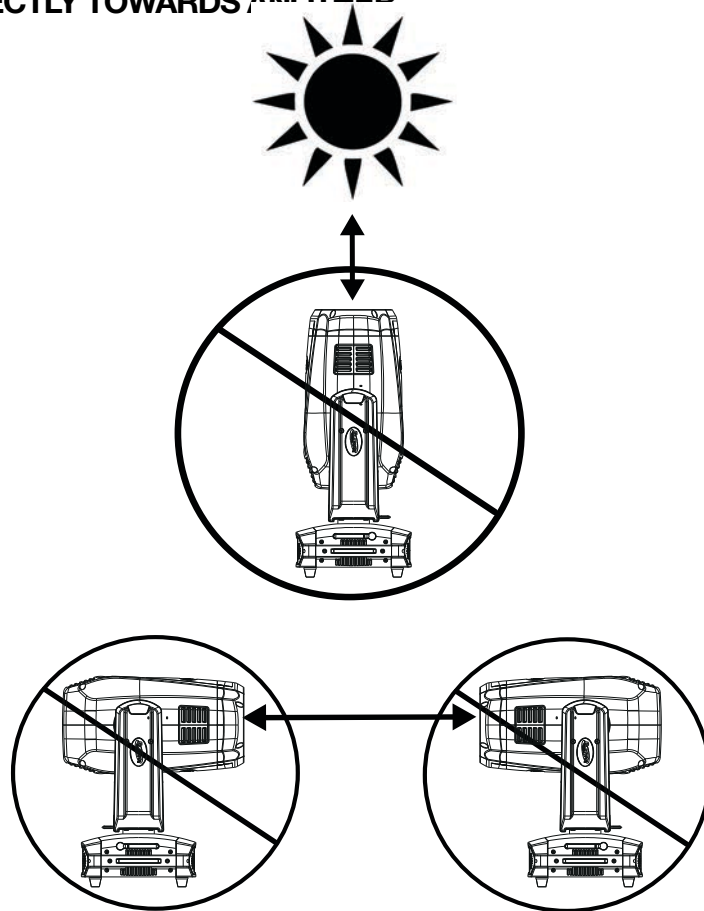
# INSTALLATION GUIDELINES

## RIGGING

Overhead rigging requires extensive experience, including among others, calculating 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. The Artiste Van Gogh can be mounted upright, upside down, or sideways.
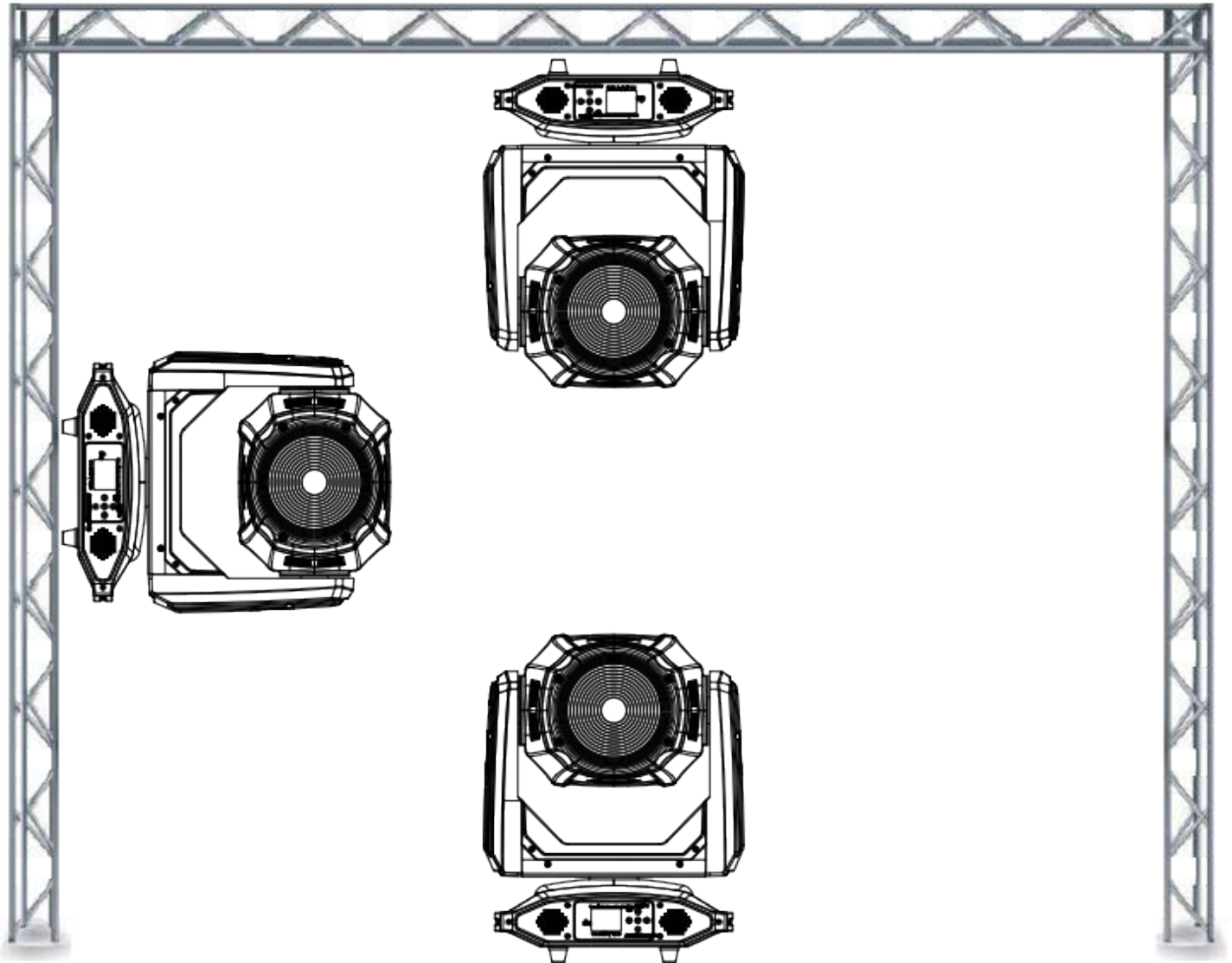
# INSTALLATION GUIDELINES

**HIBERNATION MODE**

This mode disables motors and most electronics in order to reduce wear on the fixture's internal components. The user has the ability the define the period that the fixture can remain inactive before it enters hibernation mode. This feature can be accessed by navigating in the main menu to PERSONALITY > STATUS SETTINGS > HIBERNATION (see the **System Menu** section of this manual for detailed information). The default setting for hibernation delay time is 15 minutes, but it can be adjusted from 1 min to 99 min, or switched off completely.

- Hibernation mode is activated when the fixture enters hibernation after the timeout expires. Default is 15 minutes.
- Hibernation mode is deactivated when DMX signal is connected.

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. This allows 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 set the fixture to a safe Pan Tilt position manually prior to putting the fixture in hibernation mode.

**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.**

# 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 Hexadecimal | Personality ID |
|----------|-----------|------------------------------|----------------|
| 0X5D2 | OPEN | 1490 | 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 |
| Pan Invert |
| Tilt Invert |
| Display Invert |

# 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.

# SYSTEM MENU

| MAIN MENU | SUB MENU | OPTIONS / VALUES (Default Settings in **BOLD**) | | DESCRIPTION |
|---|---|---|---|---|
| | | Features subject to change without notice. | | |
| | | *Rotation direction (Clockwise/Counterclockwise) and control of effects depends on head orientation and Pan/Tilt settings. | | |
| FUNCTION | Set Dmx Address | A001~AXXX | | DMX Address Setting |
| | Dmx Value | ALL…… | Control… | DMX Value Display |
| | Secondary Mode | Secondary 1, Secondary 2, Secondary 3 | | Secondary Setting |
| | Auto Program | Primary / **Alone** | | Auto Program |
| INFORMATION | Time Information | Current Time | XXXX (Hours) | Fixture Run Time From Power ON |
| | | Total Run Time | XXXX (Hours) | Fixture Total Run Time |
| | | Last Run Time | XXXX (Hours) | Fixture Last Run Time |
| | | LastRun Password | Password=**038** | **(PSWD Required)** |
| | | Clear Last Run | ON / **OFF** | Clear Fixture Last Run Time |
| | Temperature Info | Head Temperature | XXX C° / **F** ° | Temperature in Fixture Head |
| | | Base Temperature | XXX C° / **F** ° | Temperature in Fixture Base |
| | Ethernet IP | 000 . 000 . 000 . 000 | 000 . 000 . 000 . 000 | Displays Fixture Ethernet Address |
| | Fan Info | HeadFan: xxxx RPM … | | Displays Fan Info |
| | Software Version | Vx.x.x | | Software Version |
| | Error Info | Error Record 1 ~ Error Record 10 | | Fixture Last 10 Error Codes |
| PERSONALITY | Status Settings | Address via DMX | **ON**/OFF | Address Via DMX |
| | | No DMX Status | Close / **Hold** / Auto | Fixture State When NO DMX Signal |
| | | Pan Reverse | ON/**OFF** | Pan Reverse Movement |
| | | Tilt Reverse | ON/**OFF** | Tilt Reverse Movement |
| | | Pan Degree | 630/**540** | Pan Degree Select |
| | | Feedback | **ON**/OFF | Movement Feedback |
| | | Movement Speed | **Normal** / Slow | Movement Speed |
| | | P/T Brake Mode | **Smooth**/Fast | Pan/Tilt Brake Mode |
| | | Hibernation | OFF, 01M~99M, **15M** | Stand By Mode |
| | Service Setting | Password | Password=**050** | Service Password |
| | | Clear Err. Info | ON/**OFF** | Clear Error Info **(PSWD Required)** |
| | | DFLT Pow. EflyOn | **ON**/OFF | ***E-FLY Optional – Not Included*** |
| | | USB Update | YES/**NO** | Service Port - Software Updates |
| | Fans Control | **Auto**, High, Low, Studio, Mute | | Select Fan Speeds |
| | Display Setting | Shutoff Time | 02~60m **05m** | Display Shut Off Time |
| | | Display Reverse | 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 | | E-FLY Wireless Off **(E-FLY Optional)** |
| | | **DMX & E-FLY** | | DMX In/Out & E-FLY **(E-FLY Optional)** |
| | | E-Fly & Out | | E-Fly sends signal out |
| | | Art-Net | | Select Art-Net |
| | | sACN | | Activate sACN |
| | | DMX In & E-Fly Out | | DMX input, E-Fly output |
| | Ethernet IP | XXX . XXX . XXX . XXX | | Ethernet IP (PSWD Required) |
| | Ether Mask IP | XXX . XXX . XXX . XXX | | Ethernet Mask IP (PSWD Required) |
| | Set Universe | **000** - 32767 | | Set ArtNet Universe |
| | DHCP | On / **Off** | | Auto assign IP address |
| | Set E-Fly Chn | 00 - 14 | | |
| | Dimmer Mode | **Standard**, Stage, TV, Architectural, Theatre, Stage2 | | Set Dimmer Mode |
| | | Delay | 0 – 10s | |
| | Refresh | **1200**, 900-1500, 2500, 4000, 5000, 6000, 10000, 15000, 20000, 25000 (Hz) | | Set LED Refresh Rate |
| | Dimmer Curve | **Linear**, Square, Inverse Square, S-Curve | | Set Dimmer Curve Mode |
| | Reset Default | ON/**OFF** | Passcode=**011** | Restore Factory Settings **(PSWD Required)** |

# SYSTEM MENU

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

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

# SYSTEM MENU

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

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

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

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

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

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

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

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

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

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

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

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

# S Y S T E M   M E N U

### PERSONALITY – 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.
2. Make sure only the fixture software update file is stored on the USB flash drive.
3. Disconnect DMX, Art-Net, and E-FLY connections and power the fixture ON.
4. Insert USB flash drive into the **UPDATE/SERVICE PORT** on the rear connection panel.
5. Navigate to the **Personality** main menu **Service Setting / USB Update** sub menu.
6. Select the software file name on the menu display and press **ENTER**.
7. Select **YES** to begin update process and **Updating…%** will show on the menu display.
8. After file is uploaded, the fixture will check the software which will take some time.
9. The fixture will perform a reset process when the software update process is complete.
10. 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.

# SYSTEM MENU

**EFFECT ADJUST – <u>Calibration</u>**

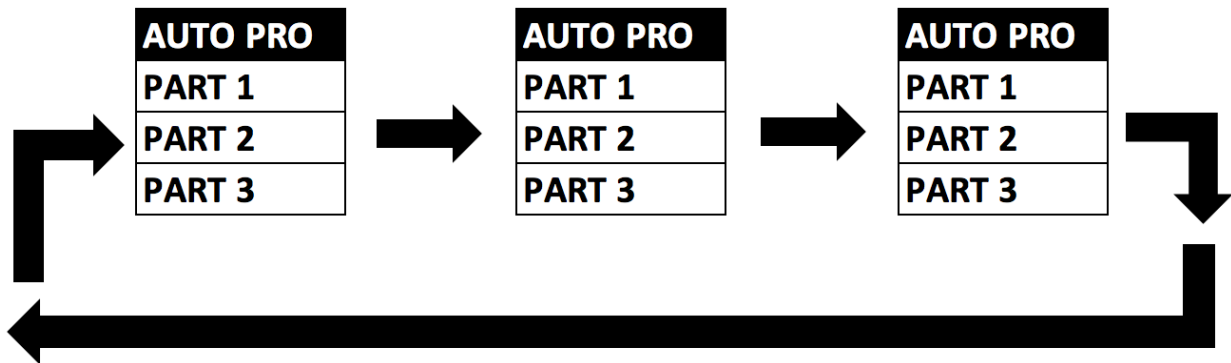⚠️ **ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION!**

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

**EDIT PROGRAM – <u>Rec. Controller</u>**
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 – <u>Working with Built-In Programs</u>**
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.

| AUTO PRO | AUTO PRO | AUTO PRO |
|----------|----------|----------|
| PART 1 | PART 1 | PART 1 |
| PART 2 | PART 2 | PART 2 |
| PART 3 | PART 3 | PART 3 |

The Secondary unit receives data from the Primary unit according to the group which the Secondary unit was assigned to. If e.g., a Secondary unit is set to **"Secondary 1"** in the menu **"Set to Secondary"**, the Primary unit sends **"Auto Program Part 1"** to the Secondary unit. If set to **"Secondary 2"**, the Secondary unit receives **"Auto Program Part 2"**.

# S Y S T E M   M E N U

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

To start an Auto Program, proceed as follows:

**1. Secondary Setting**
Select **"Function Mode"**.
Press **ENTER** to confirm.
Select **"Set to Secondary"**.
Press **ENTER** to confirm.
Select **"Secondary 1"**, **"Secondary 2"** or **"Secondary 3"**.
Press **ENTER** to confirm.
Press **MODE/ESC** 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** 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.

**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** to return to the main menu.

# SYSTEM MENU

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

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

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

| PART 1 | PART 2 | PART3 |
|---|---|---|
| SCENE 10 | SCENE 8 | SCENE 12 |
| SCENE 11 | SCENE 9 | SCENE 13 |
| SCENE 12 | SCENE 10 | SCENE 14 |
| SCENE 13 | SCENE 8 | SCENE 15 |

# DIMMER CURVES
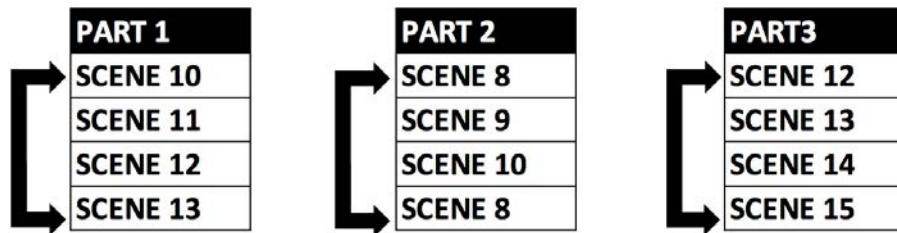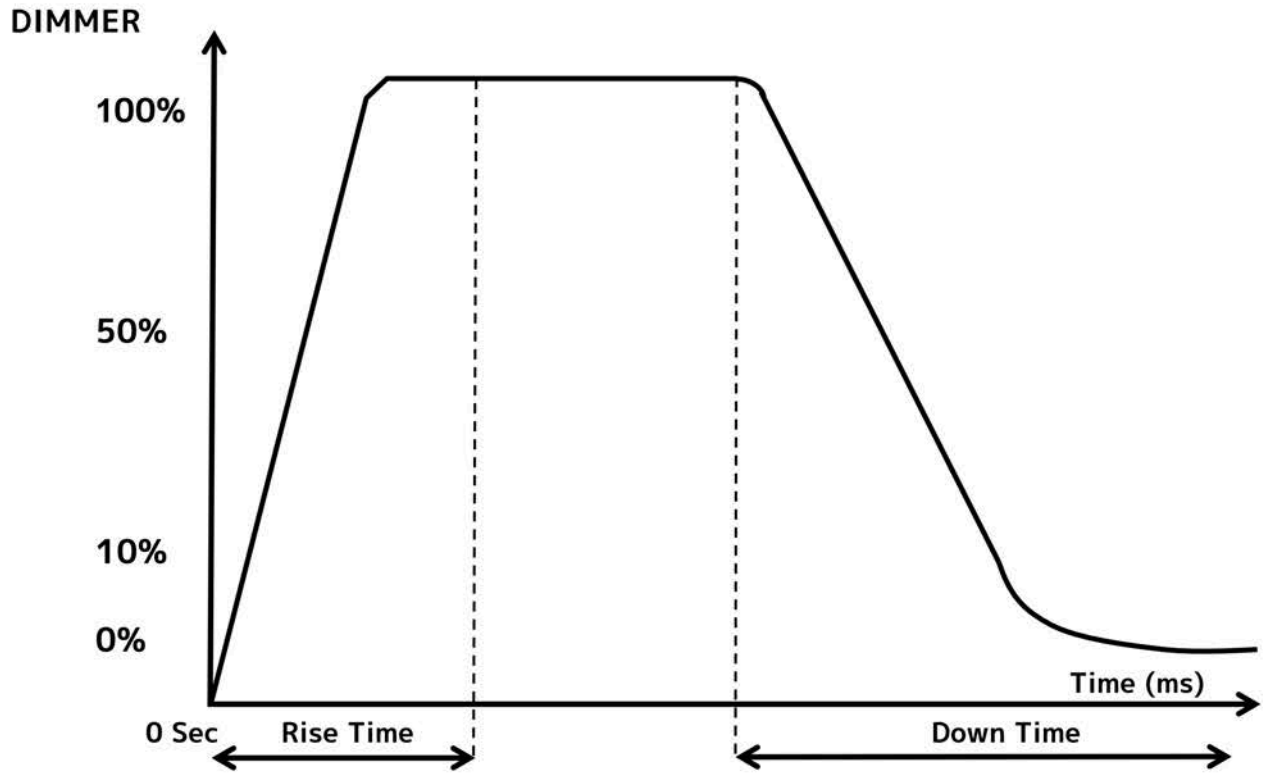


| | 0 sec Fade Time | | 1 sec Fade Time | |
|---|---|---|---|---|
| **Dimming Curve** **Ramp Effect** |  | |  | |
| | Rise Time (ms) | Down Time (ms) | Rise Time (ms) | Down Time (ms) |
| **Standard (default)** | 0 | 0 | 0 | 0 |
| **Stage** | 780 | 1100 | 1540 | 1660 |
| **TV** | 1180 | 1520 | 1860 | 1940 |
| **Architectural** | 1380 | 1730 | 2040 | 2120 |
| **Theatre** | 1580 | 1940 | 2230 | 2280 |
| **Stage 2** | 0 | 1100 | 0 | 1660 |



LINEAR



SQUARE



INVERSE SQUARE



S-CURVE
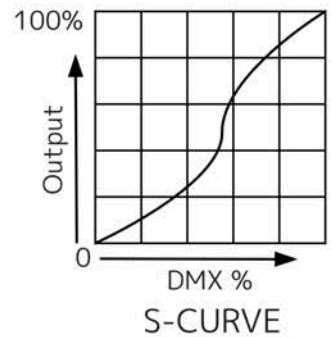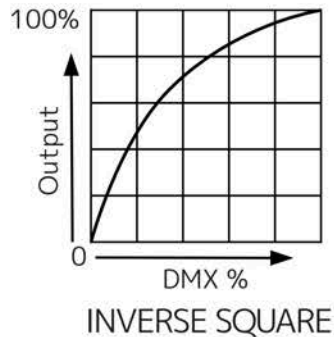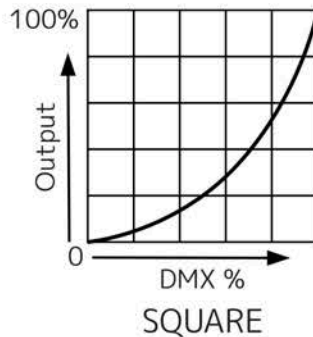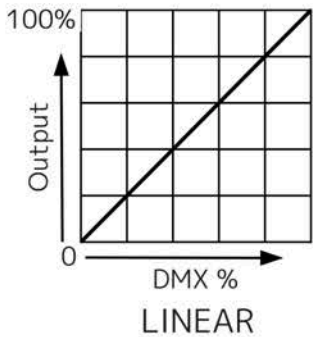
# DMX CHANNEL FUNCTIONS AND VALUES

| Standard | Extended | Value | Function | Default | Snap |
|---|---|---|---|---|---|
| | | | Features subject to change without notice. | | |
| | | | *Rotation direction (Clockwise/Counterclockwise) and control of effects depends on head orientation and Pan/Tilt settings. | | |
| 1 | 1 | | **PAN Movement 8bit:** | 127 | |
| | | 0-255 | Pan Movement | | |
| 2 | 2 | | **Pan Fine 16bit:** | 127 | |
| | | 0-255 | Fine control of Pan movement | | |
| 3 | 3 | | **TILT Movement 8bit:** | 127 | |
| | | 0-255 | Tilt Movement | | |
| 4 | 4 | | **Tilt Fine 16bit:** | 127 | |
| | | 0-255 | Fine control of Tilt movement | | |
| 5 | 5 | | **Cyan:** | | |
| | | 0-255 | Cyan (0-100% Cyan) | | |
| | 6 | | **Cyan Fine:** | | |
| | | 0-255 | Cyan Fine | | |
| 6 | 7 | | **Magenta:** | | |
| | | 0-255 | Magenta (0-100% Magenta) | | |
| | 8 | | **Magenta Fine:** | | |
| | | 0-255 | Magenta Fine | | |
| 7 | 9 | | **Yellow:** | | |
| | | 0-255 | Yellow (0-100% Yellow) | | |
| | 10 | | **Yellow Fine:** | | |
| | | 0-255 | Yellow Fine | | |
| 8 | 11 | | **CTO:** | | |
| | | 0-255 | CTO (0-100% CTO) | | |
| | 12 | | **CTO Fine:** | | |
| | | 0-255 | CTO Fine | | |
| 9 | 13 | | **Color Wheel 1:** | | |
| | | 0-15 | Open / white | | |
| | | 16-31 | Red | | |
| | | 32-47 | Green | | |
| | | 48-63 | Orange | | |
| | | 64-79 | CTB | | |
| | | 80-95 | UV | | |
| | | 96-111 | Pink | | |
| | | 112-127 | Dark Blue | | |
| | | 128-189 | Clockwise effect from fast to slow | | |
| | | 190-193 | No rotation | | |
| | | 194-255 | Counter-clockwise effect from slow to fast | | |
| 10 | 14 | | **Focus:** | 127 | |
| | | 0-255 | Continuous adjustment from near to far | | |
| 11 | 15 | | **Zoom:** | 127 | |
| | | 0-255 | Zoom adjustment from small to big | | |

| Standard | Extended | Value | Function | Default | Snap |
|---|---|---|---|---|---|
| | | | **Shutter, strobe:** | | |
| | | 0-31 | Shutter closed | | |
| | | 32-63 | No function (shutter open) | | |
| | | 64-95 | Strobe effect slow to fast | | |
| 12 | 16 | 96-127 | No function (shutter open) | | x |
| | | 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) | | |
| 13 | 17 | | **Dimmer:** | | |
| | | 0-255 | Intensity 0 to 100% | | |
| 14 | 18 | | **Dimmer Fine:** | | |
| | | 0-255 | Dimmer fine | | |
| | | | **Dim Modes:** | | |
| | | 0-20 | Standard | | |
| | | 21-40 | Stage | | |
| | | 41-60 | TV | | |
| | | 61-80 | Architectural | | |
| | | 81-100 | Theatre | | |
| | | 101- 120 | Stage 2 | | |
| | | | **Dimmer Delay Time** | | |
| | | 121 | 0s | | |
| | | 122 | 0.1s | | |
| | | 123 | 0.2s | | |
| | | 124 | 0.3s | | |
| | | 125 | 0.4s | | |
| | | 126 | 0.5s | | |
| | | 127 | 0.6s | | |
| 15 | 19 | 128 | 0.7s | | x |
| | | 129 | 0.8s | | |
| | | 130 | 0.9s | | |
| | | 131 | 1.0s | | |
| | | 132 | 1.5s | | |
| | | 133 | 2.0s | | |
| | | 134 | 3.0s | | |
| | | 135 | 4.0s | | |
| | | 136 | 5.0s | | |
| | | 137 | 6.0s | | |
| | | 138 | 7.0s | | |
| | | 139 | 8.0s | | |
| | | 140 | 9.0s | | |
| | | 141 | 10s | | |
| | | 142 - 255 | Idle | | |

| Standard | Extended | Value | Function | Default | Snap |
|---|---|---|---|---|---|
| 16 | 20 | | **Frost** | 0 | |
| | | 0-255 | Open to Full Frost | | |
| | 21 | | **Speed Of CMY & color macro Speed:** | | |
| | | 0-255 | Speed Max ―>Min | | |
| | 22 | | **Color macros - CMY and color wheel:** | | x |
| | | 0-31 | OFF | | |
| | | 32-39 | Macro1 | | |
| | | 40-47 | Macro2 | | |
| | | 48-55 | Macro3 | | |
| | | 56-63 | Macro4 | | |
| | | 64-71 | Macro5 | | |
| | | 72-79 | Macro6 | | |
| | | 80-87 | Macro7 | | |
| | | 88-95 | Macro8 | | |
| | | 96-103 | Macro9 | | |
| | | 104-111 | Macro10 | | |
| | | 112-119 | Macro11 | | |
| | | 120-127 | Macro12 | | |
| | | 128-135 | Macro13 | | |
| | | 136-143 | Macro14 | | |
| | | 144-151 | Macro15 | | |
| | | 152-159 | Macro16 | | |
| | | 160-167 | Macro17 | | |
| | | 168-175 | Macro18 | | |
| | | 176-183 | Macro19 | | |
| | | 184-191 | Macro20 | | |
| | | 192-199 | Macro21 | | |
| | | 200-207 | Macro22 | | |
| | | 208-215 | Macro23 | | |
| | | 216-223 | Macro24 | | |
| | | 224-231 | Macro25 | | |
| | | 232-239 | Macro26 | | |
| | | 240-247 | Macro27 | | |
| | | 248-255 | Random CMY | | |

| Standard | Extended | Value | Function | Default | Snap |
|---|---|---|---|---|---|
| 17 | 23 | | **Blade 1** | | |
| | | 0-255 | Open to Close | | |
| | 24 | | **Blade 1 Fine** | | |
| | | 0-255 | Open to Close Fine | | |
| 18 | 25 | | **Blade 2** | | |
| | | 0-255 | Open to Close | | |
| | 26 | | **Blade 2 Fine** | | |
| | | 0-255 | Open to Close Fine | | |
| 19 | 27 | | **Blade 3** | | |
| | | 0-255 | Open to Close | | |
| | 28 | | **Blade 3 Fine** | | |
| | | 0-255 | Open to Close Fine | | |
| 20 | 29 | | **Blade 4** | | |
| | | 0-255 | Open to Close | | |
| | 30 | | **Blade 4 Fine** | | |
| | | 0-255 | Open to Close Fine | | |
| 21 | 31 | | **Framing Rotation:** | 127 | |
| | | 0-126 | Min (-50 degrees) | | |
| | | 127-128 | Parallel (0 degrees) | | |
| | | 129-255 | Max (+50 degrees) | | |
| | 32 | | **Framing Rotation Fine:** | 0 | |
| | | 0-255 | Framing Rotation Fine | | |
| | 33 | | **Blade Speed:** | | |
| | | 0-255 | Speed Max  —>Min | | |

| Standard | Extended | Value | Function | Default | Snap |
|---|---|---|---|---|---|
| | | | **Blade macros:** | | |
| | | 0-7 | OFF | | |
| | | 8-15 | Macro1 | | |
| | | 16-23 | Macro2 | | |
| | | 24-31 | Macro3 | | |
| | | 32-39 | Macro4 | | |
| | | 40-47 | Macro5 | | |
| | | 48-55 | Macro6 | | |
| | | 56-63 | Macro7 | | |
| | | 64-71 | Macro8 | | |
| | | 72-79 | Macro9 | | |
| | | 80-87 | Macro10 | | |
| | | 88-95 | Macro11 | | |
| | | 96-103 | Macro12 | | |
| | | 104-111 | Macro13 | | |
| | | 112-119 | Macro14 | | |
| | 34 | 120-127 | Macro15 | | x |
| | | 128-135 | Macro16 | | |
| | | 136-143 | Macro17 | | |
| | | 144-151 | Macro18 | | |
| | | 152-159 | Macro19 | | |
| | | 160-167 | Macro20 | | |
| | | 168-175 | Macro21 | | |
| | | 176-183 | Macro22 | | |
| | | 184-191 | Macro23 | | |
| | | 192-199 | Macro24 | | |
| | | 200-207 | Macro25 | | |
| | | 208-215 | Macro26 | | |
| | | 216-223 | Macro27 | | |
| | | 224-231 | Macro28 | | |
| | | 232-239 | Macro29 | | |
| | | 240-247 | Macro30 | | |
| | | 248-255 | Macro31 | | |
| | | | **Pan / Tilt Speed:** | | |
| | | 0-225 | Max to min speed | | |
| | 35 | 226-235 | Blackout by movement | | |
| | | 236-245 | Blackout by all wheel changing | | |
| | | 246-255 | No function | | |

| Standard | Extended | Value | Function | Default | Snap |
|---|---|---|---|---|---|
| | | | **Control:** | | |
| | | 0-19 | Color change normal | | |
| | | 20-29 | Color change to any position | | |
| | | 30-39 | Color & gobo change to any position | | |
| | | 40-44 | Low Noise - Mute | | |
| | | 45-49 | Low Noise - Studio | | |
| | | 50-59 | Fan Control - Low | | |
| | | 60-69 | Fan Control - High | | |
| | | 70-79 | Fan Control - Auto (Default) | | |
| | | 80-84 | All motor reset | | |
| | | 85-87 | Pan / Tilt motors reset | | |
| | | 88-90 | Color motors reset | | |
| | | 91-93 | No function | | |
| | | 94-96 | Focus and Zoom Motor reset | | |
| | | 97-99 | Other motor reset | | |
| | | 100-168 | **Refresh Rate (Hz)** | | |
| | | 100 | 900 | | |
| | | 101 | 910 | | |
| | | 102 | 920 | | |
| | | 103 | 930 | | |
| | | 104 | 940 | | |
| 22 | 36 | 105 | 950 | | x |
| | | 106 | 960 | | |
| | | 107 | 970 | | |
| | | 108 | 980 | | |
| | | 109 | 990 | | |
| | | 110 | 1000 | | |
| | | 111 | 1010 | | |
| | | 112 | 1020 | | |
| | | 113 | 1030 | | |
| | | 114 | 1040 | | |
| | | 115 | 1050 | | |
| | | 116 | 1060 | | |
| | | 117 | 1070 | | |
| | | 118 | 1080 | | |
| | | 119 | 1090 | | |
| | | 120 | 1100 | | |
| | | 121 | 1110 | | |
| | | 122 | 1120 | | |
| | | 123 | 1130 | | |
| | | 124 | 1140 | | |
| | | 125 | 1150 | | |

| Standard | Extended | Value | Function | Default | Snap |
|---|---|---|---|---|---|
| | | 126 | 1160 | | |
| | | 127 | 1170 | | |
| | | 128 | 1180 | | |
| | | 129 | 1190 | | |
| | | 130 | 1200 | | |
| | | 131 | 1210 | | |
| | | 132 | 1220 | | |
| | | 133 | 1230 | | |
| | | 134 | 1240 | | |
| | | 135 | 1250 | | |
| | | 136 | 1260 | | |
| | | 137 | 1270 | | |
| | | 138 | 1280 | | |
| | | 139 | 1290 | | |
| | | 140 | 1300 | | |
| | | 141 | 1310 | | |
| | | 142 | 1320 | | |
| | | 143 | 1330 | | |
| | | 144 | 1340 | | |
| | | 145 | 1350 | | |
| | | 146 | 1360 | | |
| 22 | 36 | 147 | 1370 | | x |
| | | 148 | 1380 | | |
| | | 149 | 1390 | | |
| | | 150 | 1400 | | |
| | | 151 | 1410 | | |
| | | 152 | 1420 | | |
| | | 153 | 1430 | | |
| | | 154 | 1440 | | |
| | | 155 | 1450 | | |
| | | 156 | 1460 | | |
| | | 157 | 1470 | | |
| | | 158 | 1480 | | |
| | | 159 | 1490 | | |
| | | 160 | 1500 | | |
| | | 161 | 2500 | | |
| | | 162 | 4000 | | |
| | | 163 | 5000 | | |
| | | 164 | 6000 | | |
| | | 165 | 10000 | | |
| | | 166 | 15000 | | |
| | | 167 | 20000 | | |
| | | 168 | 25000 | | |

| Standard | Extended | Value | Function | Default | Snap |
|---|---|---|---|---|---|
| 22 | 36 | 169-176 | Idle | | x |
| | | 177-178 | Hibernation Off | | |
| | | 179-180 | Hibernation | | |
| | | 181-190 | PanTilt Smooth (default) | | |
| | | 191-200 | PanTilt Fast | | |
| | | 201-210 | Dimmer Curve Linear (default) | | |
| | | 211-220 | Dimmer Curve Square | | |
| | | 221-230 | Dimmer Curve Inverse Square | | |
| | | 231-240 | Dimmer Curve S-Curve | | |
| | | 241 | Internal program 1 (scene1~8 of EEPROM) | | |
| | | 242 | Internal program 2 (scene9~16 of EEPROM) | | |
| | | 243 | Internal program 3 (scene17~24 of EEPROM) | | |
| | | 244 | Internal program 4 (scene25~32 of EEPROM) | | |
| | | 245 | Internal program 5 (scene33~40 of EEPROM) | | |
| | | 246 | Internal program 6 (scene41~48 of EEPROM) | | |
| | | 247 | Internal program 7 (scene49~56 of EEPROM) | | |
| | | 248-255 | Idle | | |
| | | 169-176 | Idle | | |

# ERROR CODES

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

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

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

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

| Error Codes subject to change without notice. | |
|---|---|
| **ERROR CODES** | **DESCRIPTION** |
| **PAN Er** | Movement is not located in the default position after the reset. This message will appear after a fixture reset if the magnetic-indexing |
| **TILT Er** | 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. |
| **Cyan Color Wheel Er** | |
| **Magenta Color Wheel Er** | |
| **Yellow Color Wheel Er** | |
| **CTO Wheel Er** | |
| **Color Wheel Er** | |
| **Focus 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). |
| **Zoom Wheel Er** | |
| **Blade 1 Wheel Er** | |
| **Blade 2 Wheel Er** | |
| **Blade 3 Wheel Er** | |
| **Blade 4 Wheel Er** | |
| **All Blade Rot Wheel Er** | |
| **Frost Wheel Er** | |

# SOFTWARE UPDATES

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](mailto: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](mailto: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.
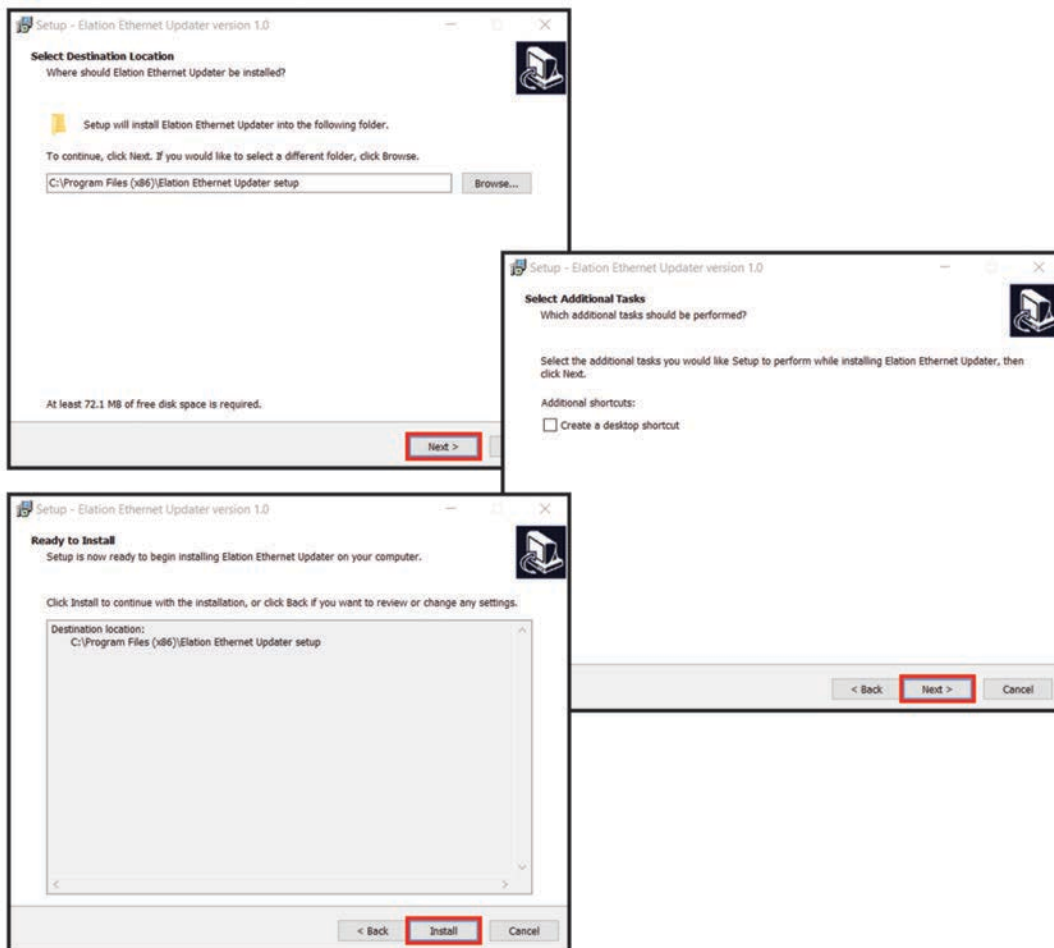
# SOFTWARE UPDATES
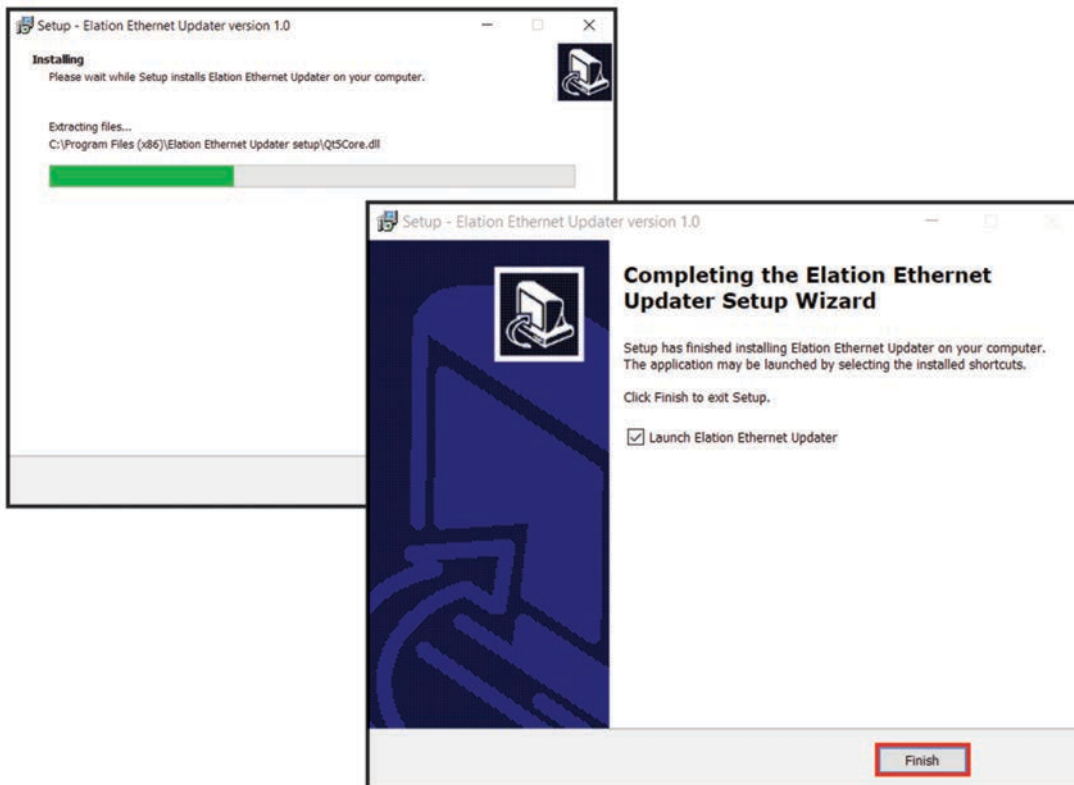


Once you have installed the Elation Ethernet Updater, it will launch automatically (unless you unchecked "Launch Elation Ethernet Updater"), or you can open it any time by clicking on the icon.
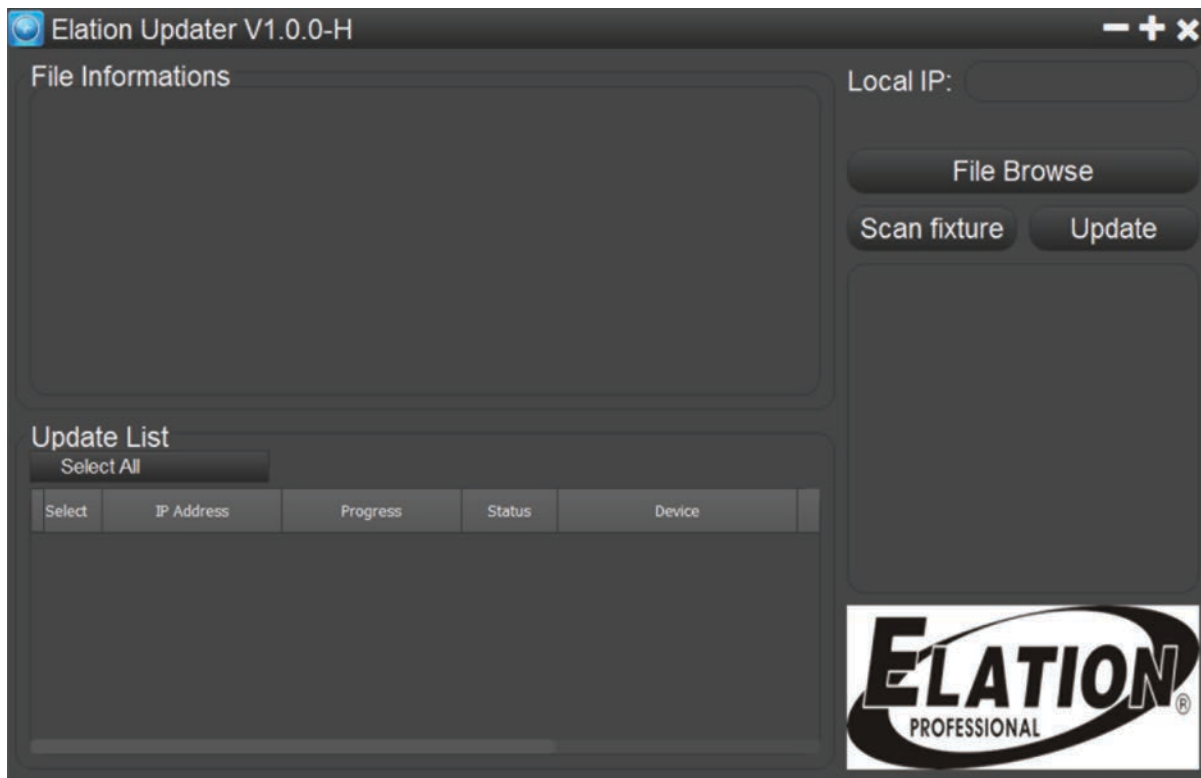
# SOFTWARE UPDATES

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.
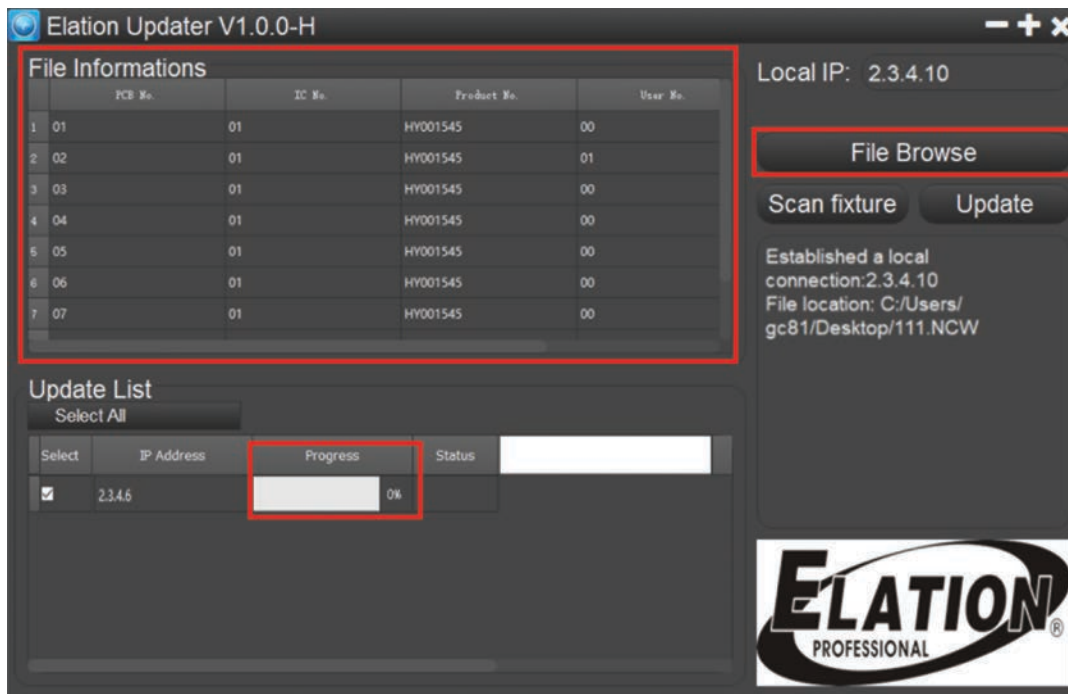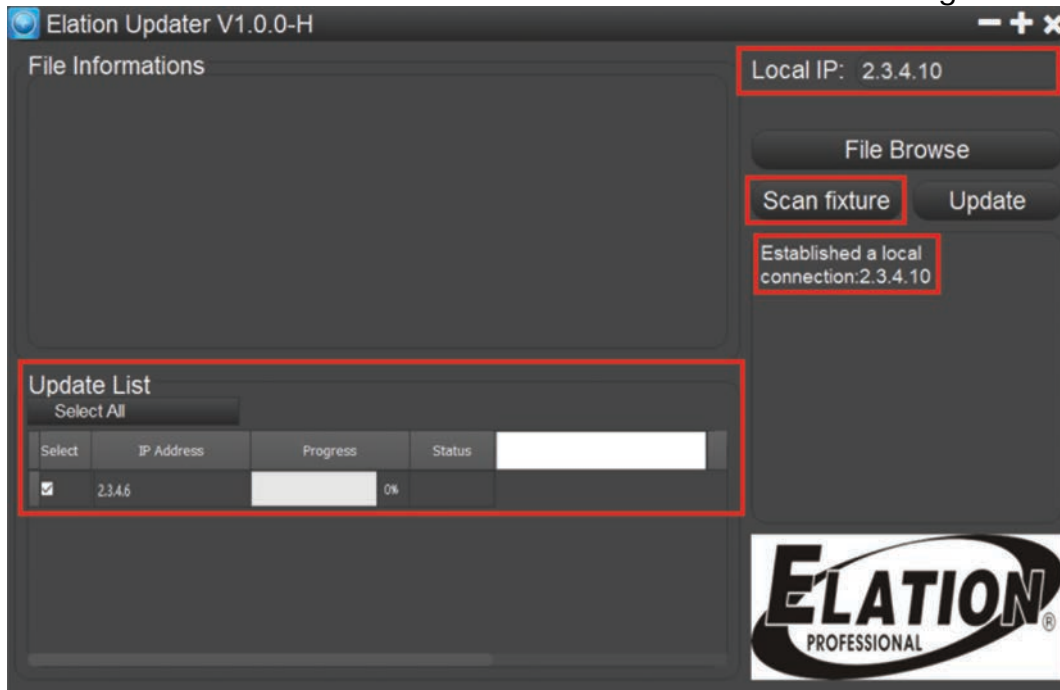




Click "File Browse" to select the files you want to download. The download Progress is displayed in the File information chart as a percentage bar graph.

# SOFTWARE UPDATES

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.
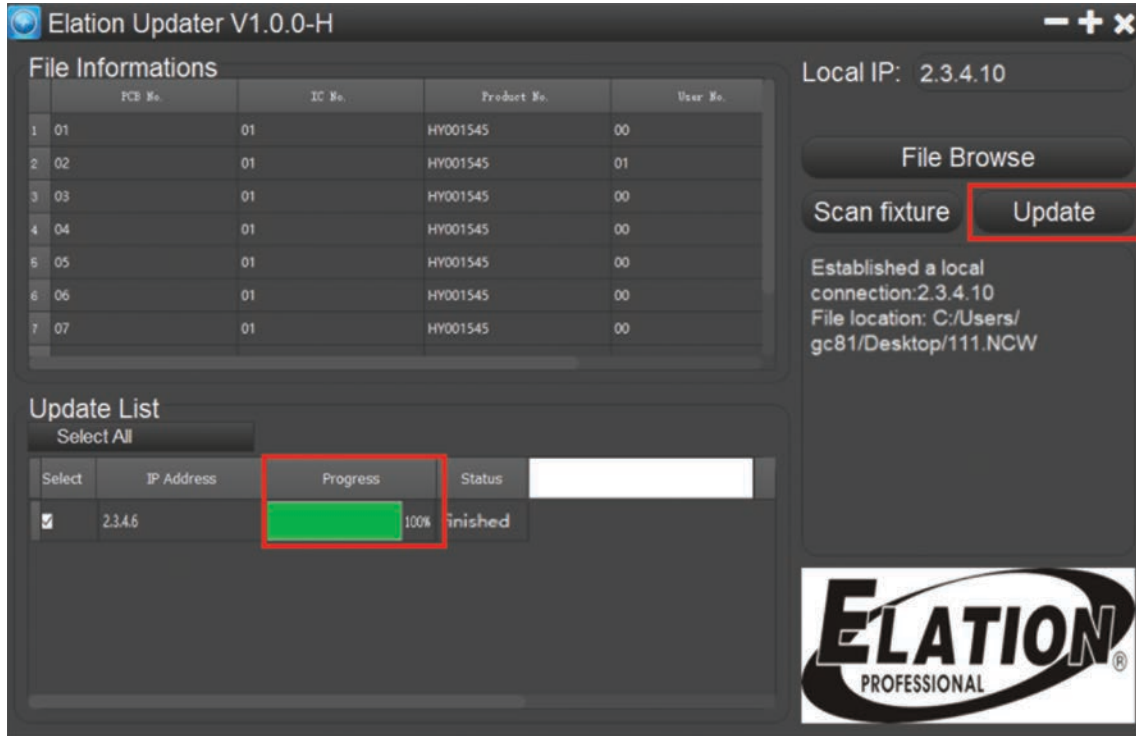
# SPECIFICATIONS

**SOURCE**
380W 6500K LED Engine
20,000 Hour Average LED Life*
*Test lab conditions. May vary depending on several factors including but not limited to:
Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.

**PHOTOMETRIC DATA**
16,000 Total Output Lumen
CRI 91

**FRESNEL LENS**
Zoom Range 11° - 66°
Beam Angle 7.5° - 45.2°
Field Angle 16.5° - 68.2°

**PC LENS**
Zoom Range 7° - 55°
Beam Angle 5.6° - 43.2°
Field Angle 7.1° - 58°

**EFFECTS**
Motorized Zoom
CMY + CTO Color Mixing
7 Position Fixed Color Wheel including UV
4 Independent Barn Doors
Barn Door Index Adjustment
Frost Filter
Remote Focus Adjustment
Electronic Strobe and Variable Dimming Curves
16-bit Dimming
Pan Angle: 540°/630°
Tilt Angle: 260°

**CONTROL / CONNECTIONS**
2 DMX Channel Modes (22 / 36 Channels)
DMX Adjustable Refresh Rate (900 -25000 Hz)
(6) Button Touch Panel
Full Color 180° Reversible LCD Menu Display
DMX, RDM, Art-Net, sACN Protocol Support
Locking 5pin XLR DMX, RJ45 Ethernet, and Power
USB Connection (Firmware Updates)
With Wired Digital Communication Network

**SIZE / WEIGHT**
Length: 16.6 in (421mm)
Width: 17.7 in (451mm) (Fresnel Lens)
Height: 26.4 in (670mm)
Center Spacing: 24.0 in (609mm)
Weight: 62.8 lbs. (28.5kg)

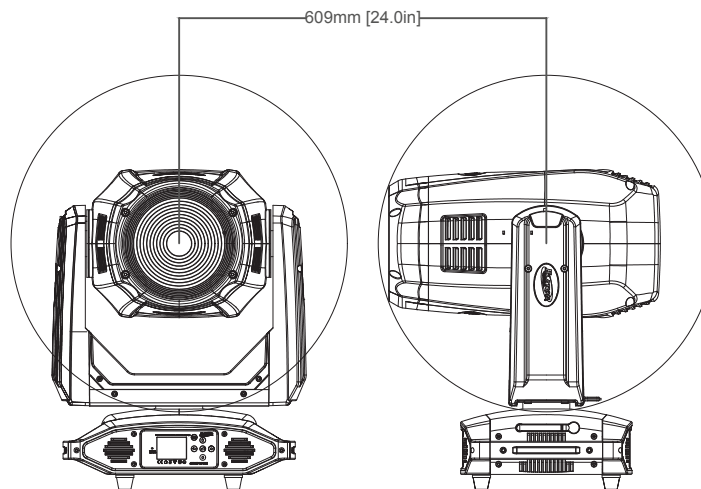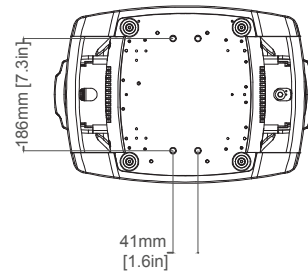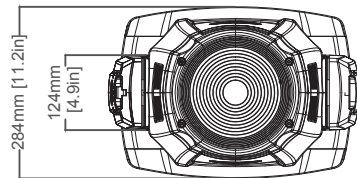**ELECTRICAL**
AC 100-240V 50/60Hz
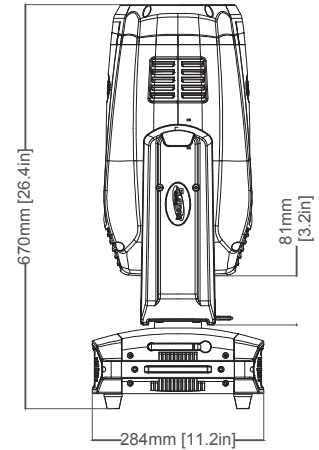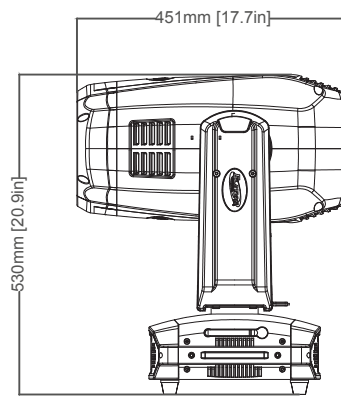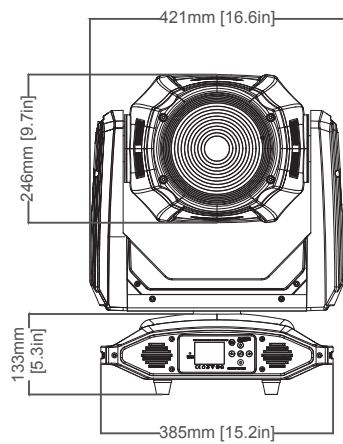600W Max Power Consumption
BTU/hr (+/- 10%) 2046

**APPROVALS / RATINGS**
CE | cETLus | IP20

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

# DIMENSIONAL DRAWINGS

421mm [16.6in]

246mm [9.7in]

133mm [5.3in]

385mm [15.2in]

451mm [17.7in]

530mm [20.9in]

670mm [26.4in]

81mm [3.2in]

284mm [11.2in]

284mm [11.2in]

124mm [4.9in]

186mm [7.3in]

41mm [1.6in]

609mm [24.0in]

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

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# OPTIONAL ACCESSORIES

| ORDER CODE | ITEM |
|---|---|
| TRIGGER CLAMP | Heavy Duty Wrap Around Hook Style Clamp |
| AC5PDMX5PRO | 5 ft. (1.5m) 5pin PRO DMX Cable |
| CAT6PRO5 | 5 ft. (1.5m) CAT6 Cable |
| NEU096 | Power Link 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