# ELATION PROFESSIONAL

# ZW37™

## user manual

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# DOCUMENT VERSION

| Date | Document Version | Software Version | | | DMX Channel Modes | Notes |
|------|------------------|---|---|---|-------------------|-------|
| 01/14/16 | 1 | ≥ CPU-A V1.0 B1.1<br>≥ CPU-B V1.0 B1.1<br>≥ CPU-C V1.0 B1.1 | | | 14 / 22 / 42 | Initial release. |

# CONTENTS

# GENERAL INFORMATION

### INTRODUCTION

Congratulations, you have just purchased one of the most innovative and reliable lighting fixtures on the market today! This fixture has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

### UNPACKING

Every fixture 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 appears to be damaged, carefully inspect your unit for damage and be sure all accessories necessary to operate the unit 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 unit to your dealer without first contacting customer support at the number listed below. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

### BOX CONTENTS
- (1) Omega Brackets
- (1) powerCON Cable

## CUSTOMER SUPPORT

Elation Professional® provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.elationlighting.com for any comments or suggestions. For service related issue please contact Elation Professional®.

**ELATION SERVICE USA - Monday - Friday 8:00am to 5:00pm PST**

**Voice: 323-582-3322                Fax: 323-832-9142**

E-mail: support@elationlighting.com

**ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET**

**Voice: +31 45 546 85 30                Fax: +31 45 546 85 96**

E-mail: support@elationlighting.eu

## WARRANTY REGISTRATION

Please complete and mail in the enclosed warranty card or register online: http://www.elationlighting.com/Login.aspx to validate your purchase. 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 at 323-582-3322.

## IMPORTANT NOTICE!

**There are no user serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufactures warranty. Damages resulting from modifications to this fixture and/or the disregard of safety and general user instructions found in this user manual void the manufactures warranty and are not subject to any warranty claims and/or repairs.**

# LIMITED WARRANTY

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.

# SAFETY INSTRUCTIONS

This fixture is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual. The manufacturer of this device will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

This device falls under **PROTECTION CLASS 1**. It's essential this device be grounded properly. Only qualified personnel should perform all electrical connections.

## INDOORS USE ONLY!
### DO NOT EXPOSE FIXTURE RAIN AND MOISTURE!

### UNPLUG POWER BEFORE SERVICING FIXTURE!
### DO NOT PLUG FIXTURE INTO A DIMMER PACK!
**NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!**

### NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
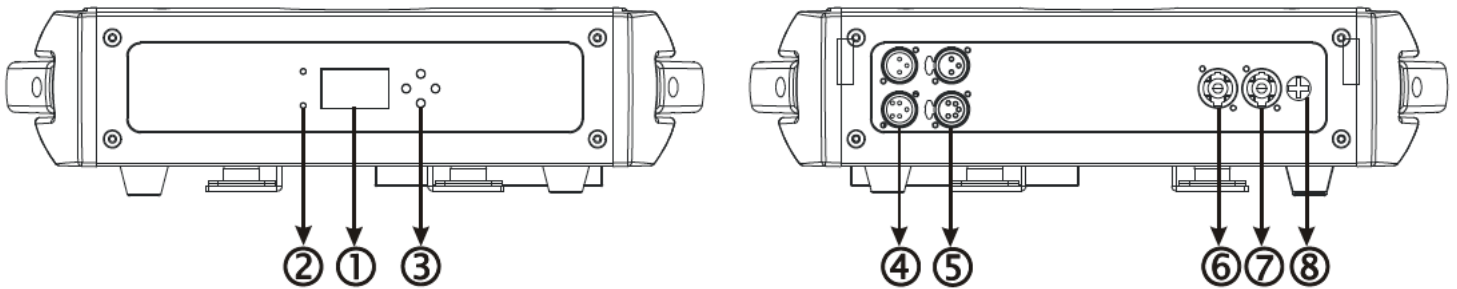### SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!

- For proper operation, follow the **Installation** guidelines described in this manual. Only qualified and certified personnel should perform installation of this fixture and only the original rigging parts (brackets) included with this fixture should be used for installation. Any modifications will void the original manufactures warranty and increase the risk of damage and/or personal injury.

- Never look directly into the light source of this fixture to prevent risk of injury to your retina, which may induce blindness. Those suffering from **EPILEPSY** should avoid looking directly into the light source of this unit at all times.

- The fan and air inlets must remain clean and never blocked. Allow approx. 6" (15cm) between this fixture and other devices or a wall for proper cooling.

- Always disconnect 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.

- Do not operate this fixture if the power cord has become frayed, crimped and/or damaged. If the power cord is damaged, replace it immediately with a new one of similar power rating.

# GENERAL GUIDELINES

- **NEVER OPEN THIS FIXTURE WHILE IN USE!**

- 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.

- This fixture is a professional lighting effect designed for **INDOOR / DRY LOCATIONS ONLY** on stage, in nightclubs, theatres, etc.

- Please make sure there are **NO FLAMMABLE MATERIALS** close to the fixture while operating, to prevent any fire hazard.

- **Minimum** distance of inflammable materials from the surface **1.6 feet (0.5m)**.

- The fixture must be installed in a location with adequate ventilation, at least 1.5 feet (.5m) from adjacent surfaces. Be sure no air ventilation slots are blocked.

- **DO NOT** attempt installation and/or operation without knowledge how to do so.

- **DO NOT** allow operation by persons who are not qualified to operate this type of fixture. Most damages are the result of operations by nonprofessionals.

- Consistent operational breaks may ensure the fixture will function properly for many years to come.

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

- Always install the fixture with an appropriate safety cable. When installing the fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, also be sure the hardware is insert in the pre-arranged screw holes in the bracket of the fixture.

- Use the original packaging and materials to transport the fixture in for service.

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

# CONTROL AND CONNECTIONS



1. **LCD Menu Function Display**

2. **LED Indicators**

3. **MENU, UP, DOWN, ENTER Buttons**

4. **3pin and 5pin DMX IN**

5. **3pin and 5pin DMX OUT**

6. **powerCON IN**

7. **powerCON OUT**

8. **Fuse**

# INSTALLATION

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⚠ **FLAMMABLE MATERIAL WARNING**
**Keep fixture at least 5.0 ft (1.5m) away from any flammable materials, decorations, pyrotechnics, etc.**

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

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## CAUTIONS

- For added protection, mount the fixture in areas outside walking paths, seating areas, or in areas were unauthorized personnel might reach the fixture.

- Maximum ambient operating temperature for this fixture is **104°F (40°C)** Do not use the fixture under or above this temperature.

- Before mounting the fixture to any surface, make sure the installation area can hold a minimum point load of 10 times the weight of the fixture.

- Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

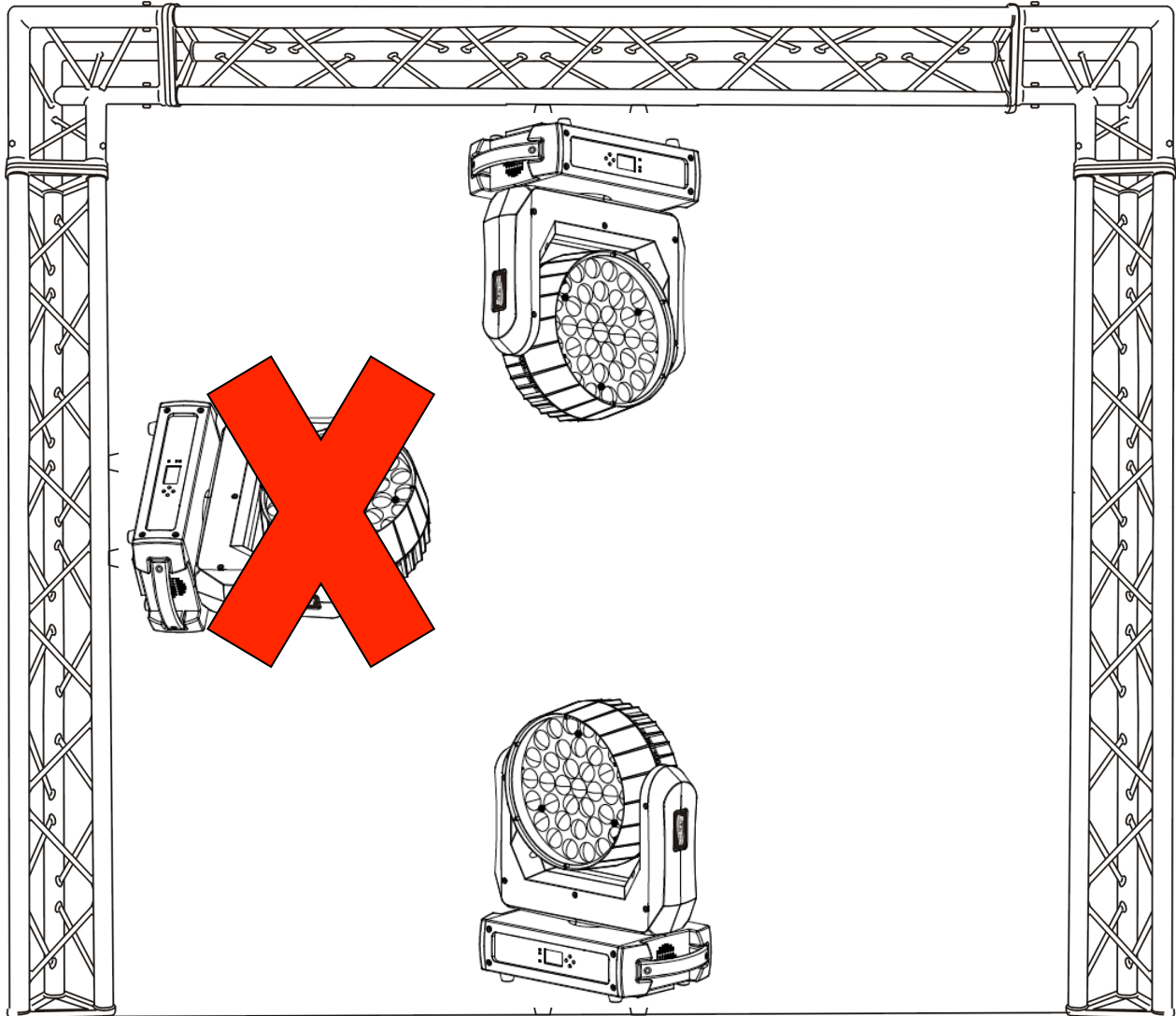- Never stand directly below the device when mounting, removing or servicing.

☞ **POWER LINKING**

Max number of units that can be power linked is **3 units @120V** and **6 units @230V**.

**MOUNTING POINTS**

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

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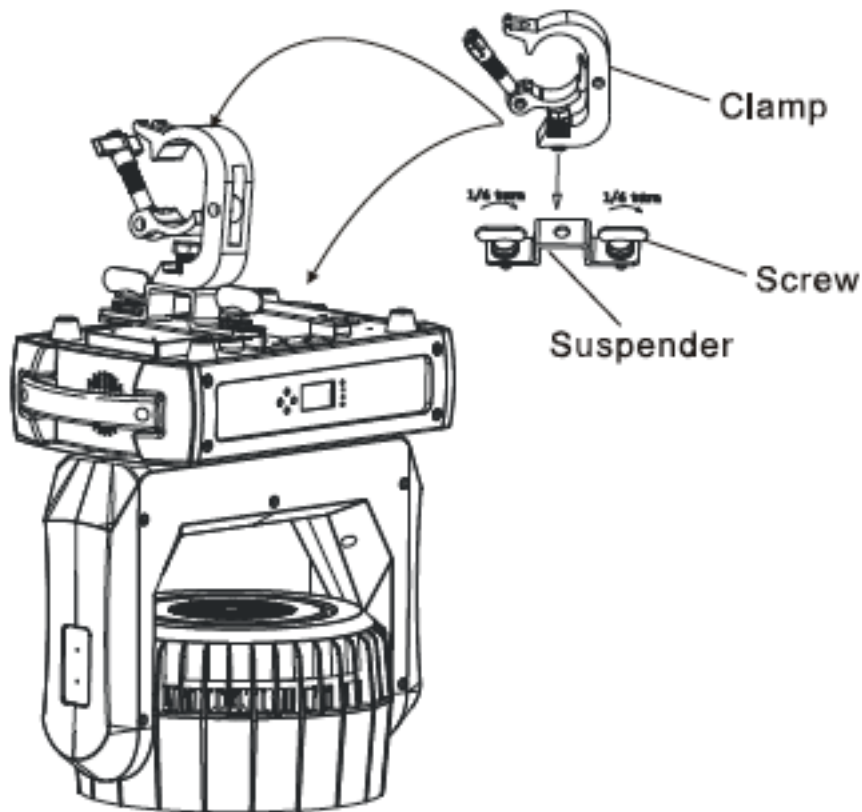


☞ **S A F E T Y   C A B L E**

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

## CLAMP MOUNTING

The fixture provides a unique mounting bracket assembly that integrates to the bottom of the base, the included **Omega Brackets (x2)** and safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss make sure to secure appropriately rated clamps to the included **Omega Brackets (x2)**. Be sure to attach an appropriate **Safety Cable** to the fixture using the safety cable rigging point integrated in the base assembly**.**



## SECURING

Regardless of the rigging option you choose for your fixture, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.
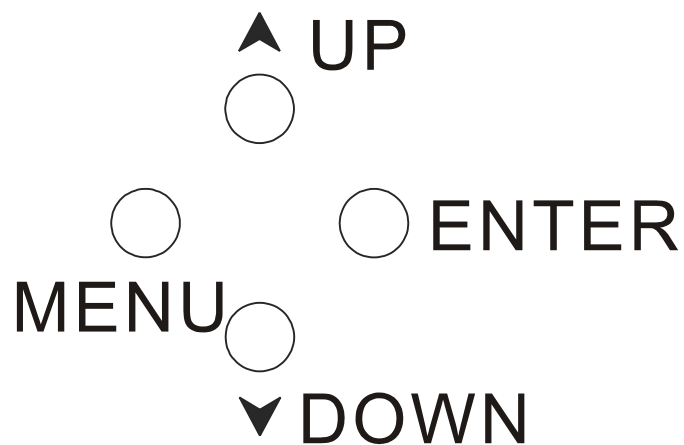
# FIXTURE MENU

**ON-BOARD SYSTEM MENU**

The fixture comes with an easy to navigate system menu. The next section will detail the functions of each command in the system menu.

**LCD MENU CONTROL PANEL**

The control panel located on front of the fixture allows you to access the main system menu and make all necessary adjustments to the fixture. During normal operation, pressing **MENU** 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** 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 **MENU** button.
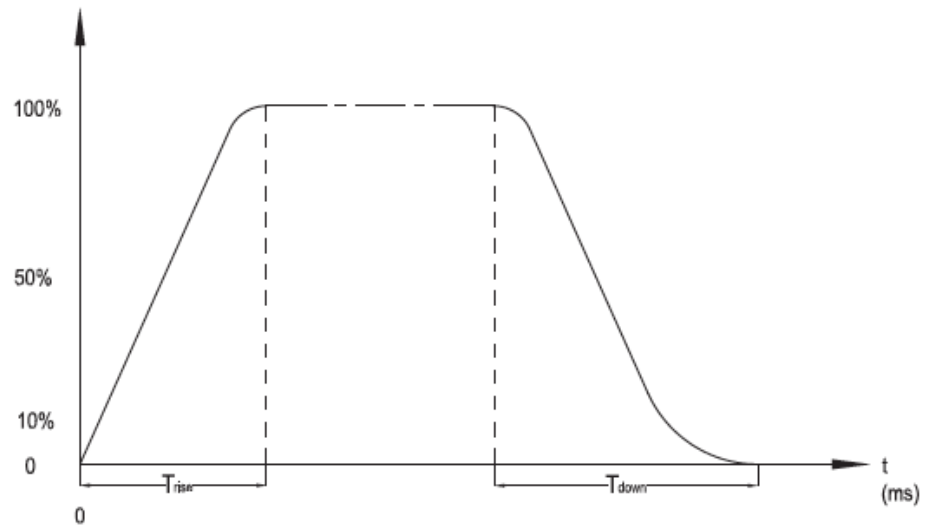
▲ UP

◯

◯    ◯ ENTER

MENU ◯

▼ DOWN

| ELATION© ZW37™ \| S Y S T E M   M E N U | | | |
|---|---|---|---|
| Features subject to change without any prior written notice. | | | |
| **MENU** | **OPTIONS / VALUES** Default Settings in **BOLD** | | **DESCRIPTION** |
| DMX Address | **001** - 512 | | Set DMX Address Setting |
| Channel Mode | Mode 1 (14), Mode 2 (22), **Mode 3 (42)** | | Select DMX Channel Mode |
| Dimmer Curve | **Standard**, Stage, TV, Architec, Theatre | | Set Dimming Curve |
| Dmx Last State | **Blackout**, Last State | | Select how fixture reacts to NO DMX signal |
| Pan Invert | **No**, Yes | | Invert Pan Movement |
| Tilt Invert | **No**, Yes | | Invert Tilt Movement |
| Backlight Auto Off | **No**, Yes | | Turn LCD Display Back Light On/Off |
| Function Delay | 0s Delay, 1s Delay, 2s Delay, **3s Delay** | | Set time before LCD display turns off after no action |
| White Balance | Red | 125 - **255** | Adjust White Balance |
| | Green | 125 - **255** | |
| | Blue | 125 - **255** | |
| Manual Test | Pan | **000** - 255 | Manual Adjustment of Features |
| | Pan Fine | **000** - 255 | |
| | Tilt | **000** - 255 | |
| | Tilt Fine | **000** - 255 | |
| | Red | **000** - 255 | |
| | Red Fine | **000** - 255 | |
| | Green | **000** - 255 | |
| | Green Fine | **000** - 255 | |
| | Blue | **000** - 255 | |
| | White | **000** - 255 | |
| | White Fine | **000** - 255 | |
| | Color | **000** - 255 | |
| | Red 2 | **000** - 255 | |
| | Red Fine 2 | **000** - 255 | |
| | Green 2 | **000** - 255 | |
| | Green Fine 2 | **000** - 255 | |
| | Blue 2 | **000** - 255 | |
| | White 2 | **000** - 255 | |
| | White Fine 2 | **000** - 255 | |
| | Color 2 | **000** - 255 | |
| | Red 3 | **000** - 255 | |
| | Red Fine 3 | **000** - 255 | |
| | Green 3 | **000** - 255 | |
| | Green Fine 3 | **000** - 255 | |
| | Blue 3 | **000** - 255 | |
| | White 3 | **000** - 255 | |
| | White Fine 3 | **000** - 255 | |
| | Color 3 | **000** - 255 | |
| | Color Macro | **000** - 255 | |
| | Color Macro Spe | **000** - 255 | |
| | CTC | **000** - 255 | |
| | Shutter | **000** - 255 | |
| | Dimmer | **000** - 255 | |
| | Dimmer Fine | **000** - 255 | |
| | Dimmer Mode | **000** - 255 | |
| | Zoom | **000** - 255 | |
| | Zoom Fine | **000** - 255 | |
| | P/T Speed | **000** - 255 | |
| | Special Function | **000** - 255 | |

| ELATION© ZW37™ \| S Y S T E M   M E N U | | |
|---|---|---|
| Features subject to change without any prior written notice. | | |
| **MENU** | **OPTIONS** / **VALUES** Default Settings in **BOLD** | **DESCRIPTION** |
| Auto Test | | Run self-test program |
| Fixture use time | | Display total use time of fixture |
| Firmware Version | CPU-A    V1.0    B1.1<br>CPU-B    V1.0    B1.1<br>CPU-C    V1.0    B1.1 | Display software version of fixture |
| PRO defaults | **No**, Yes | Reset PRO Defaults |
| Reset | **No**, Yes | Reset to factory default settings |

## Dimmer Modes

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



| Ramp Effect | $0\_\Box^{255}$ 0S (Fade Time) | | $0\_/^{255}$ 1S (Fade Time) | |
|---|---|---|---|---|
| | $T_{rise}$ (ms) | $T_{down}$ (ms) | $T_{rise}$ (ms) | $T_{down}$ (ms) |
| Standard | 0 | 0 | 0 | 0 |
| Stage | 780 | 1100 | 1540 | 1660 |
| TV | 1180 | 1520 | 1860 | 1940 |
| Architectural | 1380 | 1730 | 2040 | 2120 |
| Theatre | 1580 | 1940 | 2230 | 2280 |

| ELATION© ZW37™ ||| 
| OFFSET ADJUST MENU ||| 
| Specifications are subject to change without any prior written notice. ||| 
| **MENU** | **OPTIONS / VALUES** Default Settings in **BOLD.** | **DESCRIPTION** |
| --- | --- | --- |
| Pan Offset | (-128) - **0** - (127) | Adjust PAN Home Position |
| Tilt Offset | (-128) - **0** - (127) | Adjust TILT Home Position |
| Zoom | **0** - 255 | Adjust Zoom Position |

**OFFSET ADJUST MENU – <u>Calibration</u>**

⚠ <span style="color:red">**ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THESE FUNCTIONS.**</span>

This menu allows small adjustments to be made to the **PAN**, **TILT,** and **ZOOM** home positions, to compensate for ware and/or in the event a sensor has been knocked slightly out of place.

To access the **OFFSET ADJUST MENU** press and release the **MENU** button, then press the **ENTER** button for at least 3 seconds, and the fixture will now be in the **OFFSET MENU.** Press the **UP** or **DOWN** buttons to select **Pan**, **Tilt**, or **Zoom** then press **ENTER**.

Use the **UP** and **DOWN** buttons to adjust the home position of the selected function **(Pan, Tilt, Zoom).** Once the desired new home position has been set, press the **ENTER** button to save the new position.

To exit the **OFFSET MENU** press and hold the **MENU** button for at least 1 second.

# DMX CHANNEL FUNCTIONS AND VALUES

| ELATION© ZW37™ | | | | |
|---|---|---|---|---|
| DMX Channel Values / Functions (42 DMX Channels) | | | | |
| Specifications are subject to change without any prior written notice. | | | | |
| DMX MODE / CHANNEL | | | VALUE | FUNCTION |
| MODE 1 (14) | MODE 2 (22) | MODE 3 (42) | | |
| 1 | 1 | 1 | | PAN |
| | | | 0-255 | 0° - 540° |
| | 2 | 2 | | PAN FINE |
| | | | 0-255 | PAN FINE Adjustment |
| 2 | 3 | 3 | | TILT |
| | | | 0-255 | 0° - 220° |
| | 4 | 4 | | TILT FINE |
| | | | 0-255 | TILT FINE Adjustment |
| 3 | 5 | | | RED [ALL LEDS] |
| | | | 0-255 | Red (0-100%) |
| | 6 | | | RED FINE [ALL LEDS] |
| | | | 0-256 | Red FINE (0-100%) |
| 4 | 7 | | | GREEN [ALL LEDS] |
| | | | 0-255 | Green (0-100%) |
| | 8 | | | GREEN FINE [ALL LEDS] |
| | | | 0-256 | Green FINE (0-100%) |
| 5 | 9 | | | BLUE [ALL LEDS] |
| | | | 0-255 | Blue (0-100%) |
| | 10 | | | BLUE FINE [ALL LEDS] |
| | | | 0-256 | Blue FINE (0-100%) |
| 6 | 11 | | | WHITE [ALL LEDS] |
| | | | 0-255 | White (0-100%) |
| | 12 | | | WHITE FINE [ALL LEDS] |
| | | | 0-256 | White FINE (0-100%) |

| DMX MODE / CHANNEL | | | VALUE | FUNCTION |
|---|---|---|---|---|
| MODE 1 (14) | MODE 2 (22) | MODE 3 (42) | | |
| | | | | COLOR MACROS [ALL LEDS] |
| | | | 0 | Blackout |
| | | | 1-4 | COLOR 1 |
| | | | 5-8 | COLOR 2 |
| | | | 9-12 | COLOR 3 |
| | | | 13-16 | COLOR 4 |
| | | | 17-20 | COLOR 5 |
| | | | 21-24 | COLOR 6 |
| | | | 25-28 | COLOR 7 |
| | | | 29-32 | COLOR 8 |
| | | | 33-36 | COLOR 9 |
| | | | 37-40 | COLOR 10 |
| | | | 41-44 | COLOR 11 |
| | | | 45-48 | COLOR 12 |
| | | | 49-52 | COLOR 13 |
| | | | 53-56 | COLOR 14 |
| 7 | 13 | | 57-60 | COLOR 15 |
| | | | 61-64 | COLOR 16 |
| | | | 65-68 | COLOR 17 |
| | | | 69-72 | COLOR 18 |
| | | | 73-76 | COLOR 19 |
| | | | 77-80 | COLOR 20 |
| | | | 81-84 | COLOR 21 |
| | | | 85-88 | COLOR 22 |
| | | | 89-92 | COLOR 23 |
| | | | 93-96 | COLOR 24 |
| | | | 97-100 | COLOR 25 |
| | | | 101-104 | COLOR 26 |
| | | | 105-108 | COLOR 27 |
| | | | 109-112 | COLOR 28 |
| | | | 113-116 | COLOR 29 |
| | | | 117-120 | COLOR 30 |
| | | | 121-124 | COLOR 31 |
| | | | 125-128 | COLOR 32 |

| DMX MODE / CHANNEL | | | VALUE | FUNCTION |
|---|---|---|---|---|
| MODE 1 (14) | MODE 2 (22) | MODE 3 (42) | | |
| | | | | COLOR MACROS [ALL LEDS] continued |
| | | | 129-132 | COLOR 33 |
| | | | 133-136 | COLOR 34 |
| | | | 137-140 | COLOR 35 |
| | | | 141-144 | COLOR 36 |
| | | | 145-148 | COLOR 37 |
| | | | 149-152 | COLOR 38 |
| | | | 153-156 | COLOR 39 |
| | | | 157-160 | COLOR 40 |
| | | | 161-164 | COLOR 41 |
| | | | 165-168 | COLOR 42 |
| | | | 169-172 | COLOR 43 |
| | | | 173-176 | COLOR 44 |
| | | | 177-180 | COLOR 45 |
| | | | 181-184 | COLOR 46 |
| | | | 185-188 | COLOR 47 |
| 7 | 13 | | 189-192 | COLOR 48 |
| | | | 193-196 | COLOR 49 |
| | | | 197-200 | COLOR 50 |
| | | | 201-204 | COLOR 51 |
| | | | 205-208 | COLOR 52 |
| | | | 209-212 | COLOR 53 |
| | | | 213-216 | COLOR 54 |
| | | | 217-220 | COLOR 55 |
| | | | 221-224 | COLOR 56 |
| | | | 225-228 | COLOR 57 |
| | | | 229-232 | COLOR 58 |
| | | | 233-236 | COLOR 59 |
| | | | 237-240 | COLOR 60 |
| | | | 241-244 | COLOR 61 |
| | | | 245-248 | COLOR 62 |
| | | | 249-252 | COLOR 63 |
| | | | 253-255 | COLOR 64 |

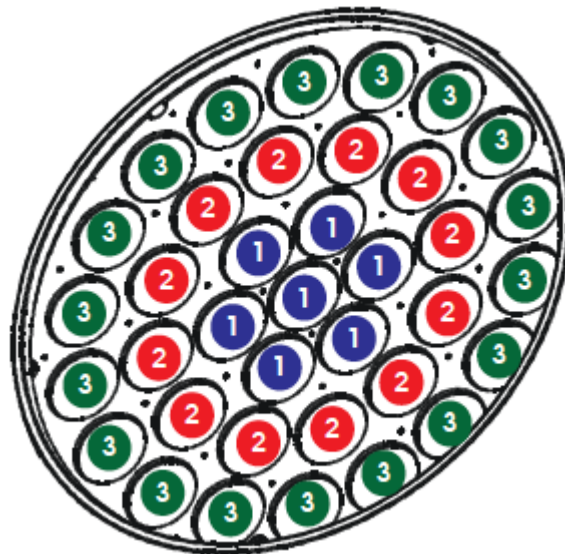| DMX MODE / CHANNEL | | | VALUE | FUNCTION |
|---|---|---|---|---|
| MODE 1 (14) | MODE 2 (22) | MODE 3 (42) | | |
| | | 5 | | RED [LED GROUP 1] |
| | | | 0-255 | Red (0-100%) |
| | | 6 | | RED FINE [LED GROUP 1] |
| | | | 0-255 | Red FINE Adjustment |
| | | 7 | | GREEN [LED GROUP 1] |
| | | | 0-255 | Green (0-100%) |
| | | 8 | | GREEN FINE [LED GROUP 1] |
| | | | 0-255 | Green FINE Adjustment |
| | | 9 | | BLUE [LED GROUP 1] |
| | | | 0-255 | Blue (0-100%) |
| | | 10 | | BLUE FINE [LED GROUP 1] |
| | | | 0-255 | Blue FINE Adjustment |
| | | 11 | | WHITE [LED GROUP 1] |
| | | | 0-255 | White (0-100%) |
| | | 12 | | WHITE FINE [LED GROUP 1] |
| | | | 0-255 | White FINE Adjustment |
| | | 13 | | COLOR MACROS [LED GROUP 1] |
| | | | 0-9 | OPEN |
| | | | 10-17 | COLOR 1 |
| | | | 18-24 | COLOR 2 |
| | | | 25-32 | COLOR 3 |
| | | | 33-39 | COLOR 4 |
| | | | 40-47 | COLOR 5 |
| | | | 48-54 | COLOR 6 |
| | | | 55-61 | COLOR 7 |
| | | | 62-69 | COLOR 8 |
| | | | 70-76 | COLOR 9 |
| | | | 77-84 | COLOR 10 |
| | | | 85-91 | COLOR 11 |
| | | | 92-99 | COLOR 12 |
| | | | 100-106 | COLOR 13 |
| | | | 107-113 | COLOR 14 |
| | | | 114-121 | COLOR 15 |
| | | | 122-128 | COLOR 16 |
| | | | 129-136 | COLOR 17 |
| | | | 137-143 | COLOR 18 |
| | | | 144-151 | COLOR 19 |
| | | | 152-158 | COLOR 20 |
| | | | 159-165 | COLOR 21 |
| | | | 166-173 | COLOR 22 |
| | | | 174-180 | COLOR 23 |
| | | | 181-188 | COLOR 24 |
| | | | 189-195 | COLOR 25 |
| | | | 196-203 | COLOR 26 |
| | | | 204-210 | COLOR 27 |
| | | | 211-217 | COLOR 28 |
| | | | 218-225 | COLOR 29 |
| | | | 226-232 | COLOR 30 |
| | | | 233-240 | COLOR 31 |
| | | | 241-247 | COLOR 32 |
| | | | 248-255 | COLOR 33 |

| DMX MODE / CHANNEL | | | VALUE | FUNCTION |
|---|---|---|---|---|
| MODE 1 (14) | MODE 2 (22) | MODE 3 (42) | | |
| | | 14 | | RED [LED GROUP 2] |
| | | | 0-255 | Red (0-100%) |
| | | 15 | | RED FINE [LED GROUP 2] |
| | | | 0-255 | Red FINE Adjustment |
| | | 16 | | GREEN [LED GROUP 2] |
| | | | 0-255 | Green (0-100%) |
| | | 17 | | GREEN FINE [LED GROUP 2] |
| | | | 0-255 | Green FINE Adjustment |
| | | 18 | | BLUE [LED GROUP 2] |
| | | | 0-255 | Blue (0-100%) |
| | | 19 | | BLUE FINE [LED GROUP 2] |
| | | | 0-255 | Blue FINE Adjustment |
| | | 20 | | WHITE [LED GROUP 2] |
| | | | 0-255 | White (0-100%) |
| | | 21 | | WHITE FINE [LED GROUP 2] |
| | | | 0-255 | White FINE Adjustment |
| | | 22 | | COLOR MACROS [LED GROUP 2] |
| | | | 0-9 | OPEN |
| | | | 10-17 | COLOR 1 |
| | | | 18-24 | COLOR 2 |
| | | | 25-32 | COLOR 3 |
| | | | 33-39 | COLOR 4 |
| | | | 40-47 | COLOR 5 |
| | | | 48-54 | COLOR 6 |
| | | | 55-61 | COLOR 7 |
| | | | 62-69 | COLOR 8 |
| | | | 70-76 | COLOR 9 |
| | | | 77-84 | COLOR 10 |
| | | | 85-91 | COLOR 11 |
| | | | 92-99 | COLOR 12 |
| | | | 100-106 | COLOR 13 |
| | | | 107-113 | COLOR 14 |
| | | | 114-121 | COLOR 15 |
| | | | 122-128 | COLOR 16 |
| | | | 129-136 | COLOR 17 |
| | | | 137-143 | COLOR 18 |
| | | | 144-151 | COLOR 19 |
| | | | 152-158 | COLOR 20 |
| | | | 159-165 | COLOR 21 |
| | | | 166-173 | COLOR 22 |
| | | | 174-180 | COLOR 23 |
| | | | 181-188 | COLOR 24 |
| | | | 189-195 | COLOR 25 |
| | | | 196-203 | COLOR 26 |
| | | | 204-210 | COLOR 27 |
| | | | 211-217 | COLOR 28 |
| | | | 218-225 | COLOR 29 |
| | | | 226-232 | COLOR 30 |
| | | | 233-240 | COLOR 31 |
| | | | 241-247 | COLOR 32 |
| | | | 248-255 | COLOR 33 |

| DMX MODE / CHANNEL | | | VALUE | FUNCTION |
|---|---|---|---|---|
| MODE 1 (14) | MODE 2 (22) | MODE 3 (42) | | |
| | | 23 | | RED [LED GROUP 3] |
| | | | 0-255 | Red (0-100%) |
| | | 24 | | RED FINE [LED GROUP 3] |
| | | | 0-255 | Red FINE Adjustment |
| | | 25 | | GREEN [LED GROUP 3] |
| | | | 0-255 | Green (0-100%) |
| | | 26 | | GREEN FINE [LED GROUP 3] |
| | | | 0-255 | Green FINE Adjustment |
| | | 27 | | BLUE [LED GROUP 3] |
| | | | 0-255 | Blue (0-100%) |
| | | 28 | | BLUE FINE [LED GROUP 3] |
| | | | 0-255 | Blue FINE Adjustment |
| | | 29 | | WHITE [LED GROUP 3] |
| | | | 0-255 | White (0-100%) |
| | | 30 | | WHITE FINE [LED GROUP 3] |
| | | | 0-255 | White FINE Adjustment |
| | | 31 | | COLOR MACROS [LED GROUP 3] |
| | | | 0-9 | OPEN |
| | | | 10-17 | COLOR 1 |
| | | | 18-24 | COLOR 2 |
| | | | 25-32 | COLOR 3 |
| | | | 33-39 | COLOR 4 |
| | | | 40-47 | COLOR 5 |
| | | | 48-54 | COLOR 6 |
| | | | 55-61 | COLOR 7 |
| | | | 62-69 | COLOR 8 |
| | | | 70-76 | COLOR 9 |
| | | | 77-84 | COLOR 10 |
| | | | 85-91 | COLOR 11 |
| | | | 92-99 | COLOR 12 |
| | | | 100-106 | COLOR 13 |
| | | | 107-113 | COLOR 14 |
| | | | 114-121 | COLOR 15 |
| | | | 122-128 | COLOR 16 |
| | | | 129-136 | COLOR 17 |
| | | | 137-143 | COLOR 18 |
| | | | 144-151 | COLOR 19 |
| | | | 152-158 | COLOR 20 |
| | | | 159-165 | COLOR 21 |
| | | | 166-173 | COLOR 22 |
| | | | 174-180 | COLOR 23 |
| | | | 181-188 | COLOR 24 |
| | | | 189-195 | COLOR 25 |
| | | | 196-203 | COLOR 26 |
| | | | 204-210 | COLOR 27 |
| | | | 211-217 | COLOR 28 |
| | | | 218-225 | COLOR 29 |
| | | | 226-232 | COLOR 30 |
| | | | 233-240 | COLOR 31 |
| | | | 241-247 | COLOR 32 |
| | | | 248-255 | COLOR 33 |

| DMX MODE / CHANNEL | | | VALUE | FUNCTION |
|---|---|---|---|---|
| MODE 1 (14) | MODE 2 (22) | MODE 3 (42) | | |
| | | 32 | | **MACROS [LED GROUPS 1-3]** |
| | | | 0-7 | Blackout |
| | | | 8-22 | Macro 01 |
| | | | 23-37 | Macro 02 |
| | | | 38-52 | Macro 03 |
| | | | 53-67 | Macro 04 |
| | | | 68-82 | Macro 05 |
| | | | 83-97 | Macro 06 |
| | | | 98-112 | Macro 07 |
| | | | 113-127 | Macro 08 |
| | | | 128-142 | Macro 09 |
| | | | 143-157 | Macro 10 |
| | | | 158-172 | Macro 11 |
| | | | 173-187 | Macro 12 |
| | | | 188-202 | Macro 13 |
| | | | 203-217 | Macro 14 |
| | | | 218-232 | Macro 15 |
| | | | 233-247 | Macro 16 |
| | | | 248-255 | Macro 17 |
| | | 33 | | **MACRO SPEED [LED GROUPS 1-3]** |
| | | | 0-255 | SLOW to FAST |
| 8 | 14 | 34 | | **VARIABLE WHITE** |
| | | | 0-255 | 1=2700K, 255=6,000K |
| 9 | 15 | 35 | | **SHUTTER / STROBE** |
| | | | 0-19 | BLACKOUT |
| | | | 20-24 | OPEN |
| | | | 25-64 | Strobe SLOW to FAST |
| | | | 65-69 | OPEN |
| | | | 70-84 | Pulse SLOW Open - FAST Close |
| | | | 85-89 | OPEN |
| | | | 90-104 | Pulse FAST Open - SLOW Close |
| | | | 105-109 | OPEN |
| | | | 110-124 | Random Strobe |
| | | | 125-129 | OPEN |
| | | | 130-144 | Random Opening Pulse |
| | | | 145-149 | OPEN |
| | | | 150-164 | Random Closing Pulse |
| | | | 165-169 | OPEN |
| | | | 170-184 | Burst Pulse |
| | | | 185-189 | OPEN |
| | | | 190-204 | Random Burst Pulse |
| | | | 205-209 | OPEN |
| | | | 210-224 | Pulsing |
| | | | 225-229 | OPEN |
| | | | 230-244 | Burst |
| | | | 245-255 | OPEN |

| DMX MODE / CHANNEL | | | VALUE | FUNCTION |
|---|---|---|---|---|
| MODE 1 (14) | MODE 2 (22) | MODE 3 (42) | | |
| 10 | 16 | 36 | | MASTER DIMMER |
| | | | 0-255 | Dimmer (0-100%) |
| | 17 | 37 | | DIMMER FINE (16bit) |
| | | | 0-256 | Dimmer FINE (0-100%) |
| 11 | 18 | 38 | | DIMMING CURVE MODES |
| | | | 0-20 | Standard |
| | | | 21-40 | Stage |
| | | | 41-60 | TV |
| | | | 61-80 | Architectural |
| | | | 81-100 | Theatre |
| | | | 101-255 | Default to unit setting |
| 12 | 19 | 39 | | ZOOM |
| | | | 0-255 | 10° NARROW to 60° WIDE |
| | 20 | 40 | | ZOOM FINE |
| | | | 0-255 | ZOOM FINE Adjustment |
| 13 | 21 | 41 | | PAN / TILT MOVEMENT SPEED |
| | | | 0-255 | PAN / TILT Movement Speed FAST - SLOW |
| 14 | 22 | 42 | | SPECIAL FUNCTIONS |
| | | | 0-69 | NO FUNCTION |
| | | | 70-79 | Blackout While Pan/Tilt Movement = ON* |
| | | | 80-89 | Blackout While Pan/Tilt Movement = **OFF (DEFAULT)*** |
| | | | 90-99 | Blackout When RGBW Values Change = ON* |
| | | | 100-199 | Blackout When RGBW Values Change = **OFF (DEFAULT)*** |
| | | | 200-209 | Reset ALL |
| | | | 210-255 | NO FUNCTION |
| | | | | **\*NOTE: Blackout settings SAVED from any DMX mode.** |

# L E D   G R O U P S [ 1 - 3 ]

# CLEANING AND MAINTENANCE

> ⚠️ **C A U T I O N**
>
> **Disconnect power before cleaning or 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 3 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.

• 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).

• Inspect all moving parts and make sure there are no signs of wear and rotate/move without imbalances.

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

# TECHNICAL SPECIFICATIONS

## SOURCE
(37) 15W RGBW 4-in-1 LEDs
50,000 Hour Average LED Life*
*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.

## EFFECTS
(64) Color Macros
Motorized Zoom: 10° - 60°
Electronic Dimming: 0% - 100%
Strobe and Selectable Dimming Curves

## COLOR
RGBW Color Mixing

## CONTROL / CONNECTIONS
(3) DMX Channel Modes (14 / 22 / 42)
4 Button Touch Control Panel
Pan: 540° / Tilt: 220°
Pan/Tilt Inverse Mode
180° Reversible LCD Menu Display
16-Bit Fine Resolution Adjustable Movement
3pin/5pin DMX In/Out
powerCON Power In/Out
Power Link Up To (3) Units at 120V (6) Units at 230V

## SIZE / WEIGHT
Length: 16.9" (430mm)
Width: 12.0" (304mm)
Vertical Height: 20.2" (512mm)
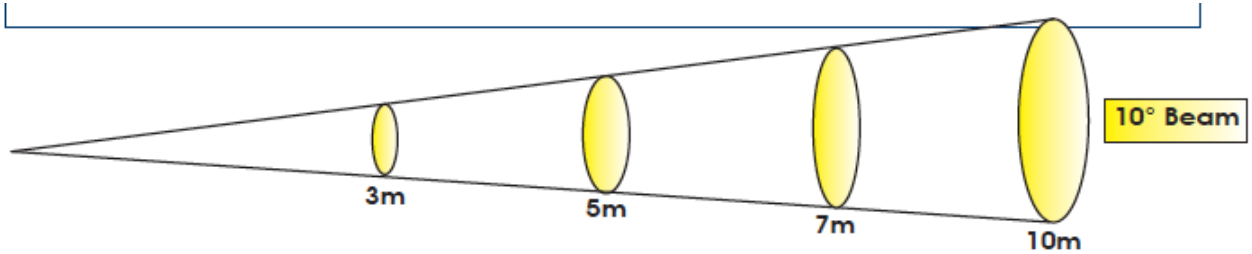Weight: 43.0 lbs. (19.5 kg)

## ELECTRICAL / THERMAL
AC 100-230V - 50/60Hz
715W Max Power Consumption
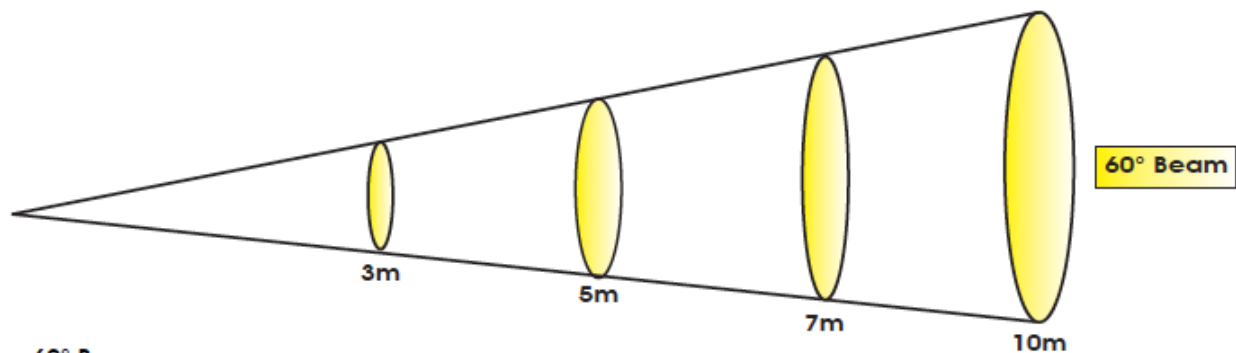-4°F (-20°C) to 104°F (40°C)

## APPROVALS / RATINGS
CE | RoHs | IP20

**Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.**
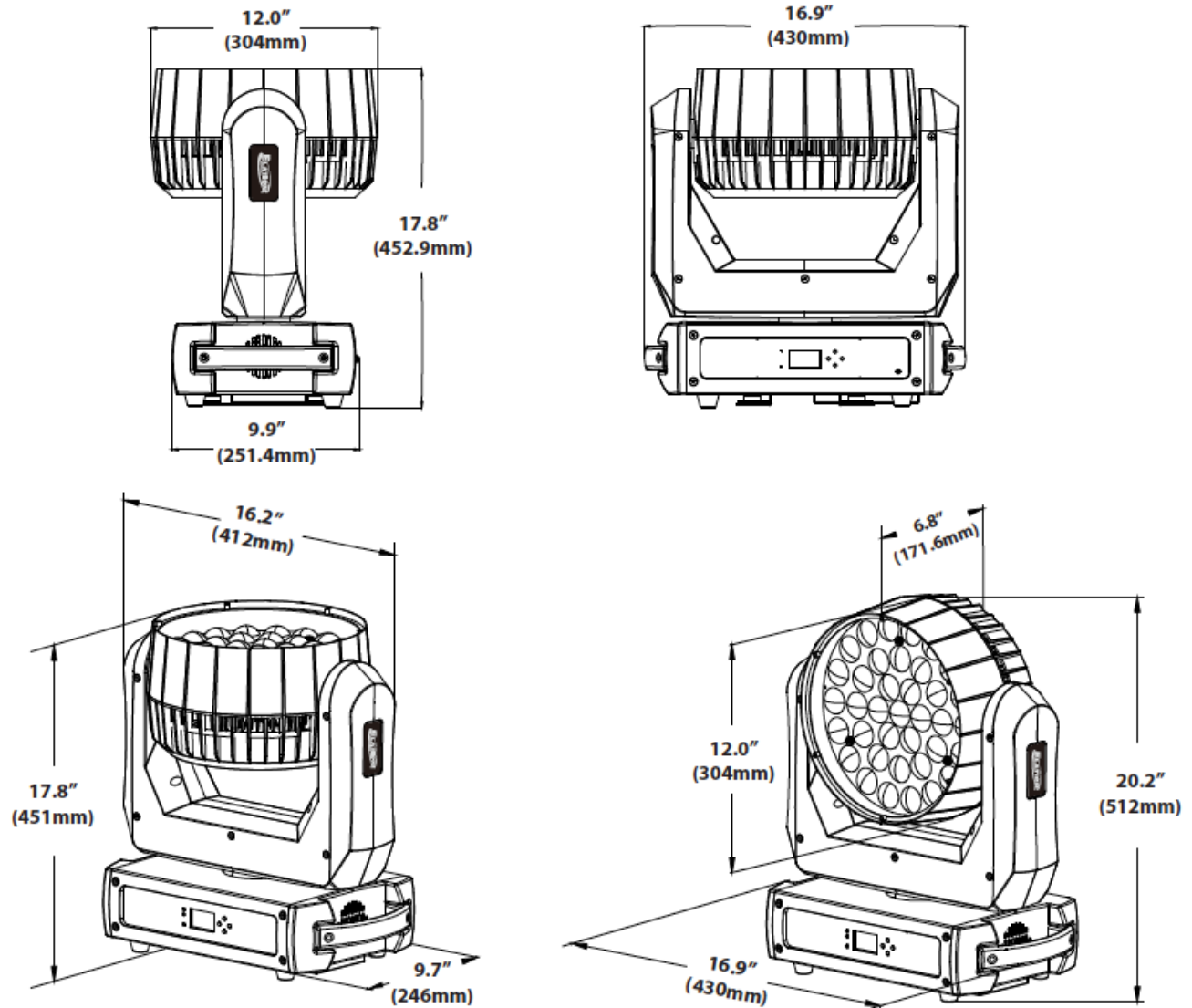
## PHOTOMETRIC DATA



**10° Beam Diameter**

| | 3 m | 9.8 ft | 5 m | 16.4 ft | 7 m | 23 ft | 10 m | 32.8 ft |
|---|---|---|---|---|---|---|---|---|
| | lux | fc | lux | fc | lux | fc | lux | fc |
| RED LEDs | 5,200 | 483 | 1,700 | 158 | 928 | 86 | 486 | 45 |
| GREEN LEDs | 11,400 | 1,059 | 4,246 | 394 | 2,255 | 209 | 1,056 | 98 |
| BLUE LEDs | 475 | 44 | 193 | 18 | 120 | 11 | 64 | 6 |
| WHITE LEDs | 13,400 | 1,245 | 5,000 | 465 | 2,727 | 253 | 1,160 | 108 |
| FULL ON | 28,650 | 2,662 | 11,440 | 1,063 | 5,528 | 514 | 2,660 | 247 |



**60° Beam Diameter**

| | 3 m | 9.8 ft | 5 m | 16.4 ft | 7 m | 23 ft | 10 m | 32.8 ft |
|---|---|---|---|---|---|---|---|---|
| | lux | fc | lux | fc | lux | fc | lux | fc |
| RED LEDs | 501 | 47 | 170 | 16 | 107 | 10 | 72 | 7 |
| GREEN LEDs | 1,050 | 98 | 335 | 31 | 224 | 21 | 132 | 12 |
| BLUE LEDs | 59 | 5 | 26 | 2 | 30 | 3 | 22 | 2 |
| WHITE LEDs | 1,153 | 107 | 421 | 39 | 271 | 25 | 150 | 14 |
| FULL ON | 2,564 | 238 | 916 | 85 | 556 | 52 | 315 | 29 |

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

## DIMENSIONAL DRAWINGS



**Please Note: 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 |
| PLC3 | 3' (1m) PowerCON PRO Link Cable |
| AC3PDMX5PRO | 5 ft. (1.5m) 3pin PRO DMX Cable |
| AC5PDMX5PRO | 5 ft. (1.5m) 5pin PRO DMX Cable |
| | Additional Cable Lengths Available |