PAR Z150 RGBA PLUS

User Manual

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

Date	Document Version	Software Version	DMX Channels	Notes
02/03/2025	1.0	1.00	4 / 5 / 9-A / 9-B / 13 / 15	Initial release
04/15/2025	1.1	N/C	No Change	Updated Overview, Control Panel, Specifications
04/22/2025	1.2	N/C	No Change	Updated Specifications

CONTENTS

INTRODUCTION

Unpacking: Thank you for purchasing the Par Z150 RGBA Plus 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 Plus combines a potent 150-Watt C.O.B. LED light source with a rechargeable Lithium-ion battery in 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. Aria X2 wireless management system is built-in. **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)

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
Voice: 800-322-6337 I support@adj.com

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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 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 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. 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

- Aria X2 wireless management system built-in
- Linear white color temperature control (2300K ~ 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
- 13 Built-in Internal Programs
- 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)

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

S A F E T Y   P R E C A U T I O N S

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 104°F (-20°C to 40°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 1 foot (0.3m) 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.

BATTERY PRECAUTIONS

Do not short circuit the battery. Avoid subjecting the battery to a short circuit, as doing so generates a very high current, resulting in overheating, electrolyte gel leakage, harmful fumes, explosion risk, or other damage to the battery.

Mechanical shock. Dropping, impacting, striking, or bending the unit, or subjecting the unit to any other types of mechanical shock may cause failure or shortend life of the battery.

Do not disassemble the batteries. Never disassemble the batteries, as doing so may result in an internal short circuit in the battery, leading to fire, explosion, release of harmful fumes, or other hazards. Electrolyte gel is harmful, and contact should be avoided whenever possible. Should the electrolyte gel come into contact with the skin or eyes, flush the area of contact immediately with fresh water and seek medical attention immediately.

Do not expose battery to heat or fire. Never incinerate or dispose of the batteries in fire, as this could result in an explosion.

Do not exposre the battery to water or liquids. Never expose or immerse the batteries in liquids of any type, including water, seawater, soft drinks, juices, coffee, or other beverages.

Battery Replacement. For battery replacement please contact customer support.

Never use a damaged battery. Shipping carries a risk of damage to the battery. Should damage be observed, including damage to the plastic casing of the battery, deformation of the battery package, chemical or electrolyte odor, or leakage of the electrolyte gel, or any other miscellaneous damage, **DO NOT use the battery.** A battery with a odor of electrolyte or a gel leakage should be placed away from fire to avoid risk of fire or explosion.

Battery Storage. The battery should be stored at room temperature, with a charge of at least 50%. During long periods of storage, it is recommended that the battery be charged every 6 months. Doing so will prolong the life of the battery and will also make sure that the battery charge does not fall below the 30% mark.

Other Chemical Reactions. Because batteries rely on a chemical reaction to work, battery performance will deteriorate over time, even if stored for a long period of time without being used. In addition, if various usage conditions (such as charge, discharge, ambient temperature, etc.) are not maintained within the specified ranges, the life expectancy of the battery maybe shortened or the device in which the battery is used may be damaged by electrolyte gel leakage. If the batteries cannot maintain a charge for long periods of time, even when they are charged correctly, this may indicate the need to replace the battery.

Battery Disposal. Please dispose of battery according to local regulations.

OVERVIEW

Charge Indicator

Display Screen

Aria Indicator

CHARGE

ariax2

MODE / ESC   ENTER   UP   DOWN

Mode/Esc Button

Setup Button

Up Button

Down Button

Power Switch

DMX Out

Fuse 250V 3A

DMX In

Power In

Power Out

Bracket Adjustment Knob

Gel Frame Latch

Mounting Bracket

Safety Cable Loop

PAR Z150 RGBA PLUS

Gel Frame Holder
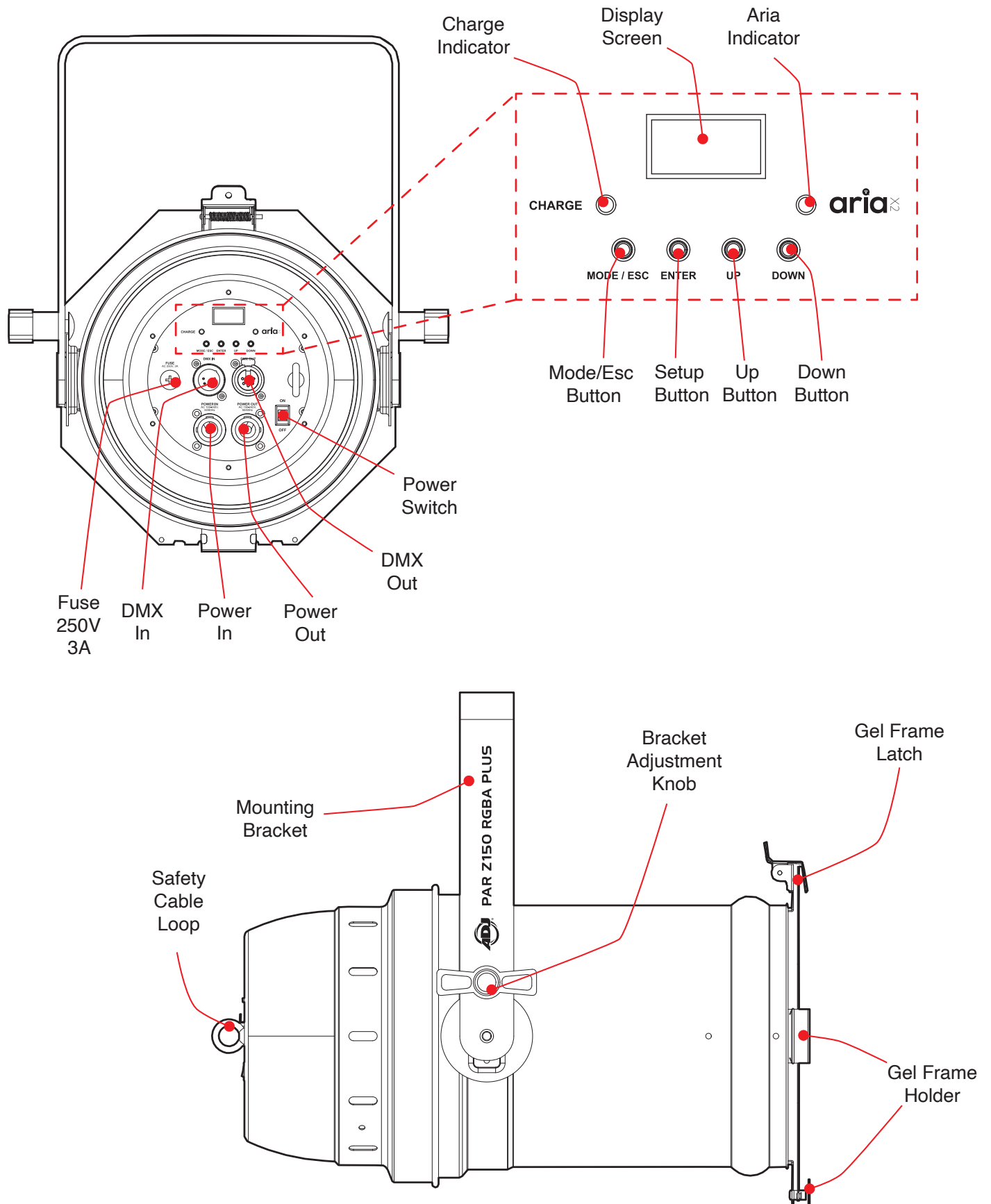
INSTALLATION

⚠ **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 104°F (-20°C to 40°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.

INSTALLATION

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.

MOUNTING CLAMP

BOLT

NUT
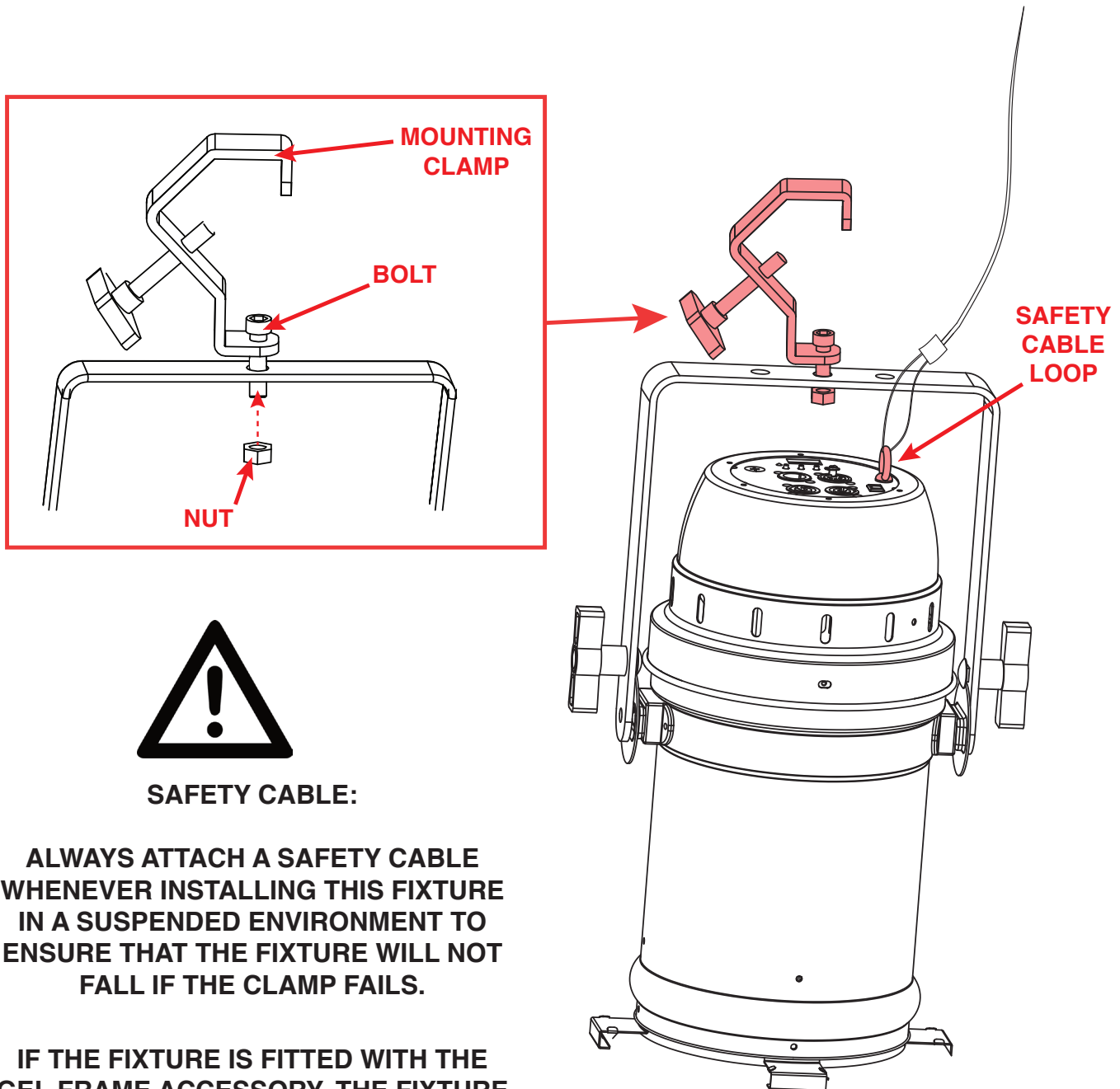
SAFETY CABLE LOOP

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.

IF THE FIXTURE IS FITTED WITH THE GEL FRAME ACCESSORY, THE FIXTURE MUST BE ORIENTED WITH THE LATCH FACING UPWARDS. THIS IS TO PREVENT THE GEL FRAME FROM FALLING IN THE EVENT THAT THE LATCH FAILS.

INSTALLATION

STAND MOUNTING

This unit can also be installed atop a tripod stand. Simply secure the mounting 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.
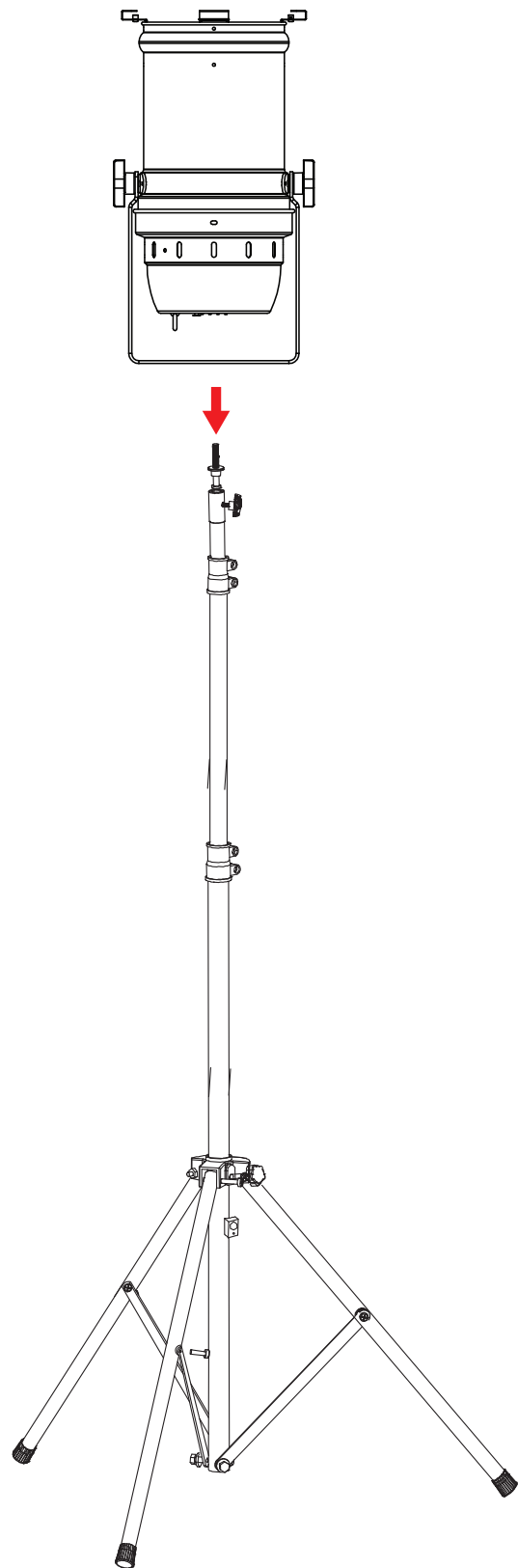
CAUTION!

MAKE SURE THAT THE TRIPOD LEGS AND ALL TELESCOPING ELEMENTS OF THE TRIPOD STAND ARE LOCKED IN PLACE BEFORE INSTALLING THE DEVICE ATOP THE STAND!

POSITION THE TRIPOD STAND AND MOUNTED DEVICE ONLY ON FLAT, STABLE SURFACES! DEPLOY TRIPOD LEGS FULLY IN ORDER TO MAXIMIZE STABILITY!

INSTALLATION
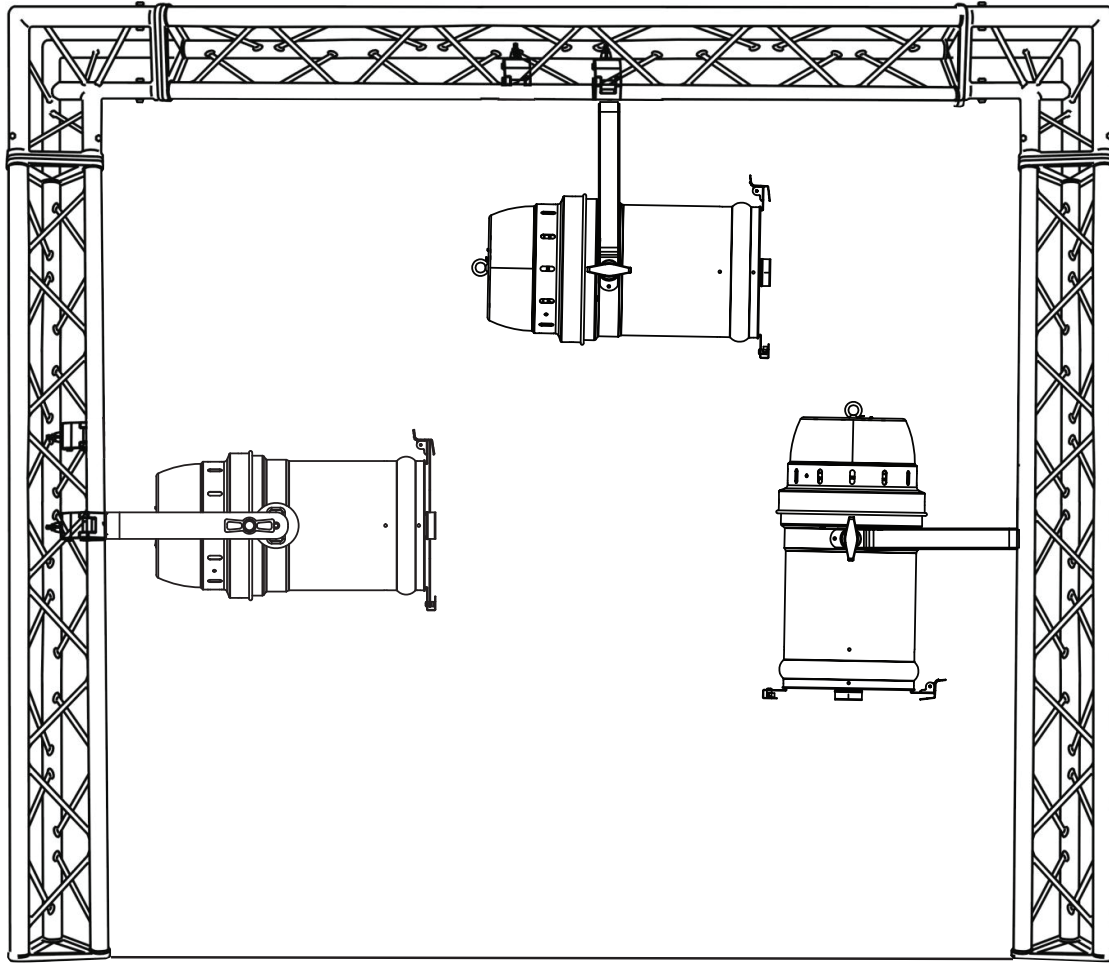
The unit is fully operational in three different mounting positions: hanging upside-down from the ceiling or trussing, sideways on trussing, or set on a flat level surface. Be sure this fixture is kept at least 12m (40ft) away from any flammable materials (decorations, etc). Always use and install a 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 DOWNWARDS. DOING SO PREVENTS INSTALLED ACCESSORIES FROM FALLING IN THE EVENT THAT THE LATCH FAILS.**

INSTALLATION

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.
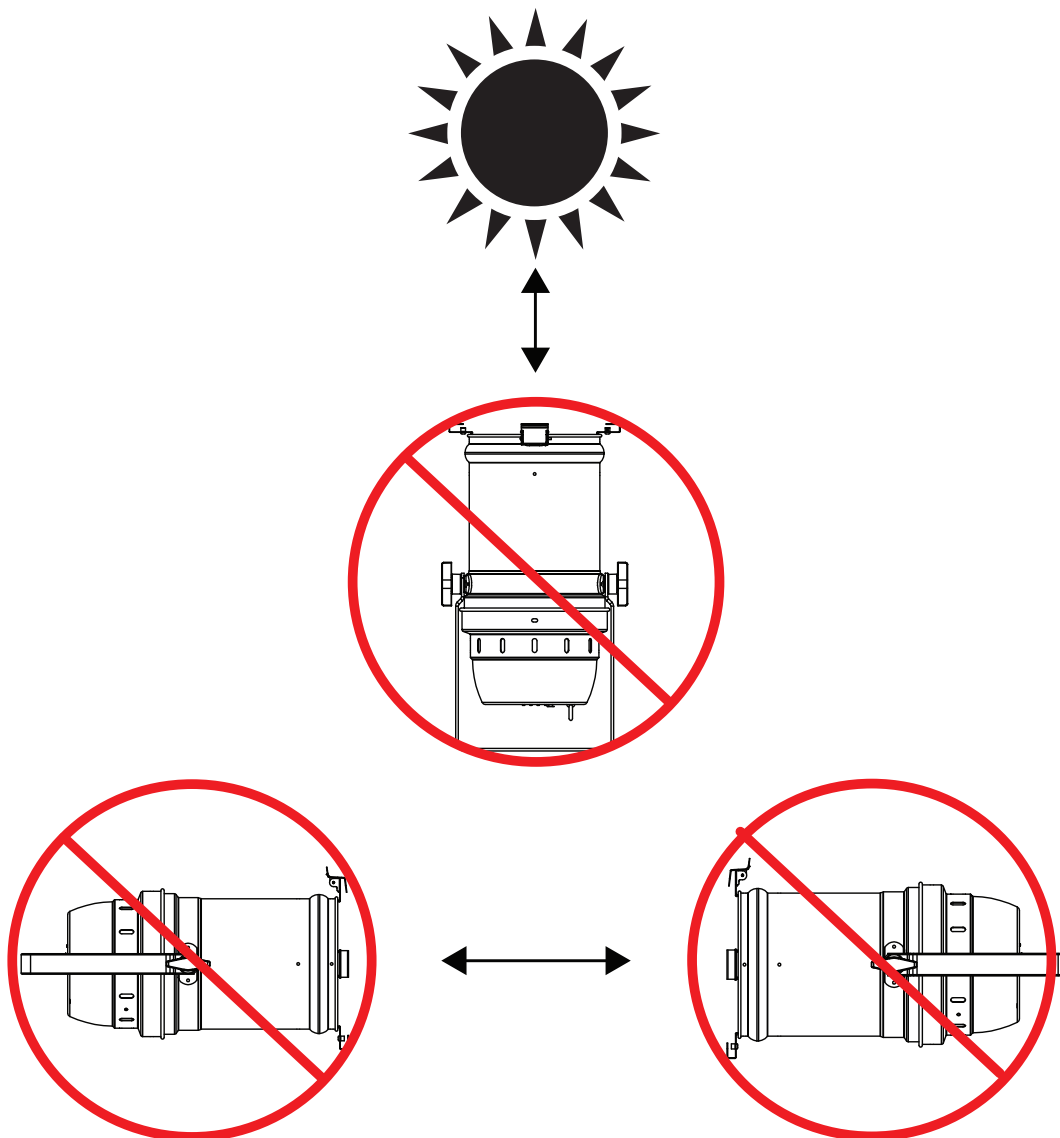
ACCESSORY INSTALLATION

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.

Please note: when the fixture is fitted with the gel frame, the fixture should be oriented with the latch facing upwards. This is to prevent the gel frame from falling in the event that the latch fails.
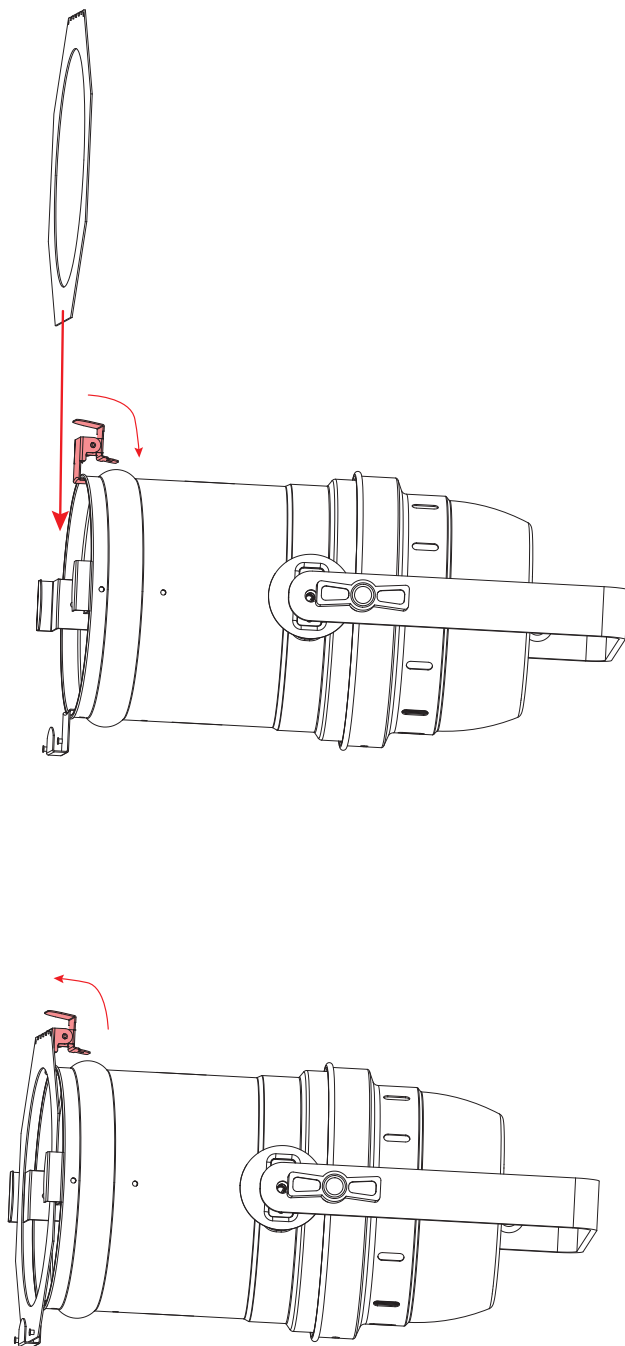
ARIA

This device's Aria functions are enabled by default and are ready to use right out of the box. However, to set up wireless control in the event that Aria has been switched off, follow the steps below:

1. Navigate to Personality > Aria in the system menu. Press SETUP to select this menu.
2. Use UP and DOWN to scroll to the "Aria Enable" option, then press SETUP to select. Use the UP and DOWN buttons to toggle to the "On" setting.
3. Return to the "Aria" Menu, then use the UP and DOWN buttons to navigate to "Frequency" and press SETUP. Use the UP and DOWN buttons to select the operating frequency for the Aria signal.
4. Return to the "Aria" menu, and use the UP and DOWN buttons to scroll to either "2.4Ghz CH" or "Sub Gig CH", depending on which operating frequency was chosen in step 3. Press SETUP to select. Use the UP and DOWN buttons to scroll to the desired channel, then press SETUP to confirm the selection.

There are many factors that can affect and/or interrupt a wireless signal, including walls, glass, metal, objects, and people. Therefore, the following guidelines are recommended in order to maximize the chances of having a clear path for the wireless signal to reach the device:

- Install the device a minimum of 9.8 ft (3m) above audiences and/or ground level.
- Arrange the wireless antenna in an upright, vertical position.
- Position devices in direct line of sight of the transmitting controller.

Careful planning and testing of the selected installation location is critical to ensure optimum and reliable wireless operation.

9.8 ft (3m)
Above Ground

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	4802	4Ch, 5Ch, 9Ch-A, 9Ch-B, 13Ch, 15Ch

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.

Code	Parameter
[0x0001]	Disc Unique Branch
[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
[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/ESC 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.
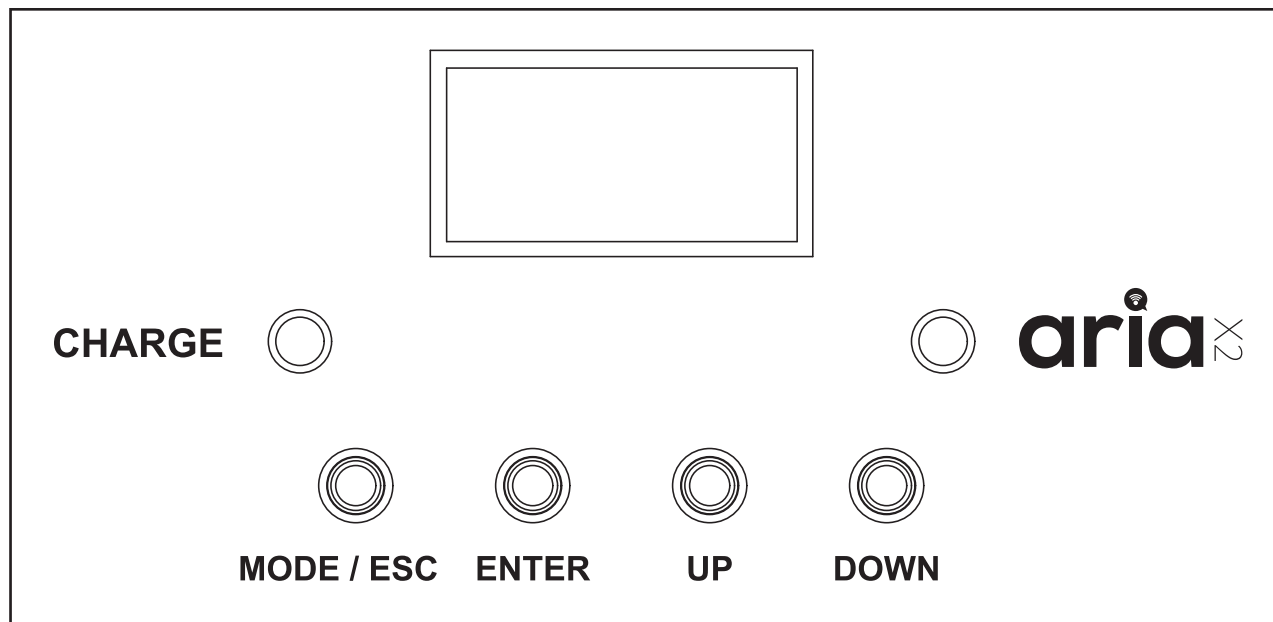
SCREEN LOCK
The control panel and display screen can be configured to lock after a defined period of inactivity. This feature is switched off by default, but can be enabled and configured by navigating to Personality > Display > Screen Lock in the system menu. To unlock the screen, press and hold the mode/esc button for 3 seconds.

SYSTEM MENU

DMX Settings	DMX Address	**001** - 512	
	Channel Mode	4ch	
		5ch	
		9ch-A	
		9ch-B	
		13ch	
		15ch	
	No DMX Setting	**Hold Last**	
		Blackout	
		Manual	
		Internal Programs	
Personality	Primary / Secondary	Primary / **Secondry**	
	Signal	**DMX** or Aria	
		Aria In / DMX Out	On / **Off**
	Aria	Aria Enable	On / **Off**
		Frequency	**2.4 GHz**
			Sub Gig US
			Sub Gig EU
		2.4Ghz CH	**00** - 15
		Sub Gig CH	**00** - 09
		Mesh	**On** / Off
		Bluetooth Enable	**On** / Off
	RDM	On / **Off**	
	Dim Modes	**Standard**	
		Stage	
		TV	
		Architectural	
		Theatre	
		Stage 2	
		Dim Delay	0 - 99
	Dim Curves	**Square**	
		Linear	
		Inv Squa	
		S Curve	
	Display	Saver Delay	Off, 1 - **10sec**
		Screen Lock	**Off**, 30sec, 1 - 10min
		Rotate	**dISP** / dSIP
	Temperature Unit	°C / °F **(°C is default for EU, °F is default for US)**	

SYSTEM MENU

| Personality (continued)	Service	Passcode = 050	White Balance	Red 000 - 255
				Green 000 - 255
				Blue 000 - 255
				Amber 000 - 255
			DMX LED	**Enable** / Disable
			Charge LED	Enable / **Disable**
			Factory Reset	Yes / **No**
Manual	Red	**000** - 255		
	Green	**000** - 255		
	Blue	**000** - 255		
	Amber	**000** - 255		
	Color Macros	**000** - 255		
	Color Temperature Linear	**000** - 255		
	Color Temperature Presets	Off, 2300K, 2400K...9900K		
	Shutter	000 - **255**		
	Dimmer	000 - **255**		
	Internal Programs	Off, Prog 0, Prog 1...Prog 13		
	Internal Program Speed	000 - 255 (Default = **127)**		
	Internal Program Fade	**000** - 255		
Internal Programs	Program 0	Speed	1 - 255 (Default = **127**)	
		Fade	**0** - 255	
	Program 1	Speed	1 - 255 (Default = **127**)	
		Fade	**0** - 255	
	...	...	...	
	Program 13	Speed	1 - 255 (Default = **127**)	
		Fade	**0** - 255	
Info	Fixture Lifetime Hours	xxxxx		
	LED Usage Time	xxxxx		
	LED Temperature	xxx F / xxx C		
	Software Version	x.xx		
	RDM UID	xxxxxx		
Battery	Charge Time	xx Hours		
	Remaining Percentage	xxx %		
	Operation Hour Mode	**5 Hr** - 20 Hr		

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.

COMMON - - - - - -
DMX + - - - - - -
DMX - - - - - - -
NOT USED - - - - -
NOT USED - - - - -
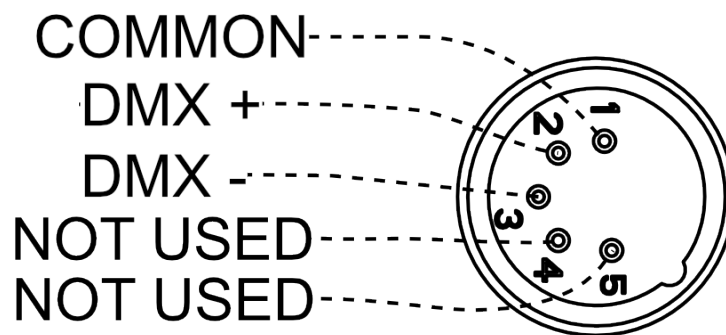
DMX SET UP

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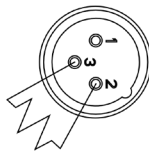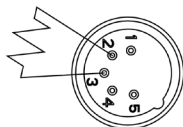
A DMX512 terminator reduces signal errors, avoiding most signal reflection interference. Connect PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture in series with a 120 Ohm, 1/4 W Resistor to terminate the DMX512.

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
9Ch-A / 9Ch-B	1	10	19	28
13Ch	1	14	27	40
15Ch	1	16	31	46

DMX TRAITS

4Ch	5Ch	9Ch-A	9Ch-B	13Ch	15Ch	DMX VALUES	FUNCTION
1			1		1	1		**Red**
						0-255	0 - 100%
2		2		2	2		**Green**
						0-255	0 - 100%
3		3		3	3		**Blue**
						0-255	0 - 100%
4		4		4	4		**Amber**
						0-255	0 - 100%
		5	1	5	5		**Color Macros**
						0-255	See **Color Macros Chart**
	1	6	2	6	6		**Color Temperature**
						0-255	2300-9900K Linear
	2	7	3	7	7		**White Color Temperature Presets**
						0-22	Open
						23	2300K
						24	2400K
						25	2500K
						26	2600K
						27	2700K
						28	2800K
						29	2900K
						30	3000K
						31	3100K
						32	3200K
						33	3300K
						34	3400K
						35	3500K
						36	3600K
						37	3700K
						38	3800K
						39	3900K
						40	4000K
						41	4100K
						42	4200K
						43	4300K

DMX TRAITS

4Ch	5Ch	9Ch-A	9Ch-B	13Ch	15Ch	DMX VALUES	FUNCTION
							White Color Temperature Presets (continued)
						44	4400K
						45	4500K
						46	4600K
						47	4700K
						48	4800K
						49	4900K
						50	5000K
						51	5100K
						52	5200K
						53	5300K
						54	5400K
						55	5500K
						56	5600K
						57	5700K
						58	5800K
	2	7	3	7	7	59	5900K
						60	6000K
						61	6100K
						62	6200K
						63	6300K
						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

DMX TRAITS

4Ch	5Ch	9Ch-A	9Ch-B	13Ch	15Ch	DMX VALUES	FUNCTION
							White Color Temperature Presets (continued)
						77	7700K
						78	7800K
						79	7900K
						80	8000K
						81	8100K
						82	8200K
						83	8300K
						84	8400K
						85	8500K
						86	8600K
	2	7	3	7	7	87	8700K
						88	8800K
						89	8900K
						90	9000K
						91	9100K
						92	9200K
						93	9300K
						94	9400K
						95	9500K
						96	9600K
						97	9700K
						98	9800K
						99	9900K
						100-255	No Function
							Shutter
						0-31	LEDs Off
						32-63	LEDs On
						64-95	Strobe Effect, slow to fast
	3	8	4	8	8	96-127	LEDs On
						128-159	Pulse Effect in Sequences
						160-191	LEDs On
						192-223	Random Strobe Effect, slow to fast
						224-255	LEDs On

DMX TRAITS

4Ch	5Ch	9Ch-A	9Ch-B	13Ch	15Ch	DMX VALUES	FUNCTION
	4	9	5	9	9		**Dimmer**
						0-255	Intensity, 0-100%
	5		6	10	10		**Dimmer Fine**
						0-255	Dimmer fine adjustment
			7	11	11		**Internal Programs**
						0-10	Off
						11-26	Auto Program 1
						27-43	Auto Program 2
						44-60	Auto Program 3
						61-76	Auto Program 4
						77-93	Auto Program 5
						94-110	Auto Program 6
						111-126	Auto Program 7
						127-143	Auto Program 8
						144-160	Auto Program 9
						161-176	Auto Program 10
						177-193	Auto Program 11
						194-210	Auto Program 1
						211-226	Auto Program 1
						227-255	No Function
			8	12	12		**Internal Programs Speed**
						0-255	Slow to fast
			9	13	13		**Internal Programs Fade**
						0-255	Least fade to most fade
					14		**Dim Mode**
						0-20	Default to Unit Setting
						21-40	Standard
						41-60	Stage
						61-80	TV
						81-100	Architectural
						101-120	Theatre
						121-140	Stage 2

DMX TRAITS

4Ch	5Ch	9Ch-A	9Ch-B	13Ch	15Ch	DMX VALUES	FUNCTION
					14		**Dim Speed**
						141	0.1s
						142	0.2s
						143	0.3s
						144	0.4s
						145	0.5s
						146	0.6s
						147	0.7s
						148	0.8s
						149	0.9s
						150	1.0s
						151	1.5s
						152	2.0s
						153	3.0s
						154	4.0s
						155	5.0s
						156	6.0s
						157	7.0s
						158	8.0s
						159	9.0s
						160	10s
						161-255	Default to Unit Setting
					15		**Dim Curves**
						0-20	Square
						21-40	Linear
						41-60	Inv Square
						61-80	S Curve
						81-255	No Function

DIM MODES AND CURVES

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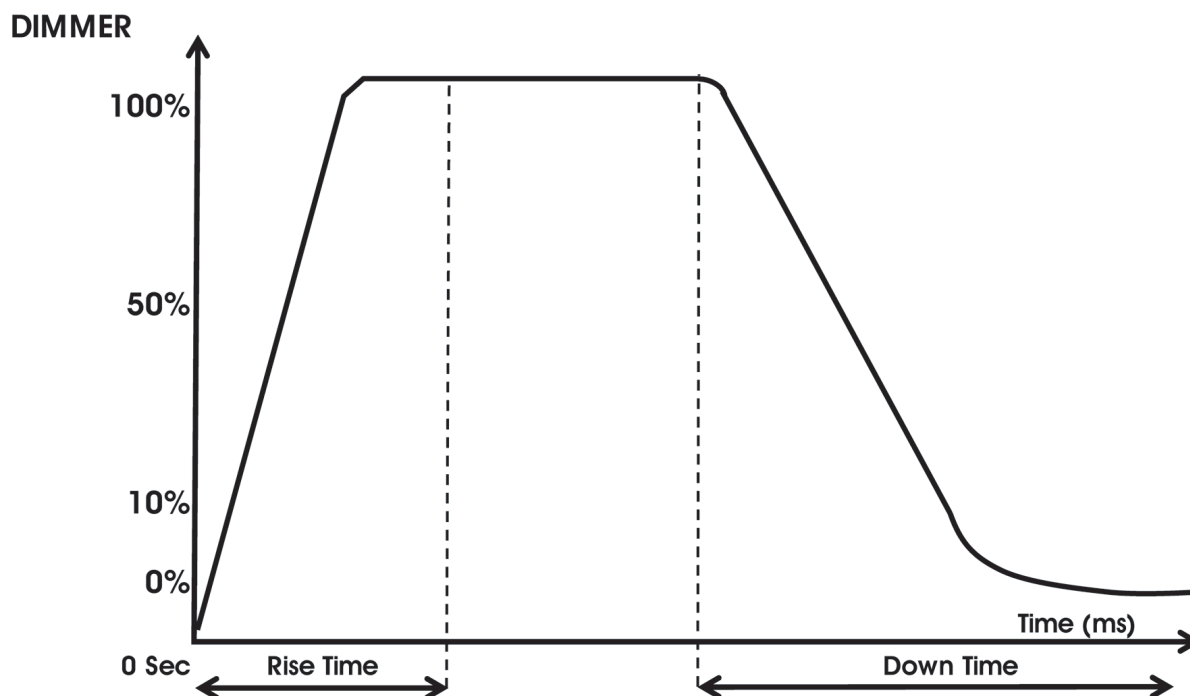
	0 sec Fade Time		1 sec Fade Time	
Dimming Curve Ramp Effect				
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660

LINEAR

SQUARE

INVERSE SQUARE

S-CURVE

28
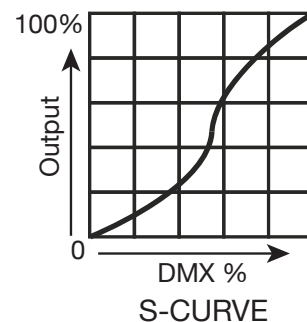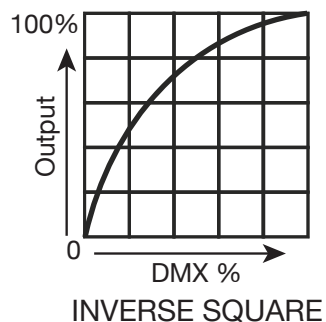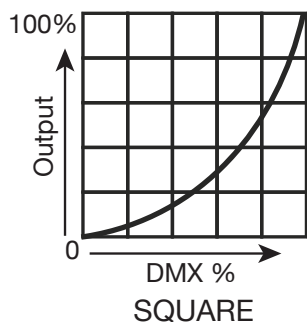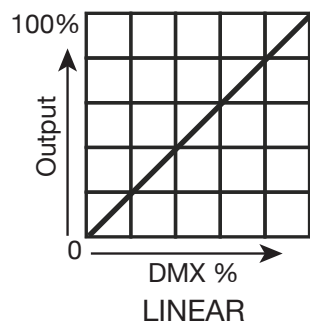
COLOR MACROS TABLE

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)	DMX VALUE	COLOR TEMPERATURE (K)
23	2300	62	6200
24	2400	63	6300
25	2500	64	6400
26	2600	65	6500
27	2700	66	6600
28	2800	67	6700
29	2900	68	6800
30	3000	69	6900
31	3100	70	7000
32	3200	71	7100
33	3300	72	7200
34	3400	73	7300
35	3500	74	7400
36	3600	75	7500
37	3700	76	7600
38	3800	77	7700
39	3900	78	7800
40	4000	79	7900
41	4100	80	8000
42	4200	81	8100
43	4300	82	8200
44	4400	83	8300
45	4500	84	8400
46	4600	85	8500
47	4700	86	8600
48	4800	87	8700
49	4900	88	8800
50	5000	89	8900
51	5100	90	9000
52	5200	91	9100
53	5300	92	9200
54	5400	93	9300
55	5500	94	9400
56	5600	95	9500
57	5700	96	9600
58	5800	97	9700
59	5900	98	9800
60	6000	99	9900
61	6100		

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:

1. 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.
2. 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:
- **11 units @ 120V power**
- **20 units @ 230V 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.*

FUSE
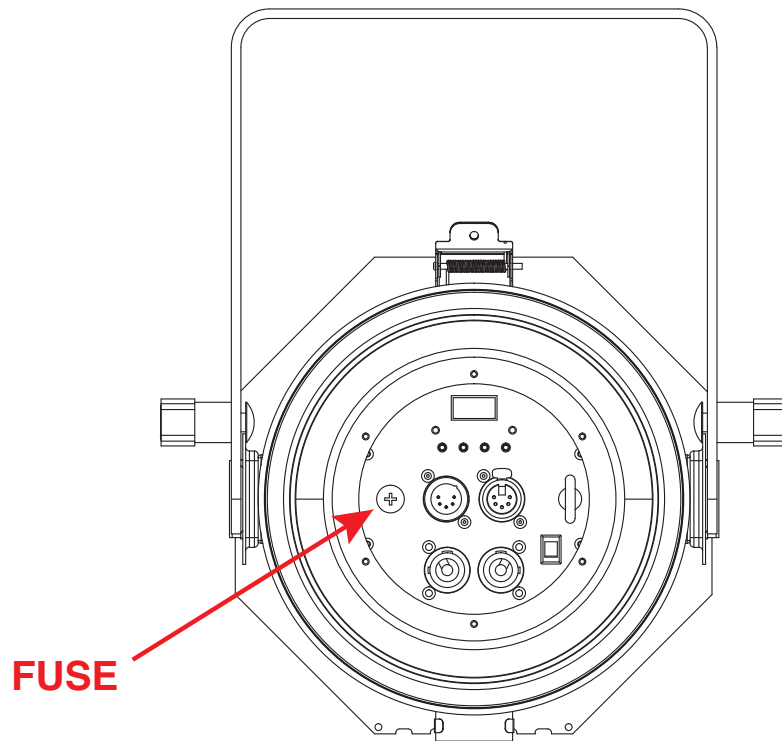
MAINTENANCE GUIDELINES

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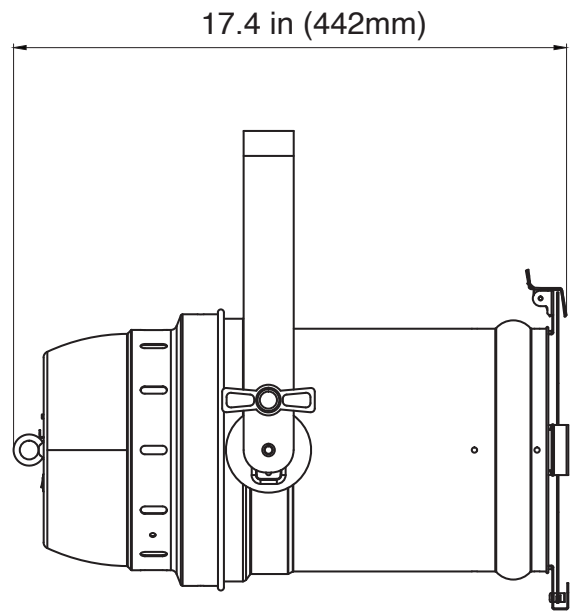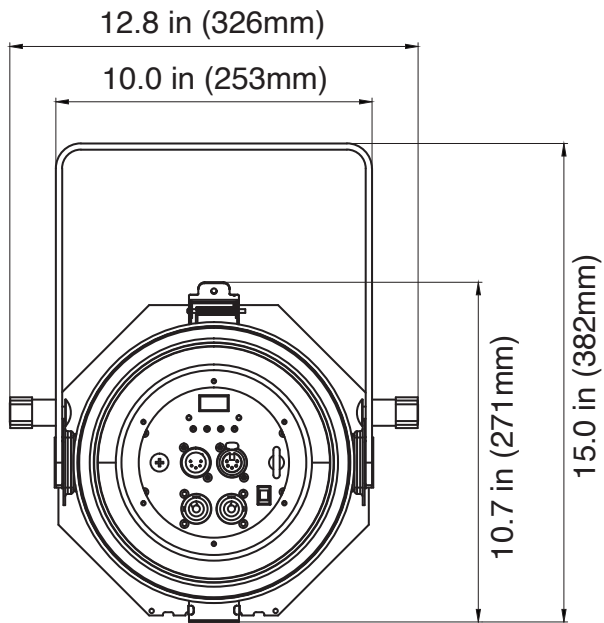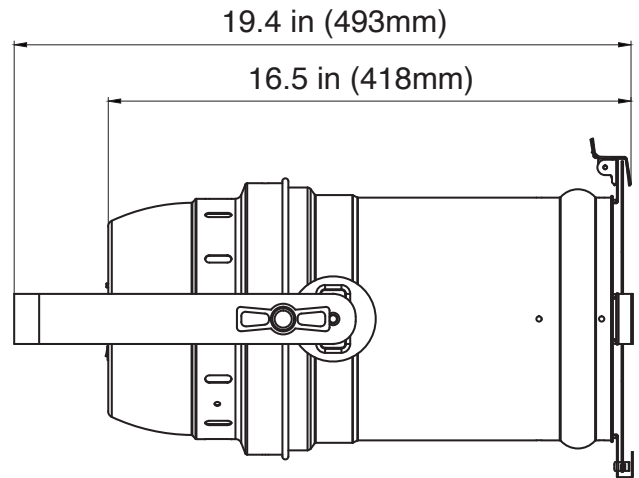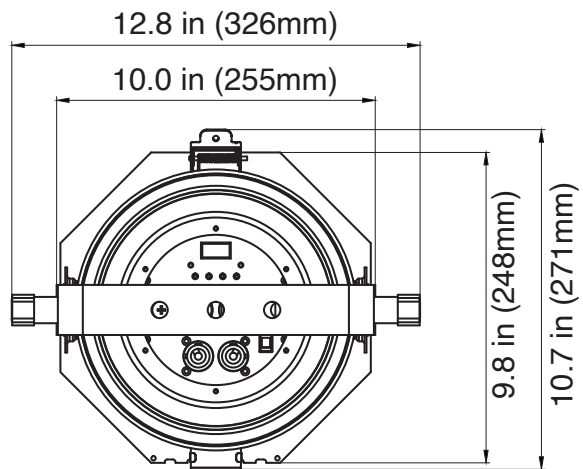
MAINTENANCE
Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized ADJ service technician. Should you need any spare parts, please order genuine parts from your local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

12.8 in (326mm)

10.0 in (255mm)

9.8 in (248mm)

10.7 in (271mm)

19.4 in (493mm)

16.5 in (418mm)

12.8 in (326mm)

10.0 in (253mm)

10.7 in (271mm)

15.0 in (382mm)

17.4 in (442mm)

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 Ratio: 3.3:1

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

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

Control:
- DMX-512 and Aria X2 Wireless DMX / APP
- 6 DMX control modes: (4, 5, 9-A, 9-B, 13, & 15 Ch. modes)
- RDM and RDM Net Compatible
- Primary/Secondary, stand-alone mode
- On-board manual control mode

Features:
- Aria X2 wireless management system built-in
- Linear white color temperature control (2300K ~ 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
- 13 Built-in Internal Programs
- 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): 90W
- Power Consumption: 0.7A @ 120V/60Hz ; 0.4A @ 220V/50Hz
- Multi-voltage operation: AC 100-240V, 50/60Hz
- Daisy chain: 11 fixtures @ 120V; 20 fixtures @ 230V
- Fuse protected: 3A/250V

Battery:
- Rechargeable Lithium-ion
- Battery Capacity: 12,000mAh
- Battery Voltage: 22.2V
- Charge Time: 6 Hours (To Full)
- Battery operation can be selected by the user for durations ranging from 5 to 20 hours. 5 Hour duration will operate at Full Output when battery is fully charged
- Battery Cycles: 500
- Battery On/Off button

Ambient Temperature Range (For Use):
- -4° ~ 104°F (-20°C ~ 40°C)

Storage Temperature Range:
- -22° ~ 104°F (-30°C ~ 40°C)

Dimensions / Weight:
- Dimensions (LxWxH): 19.4" x 12.8" x 10.7" / 493 x 326 x 271mm
- Weight: 12.79 lbs. / 5.8kg.

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!

FC