



# RAYZOR 360Z<sup>™</sup>

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<br>Version | Software<br>Version ≥ | DMX<br>Channel Modes | Notes                                      |
|----------|---------------------|-----------------------|----------------------|--|
| 01/05/17 | 1.2                 | 2.0.1                 | 20 / 26 / 32         | Updated White Balance instructions.        |
| 02/01/17 | 1.3                 | N/C                   | NO CHANGE            | Corrected Chase Patterns DMX value error.  |
| 01/19/18 | 2                   | 2.0.4                 | NO CHANGE            | Added Kling-Net and Art-Net ver 4 Support. |
| 01/18/19 | 2.2                 | N/C                   | NO CHANGE            | Updated manual format.                     |
| 02/25/19 | 2.4                 | N/C                   | NO CHANGE            | Updated light damage illustration.         |
| 08/24/20 | 2.6                 | N/C                   | NO CHANGE            | Updated thermal, and zoom range            |
| 10/16/20 | 2.8                 | N/C                   | NO CHANGE            | Updated specifications                     |
| 12/10/20 | 3.0                 | 2.0.8                 | NO CHANGE            | Updated primary/secondary modes            |

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# GENERAL INFORMATION

# INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information.

### UNPACKING

Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

### **BOX CONTENTS**

Omega Bracket 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

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

REPLACEMENT PARTS please visit parts.elationlighting.com

# MIMPORTANT 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.

# 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 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!

# 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.

# 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:

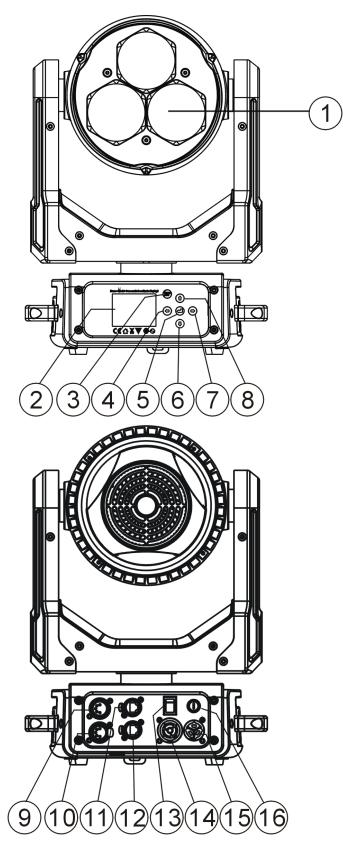
A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.

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. LED Lens Array
- 2. LCD Menu Function Display
- 3. MODE/ESC Button
- 4. ENTER Button
- 5. LEFT Button
- 6. DOWN Button
- 7. RIGHT Button
- 8. UP Button
- 9. 5pin DMX IN
- 10. 5pin DMX OUT
- 11. RJ45 Ethernet IN
- 12. RJ45 Ethernet OUT
- 13. Power Switch
- 14. Power OUT
- 15. Power IN
- 16. Fuse



# 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.

# 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.

Fixture ambient operating temperature range is **14**° **to 113°F. (-10° to 45°C)** Do not use the fixture under or above this temperature.

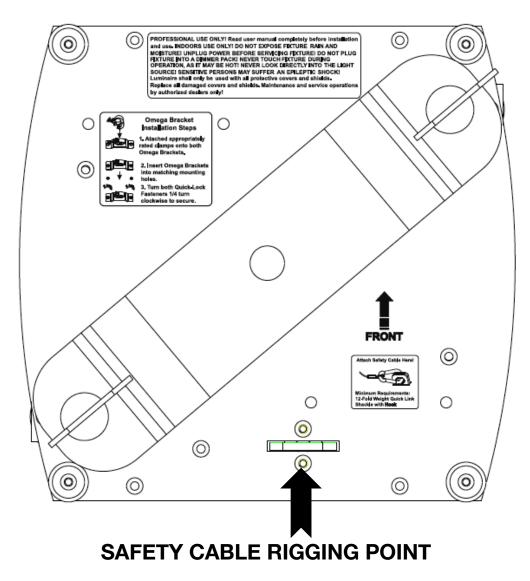
Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas were unauthorized personnel might reach the fixture by hand.

**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.

# **OMEGA BRACKET INSTALLATION**

Insert the Omega Bracket into the matching holes on the bottom of the fixture. Secure the Omega Bracket to the fixture by turning each quick-lock fastener <sup>1</sup>/<sub>4</sub> turn clockwise; making sure the fastener is completely locked.



### RIGGING

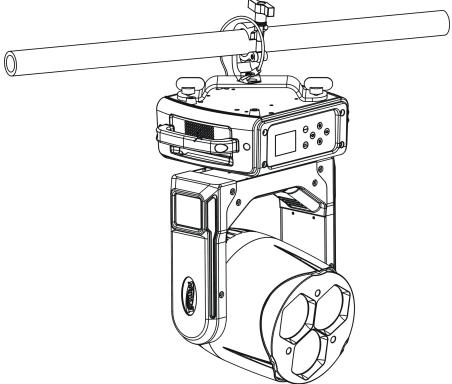
Overhead rigging requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper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

# **CLAMP INSTALLATION**

When mounting fixture to truss, be sure to secure an appropriately rated professional grade rigging clamp to the included **Omega Bracket** using an M10 screw fitted through the center hole of the **Omega Bracket**. 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.



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!



### **POWER LINKING**



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 MAX AMPS.

# **KLING-NET / 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

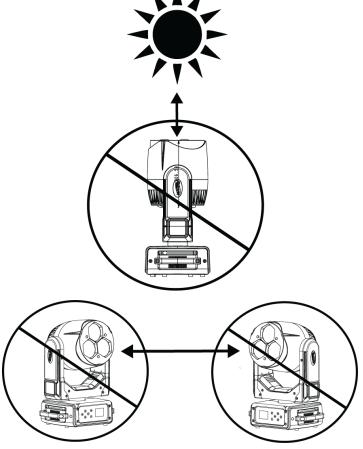
### POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

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

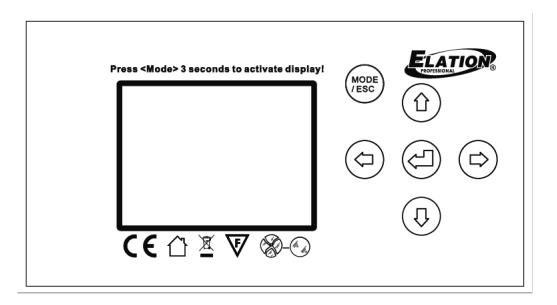
DIRECTLY TOWARDS ANOTHER.



# 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.



|             | FI ATI           | ON RAYZOR 360Z  | SYSTEM MEN                                  | LU   |
|-------------|------------------|---|---|--|
|             |                  |   | vithout any prior written r                 |  |
|             |                  | Supports Software                                       |   |  |
| MAIN MENU   | SUB MENU         |   | <b>S</b> (Default Settings in <b>BOLD</b> ) |  |
|             | Set DMxX Address | 001~xxx   | - (   | DMX Address Setting  |
|             | DMx Value        | ALL   |   | DMX Value Display  |
| FUNCTION    | Secondary Mode   | Secondary1, Seconda                                     | arv2. Secondarv3                            | Secondary Setting  |
|             | Auto Program     | Primary / Alone   |   | Auto Program   |
|             |                  | Current Time  | XXXX (Hours)                                | Fixture Run Time From Power ON                                   |
|             |                  | Total Run Time  | XXXX (Hours)                                | Fixture Total Run Time   |
|             | Time Information | Last Run Time   | XXXX (Hours)                                | Clear Fixture Last Run Time                                      |
|             |                  | LastRun Password  | Password=XXX                                | Password 038   |
|             |                  | Clear Last Run  | ON / OFF                                    | Reset Fixture Last Run Time                                      |
| INFORMATION | Temperature Info | Head Temperature  | XXX C° / F °                                | Temperature in Fixture Head                                      |
|             |                  | XXX . XXX . XXX .                                       |   | Temperature in Exture field                                      |
|             | Ethernet IP      | XXX   | XXX . XXX . XXX . XXX                       | IP Address   |
|             | Fan Speed        | FAN1:xxx RPM  |   | Displays Fan Speed RPM   |
|             | Software Version | 1U01: - 3U01: <b>Vx.x.x</b>                             |   | Software Versions  |
|             | Error Info       | Error Record 1 ~ Erro                                   | r Record 10                                 | Displays Last 10 Error Codes                                     |
|             |                  | Address via DMX   | ON/OFF                                      | Address Via DMX  |
|             | Status Settings  | No DMX Status   | Hold/Close Shutter/<br>Auto Program         | Auto Run If No DMX   |
|             |                  | Pan Reverse   | ON/OFF                                      | Pan Reverse Movement   |
|             |                  | Tilt Reverse  | ON/ <b>OFF</b>                              | Tilt Reverse Movement  |
|             |                  | Pan Degree  | 630/ <b>540</b>                             | Pan Degree Select  |
|             |                  | Feedback  | ON/OFF                                      | Movement Feedback  |
|             |                  | Hibernation   | OFF, 01M~99M, <b>15M</b>                    | Stand By Mode  |
|             |                  | Password  | Password=050                                | Service Password   |
|             |                  | RDM PID   | XXXXX                                       | RDM PID Code   |
|             | Service Setting  | Ethernet IP   | XXX . XXX . XXX . XXX                       | Ethernet IP  |
|             | 5                | Ethernet Mask IP  | XXX . XXX . XXX . XXX                       | Ethernet Mask IP   |
|             |                  | Clear Err. Info   | ON/ <b>OFF</b>                              | Clear Error Code History   |
|             | Fans Control     | Auto, Low, High   | 0.001                                       | Set Fan Speed  |
|             |                  | Shutoff Time  | 02~60m <b>05m</b>                           | Display Shut Off Time  |
|             |                  | Flip Display  | ON/OFF                                      | Flip/Invert Display 180°   |
| PERSONALITY | Display Setting  | Key Lock  | ON/OFF                                      | Key Lock   |
|             |                  | Disp Flash  | ON/OFF                                      | Display Flashes When No DMX<br>Signal                            |
|             | Temperature C/F  | Celsius/Fahrenheit                                      |   | Temperature Switch Between C°/                                   |
|             | Initial Status   | PAN =XXX  |   | Initial Effect Position  |
|             | Dimmer Modes     | Standard, Stage, TV,                                    | Architectural, Theatre                      |  |
|             |                  | DMX Only  | ·   | DMX Only   |
|             | Coloct Cirnel    | Art-Net on IP2  |   | Elect Art-Net IP02   |
|             | Select Signal    | Art-Net on IP10   |   | Elect Art-Net IP010  |
|             |                  | sACN  |   | sACN Protocol  |
|             | Set Universe     | 000 - 255   |   | Set Art-Net Universe   |
|             | Refresh          | <b>1200</b> , 900-1500, 2500 15000, 20000, 20000, 20000 |   | Set Refresh Rate   |
|             | Gamma            | 2.0, <b>2.2</b> , 2.4, 2.6, 2.8                         |   | Set Gamma Value  |
|             | Reset Default    | ON/ <b>OFF</b>  | Password 011                                | Restore Factory Settings<br>NOTE: Saved White Balance<br>Erased! |

|                       |                 | ATION RAYZOR 36             | DZSYSTEM M                        | 1 E N U                                   |
|-----------------------|-----------------|-----------------------------|-----------------------------------|---|
|                       |                 | res are subject to chang    |                                   |   |
|                       |                 | Supports Softwa             | are Versions: ≥ 2.0.8             |   |
| MAIN MENU             | SUB MENU        | <b>OPTIONS / VALUES</b> (   | Default Settings in <b>BOLD</b> ) | DESCRIPTION                               |
|                       | Reset All       |                             |                                   | Reset All Motors                          |
| <b>Reset Function</b> | Reset Pan&Tilt  |                             |                                   | Reset Pan/Tilt                            |
|                       | Reset Zoom      |                             |                                   | Reset Zoom                                |
|                       | Test Channel    | PAN                         |                                   | Test function                             |
| Effect Adjust         | Manual Control  | PAN =XXX,                   |                                   | Fine Adjustments                          |
|                       | Calibration     | Calibration Password        |                                   | Password 050                              |
|                       |                 | Standard Mode               |                                   |   |
|                       |                 | Basic Mode                  |                                   | DMX Channel Modes                         |
|                       | User Mode       | Extended Mode               |                                   |   |
|                       | User Mode       | User Mode A                 |                                   | User Defined Channel Assignment           |
| User Mode Set         |                 | User Mode B                 |                                   |   |
|                       |                 | User Mode C                 |                                   |   |
|                       |                 | Edit User Mode A            | Max Channel = XX                  | Edits User Defined<br>Channel Assignments |
|                       | Edit User Mode  | Edit User Mode B            |                                   |   |
|                       |                 | Edit User Mode C            | PAN = CH01                        |   |
|                       |                 | Auto Pro Part1 = Program    | n 1~10 <b>(Program 1)</b>         |   |
|                       | Select Program  | Auto Pro Part2 = Program    | n 1~10 <b>(Program 2)</b>         | Select Programs To Be Run                 |
|                       |                 | Auto Pro Part3 = Program    | n 1~10 <b>(Program 3)</b>         |   |
|                       |                 | Program 1                   | Program Test                      | Testing Program                           |
|                       | Edit Program    | :                           | Step 01=SCxxx                     | Program In Loop                           |
| Edit Program          |                 | Program 10                  | Step 64=SCxxx                     | Save and Exit                             |
| 5                     |                 |                             | Pan,Tilt,                         | Save and Automatically Return             |
|                       | Edit Scenes     | Scene 001<br>~<br>Scene 250 | Fade Time<br>Scene Time           | Manual Scenes Edit                        |
|                       |                 |                             | Input By Outside                  | Stores Scenes via Ext DMX Console         |
|                       | Rec. Controller | XX~XX                       | · ·                               | Automatic Scenes Recorder                 |

# SYSTEM MENU CHANGE WITH SOFTWARE UPDATE VERSION ≥2.0.8

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

|                | Service Setting  | Password              | Password=050 | Service Password                  |
|----------------|------------------|-----------------------|--------------|-----------------------------------|
|                |                  | RDM UID               | XXXXX        | RDM PID Code                      |
|                |                  | Clear Err. Info       | ON/OFF       | Clear Error Code History          |
|                |                  | DMX Only              |              | DMX Only                          |
| PERSONALITY    | Select Signal    | Art-Net               |              | Art-Net Protocol                  |
| I LINGONALIT I |                  | sACN                  |              | sACN Protocol                     |
|                | Klingnet Setting | ON/OFF                |              | Enable Kling-Net Protocol         |
|                | Ethernet IP      | XXX . XXX . XXX . XXX |              | Enter Fixture Ethernet Address    |
|                | Ether Mask IP    | XXX . XXX . XXX . XXX |              | Enter Fixture Subnet Mask Address |
|                | Set Universe     | 000 - 32767           |              | Set Art-Net Universe              |

# PERSONALITY - Status Settings - Address Via DMX

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

- 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 for the fixture to complete the address reset function.

# PERSONALITY – Service Setting - Password (050)

**NOTE**: The Service Password MUST be entered in order to access the following menus:

RDM PID, Ethernet IP, Ethernet IP Mask, and Clear Err. Info.

# PERSONALITY – Service Setting - RDM PID

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.

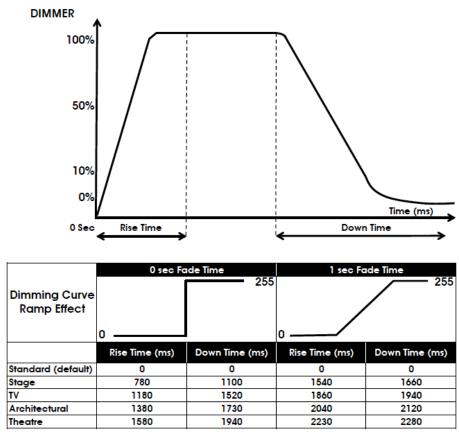
# PERSONALITY - Display Setting – Key Lock

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 - Dimming Modes**

Select desired DIMMER MODE (Standard, Stage, TV, Architectural, Theatre).



# PERSONALITY - Reset Default (011)

# ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION. NOTE: SAVED WHITE BALANCE IS ERASED AFTER A RESET IS PERFORMED.

This function restores all fixture settings to the factory default settings. The password is

011 and must be entered each time a reset is performed.

# EFFECT ADJUST – Test Channel

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

# EFFECT ADJUST - Manual Control

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

### EFFECT ADJUST – Calibration



# ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION.

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

### USER MODE SET – Edit User Mode

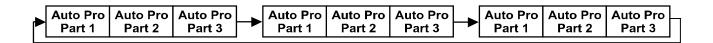
Create user defined channel orders allowing the fixture to match the channel order of other fixtures on the market for easier operation. A total of three user modes may be configured: User Mode A, User Mode B, and User Mode C.

### EDIT PROGRAM – <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 – Working With Built In Programs

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



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

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

To start an Auto Program proceed as follows:

#### 1. Secondary Setting

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

#### 2. Automatic Program Run

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

### 3. Program Selection for Auto Pro Part

- Select "Edit Program".
- Press ENTER to confirm.
- Select "Select Programs".
- Press ENTER to confirm.
- Select "Auto Pro Part 1", "Auto Pro Part 2" or "Auto Pro Part 3", and select which Secondary program is to be sent. Selection "Part 1" means, that the Secondary unit runs

the same program as the Primary units.

- Press ENTER to confirm.
- Press MODE/ESC 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 Secondary groups run the Auto Program in certain time segments. (See diagram below)

Part 1:
Scene 10 Scene 11 Scene 12 Scene 13

Part 2:

| Scene 8 Scene 9 Scene 10 Sce |
|------------------------------|
|------------------------------|

Part 3:

| ┌► | Scene 12 | Scene 13 | Scene 14 | Scene 15 |  |
|----|----------|----------|----------|----------|--|
|    |          |          |          |          |  |

### WHITE BALANCE SETTING

This feature provides the ability to individually adjust the maximum dimmer intensity for each LED color (Red, Green, Blue, White, Amber, Cyan, U.V.) and store these values as a White Balance preset. This can be a useful tool when the output intensity of a group of same model fixtures with varying usage times, needs to be calibrated to match as much as possible. Once a new White Balance preset is saved to the fixture, the maximum dimmer intensity values cannot be changed until the White Balance preset is updated, erased or restored to the factory default setting.

- Set ALL DMX channels to zero (0) then set the SPECIAL FUNCTIONS channel (CH20 in Basic Mode, CH26 in Stand Mode, CH32 in Extend Mode) to DMX value of (91-93)
   EDIT and SAVE WHITE BALANCE ENABLED.
- Set the COLOR MODE WHITE BALANCE channel (CH18 in Basic Mode, CH24 in Stand Mode, CH30 in Extend Mode) to DMX value of (190-254) EDIT and SAVE WHITE BALANCE Setting.
- 3. Adjust each LED color channel to the desired intensity level (0-255).
- Set the COLOR MODE WHITE BALANCE channel (CH18 in Basic Mode, CH24 in Stand Mode, CH30 in Extend Mode) to DMX value of (255) SAVE New WHITE BALANCE Setting to Fixture(s).
- 5. To save a new White Balance preset, repeat steps 1-4 above.

# DMX CHANNEL FUNCTIONS AND VALUES

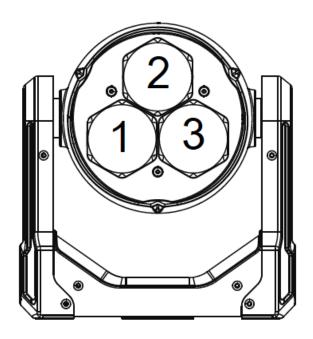
|        |              |          |            | ELAIION RAYZOR 360Z  |
|--------|--------------|----------|------------|--|
|        |              | DMX      |            | el Values / Functions (32 DMX Channels)  |
|        |              |          | Sup        | ports Software Versions: ≥ 2.0.8   |
| *Potat | ion directic | Features | s are subj | ect to change without any prior written notice.<br>clockwise) of effects depends on orientation of the fixture head and Pan/Tilt settings. |
|        | DE / CHA     |          |            |  |
| BASIC  | STAND        | EXTEND   | VALUE      | FUNCTION   |
| 1      | 1 1          | 1        |            | PAN MOVEMENT [8 BIT]   |
| I      | I            | I        | 0-255      | PAN Movement   |
|        | 2            | 2        |            | PAN FINE MOVEMENT [16 BIT]   |
|        | 2            | 2        | 0-255      | Fine Control of PAN Movement   |
| 2      | 3            | 3        |            | TILT MOVEMENT [8 BIT]  |
| 2      | Ŭ            |          | 0-255      | TILT Movement  |
|        | 4            | 4        |            | TILT MOVEMENT [16 BIT]   |
|        | -            | -        | 0-255      | Fine Control of TILT Movement  |
|        |              |          |            | PAN CONTINUOUS MOVEMENT  |
|        |              |          | 0-127      | NO FUNCTION  |
| 3      | 5            | 5        | 128-189    | PAN Clockwise from FAST to SLOW  |
|        |              |          | 190-193    | NO Rotation  |
|        |              |          | 194-255    | PAN Counter-Clockwise from SLOW to FAST  |
|        |              |          |            | TILT CONTINUOUS MOVEMENT   |
|        |              |          | 0-127      | NO FUNCTION  |
| 4      | 6            | 6        | 128-189    | TILT Clockwise from FAST to SLOW   |
|        |              |          | 190-193    | NO Rotation  |
|        |              |          | 194-255    | TILT Counter-Clockwise from SLOW to FAST   |
| 5      | 7            |          |            | RED [ALL LEDs]   |
| 0      | ,            |          | 0-255      | Red (0-Black - 255-100%)   |
|        | 8            |          |            | RED FINE [ALL LEDs]  |
|        | 0            |          | 0-255      | Red FINE Adjustment  |
| 6      | 9            |          |            | GREEN [ALL LEDs]   |
| 0      | ,            |          | 0-255      | Green (0-Black - 255-100%)   |
|        | 10           |          |            | GREEN FINE [ALL LEDs]  |
|        | .0           |          | 0-255      | Green FINE Adjustment  |
| 7      | 11           |          |            | BLUE [ALL LEDs]  |
| ,      |              |          | 0-255      | Blue (0-Black - 255-100%)  |
|        | 12           |          |            | BLUE FINE [ALL LEDs]   |
|        | 12           |          | 0-255      | Blue FINE Adjustment   |
| 8      | 13           |          |            | WHITE [ALL LEDs]   |
| 0      | 10           |          | 0-255      | White (0-Black - 255-100%)   |
|        | 14           |          |            | WHITE FINE [ALL LEDs]  |
|        | 14           |          | 0-255      | White FINE Adjustment  |

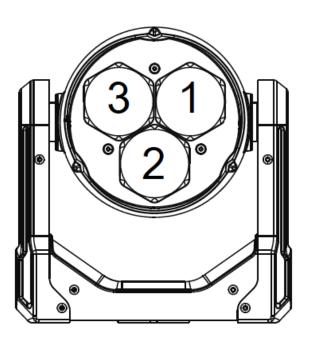
|                |       | DMX      | Channe  | ELATION RAYZOR 360Z<br>Notes / Functions (32 DMX Channels)                             |  |
|----------------|-------|----------|---------|--|--|
|                |       |          |         | oorts Software Versions: ≥ 2.0.8   |  |
|                |       | Features |         | ect to change without any prior written notice.  |  |
| *Rotat         |       |          |         | lockwise) of effects depends on orientation of the fixture head and Pan/Tilt settings. |  |
| MODE / CHANNEL |       |          |         |  |  |
| BASIC          | STAND | EXTEND   | VALUE   | FUNCTION   |  |
|                |       | 7        |         | RED [LED 1]  |  |
|                |       | /        | 0-255   | Red (0-Black - 255-100%)   |  |
|                |       | 8        |         | GREEN [LED 1]  |  |
|                |       | Ŭ        | 0-255   | Green (0-Black - 255-100%)   |  |
|                |       | 9        |         | BLUE [LED 1]   |  |
|                |       |          | 0-255   | Blue (0-Black - 255-100%)  |  |
|                |       | 10       |         | WHITE [LED 1]  |  |
|                |       |          | 0-255   | White (0-Black - 255-100%)   |  |
|                |       | 11       |         | RED [LED 2]  |  |
|                |       |          | 0-255   | Red (0-Black - 255-100%)   |  |
|                |       | 12       | 0.055   | GREEN [LED 2]  |  |
|                |       |          | 0-255   | Green (0-Black - 255-100%)   |  |
|                |       | 13       | 0.055   | BLUE [LED 2]   |  |
|                |       |          | 0-255   | Blue (0-Black - 255-100%)  |  |
|                |       | 14       | 0.055   | WHITE [LED 2]  |  |
|                |       |          | 0-255   | White (0-Black - 255-100%)   |  |
|                |       | 15       | 0.055   | RED [LED 3]  |  |
|                |       |          | 0-255   | Red (0-Black - 255-100%)   |  |
|                |       | 16       | 0-255   | GREEN [LED 3]<br>Green (0-Black - 255-100%)  |  |
|                |       |          | 0-200   | BLUE [LED 3]   |  |
|                |       | 17       | 0-255   | Blue (0-Black - 255-100%)  |  |
|                |       |          | 0-200   | WHITE [LED 3]  |  |
|                |       | 18       | 0-255   | White (0-Black - 255-100%)   |  |
|                |       |          | 0 200   | COLOR MACROS   |  |
|                |       |          | 0-7     | NO FUNCTION  |  |
|                |       |          | 8-39    | From RED to YELLOW   |  |
|                |       |          | 40-71   | From YELLOW to GREEN   |  |
|                |       |          | 72-103  | From GREEN to CYAN   |  |
| 9              | 15    | 19       | 104-135 | From CYAN to BLUE  |  |
|                |       |          | 136-167 | From BLUE to MAGENA  |  |
|                |       |          | 168-199 | From MAGENTA to RED  |  |
|                |       |          | 200-231 | From RED to WHITE  |  |
|                |       |          | 232-255 | Crossfading Colors from SLOW to FAST   |  |
|                |       |          |         | COLOR PRESETS  |  |
|                |       |          | 0-9     | NO FUNCTION  |  |
|                |       |          | 10-50   | WHITE 2700K  |  |
| 10             | 16    | 20       | 51-91   | WHITE 3200K  |  |
| 10             | 10    | 20       | 92-132  | WHITE 4300K  |  |
|                |       |          | 133-173 | WHITE 5600K  |  |
|                |       |          | 174-214 | WHITE 6500K  |  |
|                |       |          | 215-255 | WHITE 8000K  |  |
| 11             | 17    | 21       |         | COLOR PRESETS DIMMER   |  |
|                | 17    | 21       | 0-255   | Dimmer 100 to 0%   |  |

|       |               |          |                  | ELATION RAYZOR 360Z  |
|-------|---------------|----------|------------------|--|
|       |               | DMX      |                  | Values / Functions (32 DMX Channels)<br>orts Software Versions: ≥ 2.0.8  |
|       |               | <b>F</b> |                  |  |
| *Rot  | ation directi |          |                  | ct to change without any prior written notice.<br>bockwise) of effects depends on orientation of the fixture head and Pan/Tilt settings. |
|       |               |          |                  |  |
| BASIC | STAND         | EXTEND   | VALUE            | FUNCTION   |
|       |               |          |                  | SHUTTER, STROBE  |
|       |               |          | 0-31             | Shutter CLOSED (LEDs OFF)  |
|       |               |          | 32-63            | Shutter OPEN (LEDs ON)   |
|       |               |          | 64-95            | Strobe Effect SLOW to FAST   |
| 12    | 18            | 22       | 96-127           | Shutter OPEN (LEDs ON)   |
|       |               |          | 128-159          | Pulse Effect In Sequences  |
|       |               |          | 160-191          | Shutter OPEN (LEDs ON)   |
|       |               |          | 192-223          | Random Strobe Effect SLOW to FAST  |
|       |               |          | 224-255          | Shutter OPEN (LEDs ON)   |
| 13    | 19            | 23       |                  | DIMMER INTENSITY   |
|       |               |          | 0-255            | Dimmer 0 to 100%   |
|       |               | 24       | 0-255            | DIMMER INTENSITY FINE<br>Dimmer FINE Adjustment  |
|       |               |          | 0-200            | DIMMER MODES   |
|       |               |          | 0-20             | Standard   |
|       |               |          | 21-40            | Stage  |
| 14    | 20            | 25       | 41-60            | TV   |
| 14    | 20            | 20       | 61-80            | Architectural  |
|       |               |          | 81-100           | Theatre  |
|       |               |          | 101-255          | Default to Setting on Fixture  |
|       |               |          | 101-200          | MOTORIZED ZOOM   |
| 15    | 21            | 26       | 0-255            | ZOOM Adjustment from SMALL to BIG  |
|       |               |          | 0-200            | MOTORIZED ZOOM FINE  |
|       |               | 27       | 0-255            | ZOOM FINE Adjustment   |
|       |               |          | 0-200            | CHASE PATTERNS   |
|       |               |          | 0-10             | NO FUNCTION (LEDs OFF)   |
|       |               |          | 11-40            | Chase 1  |
|       |               |          | 41-70            | Chase 2  |
|       |               |          | 71-100           | Chase 3  |
| 16    | 22            | 28       | 101-130          | Chase 4  |
|       |               |          | 131-160          | Chase 5  |
|       |               |          | 161-190          | Chase 6  |
|       |               |          | 191-220          | Chase 7  |
|       |               |          | 221-255          | Chase 8  |
|       |               |          | 221-200          | CHASE PATTERN SPEED  |
| 17    | 23            | 29       | 0-255            | *Counterclockwise Chase Speed FAST to SLOW   |
|       |               |          | 0-200            | COLOR MODE - WHITE BALANCE   |
|       |               |          | 0.190            |  |
|       |               |          | 0-189<br>190-254 | NO FUNCTION  |
| 18    | 24            | 30       | 255              | EDIT a New WHITE BALANCE Setting<br>SAVE New WHITE BALANCE Setting to Fixture(s)   |
|       |               |          | 200              | *NOTE: DMX VALUE of 91-93 MUST FIRST BE SELECTED ON<br>CH20 (Basic), CH26 (Stand), or CH32 (Extend) TO ENABLE FEATURE.                   |
|       |               |          |                  |  |
|       |               |          |                  | PAN / TILT MOVEMENT SPEED  |
| 19    | 25            | 31       | 0-225<br>226-235 | MAX to MIN Speed   |
|       |               |          |                  | Blackout by Movement   |

|       |                | DMX                       | Channel                      | ATION© RAYZOR 360Z™<br>Values / Functions (32 DMX Channels)<br>orts Software Versions: ≥ 2.0.8  |
|-------|----------------|---------------------------|------------------------------|---|
| *Roto | ation directic | Features<br>on (Clockwise | are subject<br>or Counterclo | t to change without any prior written notice.<br>ckwise) of effects depends on orientation of the fixture head and Pan/Tilt settings. |
| МС    | DDE / CHAN     | NNEL                      | VALUE                        | FUNCTION  |
| BASIC | STAND          | EXTEND                    | VALUE                        | FUNCTION  |
|       |                |                           |                              | SPECIAL FUNCTIONS / INTERNAL PROGRAMS   |
|       |                |                           | 0-79                         | Color Change Normal   |
|       |                |                           | 80-84                        | ALL MOTOR RESET   |
|       |                |                           | 85-87                        | SCAN MOTOR RESET  |
|       |                |                           | 88-90                        | NO FUNCTION   |
|       |                |                           | 91-93                        | EDIT and SAVE WHITE BALANCE ENABLED   |
|       |                | 32                        | 94-96                        | NO FUNCTION   |
| 20    | 26             |                           | 97-99                        | OTHER MOTORS RESET  |
| 20    | 20             |                           | 100-119                      | Internal Program 1 (Scene1-8)   |
|       |                |                           | 120-139                      | Internal Program 2 (Scene 9-16)   |
|       |                |                           | 140-159                      | Internal Program 3 (Scene 17-24)  |
|       |                |                           | 160-179                      | Internal Program 4 (Scene 25-32)  |
|       |                |                           | 180-199                      | Internal Program 5 (Scene 33-40)  |
|       |                |                           | 200-219                      | Internal Program 6 (Scene 41-48)  |
|       |                |                           | 220-239                      | Internal Program 7 (Scene 49-56)  |
|       |                |                           | 240-255                      | NO FUNCTION   |

# LED PIXEL CONTROL







LCD CONTROL DISPLAYLCD CONTROL DISPLAYPixel control depends on PAN/TILT position of head.

# 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 startup process they will all flash in the display. For example: if the fixtures has errors on **Channel 1**, **2**, and **5** all at the same time, you will see the error message "**01Er**", "**02Er**", and "**05Er**" flash repeated 5 times.

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

- **3 or More Errors** The fixture cannot function properly with three or more errors therefore the fixture will place itself in a stand-by mode until subsequent repairs can be made.
- Less Than 3 Errors The fixture has less than 3 errors; therefore, most other functions will work properly. The fixture will attempt to operate normally until the errors can be correct by a technician. The errors in question will remain flashing in the display as a reminder of internal errors.

| Error Code  | Error Codes are subject to change without any prior written notice.   |  |  |  |  |  |
|-------------|---|--|--|--|--|--|
| ERROR CODES | DESCRIPTION   |  |  |  |  |  |
| PAN Er      | Movement is not located in the default position after the reset.<br>This message will appear after a fixture reset if the magnetic-<br>indexing circuit malfunctions (sensor failed, or magnet is missing)  |  |  |  |  |  |
| TILT Er     | 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.   |  |  |  |  |  |
| Zoom Er     | Movement is not located in the default position after the reset.<br>This message will appear after a fixture reset if the magnetic-<br>indexing circuit malfunctions (sensor failed, or magnet is missing)<br>or there is a motor failure (defective motor or a defective motor IC<br>drive on the main PCB). |  |  |  |  |  |

# SPECIFICATIONS

#### SOURCE

(3) 60W Osram<sup>™</sup> RGBW LEDs 50,000 Hour Average LED Life\* \*May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.

#### PHOTOMETRIC DATA

28,020 LUX 2,603 FC @6.6' (2m) (8° Min Zoom) Full ON 545 LUX 51 FC @6.6' (2m) (77° Max Zoom) Full ON CRI 80 Zoom Range 8° - 77° Beam Angle 4.6° - 56.8° Field Angle 5.8° - 74.1°

#### EFFECTS

Motorized Zoom Linear Color Temperature Presets (2,700 - 8,000K) RGBW Color Mixing and Pixel Control 8 Color Presets and 8 Chase Macros Electronic Strobe and Variable Dimming Curves

#### COLOR

RGBW

#### **CONTROL / CONNECTIONS**

(3) DMX Channel Modes (20 / 26 / 32)
360° Continuous Pan and Tilt Movement
Adjustable Refresh Rate (900-25,000 (Hz)
Adjustable Gamma Brightness (2.0, 2.2, 2.4, 2.8)
(6) Button Touch Control Panel
8 / 16 Bit Resolution Adjustable Movement
Full Color 180° Reversible LCD Menu Display
5pin XLR DMX In/Out
RDM (Remote Device Management)
RJ45 ethernet In/Out (Art-NET, sACN)
IP65 Locking Power Cable In/Out
With Wired Digital Communication Network

#### **SIZE / WEIGHT**

Length: 11.0" (280.6mm) Width: 7.9" (199.5mm) Vertical Height: 16.6" (422.1mm) Weight: 17 lbs. (7.7 kg)

#### **ELECTRICAL / THERMAL**

AC 100-240V - 50/60Hz 300W Max Power Consumption 14°F to 113°F (-10°C to 45°C) BTU/hr (+/- 10%) 930.93

#### **APPROVALS / RATINGS**

CE | IP20

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

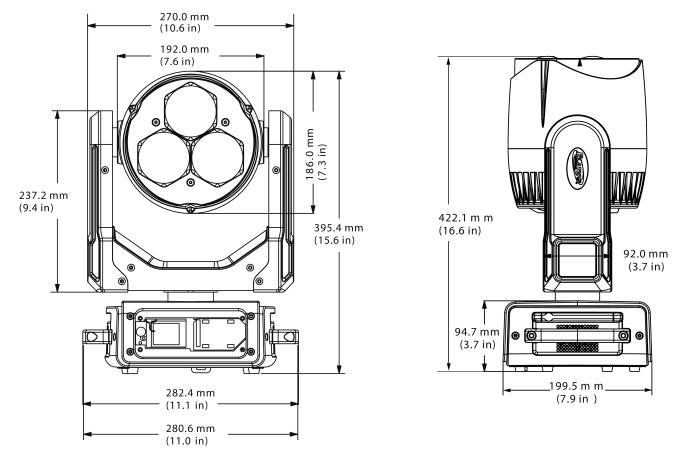
- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

#### **DIMENSIONAL DRAWINGS**



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

# OPTIONAL ACCESSORIES

| ORDER CODE    | ITEM                                    |
|---------------|---|
| TRIGGER CLAMP | Heavy Duty Wrap Around Hook Style Clamp |
| DRCZ360Z      | 4-Pack Road Case For RAYZOR 360Z        |
| AC5PDMX5PRO   | 5 ft. (1.5m) 5pin PRO DMX Cable         |
| CAT6PRO5      | 5 ft. (1.5m) CAT6 Cable                 |
| NEU088        | 3 ft. (1m) Power Cable                  |
|               | Additional Cable Lengths Available      |