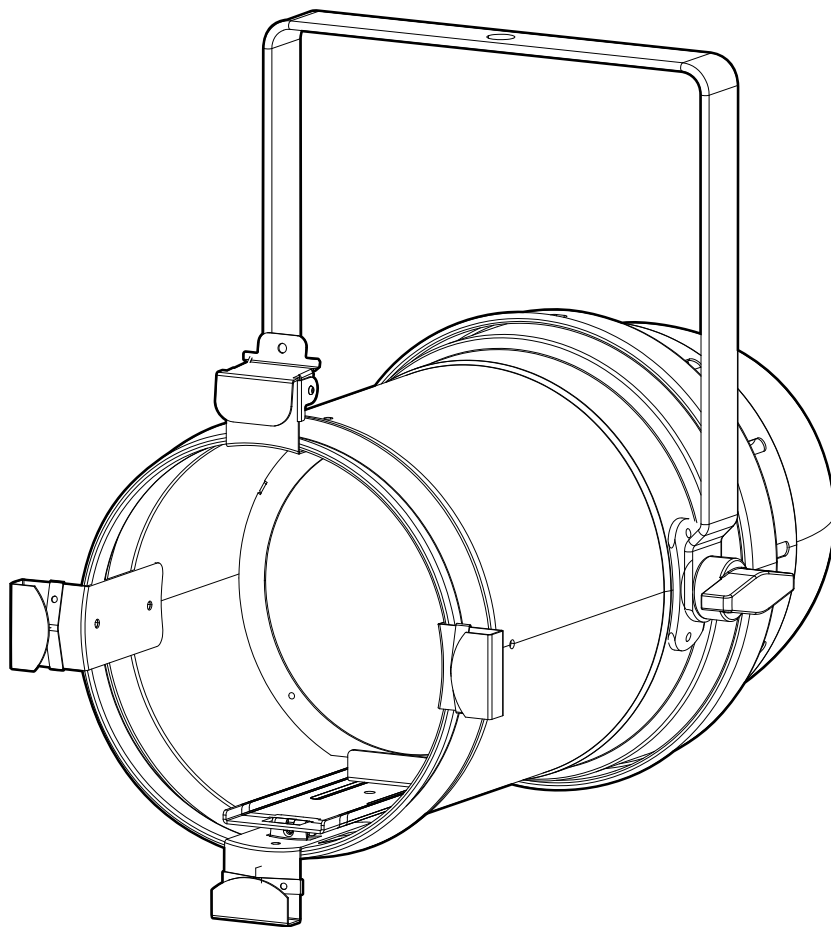




# PAR Z100 5K2

## User Manual

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**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!

**DOCUMENT VERSION**



Due to additional product features and/or enhancements, an updated version of this document may be available online.  
Please check [www.adj.com](http://www.adj.com) for the latest revision/update of this manual before beginning installation and/or programming.

| Date     | Document Version | Software Version > | DMX Channel Mode | Notes                                                |
|----------|------------------|--------------------|------------------|------------------------------------------------------|
| 01/08/24 | 1                | 1.01               | 3ch / 4ch        | Initial Release                                      |
| 02/19/24 | 1.1              | N/C                | 1ch / 3ch / 4ch  | Updated System Menu, DMX Traits, RDM, Specifications |
| 08/07/24 | 1.2              | N/C                | No Change        | Updated Dimensional Drawings, Specifications         |
|          |                  |                    |                  |                                                      |

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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.

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

## Unpacking

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

## BOX CONTENTS

1.83M locking power cable

## CUSTOMER SUPPORT

Contact ADJ Service for any product related service and support needs. Also visit [forums.adj.com](https://forums.adj.com) with questions, comments or suggestions.

**ADJ SERVICE USA** - Monday - Friday 8:00am to 4:30pm PST  
323-582-2650 | Fax: 323-832-2941 | [support@adj.com](mailto:support@adj.com)

**ADJ SERVICE EUROPE** - Monday - Friday 08:30 to 17:00 CET  
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**REPLACEMENT PARTS** please visit [parts.adj.com](https://parts.adj.com)



## IMPORTANT NOTICE!

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

# LIMITED WARRANTY (USA ONLY)

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). 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, you must obtain a Return Authorization number (RA#) before sending back the product-please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, or for the safe return thereof.
- C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product, if the product has been repaired or service by anyone other than ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warrant service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or 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 products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has 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 ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.
- G. This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

## LIMITED WARRANTY PERIODS

- **Non L.E.D. Lighting Products = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excludes laser diodes which have 6 month limited warranty)
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding batteries which have a 180 day limited warranty)  
Note: 2 Year Warranty only applies to purchases within the United States.
- **StarTec Series = 1 Year Limited Warranty** (excluding batteries which have a 180 day limited warranty)
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty**

# SAFETY GUIDELINES

This device is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. ADJ PRODUCTS, LLC. is not responsible for injury and/or damages resulting from the misuse of this device due to the disregard of the information printed in this manual. Only the original included parts and/or accessories for this device should be used. Any modifications to the device, included and/or accessories 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.  
DONOTATTEMPTANYREPAIRSYOURSELF; DOINGSOWILLVOIDYOURMANUFACTURER'S  
WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR  
THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID  
THE MANUFACTURE'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS  
AND/OR REPAIRS.**



**DO NOT PLUG FIXTURE INTO A DIMMER PACK!  
NEVER OPEN THIS FIXTURE WHILE IN USE!  
UNPLUG POWER BEFORE SERVICING FIXTURE!  
NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!  
KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!**



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



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



**MINIMUM DISTANCE TO OBJECTS/SURFACES  
MUST BE 39.4 FEET (12 METERS)  
MAXIMUM TEMP OF EXTERNAL SURFACE 194°F (90°C)  
MINIMUM DISTANCE OF INFLAMMABLE MATERIALS  
FROM THE SURFACE 0.7 FEET (0.2 METER)**

## WARNING



**Minimum distance to lighted objects 12.0 meters.**

**Maximum temperature of the external surface is 90°C**

**Minimum distance of inflammable materials from the surface 0.2m.**



# 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. 7.9" (20cm) between fixture and other devices or a wall for proper cooling.

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

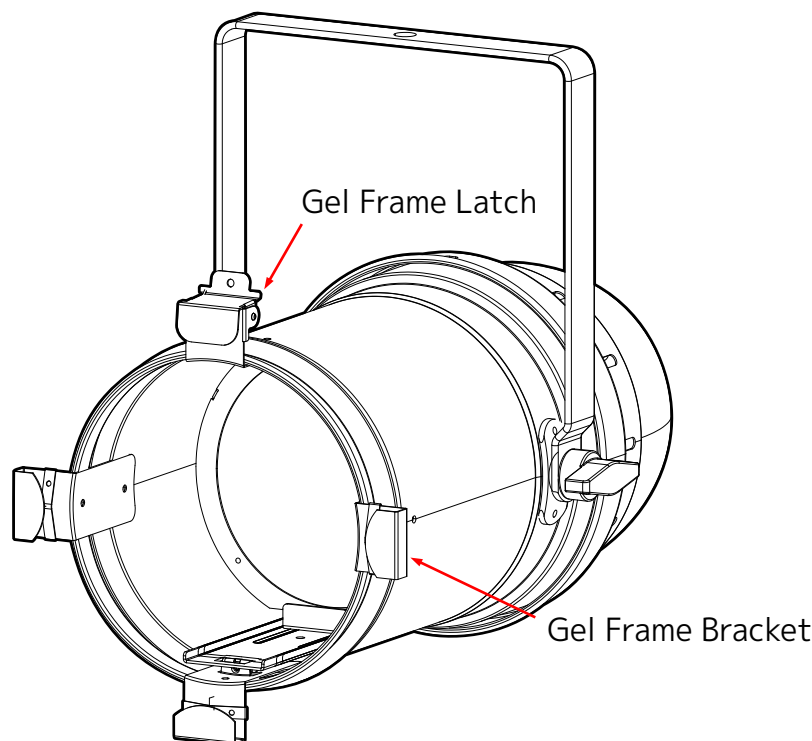
Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.

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

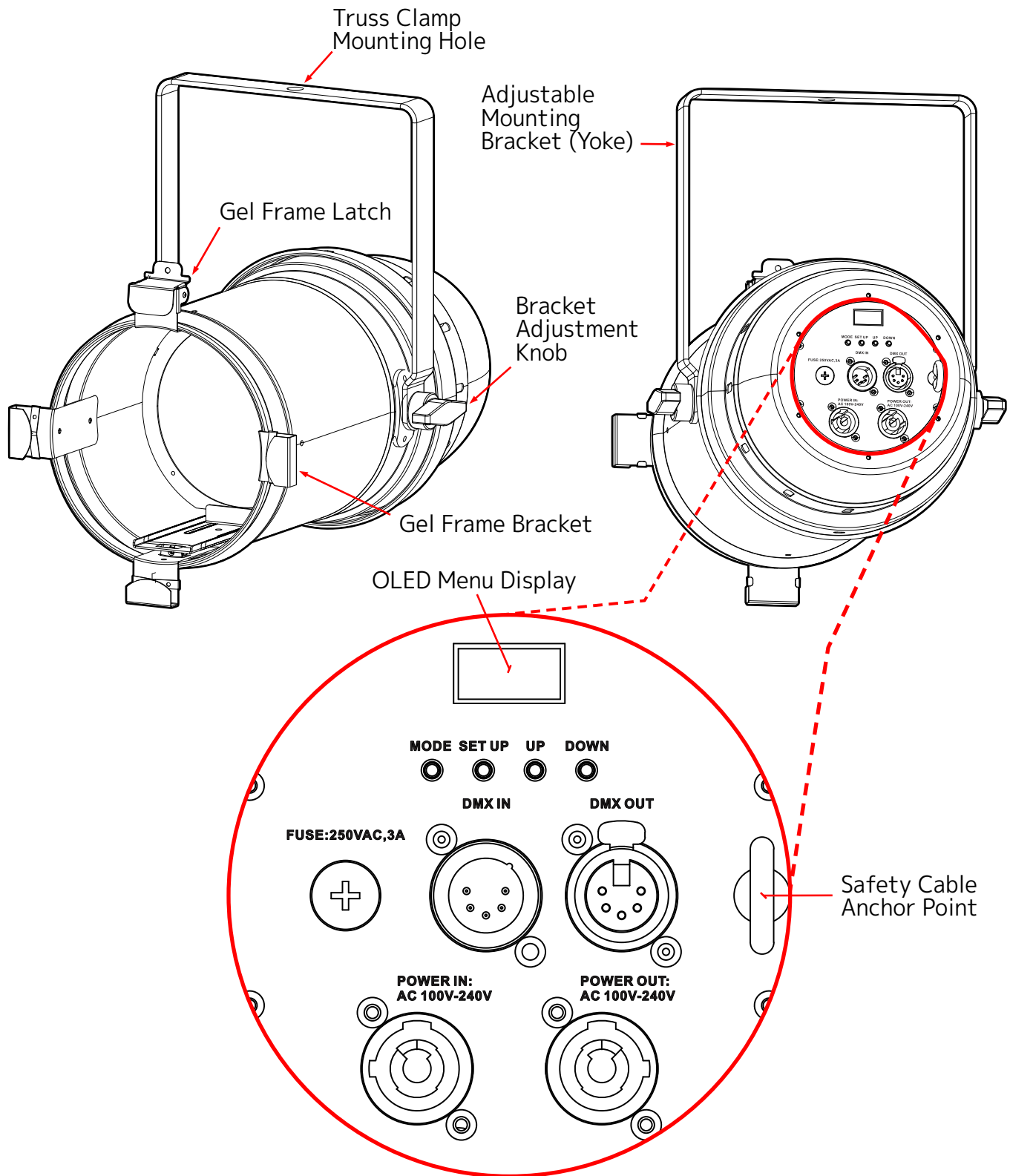
Consistent operational breaks will ensure fixture will function properly for many years.

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

**NOTE:** when installing the fixture, ensure the Latch is positioned at the top so that, in the unlikely event the latch fails, the gel frame will remain in the fixture.



# OVERVIEW



# INSTALLATION GUIDELINES



## **FLAMMABLE MATERIAL WARNING**

Keep fixture minimum 0.7 feet (0.2m) 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 MAX AMPS.**



**MINIMUM DISTANCE TO OBJECTS/SURFACES  
MUST BE 39.4 FEET (12 METERS)**



**MINIMUM DISTANCE OF INFLAMMABLE MATERIALS  
FROM THE SURFACE 0.7 FEET (0.2 METER)**



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

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

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

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

Fixture ambient operating temperature range is **-4° to 113°F. (-20° to 45°C).**

Do not Use fixture under or above this temperature.

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

**NEVER** stand directly below the fixture(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 servicing.

## **RIGGING**

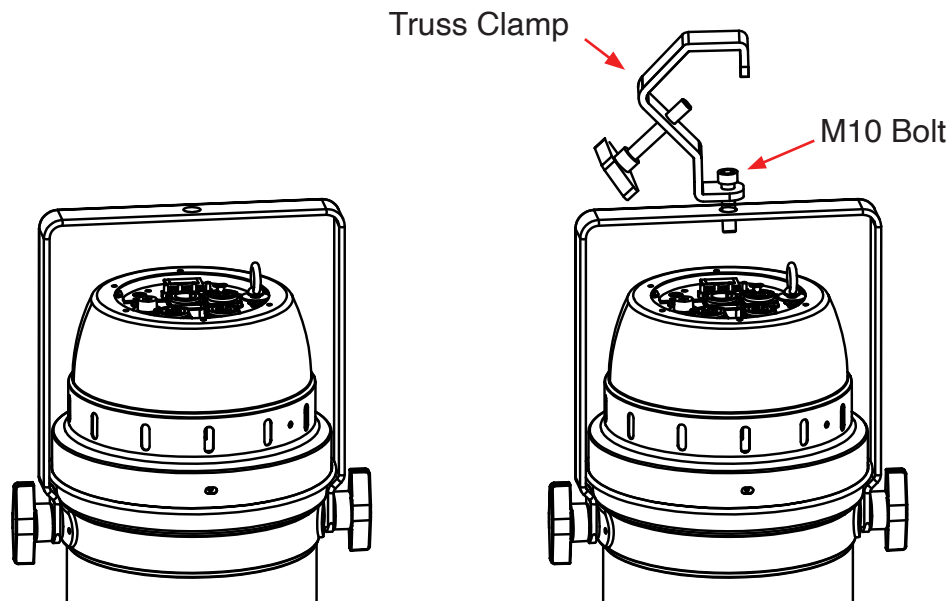
**Overhead rigging requires extensive experience, including among others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper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



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

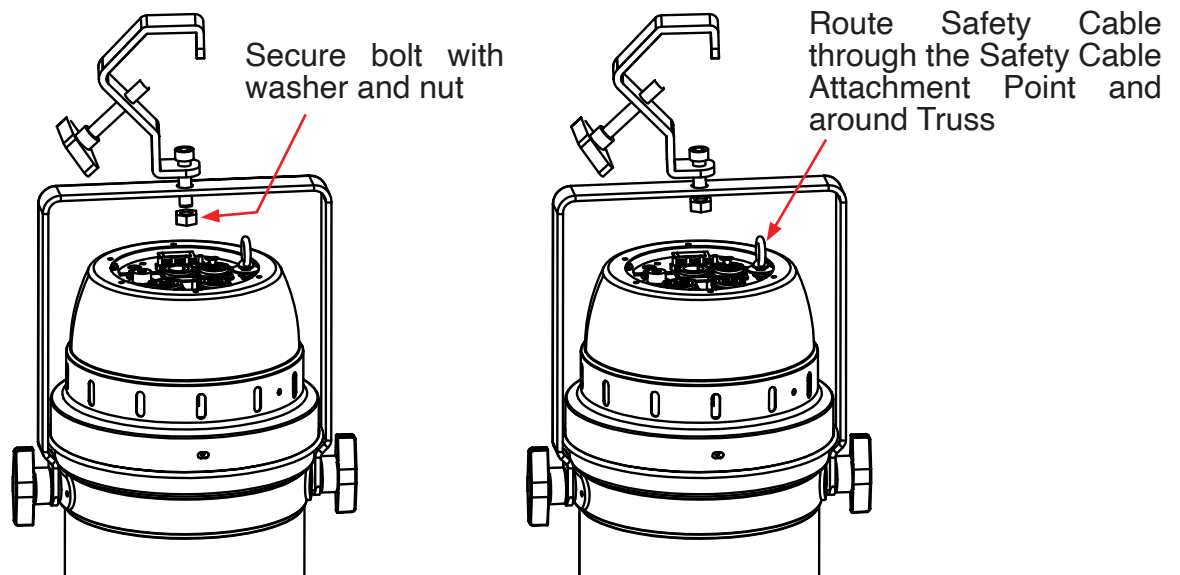
# INSTALLATION GUIDELINES

When mounting fixture to truss, be sure to secure an appropriately rated professional grade rigging clamp to the Adjustable using an M10 screw fitted through the center hole of the Adjustable Mounting Bracket. The fixture provides built-in rigging points for a **SAFETY CABLE** (not included). Be sure to only use one of the designated rigging points for the safety cable and never secure a safety cable to a carrying handle.



## SAFETY CABLE

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

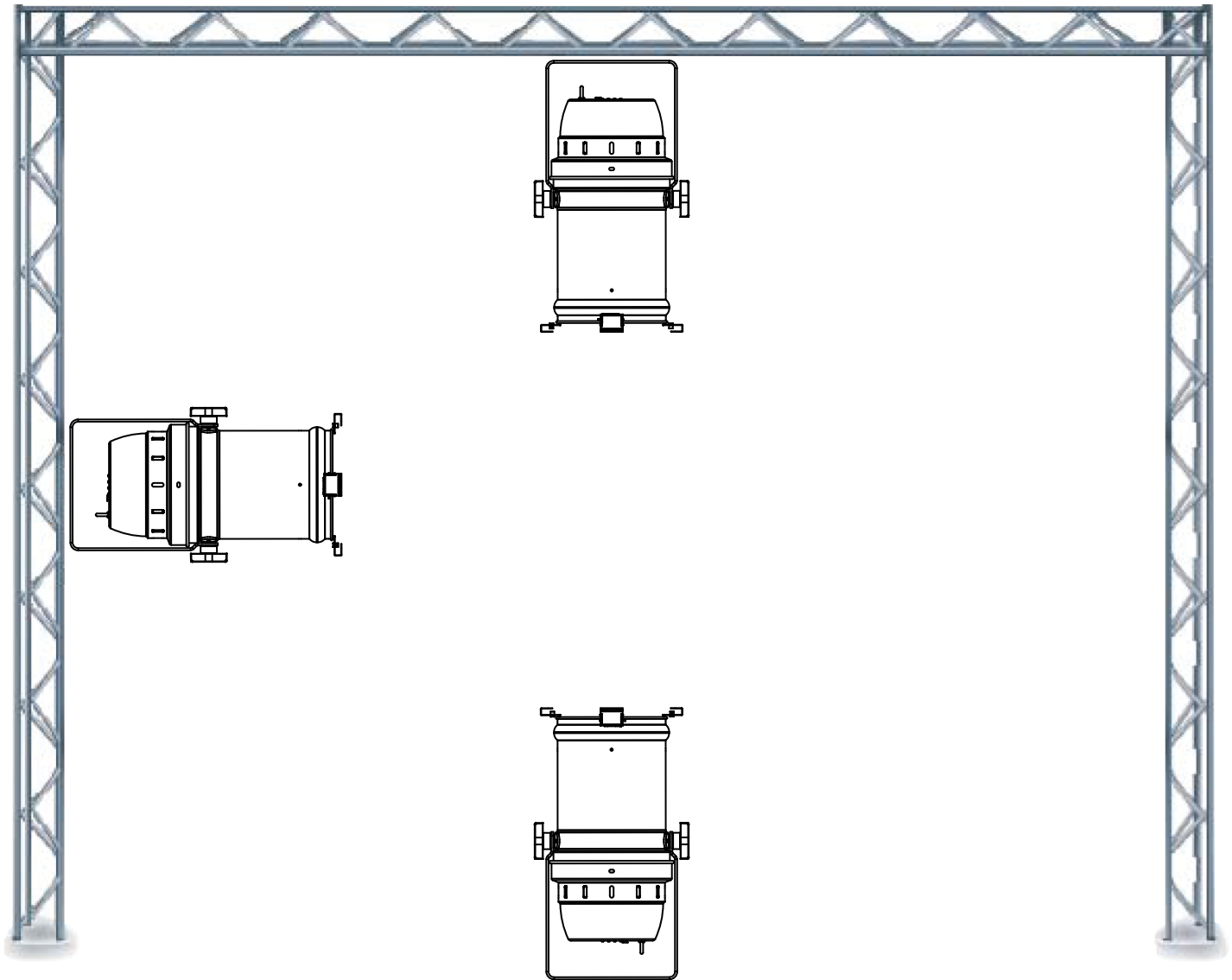


# INSTALLATION GUIDELINES

## RIGGING

Overhead rigging requires extensive experience, including among 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.

This fixture is designed to be mounted vertically (hanging or upright) only.



**FALLING FIXTURES CAN CAUSE SEVERE INJURY OR SERIOUS EQUIPMENT DAMAGE! FOR THIS REASON, FIXTURES SHOULD BE INSTALLED AND INSPECTED ONLY BY QUALIFIED PERSONNEL. DO NOT INSTALL THE UNIT IF YOU LACK THE QUALIFICATIONS TO DO SO, OR IF YOU HAVE DOUBTS ABOUT THE SAFETY AND SECURITY OF THE INSTALLATION SETUP OR LOCATION!**



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

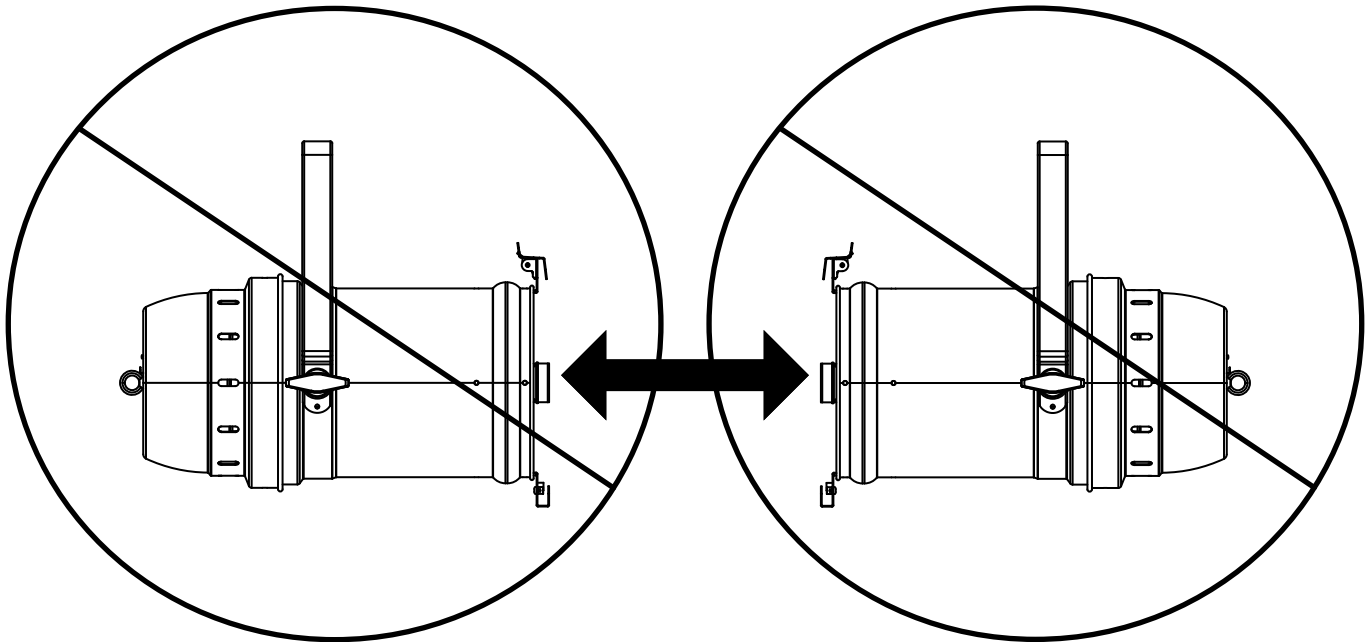
# INSTALLATION GUIDELINES

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

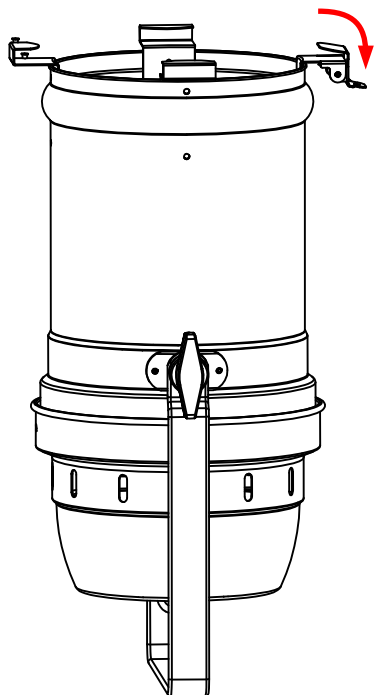
External sources of light beams from direct sunlight, lighting and moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of Elation lighting fixtures, can cause severe internal damage including burning of optics, dichroic color 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, but rather 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 reduce the risk of potential damage. Contact Elation Service for more details.

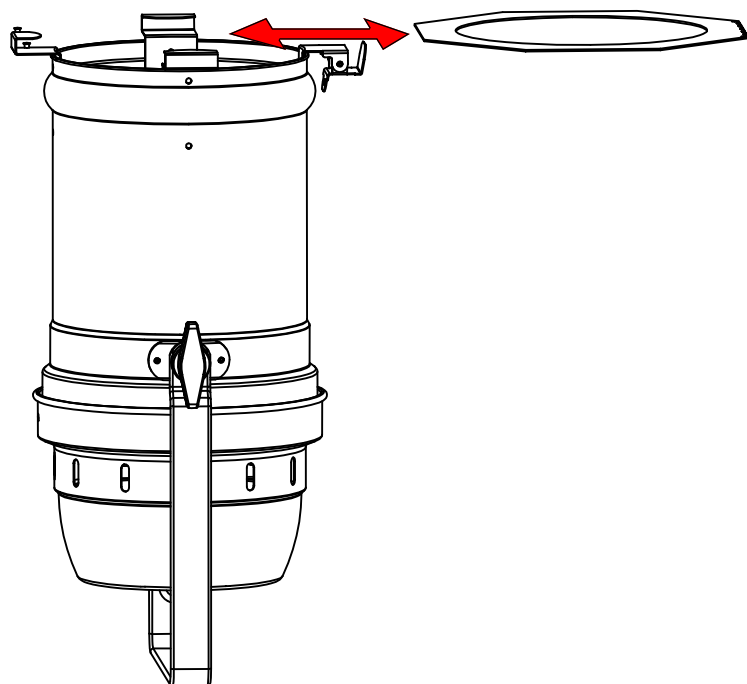
**DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING OR MOVING HEAD FIXTURES, AND LASERS DURING UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.**



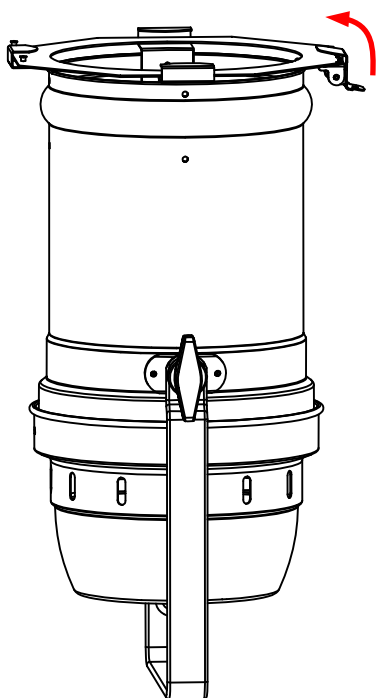
## ACCESSORY INSTALLATION: GEL FRAME



1. Flip open the retaining clip.



2. Slide the Gel Frame into place.

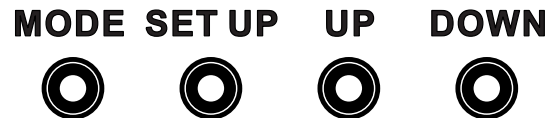


3. Return the retaining clip to the original position.

# SYSTEM MENU

The Vizi Beam CMY features a display screen with a 4-button control pad, which can be used to easily adjust any device settings.

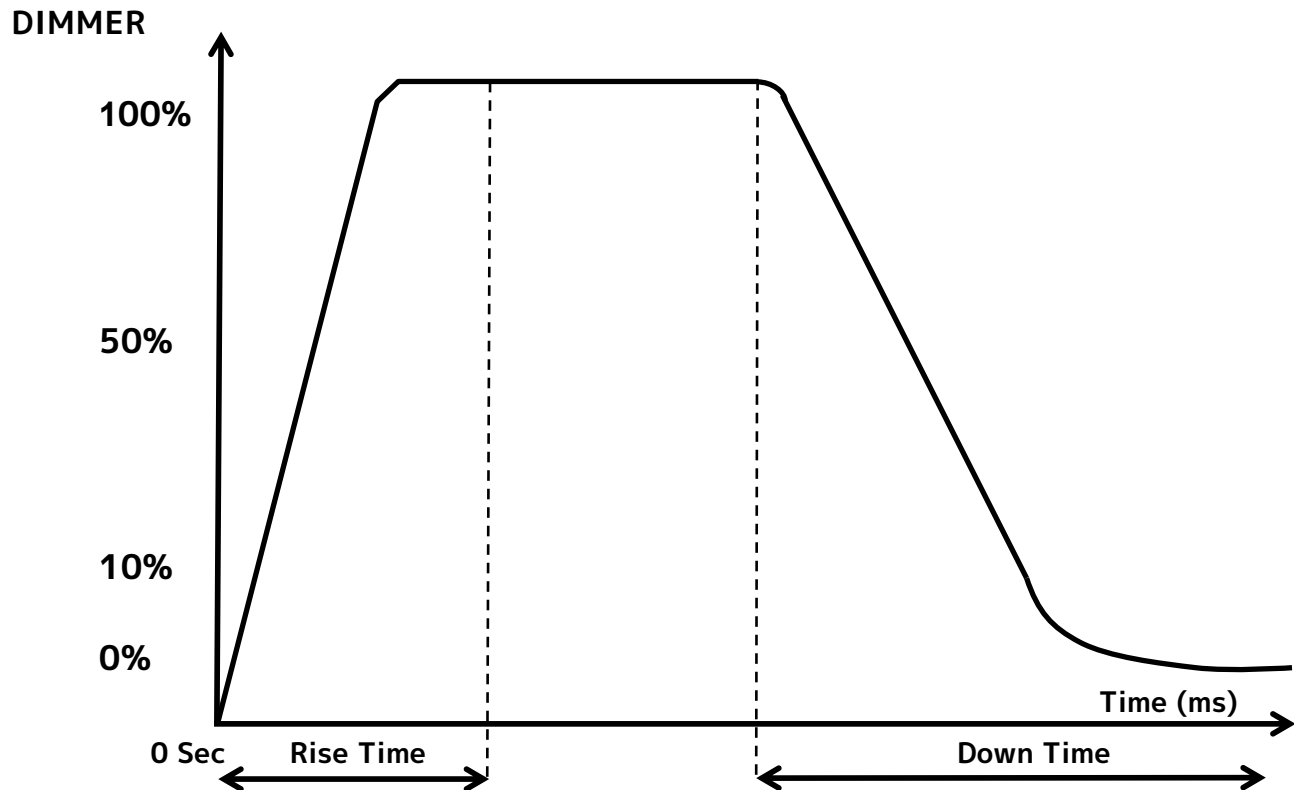
- The **MODE** button cycles through main menu options, or returns to the previous menu without making changes.
- The **SET UP** button is used to select the highlighted option, or to confirm a selection.
- The **UP** and **DOWN** buttons are used to navigate and adjust menu options and settings displayed on the screen.



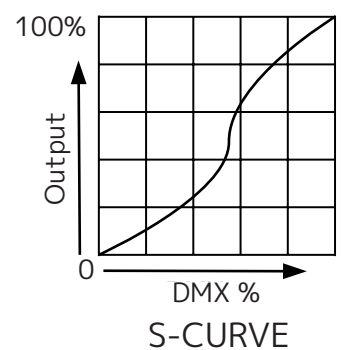
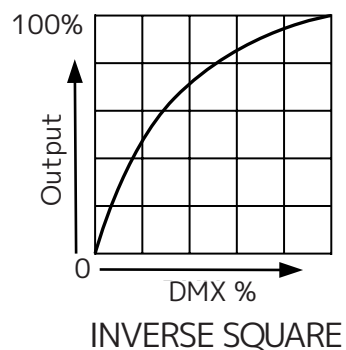
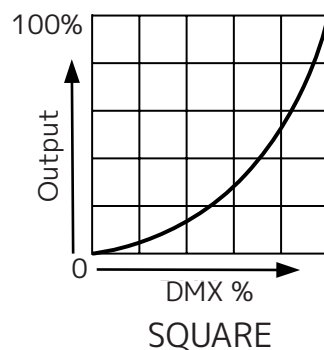
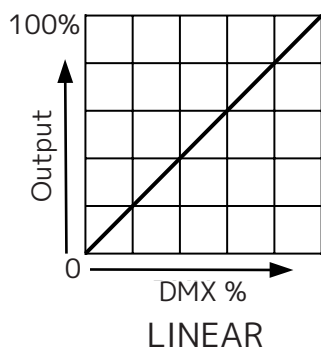
# SYSTEM MENU

| MAIN MENU      | OPTIONS / VALUES (Default Settings in <b>BOLD</b> ) |                                                        |                              |          |
|----------------|-----------------------------------------------------|--------------------------------------------------------|------------------------------|----------|
| DMX Settings   | DMX Address                                         | 001 - 512                                              |                              |          |
|                | Channel Mode                                        | 1CH, 3CH, 4CH                                          |                              |          |
|                | Black Out, <b>Hold</b> , Pri / Sec                  |                                                        |                              |          |
| Personality    | Pri / Sec Mode                                      | Primary / Secondary                                    |                              |          |
|                | Dimmer Mode                                         | Standard, Stage, TV, Architechatural, Theatre, Stage 2 |                              |          |
|                | Display                                             | Saver Delay                                            | OFF, 1-10 Seconds            |          |
|                |                                                     | Screen Lock                                            | OFF - 30 Sec., 1M, 2M... 10M |          |
|                |                                                     | Rotate                                                 | dISP / dSIP                  |          |
|                | RDM                                                 | On / Off                                               |                              |          |
|                | Temperature Unit                                    | °C/°F                                                  |                              |          |
|                | Service                                             | Passcode (011)                                         | Factory Restore              | Yes / No |
| Manual Control | Dimmer                                              | 000-255                                                |                              |          |
|                | Strobe                                              | 000-255                                                |                              |          |
| Information    | Fixture Life time hours                             | xxxxx                                                  |                              |          |
|                | LED Usage Time                                      | xxxxx                                                  |                              |          |
|                | RDM PID                                             | xxxxxx                                                 |                              |          |
|                | Firmware Version                                    | Vx.x                                                   |                              |          |

# DIMMER MODES AND CURVES



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



# DMX SETUP

**Power Supply:** The ADJ PAR Z100 5K2 incorporates an electronic ballast, which automatically senses the voltage when it is plugged into the power source. With the electronic ballast, this unit can be plugged in anywhere.

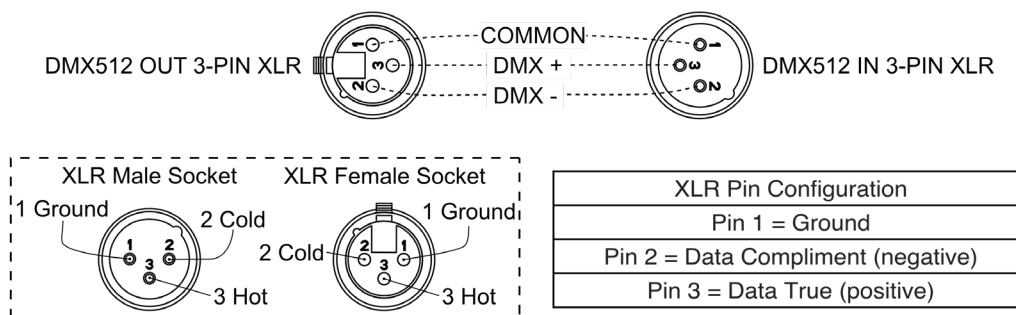
**DMX-512:** DMX stands for Digital Multiplex. This is a universal protocol used by most lighting and controller manufacturers as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals found on all DMX fixtures (most controllers only have a DATA “OUT” terminal).

**DMX Linking:** DMX serves as a language that allows all makes and models from different manufacturers to be linked and operated from a single controller if all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission when using several DMX fixtures, use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example, a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line—at the beginning, at the end, or anywhere in the middle. Therefore, the first fixture controlled by the controller could be the last fixture in the chain. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is in the DMX chain.

**Data Cable (DMX Cable) Requirements (For DMX and Primary/Secondary Operation):** The PAR Z100 5K2 can be controlled via DMX-512 protocol. It can be either a 10, 12, or 16-channel DMX unit. The DMX address is electronically set using the controls on the front panel of the unit. One’s unit and DMX controller require an approved DMX-512 110 Ohm Data cable for data input and data output (Figure 1). Accu-Cable DMX cables are recommended. If one is making their own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all professional sound and lighting stores). Cables should be made with a male and female XLR connector on either end of the cable. Also, remember that DMX cable must be daisy-chained and cannot be split.



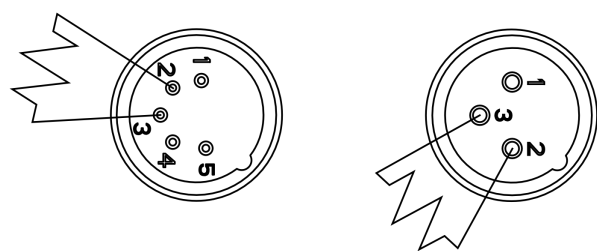
**Notice:** Be sure to follow figures two and three when making one’s own cables. Do not use the ground lug on the XLR connector. Do not connect the cable’s shield conductor to the ground lug or allow the shield conductor to contact the XLR’s outer casing. Grounding the shield could cause a short circuit and erratic behavior.



# DMX SETUP

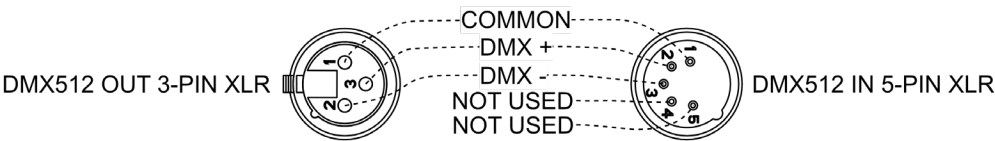
**Power Supply:** The PAR Z100 5K2 incorporates an electronic ballast, which automatically

**Special Note:** Line Termination: When using longer runs of cable, one may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4-watt resistor, which connects between pins 2 and 3 of a male XLR connector (DATA + and DATA -). Insert this unit into the female XLR connector of the last unit in one's daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.



A DMX512 terminator reduces signal errors, avoiding most signal reflection interference. Connect PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture in series with a 120 Ohm, 1/4 W Resistor to terminate the DMX512.

**5-Pin XLR DMX Connectors:** Some manufacturers use 5-pin DMX-512 data cables for DATA transmission instead of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables into a 3-pin line, use a cable adaptor, readily available at most electric stores. The chart below details a proper cable conversion.



| 3-Pin XLR to 5-Pin XLR Conversion |       |            |
|-----------------------------------|-------|------------|
| Ground/Shield                     | Pin 1 | Pin 1      |
| Data Compliment (- signal)        | Pin 2 | Pin 2      |
| Data True (+ signal)              | Pin 3 | Pin 3      |
| Not Used                          |       | Do Not Use |
| Not Used                          |       | Do Not Use |

# DMX TRAITS

| CHANNEL |     |     | DMX<br>VALUE | FUNCTION                  |
|---------|-----|-----|--------------|---------------------------|
| 1CH     | 3CH | 4CH |              |                           |
|         | 1   | 1   |              | <b>Strobe</b>             |
|         |     |     | 0-31         | LED off                   |
|         |     |     | 32-63        | LED on                    |
|         |     |     | 64-95        | Strobe Slow > Fast        |
|         |     |     | 96-127       | LED on                    |
|         |     |     | 128-159      | Strobe Pulse Slow > Fast  |
|         |     |     | 160-191      | LED on                    |
|         |     |     | 192-223      | Random Strobe Slow > Fast |
|         |     |     | 224-255      | LED on                    |
| 1       | 2   | 2   | 0-255        | <b>Dimmer</b>             |
|         |     | 3   | 0-255        | <b>Dimmer Fine</b>        |
|         | 3   | 4   |              | <b>Dim Curves</b>         |
|         |     |     | 0-20         | Standard                  |
|         |     |     | 21-40        | Stage                     |
|         |     |     | 41-60        | TV                        |
|         |     |     | 61-80        | Architectural             |
|         |     |     | 81-100       | Theatre                   |
|         |     |     | 101-120      | Stage 2                   |
|         |     |     | 121-255      | Default to Unit Setting   |

# REMOTE DEVICE MANAGEMENT (RDM)

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

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, allowing the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is not easily accessible.

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

## FIXTURE RDM INFORMATION:

| RDM Code | Device ID | Device Model ID | Personality ID |
|----------|-----------|-----------------|----------------|
| 1900     | 0000-FFFF | 96DE            | 1CH, 3CH, 4CH  |

**Please be aware that not all RDM devices support all RDM features**, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

The following parameters are accessible in RDM on this device:

| Parameter ID           | Code    |
|------------------------|---------|
| DISC_UNIQUE_BRANCH     | 0x0001  |
| DISC_MUTE              | 0x0002  |
| DISC_UN_MUTE           | 0x0003  |
| SUPPORTED_PARAMATERS   | 0X0050  |
| DEVICE_INFO            | 0x0060  |
| MANUFACTURER_LABEL     | 0x0081  |
| DEVICE_LABEL           | 0x0082  |
| SOFTWARE_VERSION_LABEL | 0x00C0  |
| DMX_PERSONALITY        | 0x00E0  |
| DMX_START_ADDRESS      | 0x00F0  |
| SENSOR_VALUE           | 0x0201c |
| CURVE_DESCRIPTION      | 0x0344  |
| IDENTIFY_DEVICE        | 0X1000  |
| DMX_FAIL_MODE          | 0x0141  |

# MAINTENANCE GUIDELINES

## DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

### FUZE REPLACEMENT

Locate and remove the unit's power cord. Once the cord has been removed, locate the fuse holder inside the power socket. Insert a flat-head screw driver into the power socket, and gently pry out the fuse holder. Remove the bad fuse, and replace with a new one. The fuse holder has a built-in socket for a spare fuse be sure not to confuse the spare fuse with active fuse.

### CLEANING

Frequent cleaning is recommended to ensure 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 periodically with a soft cloth to avoid dirt/debris accumulation.

**NEVER** use alcohol, solvents, or ammonia-based cleaners.

### MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life.

There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized ADJ service technician. Should you need any spare parts, please order genuine parts from your local ADJ dealer.

Please refer to the following points during routine inspections:

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

# SPECIFICATIONS

## Optical:

- 100 Watt, 5700k Cool White C.O.B. LED (Chip On Board)
- Life expectancy: rated at 50,000 hrs.
- Manual Zoom: 9°, 15°, 20°, 25° or 30°
- Zoom Ratio: 3.3:1

## Photometrics:

- 5023 Lux (Zoomed In to 9° @ 5 meters)
- 783 Lux (Zoomed Out to 25° @ 5 meters)
- CRI: >90

## Connection:

- DMX: 5-pin DMX In/Out
- With Wired Digital Communication Network
- Locking power In/Out connections

## Control:

- DMX-512
- 3 DMX control modes: (1, 3, & 4 Ch. modes)
- RDM and RDM Net Compatible
- Primary/Secondary, stand-alone mode
- On-board manual control mode

## Features:

- 4-button DMX menu display on rear panel
- OLED display
- Adjustable latch to manually change beam angle
- Includes gel frame for diffusion filters (Diffusion filter sold separately)
- Strobe Rate: 0.6Hz to 7.5Hz
- Refresh Rate: 1.2KHz
- Electronic Dimming: 0 - 100%
- 6 Dim Modes

## Electrical:

- Power Draw Total (@ Full On): 115W
- Power Consumption: 0.964A @ 120V/60Hz ; 0.5A @ 220V/50Hz
- Multi-voltage operation: AC 100-240V, 50/60Hz
- Daisy chain: 12 fixtures @ 120V; 22 fixtures @ 230V
- Fuse protected: 3A/250V

## Ambient Temperature Range (For Use):

- -4° ~ 113°F (-20°C ~ 45°C)

## Storage Temperature Range:

- -22° ~ 113°F (-30°C ~ 45°C)

## Dimensions / Weight:

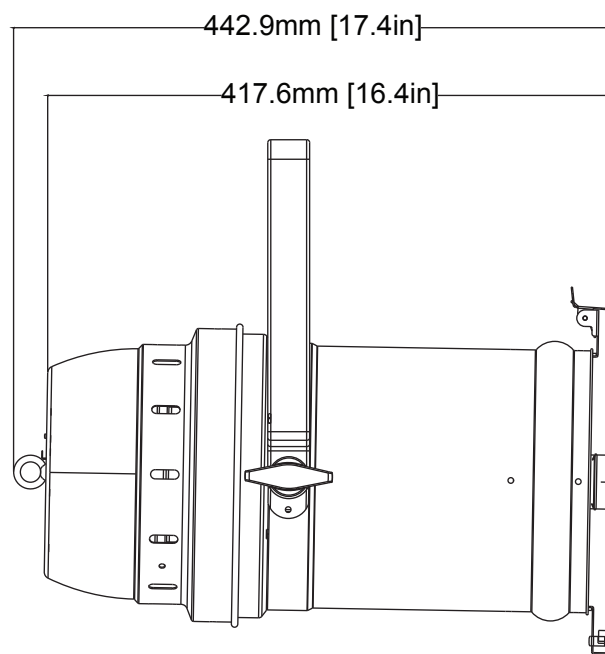
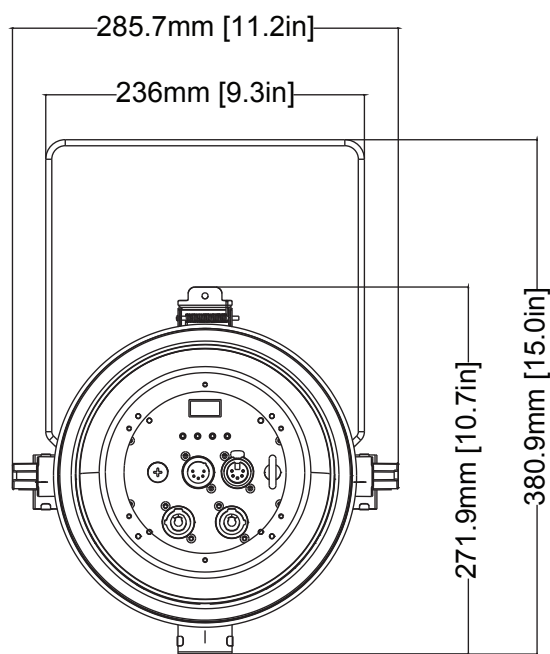
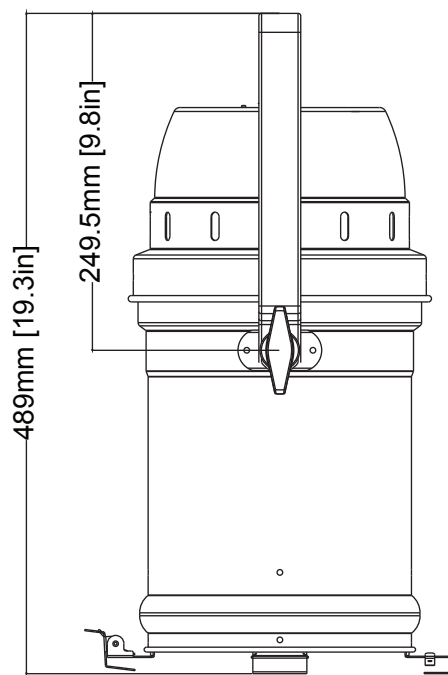
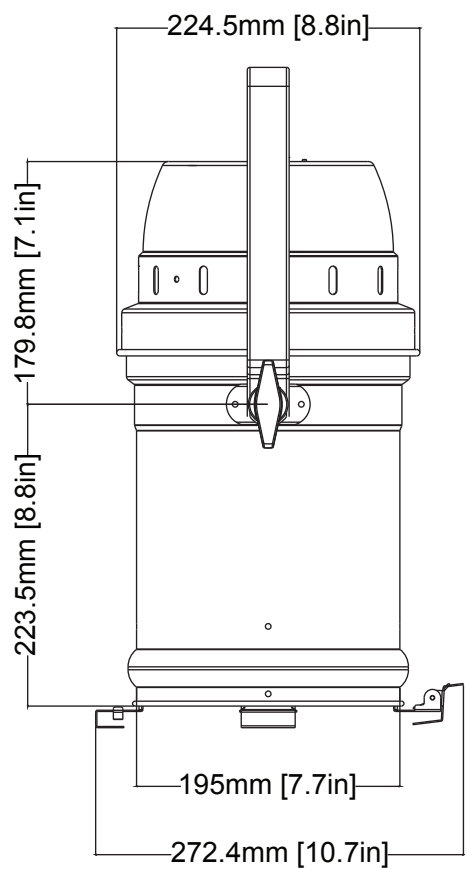
- Dimensions (LxWxH): 10.7" x 11.2" x 19.3" / 272.4mm x 285.7mm x 489mm
- Weight: 8.2lbs. / 3.7kg.

## IP Rating / Approvals:

- IP20, CE & FCC, & ETL Approved (4002034)

# DIMENSION DRAWINGS

Drawings not to scale



## OPTIONAL ACCESSORIES

| ORDER CODE    |     | ITEM                                    |
|---------------|-----|-----------------------------------------|
| US            | EU  |                                         |
| PAR568        | N/A | PAR Z100 5K2                            |
| TRIGGER CLAMP | N/A | Heavy Duty Wrap Around Hook Style Clamp |
| AC5PDMX5PRO   | N/A | 5 ft. (1.5m) 5pin PRO DMX Cable         |
|               |     | Additional Cable Lengths Available      |



### FCC STATEMENT

Please note that changes or modifications of this product is not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### 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!

