



PAR ZI50 RGBA

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 enviroment. 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 <u>www.adj.com</u> for the latest revision/update of this manual before beginning installation and/or programming.

| Date | Document Version | Software Version | DMX Channels | Notes |
|------------|---------------------|---------------------|-----------------------------|-----------------|
| 03/21/2024 | 1.0 | 1.01 | 4/5/6/7/8/9/10/ 11/12 Ch | Initial release |
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INTRODUCTION

Unpacking: Thank you for purchasing the Par Z150 RGBA by ADJ Products, LLC. 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 appears to have been damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit have arrived intact. In the event that damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

Introduction: A modern twist on the classic halogen Par Can, the Par Z150 RGBA combines a potent 150-Watt C.O.B. LED light source with a traditional Par 64 enclosure. Offering a choice of beam angles and full color mixing, including white light with a color temperature of between 2300K and 9900K, it is ideal for washing both stages and dancefloors of all shapes and sizes. **This product is intended to be used by professionally trained personnel only and is not suitable for private use.**

Customer Support: Contact ADJ Service for any product related service and support needs. Also visit forums.adj.com with questions, comments or suggestions.

Parts: To purchase parts online visit: http://parts.adj.com (US) http://www.adjparts.eu (EU)

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For software updates, please contact ADJ service!

Warning! This unit is intended for indoor use only! Do not expose to rain or moisture!

CAUTION! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, as doing so will void your manufacturer's warranty. In the unlikely event your unit may require service, please contact ADJ Products, LLC.

Do not discard the shipping cartoon in the trash. Please recycle when ever possible.

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 the product back—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 prepaid. 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 and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall incur no liability whatsoever for loss of 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 ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because it was 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 maintenance, cleaning, or periodic checkup. 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 warranty 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 all warranties, whether expressed or implied, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And all warranties, whether expressed or implied, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. 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 Product, LLC be liable for any loss and/or damage, direct and/or consequential arising out of the use of, and/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.

MANUFACTURER'S LIMITED WARRANTY PERIODS:

- Non-LED Lighting Products = 1-Year (365 Days) (Including Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands, Power/Data Distribution, etc. excluding LED and lamps)
- Laser Products = 1-Year (365 Days) (excluding laser diodes which have a 6-Month Limited Warranty)
- LED Products = 2-Year (730 Days) (excluding batteries which have a 180 Day Limited Warranty)
- NOTE: 2-Year (730 Days) Limited Warranty ONLY applies to product purchased within the United States. StarTec Series = 1-Year (365 Days) (excluding batteries which have a 180 Day Limited Warranty)
- ADJ DMX Controllers = 2 Year (730 Days)
- American Audio Products = 1 Year (365 Days)

WARRANTY REGISTRATION

Please fill out the enclosed warranty card to validate your purchase. All returned service items, whether under warranty or not, must be freight pre-paid and accompanied by 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 included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain an R.A. number by contacting our customer support team. All packages returned to the service department not displaying an R.A. number on the outside of the package will be returned to the shipper.

FEATURES

- 150 Watt COB LED source
- Par 64 enclosure
- Choice of beam angles
- Full color mixing
- White light with color temperature range of 2300K to 9900K

INCLUDED ITEMS

- Gel Frame (x1)
- Power Cable (x1)

SAFETY PRECAUTIONS



PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.



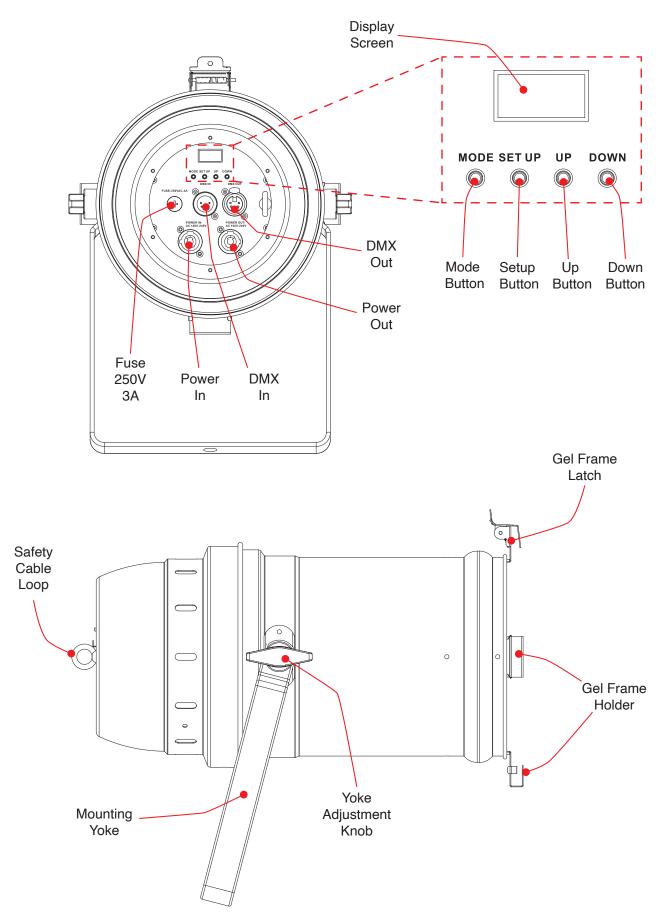
THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY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



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

- Ambient operating temperature is -4°F to 113°F (-20°C to 45°C)!
- DO NOT TOUCH the fixture housing during operation. Disconnect the power and allow approximately 15 minutes for the fixture to cool down before servicing.
- DO NOT shake the fixture, and avoid brute force when installing and/or operating the fixture.
- DO NOT operate the fixture if the power cord has become frayed, crimped and/or damaged. If the power cord is damaged, replace immediately with a new one of the same power rating.
- DO NOT attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- DO NOT attempt to operate this unit if it has been damaged in any way.
- Disconnect from main power before making any type of connection.
- 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.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- This device is intended for indoor use only! Outdoors usage voids all manufacturer's warranties.
- DO NOT remove the cover for any reason.
- When installing fixture in a suspended enviroment, always use mounting hardware that is no less than M10 x 25mm, and always install fixture with an appropriately rated safety cable.
- Never plug this unit in to a dimmer pack.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point where they exit from the unit.
- Cleaning The fixture should be cleaned only as recommended by the manufacturer.
- Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
 - The fixture should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug have been damaged.
 - B. Objects have fallen onto, or liquids have been spilled into, the fixture.
 - C. The fixture does not appear to operate normally or exhibits a marked change in performance.
 - D. The fixture has fallen and/or has been subjected to extreme handling.

OVERVIEW



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.

When installing the unit, the trussing or area of installation must be able to hold 10 times the weight of the unit and any attached accessories without any deformation. The unit must be secured with a secondary safety attachment, e.g. an appropriately-rated safety cable.

Before rigging/mounting a single fixture 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.

Ambient operating temperature is range *-4°F to 113°F (-20°C to 45°C)*. Do not operate this device when ambient temperature falls outside of this range.

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

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

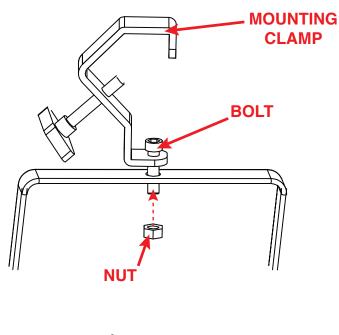
Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable that can hold 10 times the weight of the fixture.

Overhead mounting requires extensive experience, including calculating working load limits, knowledge of installation material being used, and perodic safety inspection of all installation material as well as the unit itself. If you lack these qualifications, do not attempt the installation yourself.

The installation should be checked by a skilled person once a year.

CLAMP MOUNTING

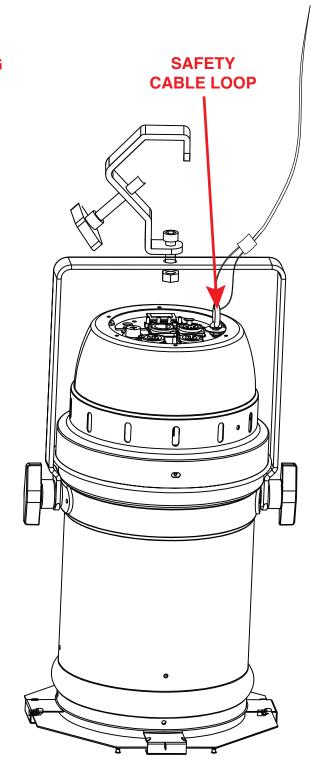
This fixture features mounting holes on the top of the yoke for the attachment of mounting clamps. When mounting the fixture to a truss or any other suspended structure, be sure to use a clamp that is rated to support the weight of the fixture and any associated accessories. Insert a bolt of appropriate size through the bottom of the mounting clamp and the central hole on the mounting bracket, and secure them together with a matching nut. Additionally, a safety cable of the appropriate weight rating should be secured to the provided attachment point on the rear panel. Please refer to the illustration below.





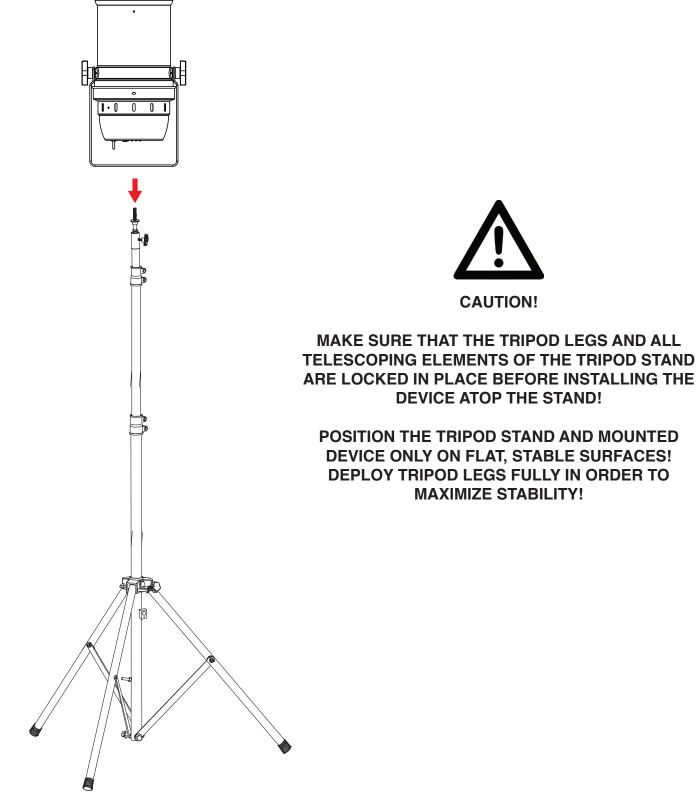
SAFETY CABLE:

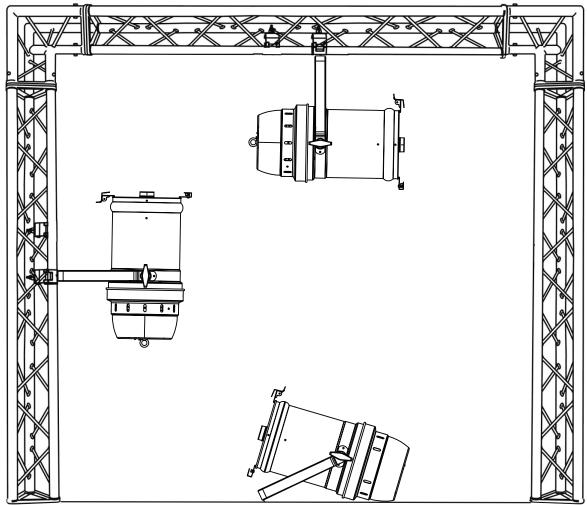
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.



STAND MOUNTING

This unit can also be installed atop a tripod stand. Simply secure the Omega bracket to the bottom face of the device, then insert the threaded bolt on the top of the tripod stand through the hole in the Omega bracket. Tighten the nut onto the threaded bolt to secure the mounted device in place.





The unit is fully operational in three different mounting positions: hanging upside-down from the ceiling or trussing, sideways on trussing, or set on a flat level surface. Be sure this fixture is kept at least 12m (40ft) away from any flammable materials (decorations, etc). Always use and install a safety cable (not included) as a safety measure to prevent accidental damage and/or injury in the event the clamp fails. Never use the carrying handles for secondary attachment.



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 THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.



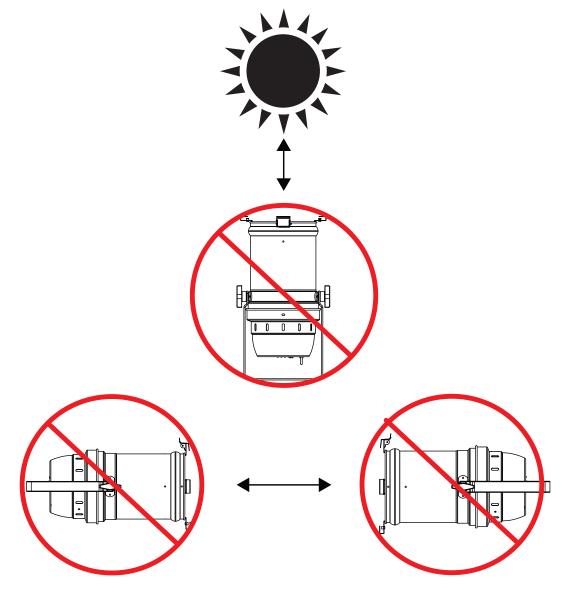
NEVER INSTALL THIS FIXTURE WITH THE GEL FRAME LATCH ORIENTED DOWN-WARDS. DOING SO PREVENTS INSTALLED ACCESSORIES FROM FALLING IN THE EVENT THAT THE LATCH FAILS.

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 ADJ 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 ADJ 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 ADJ Service for more details.

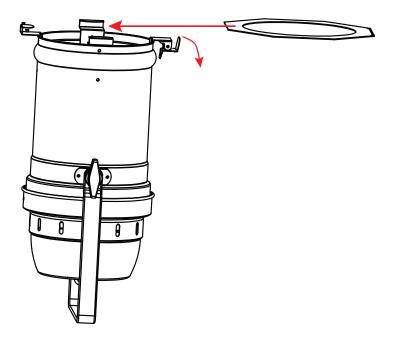
DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING MOVING HEAD FIXTURES, AND LASERS WHILE UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.

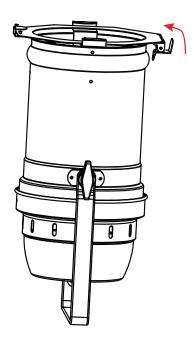


ACCESSORY INSTALLATION

GEL FRAME

A removable gel frame is included with this fixture. To install the gel frame, simply open the gel frame latch located at the top of the fixture's lens frame, slide the gel frame into the gel frame slot, and secure in place by flipping the latch back down into the closed position. Please refer to the illustrations below.





REMOTE DEVICE MANAGEMENT (RDM)

NOTE: In order 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 |
|----------|-----------|-----------------|--|
| 0x1900 | 0000-FFFF | | 4Ch (1); 5Ch (2); 6Ch (3); 7Ch (4); 8Ch (5); 9Ch (6); 10Ch (7); 11Ch (8); 12Ch (9) |

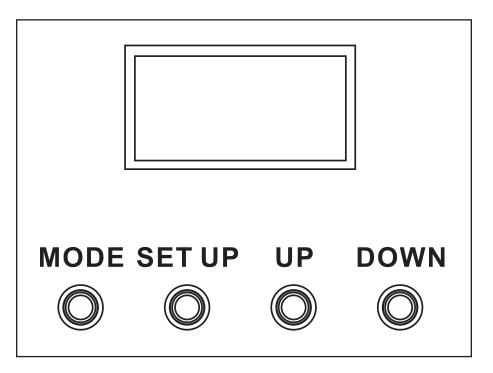
Please be aware that not all RDM devices support all RDM features, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

| [0x0001] Disc Unique Branch [0x0002] Disc Mute |
|---|
| [0x0002] Disc Mute |
| |
| [0x0003] Disc Un Mute |
| [0x0050] Supported Parameters |
| [0x0060] Device Info |
| [0x0081] Manufacturer Label |
| [0x0082] Device Label |
| [0x00C0] Software Version Label |
| [0x00E0] DMX Personality |
| [0x00F0] DMX Start Address |
| [0x0201c] Sensor Value |
| [0x0343] Curve |
| [0x0344] Curve Description |
| [0x1000] Identify Device |
| [0x0141] DMX Fail Mode |

CONTROL PANEL

This unit features a display screen with a 4-button control pad, which can be used to easily adjust any device settings.

Pressing the MODE button will cycle through the various Main Menu options. When the desired Main Menu option is displayed on the screen, press the SETUP button to enter the sub-menu, then use the UP AND DOWN buttons to navigate through sub-menu options. In some cases, there will be a second sub-menu that can be navigated in the same way.



SCREEN LOCK

The control panel and display screen can be configured to lock after a defined period of inactivity. This feature is switched off by default, but can be enabled and configured by navigating to Personality > Display > Screen Lock in the system menu. To unlock the screen, press and hold the mode button for 3 seconds.

SYSTEM MENU

| MAIN MENU | | OPTIONS / VALUES | DESCRIPTION | |
|-----------------|----------------------|-------------------------|---|---|
| | DMX Address | 001 - 512 | Select DMX starting ad- dress | |
| | | 4Ch | | |
| | | 5Ch | | |
| | | 6Ch | | |
| | | 7Ch | | |
| | Channel Mode | 8Ch | Select DMX channel mode | |
| | | 9Ch | | |
| | | 10Ch | | |
| | | 11Ch | | |
| | | 12Ch | | |
| DMX SETTINGS | | Black Out | Fixture takes all channels to zero when DMX signal is lost or interrupted | |
| | No DMX Set- tings | Hold | | Fixture holds last settings received when DMX signal is lost or interrupted |
| | | Color Macro | Fixture defaults to currently selected color macro when DMX signal is lost or inter- rupted | |
| | | Color Temp Preset | Fixture defaults to currently seelcted color temperature preset when DMX signal is lost or interrupted | |
| | | Pri / Sec | Fixture defaults to primary/ secondary mode when DM signal is lost or interrupted | |
| | Pri / Sec Mode | Primary / Secondary | Set fixture as a primary or secondary unit | |
| | | Standard | | |
| | | Stage | | |
| | Dimmer Mode | TV | Cot dimmor modo | |
| | Dimmer Mode | Architectural | Set dimmer mode | |
| PERSONALITY | | Theatre | | |
| | | Stage 2 | | |
| | | Square | | |
| | Dimmer Curre | Linear | Cot diamage course | |
| | Dimmer Curve | Inv Squa | Set dimmer curve | |
| | | S Curve | | |

SYSTEM MENU

| MAIN MENU | | OPTIONS / VAL | UES | DESCRIPTION | | |
|-------------|----------------------------|----------------------|--------------------------------------|---|---|--|
| | | Saver Delay | Off, 1 - 10s | ec | Screen saver activates after selected period of inactivity | |
| | Display | Screen Lock | <i>Off</i> - 30sec 2min10m | Control panel and screen lock after selected period of inactivity | | |
| | | Rotate | dISP | | Standard display orientation | |
| | | | dSIP | | Inverted display orientation | |
| PERSONALITY | RDM | On / Off | | | Enable or disable RDM function | |
| (continued) | Temperature Unit | °C / °F | | | Select temperature units. F is default in US markets, C is default in EU markets. | |
| | | Red | 125 - 255 | | Configure white balance. | |
| | | Green | 125 - 255 | | Please note that white bal- | |
| | White Balance | Blue | 125 - 255 | | ance values do NOT reset when Factory Restore is performed. | |
| | | Amber | 125 - 255 | | | |
| | Service | Passcode = 011 | Factory Restore | Yes / No | Return fixture to factory default settings | |
| | Red | 000 - 255 | | | | |
| | Green | 000 - 255 | | | | |
| | Blue | 000 - 255 | | | | |
| | Amber | 000 - 255 | | |] | |
| MANUAL | Color Macros | 00 - 64 | | | Configure each parameter | |
| CONTROL | Color Temp Linear | 000 - 255 | | | manually | |
| | Color Temp Presets | 00 - 77 | | | | |
| | Strobe | 000 - 255 | | |] | |
| | Dimmer | 000 - 255 | | | | |
| | Fixture Life Time Hours | ххххх | | | Total fixture lifetime run hours | |
| INFORMATION | LED Usage Time | ххххх | | | Total hours that fixture LEDs have been powered on | |
| | RDM PID | XXXXX | | | Displays RDM PID | |
| | Firmware Version | Vx.x | | | Displays current software version | |

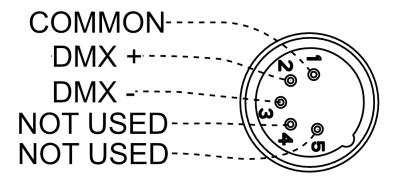
DMX SET UP

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used 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 located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufacturers to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, try to use the shortest cable path possible when linking several DMX fixtures. 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. 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 located in the DMX chain.

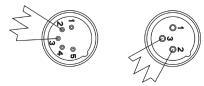
Data Cable (DMX Cable) Requirements (For DMX Operation): This unit can be controlled via DMX-512 protocol. The DMX address is set on the rear panel of the unit. Your unit and your DMX controller require a standard 5-pin XLR connector for data input and data output. We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male XLR connector at one end and a female XLR connector at the other. Also remember that DMX cable must be daisy chained and cannot be split.

Notice: Be sure to follow fthe illustration below when making your 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 come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.



DMX SET UP

Special Note: Line Termination. When longer runs of cable are used, you 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 is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will reduce the risk 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.

DMX ADDRESSING.

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to "listen" to the digital control signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture. Setting all fixtures to the same DMX address will cause all fixtures to react in the same way. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to "listen" to the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

For example, when this unit is operating in 4 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 5 (1 + 4), the third unit to 9 (1 + 4 + 4), and so on. See the chart below for more details.

| CHANNEL MODE | UNIT 1 ADDRESS | UNIT 2 ADDRESS | UNIT 3 ADDRESS | UNIT 4 ADDRESS |
|--------------|----------------|----------------|----------------|----------------|
| 4Ch | 1 | 5 | 9 | 13 |
| 5Ch | 1 | 6 | 11 | 16 |
| 6Ch | 1 | 7 | 13 | 19 |
| 7Ch | 1 | 8 | 15 | 22 |
| 8Ch | 1 | 9 | 17 | 25 |
| 9Ch | 1 | 10 | 19 | 28 |
| 10Ch | 1 | 11 | 21 | 31 |
| 11Ch | 1 | 12 | 23 | 34 |
| 12Ch | 1 | 13 | 25 | 37 |

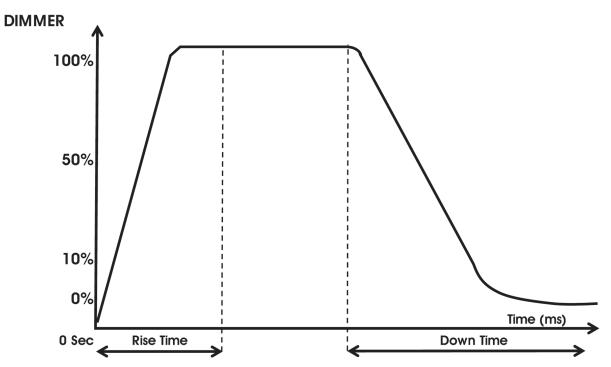
| | CHANNEL DI | | | | | | DMX | FUNCTION | | |
|-----|------------|-----|-----|-----|-----|------|------|----------|---------|--|
| 4Ch | 5Ch | 6Ch | 7Ch | 8Ch | 9Ch | 10Ch | 11Ch | 12Ch | VALUES | FUNCTION |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 - 255 | Red |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 - 255 | Green |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 - 255 | Blue |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 - 255 | Amber |
| | | | | 5 | 5 | 5 | 5 | 5 | 0 - 255 | <i>Color Macros,</i> refer to Color Macros Table sec- tion |
| | | | | | 6 | 6 | 6 | 6 | 0 - 255 | <i>Color Temperature Lin- ear,</i> 2300K - 9900K |
| | | | | | | | | | | Color Temperature Pre- sets |
| | | | | | | | | | 0 - 22 | Open |
| | | | | | | | | | 23 | 2300K |
| | | | | | | | | | 24 | 2400K |
| | | | | | | | | | 25 | 2500K |
| | | | | | | | | | 26 | 2600K |
| | | | | | | | | | 27 | 2700K |
| | | | | | | | | | 28 | 2800K |
| | | | | | | | | | 29 | 2900K |
| | | | | | | | | | 30 | 3000K |
| | | | | | | | | | 31 | 3100K |
| | | | | | | | | | 32 | 3200K |
| | | | | | | - | | 7 | 33 | 3300K |
| | | | | | | 7 | 7 | 7 | 34 | 3400K |
| | | | | | | | | | 35 | 3500K |
| | | | | | | | | | 36 | 3600K |
| | | | | | | | | | 37 | 3700K |
| | | | | | | | | | 38 | 3800K |
| | | | | | | | | | 39 | 3900K |
| | | | | | | | | | 40 | 4000K |
| | | | | | | | | | 41 | 4100K |
| | | | | | | | | | 42 | 4200K |
| | | | | | | | | | 43 | 4300K |
| | | | | | | | | | 44 | 4400K |
| | | | | | | | | | 45 | 4500K |
| | | | | | | | | | 46 | 4600K |
| | | | | | | | | | 47 | 4700K |
| | | | | | | | | | | |

| | CHANNEL | | | | | DMX | FUNCTION | | | |
|-----|---------|-----|-----|-----|-----|------|----------|------|--------|--|
| 4Ch | 5Ch | 6Ch | 7Ch | 8Ch | 9Ch | 10Ch | 11Ch | 12Ch | VALUES | FUNCTION |
| | | | | | | | | | | Color Temperature Pre- sets (continued) |
| | | | | | | | | | 48 | 4800K |
| | | | | | | | | | 49 | 4900K |
| | | | | | | | | | 50 | 5000K |
| | | | | | | | | | 51 | 5100K |
| | | | | | | | | | 52 | 5200K |
| | | | | | | | | | 53 | 5300K |
| | | | | | | | | | 54 | 5400K |
| | | | | | | | | | 55 | 5500K |
| | | | | | | | | | 56 | 5600K |
| | | | | | | | | | 57 | 5700K |
| | | | | | | | | | 58 | 5800K |
| | | | | | | | | | 59 | 5900K |
| | | | | | | | | | 60 | 6000K |
| | | | | | | | | | 61 | 6100K |
| | | | | | | | | | 62 | 6200K |
| | | | | | | | | | 63 | 6300K |
| | | | | | | 7 | 7 | 7 | 64 | 6400K |
| | | | | | | | | | 65 | 6500K |
| | | | | | | | | | 66 | 6600K |
| | | | | | | | | | 67 | 6700K |
| | | | | | | | | | 68 | 6800K |
| | | | | | | | | | 69 | 6900K |
| | | | | | | | | | 70 | 7000K |
| | | | | | | | | | 71 | 7100K |
| | | | | | | | | | 72 | 7200K |
| | | | | | | | | | 73 | 7300K |
| | | | | | | | | | 74 | 7400K |
| | | | | | | | | | 75 | 7500K |
| | | | | | | | | | 76 | 7600K |
| | | | | | | | | | 77 | 7700K |
| | | | | | | | | | 78 | 7800K |
| | | | | | | | | | 79 | 7900K |
| | | | | | | | | | 80 | 8000K |
| | | | | | | | | | 81 | 8100K |
| | | | | | | | | | 82 | 8200K |
| | | | | | | | | | | |

| | CHANNEL | | | | | | | DMX | FUNCTION | | | | |
|-----|---------|-----|-----|-----|-----|------|------|------|-----------|----------------------------|--|----|-------|
| 4Ch | 5Ch | 6Ch | 7Ch | 8Ch | 9Ch | 10Ch | 11Ch | 12Ch | VALUES | FUNCTION | | | |
| | | | | | | | | | | Color Temperature Pre- | | | |
| | | | | | | | | | | sets (continued) | | | |
| | | | | | | | | | 83 | 8300K | | | |
| | | | | | | | | | 84 | 8400K | | | |
| | | | | | | | | | 85 | 8500K | | | |
| | | | | | | | | | | | | 86 | 8600K |
| | | | | | | | | | 87 | 8700K | | | |
| | | | | | | | | | 88 | 8800K | | | |
| | | | | | | | | | 89 | 8900K | | | |
| | | | | | | 7 | 7 | 7 | 90 | 9000K | | | |
| | | | | | | | - | - | 91 | 9100K | | | |
| | | | | | | | | | 92 | 9200K | | | |
| | | | | | | | | | 93 | 9300K | | | |
| | | | | | | | | | 94 | 9400K | | | |
| | | | | | | | | | 95 | 9500K | | | |
| | | | | | | | | | | | | | 96 |
| | | | | | | | | | 97 | 9700K | | | |
| | | | | | | | | | 98 | 9800K | | | |
| | | | | | | | | | 99 | 9900K | | | |
| | | | | | | | | | 100 - 255 | No Function | | | |
| | | | | | | | | | | Strobe | | | |
| | | | | | | | | | 0 - 31 | LED Off | | | |
| | | | | | | | | | 32 - 63 | LED On | | | |
| | | | | | | | | | 64 - 95 | Strobe, slow > fast | | | |
| | | | 5 | 6 | 7 | 8 | 8 | 8 | 96 - 127 | LED On | | | |
| | | | 5 | 0 | | 0 | 0 | 0 | 128 - 159 | Pulse Strobe, slow > fast | | | |
| | | | | | | | | | 160 - 191 | LED On | | | |
| | | | | | | | | | 192 - 223 | Random Strobe, slow > fast | | | |
| | | | | | | | | | 224 - 255 | LED On | | | |
| | 5 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 0 - 255 | Dimmer | | | |
| | | 6 | 7 | 8 | 9 | 10 | 10 | 10 | 0 - 255 | Dimmer Fine | | | |
| | | | | | | | | | | | | | |

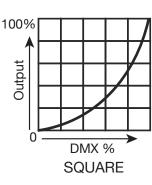
| | | | С | HANN | IEL | | | | DMX | FUNCTION |
|-----|-----|-----|-----|------|-----|------|------|------|-----------|-------------------------|
| 4Ch | 5Ch | 6Ch | 7Ch | 8Ch | 9Ch | 10Ch | 11Ch | 12Ch | VALUES | FUNCTION |
| | | | | | | | | | | Dim Modes |
| | | | | | | | | | 0 - 20 | Standard |
| | | | | | | | | | 21 - 40 | Stage |
| | | | | | | | | 11 | 41 - 60 | TV |
| | | | | | | | | 11 | 61 - 80 | Architectural |
| | | | | | | | | | 81 - 100 | Theatre |
| | | | | | | | | | 101 - 120 | Stage 2 |
| | | | | | | | | | 121 - 255 | Default to Unit Setting |
| | | | | | | | | | | Dim Curves |
| | | | | | | | | | 0 - 20 | Square |
| | | | | | | | 11 | 12 | 21 - 40 | Linear |
| | | | | | | | | | 41 - 60 | Inv Squa |
| | | | | | | | | | 61 - 80 | S Curve |
| | | | | | | | | | 81 - 255 | No Function |

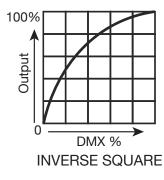
DIM MODES AND CURVES

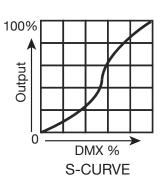


| | 0 sec Fc | ide Time | 1 sec Fc | ıde Time |
|------------------------------|----------------|----------------|----------------|----------------|
| Dimming Curve Ramp Effect | 0 | 255 | 0 | 255 |
| | Rise Time (ms) | Down Time (ms) | Rise Time (ms) | Down Time (ms) |
| Standard (default) | 0 | 0 | 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 |

100% thought of the second sec







COLOR MACROS TABLE

| MACRO NO. | DMX VALUES | RED | GREEN | BLUE | AMBER |
|-----------|------------|-----|-------|------|-------|
| Off | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 - 4 | 80 | 255 | 234 | 80 |
| 2 | 5 - 8 | 80 | 255 | 164 | 80 |
| 3 | 9 - 12 | 77 | 255 | 112 | 77 |
| 4 | 13 - 16 | 117 | 255 | 83 | 83 |
| 5 | 17 - 20 | 160 | 255 | 77 | 77 |
| 6 | 21 - 24 | 223 | 255 | 83 | 83 |
| 7 | 25 - 28 | 255 | 243 | 77 | 77 |
| 8 | 29 - 32 | 255 | 200 | 74 | 74 |
| 9 | 33 - 36 | 255 | 166 | 77 | 77 |
| 10 | 37 - 40 | 255 | 125 | 74 | 74 |
| 11 | 41 - 44 | 255 | 97 | 77 | 74 |
| 12 | 45 - 48 | 255 | 71 | 77 | 71 |
| 13 | 49 - 52 | 255 | 83 | 134 | 83 |
| 14 | 53 - 56 | 255 | 93 | 182 | 93 |
| 15 | 57 - 60 | 255 | 96 | 236 | 96 |
| 16 | 61 - 64 | 238 | 93 | 255 | 93 |
| 17 | 65 - 68 | 196 | 87 | 255 | 87 |
| 18 | 69 - 72 | 150 | 90 | 255 | 90 |
| 19 | 73 - 76 | 100 | 77 | 255 | 77 |
| 20 | 77 - 80 | 77 | 100 | 255 | 77 |
| 21 | 81 - 84 | 67 | 148 | 255 | 67 |
| 22 | 85 - 88 | 77 | 195 | 255 | 77 |
| 23 | 89 - 92 | 77 | 234 | 255 | 77 |
| 24 | 93 - 96 | 158 | 255 | 144 | 144 |
| 25 | 97 - 100 | 255 | 251 | 153 | 153 |
| 26 | 101 - 104 | 255 | 175 | 147 | 147 |
| 27 | 105 - 108 | 255 | 138 | 186 | 138 |
| 28 | 109 - 112 | 255 | 147 | 251 | 147 |
| 29 | 113 - 116 | 151 | 138 | 255 | 138 |
| 30 | 117 - 120 | 99 | 0 | 255 | 100 |
| 31 | 121 - 124 | 138 | 169 | 255 | 138 |
| 32 | 125 - 128 | 255 | 255 | 255 | 255 |
| 33 | 129 - 132 | 255 | 206 | 143 | 0 |
| 34 | 133 - 136 | 254 | 177 | 153 | 0 |
| 35 | 137 - 140 | 254 | 192 | 138 | 0 |
| 36 | 141 - 144 | 254 | 165 | 98 | 0 |
| 37 | 145 - 148 | 254 | 121 | 0 | 0 |
| 38 | 149 - 152 | 176 | 17 | 0 | 0 |

COLOR MACROS TABLE

| MACRO NO. | DMX VALUES | RED | GREEN | BLUE | AMBER |
|-----------|------------|-----|-------|------|-------|
| 39 | 153 - 156 | 96 | 0 | 11 | 0 |
| 40 | 157 - 160 | 234 | 139 | 171 | 0 |
| 41 | 161 - 164 | 224 | 5 | 97 | 0 |
| 42 | 165 - 168 | 175 | 77 | 173 | 0 |
| 43 | 169 - 172 | 119 | 130 | 199 | 0 |
| 44 | 173 - 176 | 147 | 164 | 212 | 0 |
| 45 | 177 - 180 | 88 | 2 | 163 | 0 |
| 46 | 181 - 184 | 0 | 38 | 86 | 0 |
| 47 | 185 - 188 | 0 | 142 | 208 | 0 |
| 48 | 189 - 192 | 52 | 148 | 209 | 0 |
| 49 | 193 - 196 | 1 | 134 | 201 | 0 |
| 50 | 197 - 200 | 0 | 145 | 212 | 0 |
| 51 | 201 - 204 | 0 | 121 | 192 | 0 |
| 52 | 205 - 208 | 0 | 129 | 184 | 0 |
| 53 | 209 - 212 | 0 | 83 | 115 | 0 |
| 54 | 213 - 216 | 0 | 94 | 166 | 0 |
| 55 | 217 - 220 | 1 | 100 | 167 | 0 |
| 56 | 221 - 224 | 0 | 40 | 86 | 0 |
| 57 | 225 - 228 | 209 | 219 | 182 | 0 |
| 58 | 229 - 232 | 42 | 165 | 85 | 0 |
| 59 | 233 - 236 | 0 | 46 | 35 | 0 |
| 60 | 237 - 240 | 8 | 107 | 222 | 0 |
| 61 | 241 - 244 | 255 | 0 | 0 | 0 |
| 62 | 245 - 248 | 0 | 255 | 0 | 0 |
| 63 | 249 - 252 | 0 | 0 | 255 | 0 |
| 64 | 253 - 255 | 0 | 0 | 0 | 255 |

COLOR TEMPERATURE TABLE

| DMX VALUE | COLOR TEMPERATURE (K) |
|-----------|-----------------------|
| 23 | 2300 |
| 24 | 2400 |
| 25 | 2500 |
| 26 | 2600 |
| 27 | 2700 |
| 28 | 2800 |
| 29 | 2900 |
| 30 | 3000 |
| 31 | 3100 |
| 32 | 3200 |
| 33 | 3300 |
| 34 | 3400 |
| 35 | 3500 |
| 36 | 3600 |
| 37 | 3700 |
| 38 | 3800 |
| 39 | 3900 |
| 40 | 4000 |
| 41 | 4100 |
| 42 | 4200 |
| 43 | 4300 |
| 44 | 4400 |
| 45 | 4500 |
| 46 | 4600 |
| 47 | 4700 |
| 48 | 4800 |
| 49 | 4900 |
| 50 | 5000 |
| 51 | 5100 |
| 52 | 5200 |
| 53 | 5300 |
| 54 | 5400 |
| 55 | 5500 |
| 56 | 5600 |
| 57 | 5700 |
| 58 | 5800 |
| 59 | 5900 |
| 60 | 6000 |
| 61 | 6100 |

| DMX VALUE | COLOR TEMPERATURE (K) |
|-----------|-----------------------|
| 62 | 6200 |
| 63 | 6300 |
| 64 | 6400 |
| 65 | 6500 |
| 66 | 6600 |
| 67 | 6700 |
| 68 | 6800 |
| 69 | 6900 |
| 70 | 7000 |
| 71 | 7100 |
| 72 | 7200 |
| 73 | 7300 |
| 74 | 7400 |
| 75 | 7500 |
| 76 | 7600 |
| 77 | 7700 |
| 78 | 7800 |
| 79 | 7900 |
| 80 | 8000 |
| 81 | 8100 |
| 82 | 8200 |
| 83 | 8300 |
| 84 | 8400 |
| 85 | 8500 |
| 86 | 8600 |
| 87 | 8700 |
| 88 | 8800 |
| 89 | 8900 |
| 90 | 9000 |
| 91 | 9100 |
| 92 | 9200 |
| 93 | 9300 |
| 94 | 9400 |
| 95 | 9500 |
| 96 | 9600 |
| 97 | 9700 |
| 98 | 9800 |
| 99 | 9900 |

PRIMARY-SECONDARY SET UP

This function allows you to link units together to run in a Primary-Secondary set-up, in which one unit will act as the controlling unit and the others will react to the controlling unit's built-in programs. Any unit can be configured to act as a Primary or as a Secondary, but only one unit in a given system can be programmed to act as the Primary.

Primary-Secondary Connections and Settings:

- Daisy chain your units via the XLR connectors on the rear panels of each unit. Use standard XLR data cables to link your units together. Remember that the male XLR connector is the input and the female XLR connector is the ouput. The first unit in the chain (primary) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.
- Use the display screen and control panel to navigate to Personality > Prim/Sec Mode. Select this sub-menu using the SET UP button, and use the UP and DOWN buttons to toggle between "Primary" and "Secondary". Press SET UP to confirm your selection.
- 3. Repeat Step 2 for each unit in the system. Make sure that only one unit is designated as the Primary, while all other units are designated as Secondaries.
- 4. The secondary units will now follow the behavior of the primary unit.

NOTES:

- Only one unit should be configured as the primary, while all the other units should be configured as secondaries.
- All units should be set to the same DMX channel mode.
- If fixtures fail to sync, verify that all settings mentioned above are the same, then power all devices off, then switch them on again to re-establish the link.

MULTI UNIT POWER LINKING

This features allows you to connect the fixtures to one another using the power cable input and output sockets.

The maximum number of units that can be linked in this manner is as follows:

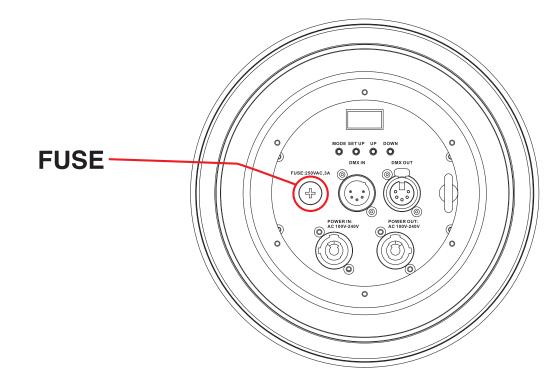
- 9 units @ 110V power
- 17 units @ 220V power

DO NOT EXCEED THIS MAXIMUM NUMBER WHEN POWER LINKING UNITS!

All linked units must be of the same make and model type. Do not mix and match units!

FUSE REPLACEMENT

Disconnect the unit from its power source. Locate the fuse holder, on the rear of the unit beside the DMX ports, as shown in the diagram below. Use a screwdriver to gently remove the fuse, then install a new fuse in its place. *Always use a fuse of the same 250V 3A rating for replacement.*



MAINTENANCE GUIDELINES



DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

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 regularly with a soft cloth to avoid dirt/debris accumulation.

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

MAINTENANCE

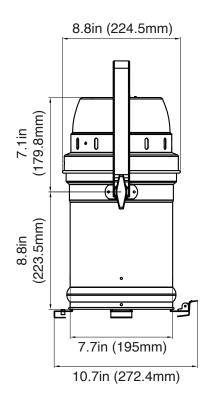
Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized ADJ service technician. Should you need any spare parts, please order genuine parts from your local ADJ dealer.

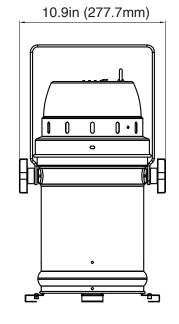
Please refer to the following points during routine inspections:

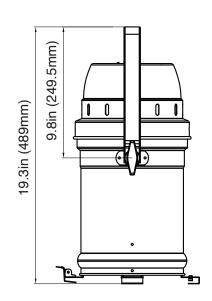
- A. A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- B. Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- C. 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).
- D. Electric power supply cables must not show any damage, material fatigue, or sediments.

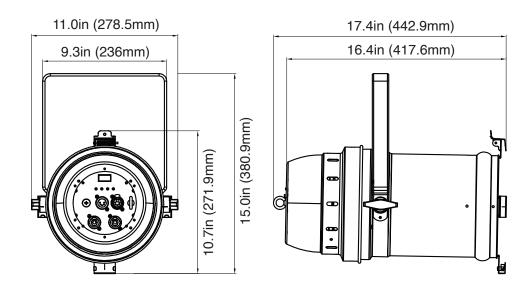
NEVER remove the ground prong from the power cable.

DIMENSIONAL DRAWINGS









SPECIFICATIONS

Optical:

- 150 Watt Quad RGBA C.O.B. LED (Chip On Board Red, Green, Blue & Amber)
- Life expectancy: rated at 50,000 hrs.
- Manual Zoom: 7, 11.5, 16, 20.5 or 25-degrees
- Zoom Ration: 3.3:1

Photometrics:

- 1360 Lux (Zoomed In to 7°)
- 487 Lux (Zoomed Out to 25°)
- CRI: >90

Connection:

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

Control:

- DMX-512
- 9 DMX control modes: (4/5/6/7/8/9/10/11/12 Ch. modes)
- RDM and RDM Net Compatible
- Primary/Secondary, stand-alone mode
- On-board manual control mode

Features:

- Linear white color temperature control (230K ~ 9900K)
- Color Temperature Presets (2300K ~ 9900K)
- 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)
- 64 Built-in Color Macros
- Strobe Rate: 0.6Hz to 7.5Hz
- Refresh Rate: 3KHz
- Electronic Dimming: 0 100%
- 6 Dim Modes
- 4 Dim Curves
- On-board, color balance feature for each color (RGBA)

Electrical:

- Power Draw Total (All LED's @ Full On): 157W
- Power Consumption: 1.3A @ 120V/60Hz ; 0.7A
 @ 220V/50Hz
- Multi-voltage operation: AC 100-240V, 50/60Hz
- Daisy chain: 9 fixtures @ 120V; 17 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): 19.25" x 10.94" x 10.7" / 489 x 277.7 x 272.4mm
- Weight: 7.94 lbs. / 3.6kg.

IP Rating / Approvals:

- IP20
- CE & FCC
- ETL



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

FCC STATEMENT

Please note that changes or modifications to this product that are 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!



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