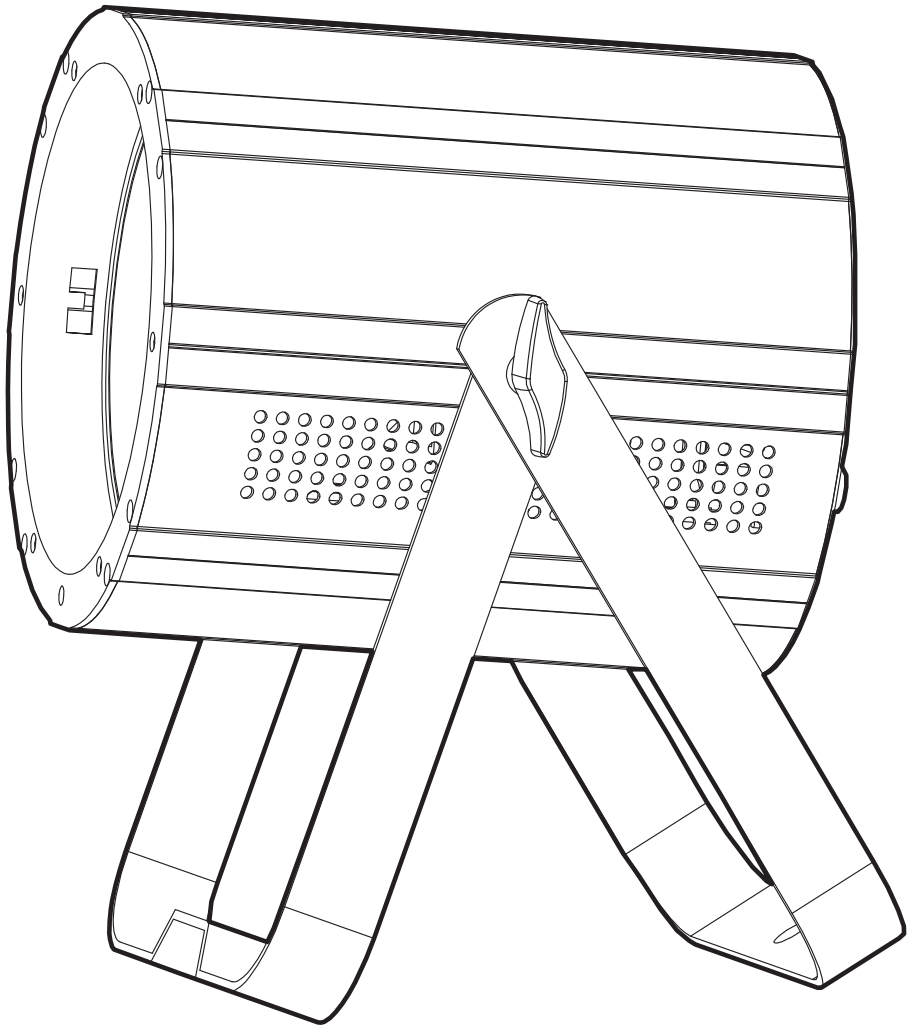


COB CANNON

LP200STX

User Manual

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Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)
Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

DOCUMENT VERSION

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

Date	Document Version	Software Version	DMX Channels	Notes
10/24/2024	1.0	1.00	5/8A/8B/9/10A/10B/12/13/16/20 Ch	Initial Release
01/22/2025	1.1	N/C	No Change	Updated Specifications; Added FCC Statement

CONTENTS

General Information	4
Limited Warranty (USA Only)	5
Warranty Registration I Features	6
Safety Guidelines	7
Overview	8
Installation Guidelines	9
Accessory Installation	15
Remote Device Management (RDM)	17
Aria Setup	18
Control Panel	19
System Menu	20
DMX Setup	23
DMX Traits	25
Dimmer Modes and Curves	28
Color Temperature	29
Color Macro Chart	30
IR Remote Control	32
IR Default Values I Editing RGBAL IR Button Values	33
Daisy Chain Power Linking I Cleaning and Maintenance	34
Fuse Replacement	35
Specifications	36
Dimensional Drawings	37
FCC Statement	38

GENERAL INFORMATION

INTRODUCTION

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

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

Unpacking

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

FOR SOFTWARE UPDATES, CONTACT ADJ CUSTOMER SUPPORT.

CUSTOMER SUPPORT

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

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
323-582-2650 l support@adj.com

ADJ SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
+31 45 546 85 60 l Fax: +31 45 546 85 96 l support@adj.eu

REPLACEMENT PARTS please visit parts.adj.com



IMPORTANT NOTICE!

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

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 carton 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 back the product-please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, or for the safe return thereof.

C. This warranty is void of the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product, if the product has been repaired or service by anyone other than ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contact, and this warranty does not include maintenance, cleaning or periodic check up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warrant service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.

E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and/or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

LIMITED WARRANTY PERIODS

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

WARRANTY REGISTRATION

This device carries a 2 year limited warranty. 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 on our customer support number. 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

- Embedded Aria X2 Wireless Management System
- Primary / Secondary Mode
- Flicker Free operation (No flickering on camera)
- Produces powerful, smooth RGBAL color mixing with rich palettes of color
- Scissor yoke allows fixture to be mounted on truss or set on the ground
- Optional Barn Doors (BAR001) sold separately

INCLUDED ITEMS:

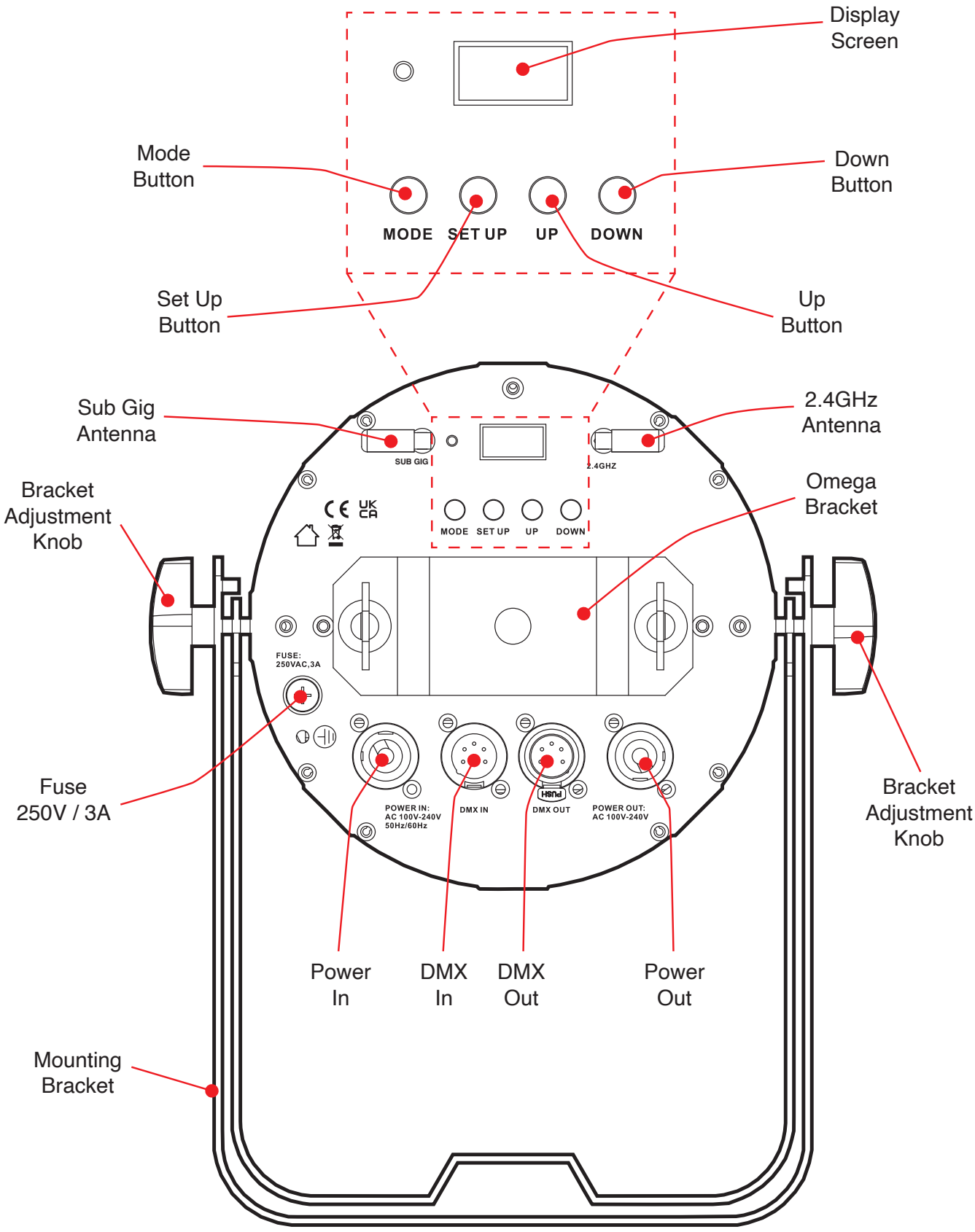
- (1) 50-degree lens
- (1) 40-degree lens
- UCIR24 Wireless IR Remote
- Power Cord
- Scissor Yoke
- Omega Bracket

SAFETY GUIDELINES

THIS FIXTURE IS COMPOSED OF SOPHISTICATED ELECTRONIC COMPONENTS. TO GUARANTEE SMOOTH OPERATION, IT IS IMPORTANT TO FOLLOW ALL INSTRUCTIONS AND GUIDELINES IN THIS MANUAL. ADJ PRODUCTS, LLC IS NOT RESPONSIBLE FOR INJURY AND/OR DAMAGES RESULTING FROM THE MISUSE OF THIS FIXTURE DUE TO THE DISREGARD OF THE INFORMATION PRINTED IN THIS MANUAL. ONLY QUALIFIED AND/OR CERTIFIED PERSONNEL SHOULD PERFORM INSTALLATION OF THIS FIXTURE AND ONLY THE ORIGINAL RIGGING PARTS INCLUDED WITH THIS FIXTURE SHOULD BE USED FOR INSTALLATION. ANY MODIFICATIONS TO THE FIXTURE AND/OR THE INCLUDED MOUNTING HARDWARE WILL VOID THE ORIGINAL MANUFACTURER'S WARRANTY AND INCREASE THE RISK OF DAMAGE AND/OR PERSONAL INJURY. ONLY CERTIFIED PERSONNEL SHOULD PERFORM INSTALLATION OF THIS FIXTURE.

- PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.
- THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT.
- DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR 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.
- DO NOT PLUG FIXTURE INTO A DIMMER PACK!
- NEVER OPEN THIS FIXTURE WHILE IN USE!
- UNPLUG POWER BEFORE SERVICING FIXTURE!
- NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!
- KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!
- NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
- RETINA INJURY RISK - MAY INDUCE BLINDNESS!
- SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!
- INDOOR / DRY LOCATIONS USE ONLY!
- DO NOT EXPOSE FIXTURE TO RAIN AND MOISTURE!
- MINIMUM DISTANCE TO OBJECTS/SURFACES IS 1.0 FOOT (0.3 METERS)
- MINIMUM DISTANCE TO FLAMMABLE MATERIALS FROM THE SURFACE IS 3.2 FEET (1.0 METER).
- DO NOT TOUCH the fixture housing during operation. Turn OFF the power and allow approximately 60 minutes for the fixture to cool down before serving.
- DO NOT shake fixture, and avoid brute force when installing and/or operating fixture.
- DO NOT operate fixture if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the fixture securely with ease. NEVER force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of the same power rating.
- DO NOT block any air ventilation slots. All fan and air inlets must remain clean and never blocked. Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.
- When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always install fixture with an appropriately rated safety cable.
- Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure.
- Only handle the power cord by the plug end. Never pull out the plug by tugging the wire portion of the cord.
- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.
- Consistent operational breaks will ensure fixture will function properly for many years.
- Only use original packaging and materials to transport the fixture in for service.

OVERVIEW


Display Screen
Mode Button
Down Button
MODE
SET UP
UP
DOWN
Set Up Button
Up Button
Sub Gig Antenna
2.4GHz Antenna
SUB GIG
2.4GHZ
Bracket Adjustment Knob
Omega Bracket
MODE
SET UP
UP
DOWN
FUSE: 250VAC,3A
Fuse 250V / 3A
POWER IN: AC 100V-240V 50Hz/60Hz
DMX IN
DMX OUT
POWER OUT: AC 100V-240V
Bracket Adjustment Knob
Power In
DMX In
DMX Out
Power Out
Mounting Bracket

INSTALLATION GUIDELINES



FLAMMABLE MATERIAL WARNING

Keep fixture minimum 5.0 feet (1.5m) away from flammable materials and/or pyrotechnics.



ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.



MINIMUM DISTANCE TO OBJECTS/SURFACES IS 6.6 FEET (2 METERS).
MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METERS).

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

- Fixture MUST be installed following all local, national, and country commercial electrical and construction codes and regulations.
- Before rigging/mounting a single fixture or multiple fixtures to any metal truss/structure or placing the fixture(s) on any surface, a professional equipment installer MUST be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture(s), clamps, cables, and accessories.
- Ambient operating temperature range is **-4°F to 113°F (-20°C to 45°C)**. Do not use fixture when ambient temperature exceeds this value.
- Fixture(s) should be installed outside walking paths, seating areas, or areas where unauthorized personnel might reach the fixture by hand.
- NEVER stand directly below the fixture(s) when rigging, removingm, or servicing.
- Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.
- Allow approximately 60 minutes for the fixture to cool down before servicing.

RIGGING

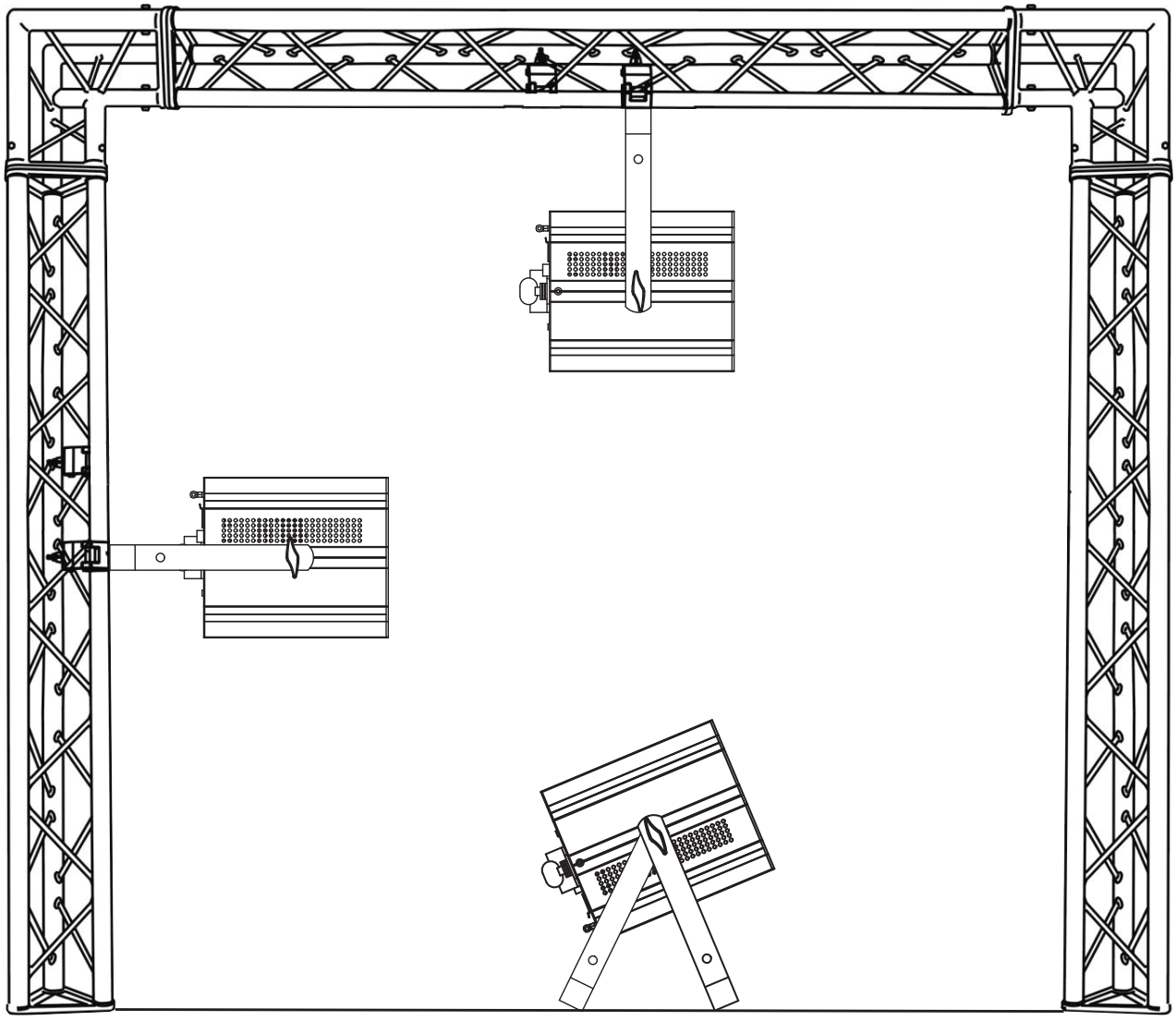
Overhead rigging requires extensive experience, including calculating working load limits, knowledge of installation material being used, and periodic safety inspection of all installation material and the fixture, among other skills. If you lack these qualifications, do not attempt the installation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

INSTALLATION GUIDELINES

RIGGING

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

This fixture is designed to be mounted vertically (hanging or upright), or horizontally (perpendicular to vertical axis) only.



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

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

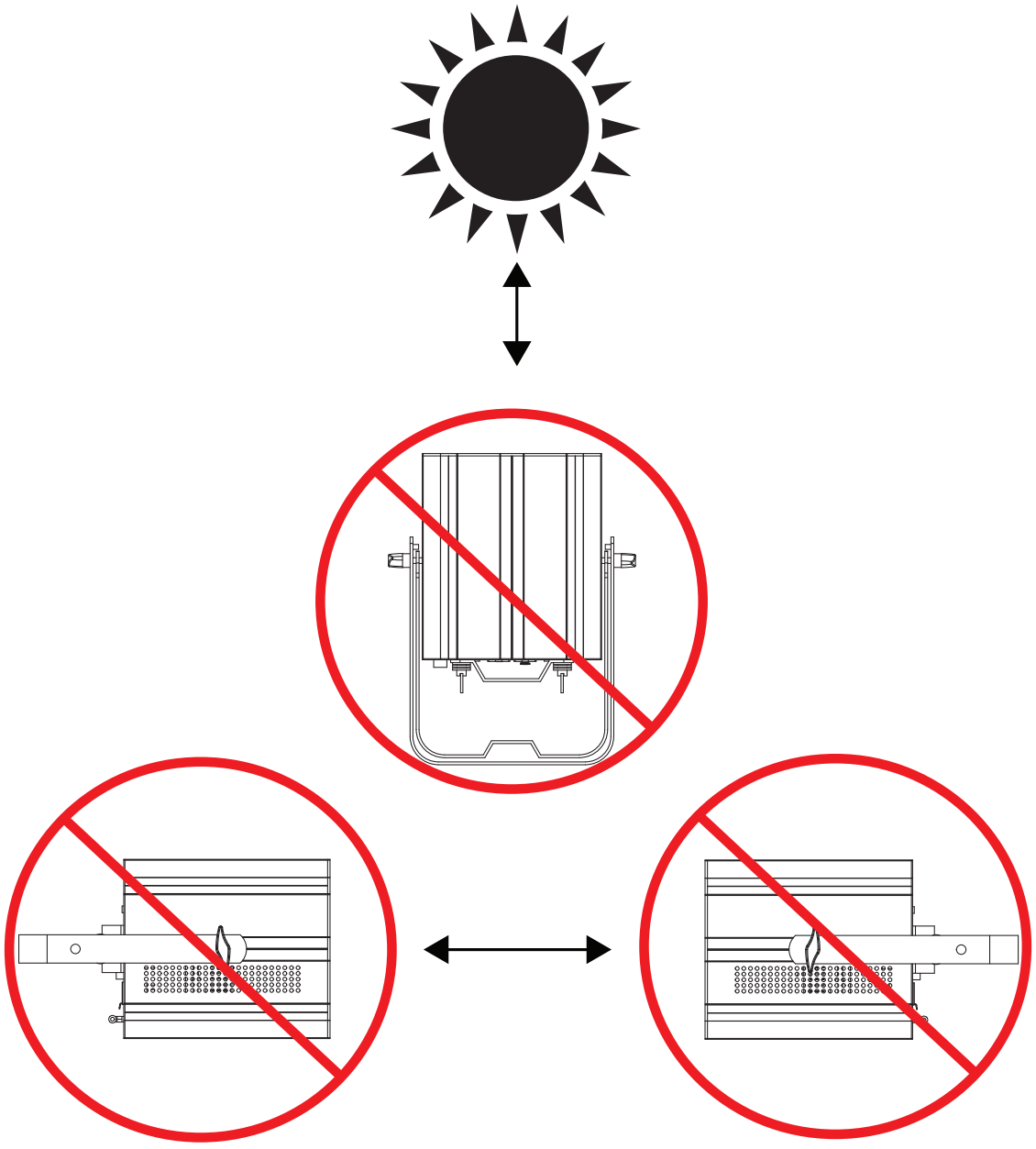
INSTALLATION GUIDELINES

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, lighting and moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of Elation lighting fixtures, can cause severe internal damage including burning of optics, dichroic color filters, glass and metal gobos, prisms, animation wheels, frost filters, iris, shutters, motors, belts, wiring, discharge lamps, and LEDs.

This issue is not specific only to Elation lighting fixtures, but rather it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can reduce the risk of potential damage. Contact Elation Service for more details.

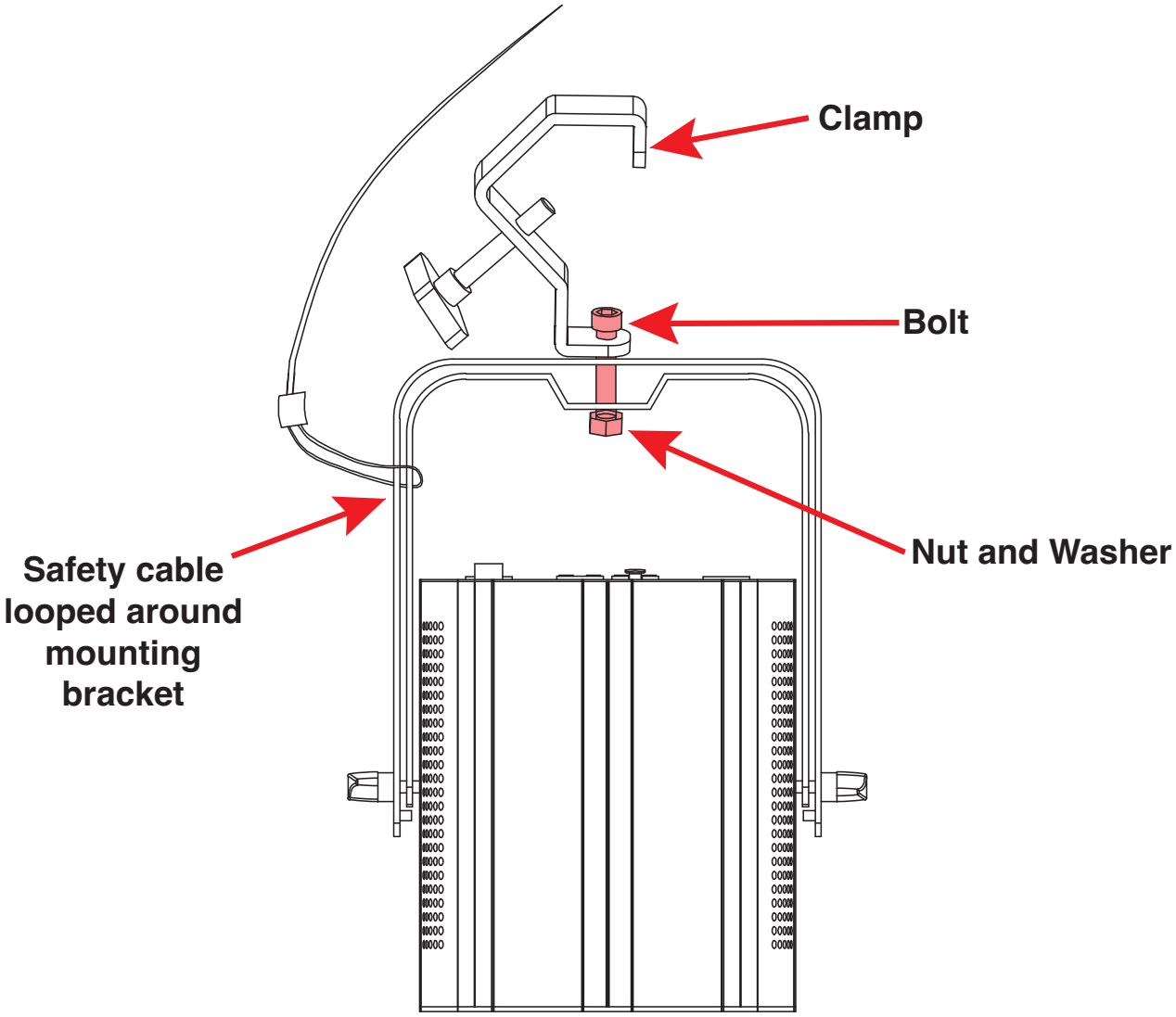
DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING OR MOVING HEAD FIXTURES, AND LASERS DURING UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.



INSTALLATION GUIDELINES

CLAMP INSTALLATION - MOUNTING BRACKET

This fixture features an attachment point for a mounting clamp at the top of the mounting bracket. Align the hole in the mounting clamp with the hole in the mounting bracket, insert a bolt of the proper size through bolt the clamp and bracket, and secure in place with a matching nut and washer. Attach a separate SAFETY CABLE of the appropriate weight rating by looping the cable around the mounting bracket, and securing the other end of the cable to a suitable anchoring point.



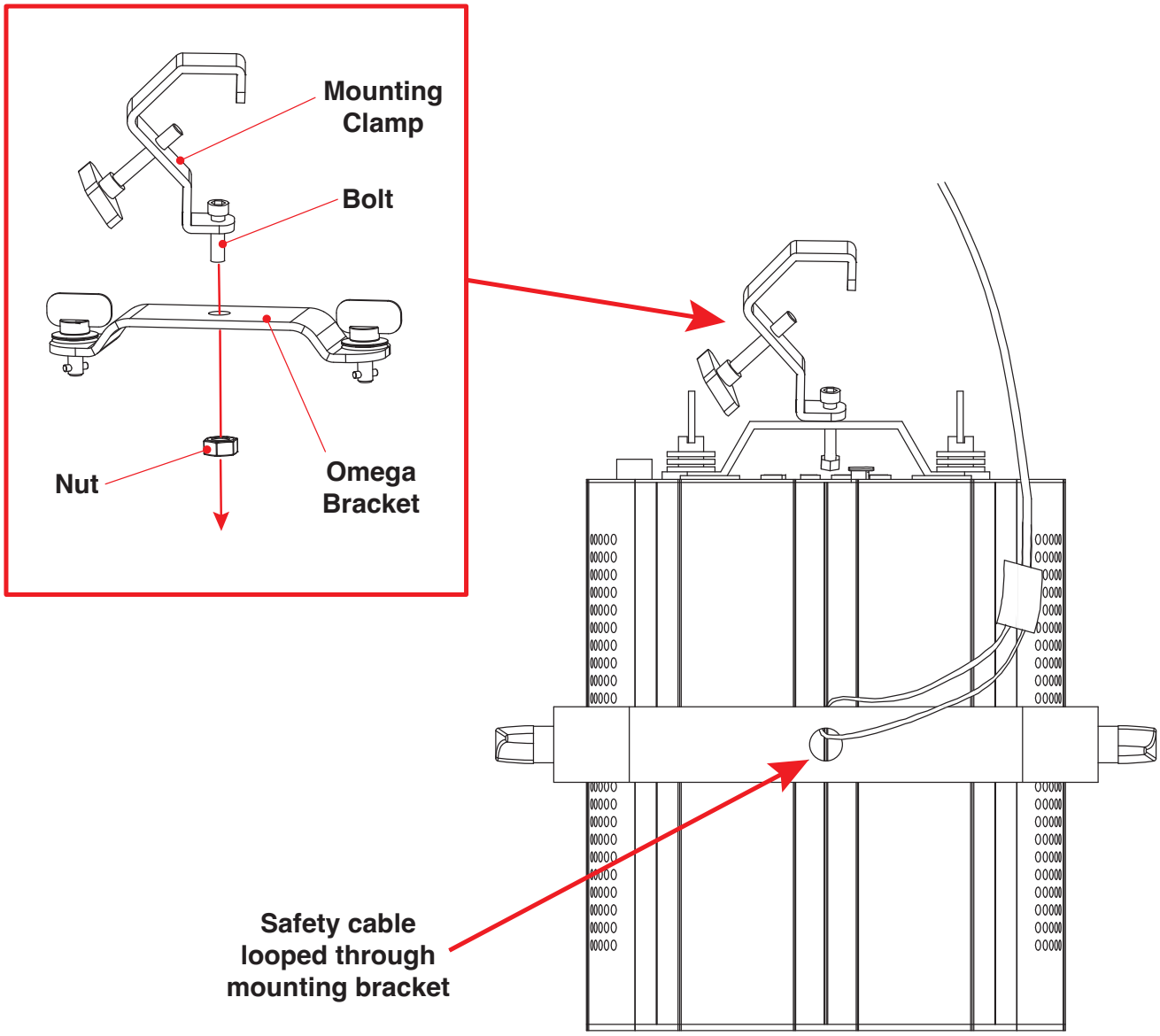
SAFETY CABLE:

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

INSTALLATION GUIDELINES

CLAMP INSTALLATION - OMEGA BRACKET

This fixture features an attachment point for an Omega bracket located near the control panel. Align the hole in the mounting clamp with the hole in the Omega bracket, insert a bolt of the proper size through bolt the clamp and bracket, and secure in place with a matching nut. Attach the entire clamp and bracket assembly to the fixture by inserting the twist-lock fasteners into the Omega bracket mounting holes on the fixture, then turn the twist locks to secure in place. Attach a separate SAFETY CABLE of the appropriate weight rating by looping the cable around the mounting bracket, and securing the other end of the cable to a suitable anchoring point.



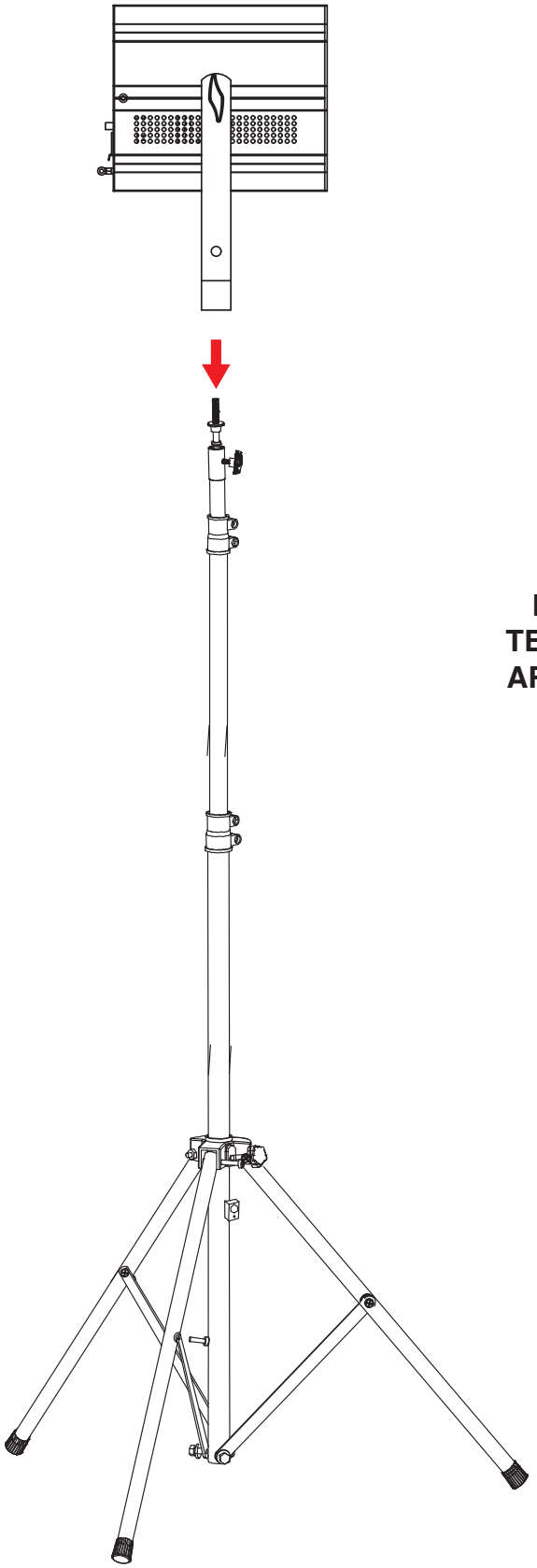
SAFETY CABLE:

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

INSTALLATION GUIDELINES

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.



CAUTION!

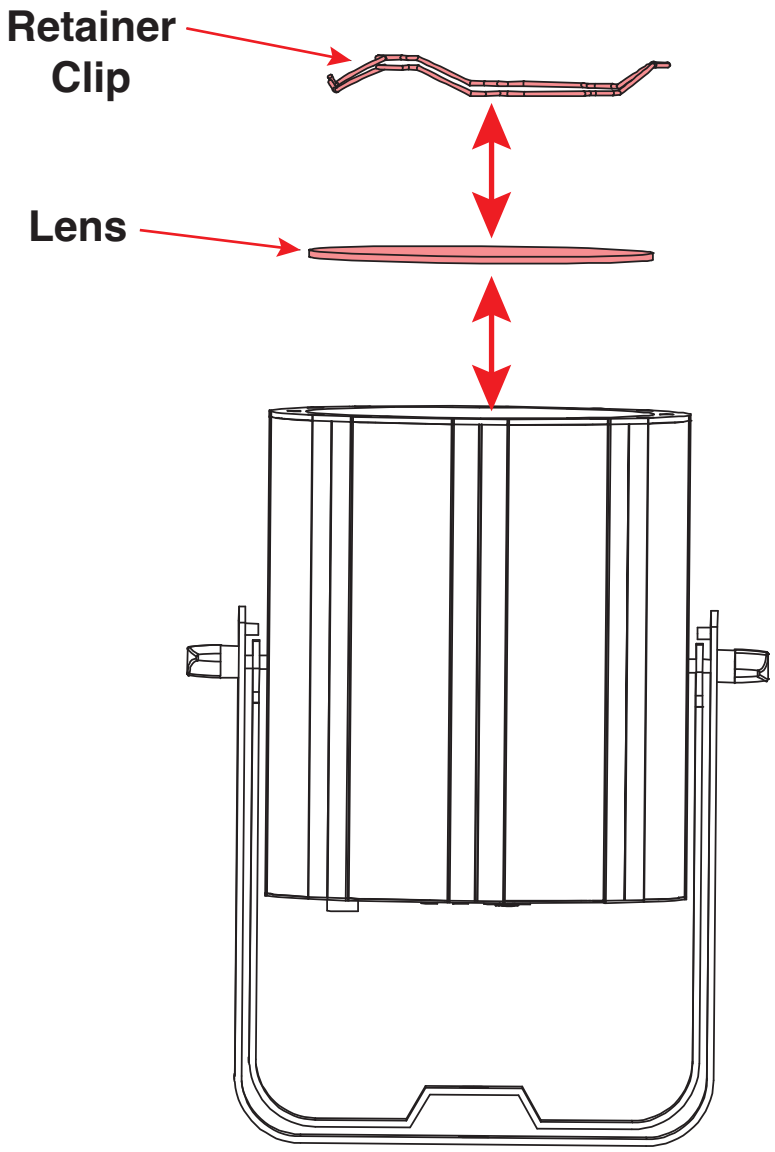
MAKE SURE THAT THE TRIPOD LEGS AND ALL TELESCOPING ELEMENTS OF THE TRIPOD STAND ARE LOCKED IN PLACE BEFORE INSTALLING THE DEVICE ATOP THE STAND!

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

ACCESSORY INSTALLATION

Lenses

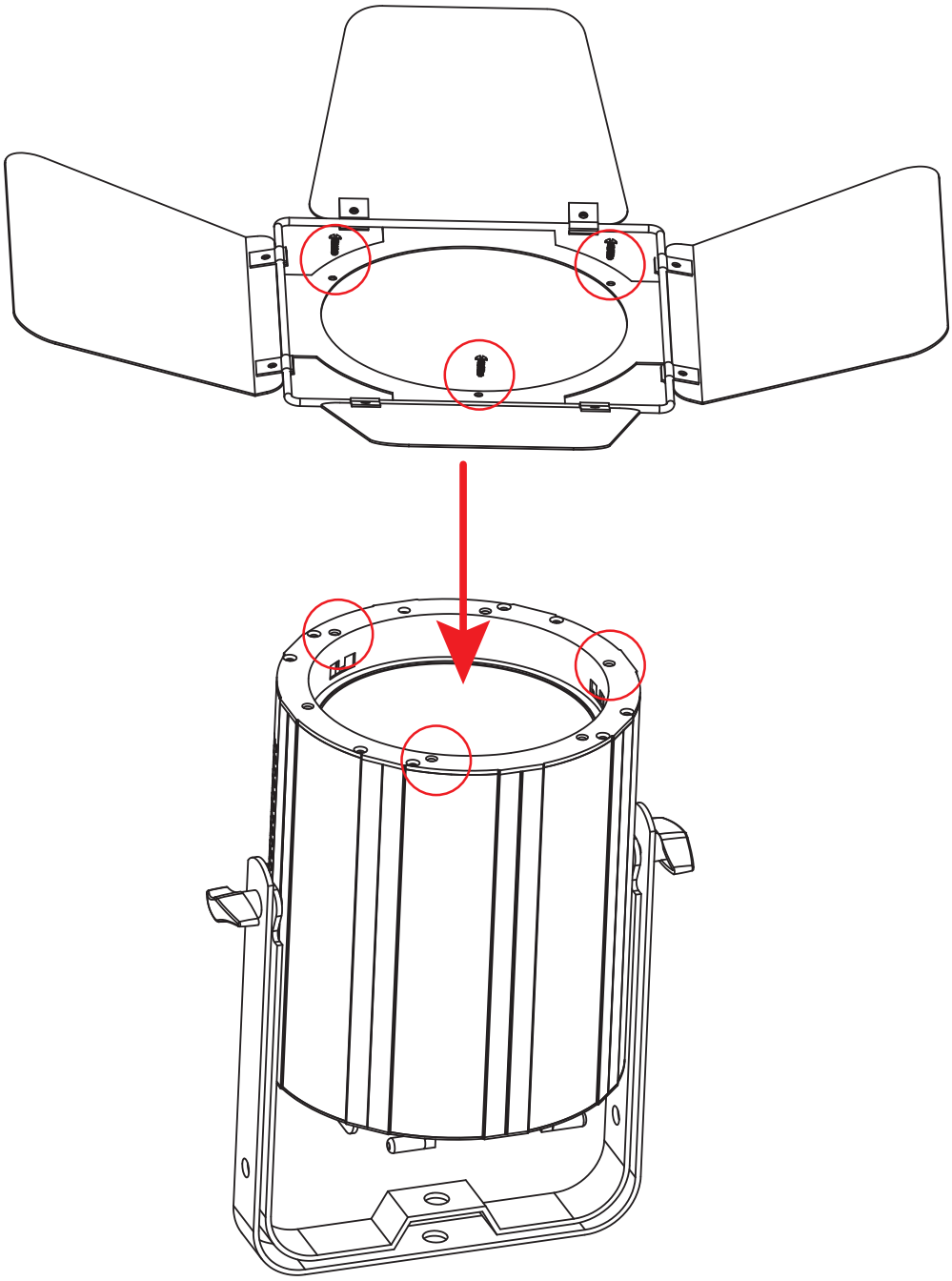
Two interchangeable lenses (40-degree and 50-degree) are included with this fixture. To change lenses, carefully remove the retainer clip from the inside of the lens frame, being careful not to scratch or otherwise damage the lens that is fitted. Remove the lens and replace with the new lens, and install the retainer clip to secure in place.



ACCESSORY INSTALLATION

Barndoors

This fixture can be fitted with an optional barndoor assembly. To install this accessory, align the three (3) mounting holes on the base of the barndoor assembly with matching mounting holes on the fixture's lens frame. Insert the fasteners and tighten to secure the barndoor assembly in place.



REMOTE DEVICE MANAGEMENT (RDM)

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

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

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

FIXTURE RDM INFORMATION:

RDM Code	Device ID	Device Model ID	Personality ID
1900	00000-1869F	4801	5Ch, 8Ch-A, 8Ch-B, 9Ch, 10Ch-A, 10Ch-B, 12Ch, 13Ch, 16Ch, 20Ch

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

The following parameters are accessible in RDM on this device:

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

ARIA SETUP

2GHZ Versus Sub-Gig (GHz) Frequencies:

Sub-GHz frequencies provide superior reliability and range compared to higher frequencies, making them perfect for consistent communication across vast distances or in difficult conditions. Devices operating in the sub-GHz range, which refers to frequencies below 1 GHz, can transmit signals over significant distances and can penetrate physical barriers such as walls and buildings more effectively. Additionally, these frequencies experience less interference compared to those in the heavily congested 2.4-GHz band, which is commonly used by wireless devices.

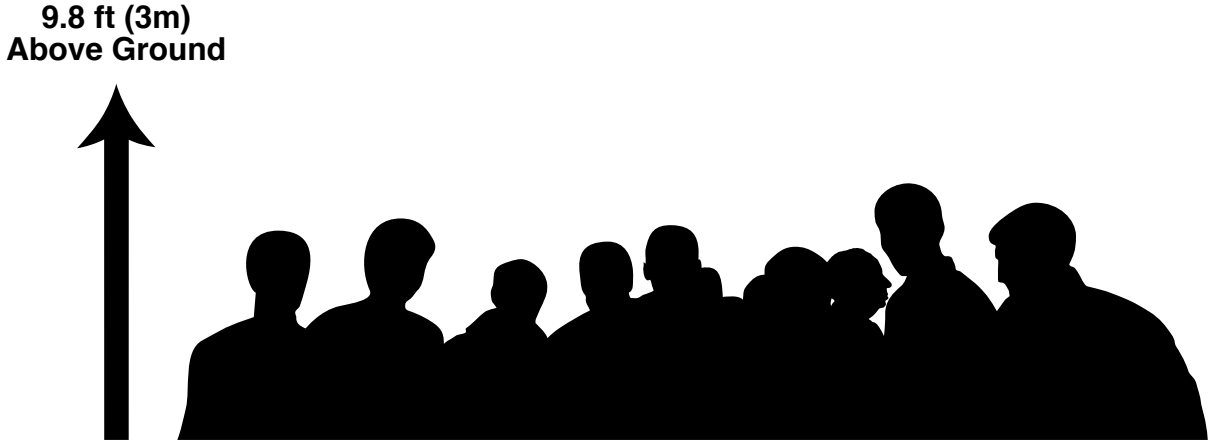
If an application demands high data rates and more bandwidth in urban or densely populated areas where interference management is feasible, the 2.4 GHz frequency is a suitable choice. On the other hand, for applications requiring long-range communication and better obstacle penetration, particularly in rural or industrial settings with fewer regulatory constraints, a sub-GHz frequency (<1 GHz) is a better option.

Installation Recommendations:

With the many factors that affect and/or interrupt a wireless signal such as walls, glass, metal, objects, and people, it is highly recommended to:

- Install devices a minimum of 9.8 ft. (3m) above audiences and/or ground level where practical.
- Adjust the wireless antenna in a vertical upright position
- Position devices in direct line of sight of the controlling device

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

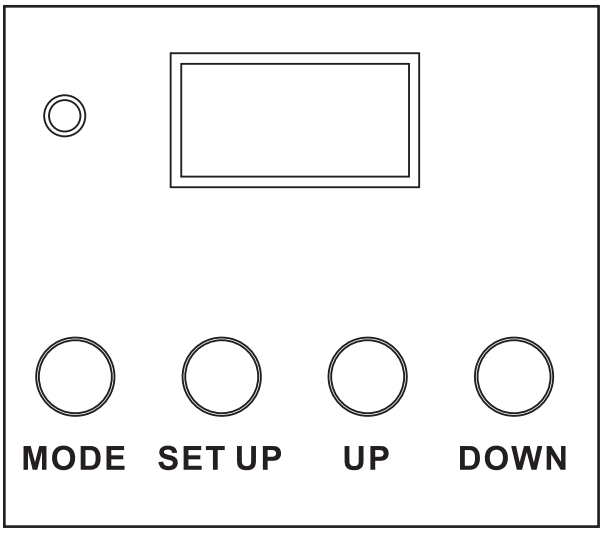


By default, Aria functionality is switched Off. To access this fixture's Aria capabilities, use the system menu to navigate to ***Personality > Aria > Aria Enable***, and toggle this setting to ON. Aria functionality should now be enabled.

CONTROL PANEL

The fixture includes an easy to navigate system menu control panel display where all necessary settings and adjustments are made.

- **MODE**: Scroll through main menu options.
- **UP**: Scroll up in currently displayed menu.
- **DOWN**: Scroll down in currently displayed menu.
- **SETUP**: Select an option or confirm a selection.



SCREEN LOCK

This fixture includes a display lock feature which automatically shuts off the display screen after a certain period of inactivity. This feature is OFF by default, which means that the display will always remain on regardless of inactivity, but can be configured to kick in after up to 10 minutes of inactivity. This setting can be configured by using the system menu to navigate to Personality > Display > Lock. To unlock the controls, press and hold the MODE button until the controls unlock.

SYSTEM MENU

MAIN MENU	OPTIONS/VALUES (default values in **bold**)		
DMX Set	Address	**001** - 512	
	Ch Mode	5ch	
		8ch-A	
		8ch-B	
		9ch	
		10ch-A	
		10ch-B	
		12ch	
		13ch	
		16ch	
		20ch	
	No DMX	**Hold**	
		Blackout	
		Manual	
		Int Prog	
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
		2.4 Ghz CH	**00** - 15
		Sub Gig CH	**00** - 09
		Mesh	**On** / Off
		Bluetooth Enable	**On** / Off
	RDM	On / **Off**	
	Dim Mode	**Standard**	
		Stage	
		TV	
		Archi	
		Theatre	
		Stage 2	
		Dim Speed	0.1s - 10s
	Dim Curve	Linear	
		Square	
		Inv Squa	
		S Curve	
	LED Rfrsh	900, 1000, 1100, **1200,** 1300, 1400, 1500, 2500, 4000, 5000, 10k, 15k, 20k, 25k	
	IR Function	**On** / Off	

SYSTEM MENU

MAIN MENU	OPTIONS/VALUES (default values in **bold**)			
Personality (continued)	IR Button Colors	Button 0	Red	000 - 255
			Green	000 - 255
			Blue	000 - 255
			Amber	000 - 255
			Lime	000 - 255
		Button 1	Red	000 - 255
			Green	000 - 255
			Blue	000 - 255
			Amber	000 - 255
			Lime	000 - 255
		...	...	...
		Button 15	Red	000 - 255
			Green	000 - 255
			Blue	000 - 255
			Amber	000 - 255
			Lime	000 - 255
	Display	Save Dlay	1 - **10**	
		Lock	**Off,** 1min - 10min	
		Rotate Display 180°	Yes	
			No	
			Auto	
		Rotate	**dISP** / dSIP	
	Temperature Unit	°C / °F **(°C is default for EU, °F is default for US)**		
	Service	Passcode = 050	Calibrate	Red 000 - 255
				Green 000 - 255
				Blue 000 - 255
				Amber 000 - 255
				Lime 000 - 255
			DMX LED	**Enable** / Disable
			Restore	Yes / **No**
Manual	Red	**000** - 255		
	Green	**000** - 255		
	Blue	**000** - 255		
	Amber	**000** - 255		
	Lime	**000** - 255		
	Clr Macro	**000** - 255		
	Clr Temp	000 - 255		
	Clr Temp Pr	**Off**, 2300k, 2400k, 2500k...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		

SYSTEM MENU

MAIN MENU	OPTIONS/VALUES (default values in **bold**)			
Int Progs	Prog 0	Speed	000 - 255	
		Fade	000 - 255	
		Sound	On / **Off**	
	Prog 1	Speed	000 - 255	
		Fade	000 - 255	
		Sound	On / **Off**	
	...	...	...	
	Prog 13	Speed	000 - 255	
		Fade	000 - 255	
		Sound	On / **Off**	
Info	Hours	Pwr On Hr 1	xxxxxx Hrs	
		Pwr On Hr 2	xxxxxx Hrs	
		Pwr On Rst	Passcode = 050	
	Temp	xxx°	xxx F / xxx C	
		Max Temp 1	xxx F / xxx C	
		Max Temp 2	xxx F / xxx C	
		Temp Rst	Yes / No	Passcode = 050
	DMX Value	Red		
		Green		
		...		
		Auto Prog		
	RDM UID	xxxxxx		
	Error Logs	Fixture Errors	List errors one by one	
		Reset Error Log	Yes / No	Passcode = 050
	Soft Vers	x.xx		

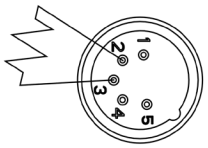
DMX SETUP

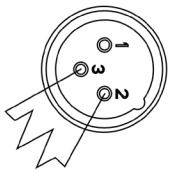
DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture 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 using 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 device can be controlled via DMX-512 protocol, and features multiple DMX channel modes. Your unit and your DMX controller require a 5-pin XLR connector for data input and data output. 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 on the other. Also remember that DMX cable must be daisy chained and cannot be split.

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 decrease the chances 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 SETUP

DMX ADDRESSING

All fixtures should be given a DMX starting address when operating with a DMX controller, in order to ensure that 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 this case, please note that 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 “listen” starting at 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.

As an example, when operating this device in 5 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 6 (1 + 5), the third unit to 11 (1 + 5 + 5), and so on. (See the chart below for more details.)

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
5 Channels	1	6	11	16
8A/B Channels	1	9	17	25
9 Channels	1	10	19	28
10A/B Channels	1	11	21	31
12 Channels	1	13	25	37
13 Channels	1	14	27	40
16 Channels	1	17	33	49
20 Channels	1	21	41	61

DMX TRAITS

CHANNEL										DMX VALUES	FUNCTION
5 CH	8A CH	8B CH	9 CH	10A CH	10B CH	12 CH	13 CH	16 CH	20 CH		
1	1		1	1	1	1	1	1	1		**Red**
										0-255	0 - 100%
				2					2		**Red Fine**
										0-255	Red fine adjustment, 16 bit
2	2		2	3	2	2	2	2	3		**Green**
										0-255	0 - 100%
				4					4		**Green Fine**
										0-255	Green fine adjustment, 16 bit
3	3		3	5	3	3	3	3	5		**Blue**
										0-255	0 - 100%
				6					6		**Blue Fine**
										0-255	Blue fine adjustment, 16 bit
4	4		4	7	4	4	4	4	7		**Amber**
										0-255	0 - 100%
				8					8		**Amber Fine**
										0-255	Amber fine adjustment, 16 bit
5	5		5	9	5	5	5	5	9		**Lime**
										0-255	0 - 100%
				10					10		**Lime Fine**
										0-255	Lime fine adjustment, 16 bit
		1			6	6	6	6	11		**Color Macros**
										0-255	Refer to Color Macros section of this manual
		2	6		7		7	7	12		**Color Temperature**
										0-255	2300K - 9900K Linear
											Shutter, Strobe
										0-31	LEDs Off
										32-63	LEDs On
										64-95	Strobe effect, slow to fast
	6	3	7		8	7	8	8	13	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
	7	4	8		9	8	9	9	14		**Dimmer Intensity**
										0-255	Intensity 0 - 100%
	8	5	9		10	9	10	10			**Dimmer Fine**
										0-255	Dimmer fine adjustment, 16 bit

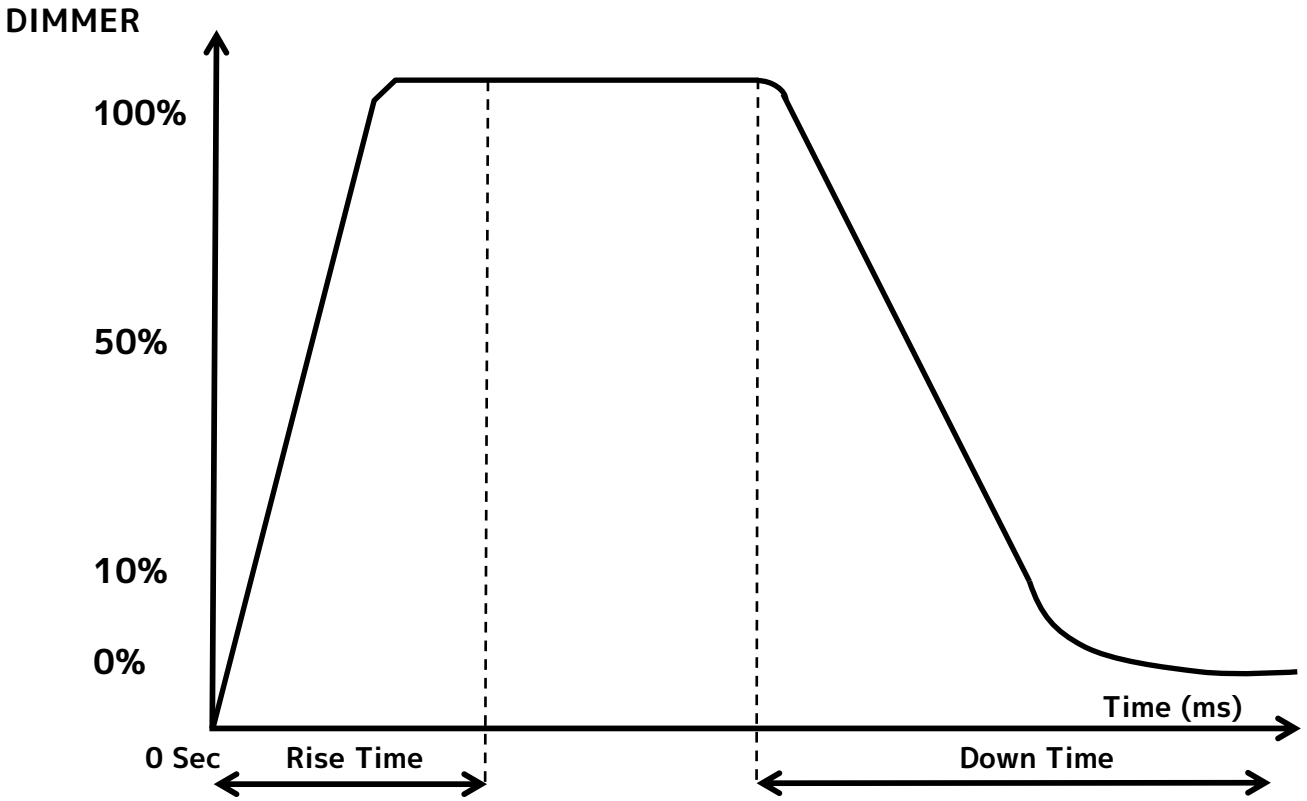
DMX TRAITS

CHANNEL										DMX VALUES	FUNCTION
5 CH	8A CH	8B CH	9 CH	10A CH	10B CH	12 CH	13 CH	16 CH	20 CH		
											Auto Programs
										0-10	Off
										11-26	Program 1
										27-43	Program 2
										44-60	Program 3
										61-76	Program 4
										77-93	Program 5
										94-110	Program 6
						10		11	15	111-126	Program 7
										127-143	Program 8
										144-160	Program 9
										161-176	Program 10
										177-193	Program 11
										194-210	Program 12
										211-226	Program 13
										227-255	No Function
											Auto Programs Speed
						11		12	16	0-255	Slow to fast
											Auto Programs Fade
						12		13	17	0-255	Least fade to most fade
											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
											Dim Speed
										141	0.1 sec
										142	0.2 sec
		6					11	14	18	143	0.3 sec
										144	0.4 sec
										145	0.5 sec
										146	0.6 sec
										147	0.7 sec
										148	0.8 sec
										149	0.9 sec
										150	1.0 sec
										151	1.5 sec
										152	2.0 sec
										153	3.0 sec
										154	4.0 sec

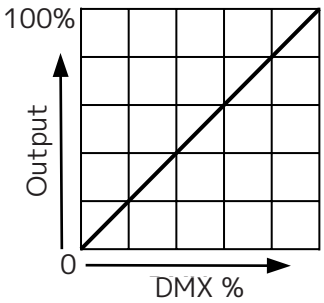
DMX TRAITS

CHANNEL										DMX VALUES	FUNCTION
5 CH	8A CH	8B CH	9 CH	10A CH	10B CH	12 CH	13 CH	16 CH	20 CH		
											Dim Speed (continued)
										155	5.0 sec
										156	6.0 sec
										157	7.0 sec
		6					11	14	18	158	8.0 sec
										159	9.0 sec
										160	10.0 sec
										161-255	Default to unit setting
											Dim Curves
										0-20	Square
										21-40	Linear
		7					12	15	19	41-60	Inv Squa
										61-80	S Curve
										81-255	No Function
											Refresh Rate
										0-15	Default to unit setting
										16-30	900 Hz
										31-45	1000 Hz
										46-60	1100 Hz
										61-75	1200 Hz
										76-90	1300 Hz
										91-105	1400 Hz
		8					13	16	20	106-120	1500 Hz
										121-135	2500 Hz
										136-150	4000 Hz
										151-165	5000 Hz
										166-180	10000 Hz
										181-195	15000 Hz
										196-210	20000 Hz
										211-225	25000 Hz
										226-255	No Function

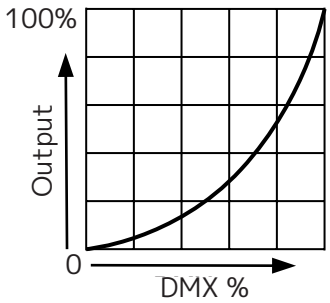
DIMMER MODES AND CURVES



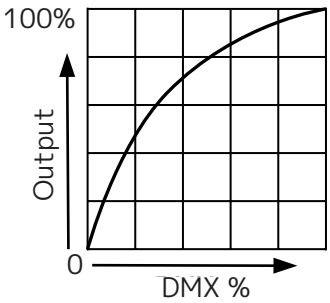
Dimming Curve Ramp Effect	0 sec Fade Time		1 sec Fade Time	
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660



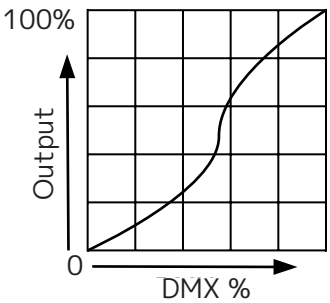
LINEAR



SQUARE



INVERSE SQUARE



S-CURVE

COLOR TEMPERATURE

DMX VALUE	COLOR TEMPERATURE (K)
0-15	No Function
16-31	2300
32-47	2600
48-63	2800
64-79	3100
80-95	3400
96-111	3800
112-127	4100
128-143	4500
144-159	4900
160-175	5500
176-191	6000
192-207	7000
208-223	8000
224-239	9000
240-255	9900

COLOR MACRO CHART

COLOR MACRO NO.	DMX VALUE	COLOR TEMP (K > 90 CRI)	RED	GREEN	BLUE	AMBER	LIME
Off	0	N/A	0	0	0	0	0
1	1-4	N/A	0	255	255	1	116
2	5-8	N/A	127	255	212	1	124
3	9-12	N/A	151	125	3	255	43
4	13-16	N/A	0	0	255	1	0
5	17-20	N/A	138	43	226	1	177
6	21-24	N/A	223	108	7	255	77
7	25-28	N/A	165	42	42	1	200
8	29-32	N/A	95	158	160	44	71
9	33-36	N/A	171	36	0	120	255
10	37-40	N/A	127	255	0	1	255
11	41-44	N/A	210	105	30	1	22
12	45-48	N/A	255	15	18	255	174
13	49-52	N/A	100	149	237	3	0
14	53-56	N/A	255	0	10	255	144
15	57-60	N/A	220	20	60	1	0
16	61-64	N/A	0	255	255	0	12
17	65-68	N/A	6	0	139	1	3
18	69-72	N/A	0	139	139	2	5
19	73-76	N/A	0	111	0	1	24
20	77-80	N/A	255	0	2	21	3
21	81-84	N/A	188	0	3	255	44
22	85-88	N/A	255	12	0	77	62
23	89-92	N/A	255	130	25	229	30
24	93-96	N/A	140	0	139	2	135
25	97-100	N/A	255	140	0	1	0
26	101-104	N/A	153	50	204	1	5
27	105-108	N/A	143	188	143	1	35
28	109-112	N/A	72	61	139	4	2
29	113-116	N/A	0	206	209	2	2
30	117-120	N/A	255	0	4	11	8
31	121-124	N/A	148	0	211	5	2
32	125-128	N/A	255	20	147	1	0
33	129-132	N/A	0	191	255	2	3
34	133-136	N/A	160	0	26	0	4
35	137-140	N/A	34	139	34	1	1
36	141-144	N/A	255	0	255	2	0

COLOR MACRO CHART

COLOR MACRO NO.	DMX VALUE	COLOR TEMP (K > 90 CRI)	RED	GREEN	BLUE	AMBER	LIME
37	145-148	N/A	255	215	0	1	1
38	149-152	N/A	5	255	190	3	11
39	153-156	N/A	12	255	62	95	49
40	157-160	N/A	5	209	255	15	170
41	161-164	N/A	0	5	128	5	5
42	165-168	N/A	255	105	180	2	1
43	169-172	N/A	7	255	25	70	77
44	173-176	N/A	147	164	212	0	2
45	177-180	N/A	2	255	15	3	19
46	181-184	N/A	0	38	86	0	0
47	185-188	N/A	255	0	5	121	10
48	189-192	N/A	5	148	209	5	19
49	193-196	N/A	1	255	62	93	44
50	197-200	2300K	150	4	4	255	255
51	201-204	2600K	140	15	8	255	255
52	205-208	2800K	130	25	10	255	255
53	209-212	3100K	110	30	15	255	255
54	213-216	3400K	100	50	20	255	255
55	217-220	7000K	75	110	70	255	255
56	221-224	8000K	75	125	85	255	255
57	225-228	3800K	90	60	25	255	255
58	229-232	4100K	80	70	30	255	255
59	233-236	4500K	80	85	38	255	255
60	237-240	4900K	80	95	46	255	255
61	241-244	5500K	75	110	55	255	255
62	245-248	6000K	75	110	70	255	255
63	249-252	9000K	65	45	97	255	255
64	253-255	9900K	55	165	117	255	255

IR REMOTE CONTROL

This unit can be operated using the ADJ UC IR24 remote control. **The unit can only be controlled when it has been set to Primary mode. The unit will NOT respond to commands when it has been set to Secondary mode.** When using the UC IR to control multiple units that are operating in primary/secondary mode, follow these steps to set up the units:

1. Power on the unit, and press MODE to scroll to the “Personality” menu, then press SETUP.
2. Use the UP and DOWN buttons to scroll to “Prim/Sec Mode”. Press SETUP, then use the UP and DOWN buttons to toggle between “Primary” and “Secondary”.
3. Press SETUP to confirm and return to the “Personality” menu.
4. Use UP and DOWN to scroll to “IR Function” and press SETUP.
5. Use the UP and DOWN buttons to toggle this setting to “On”, then press SETUP to confirm.

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.

CONTROLS

- **ON and OFF:** When the ON button is pressed, the lighting fixture shall return to its last running state. When the OFF button is pressed, the unit shall go into stand by mode in a blackout state.
- **STROBE:** The unit shall strobe the selected color or program. The strobe rate can be adjusted with the + / - buttons, or by using buttons 1-15 to go directly to a preset strobe speed, where 1 is the slowest and 15 is the fastest.
- **SOUND:** Triggers the selected program steps based on sound input. The microphone sensitivity can then be adjusted with the +/- buttons.
- **COLOR:** When the color button is pressed, preset static colors can be selected using buttons 0-15. The intensity for the set color can be adjusted with the +/- buttons.
- **PROGRAM:** When the program button is pressed, internal programs can be selected by pressing buttons 1-13. The selected program’s speed can be adjusted with the+/- buttons.
- **+ and - buttons:** These buttons are used to adjust strobe rate, mic sensitivity, brightness intensity, or program run speed, depending on which mode is active. Single-level adjustments can be made with individual button presses, while large adjustments can quickly be made by pressing and holding.
- **0-15 buttons:** These buttons are used to select preset static colors or internal programs, depending on which mode is active. Colors stored in buttons 0-15 can be edited from the units menu if desired.



IR DEFAULT VALUES

BUTTON	RED	GREEN	BLUE	AMBER	LIME
0	0	0	0	0	255
1	255	0	0	0	0
2	0	255	0	0	0
3	0	0	255	0	0
4	231	68	0	0	0
5	0	117	58	0	0
6	17	0	75	0	0
7	255	83	0	63	0
8	0	109	70	0	0
9	32	0	75	22	0
10	0	0	0	255	0
11	0	114	160	0	0
12	82	0	35	0	0
13	255	255	0	255	0
14	0	75	136	0	0
15	81	0	35	0	0

EDITING RGBAL IR BUTTON VALUES

These fixtures allow the user to create custom RGBAL values and assign them to the numbered keys (0-15) on the remote control. Follow the steps below:

1. In the main system menu, press MODE to navigate to “Personality,” then press SETUP. Use the UP and DOWN buttons to scroll to “IR Button Colors,” then press SETUP again.
2. Use the UP and DOWN buttons to scroll to the number of the remote button that you would like to use. Options range from “Button 0” to “Button 15.” Press SETUP to select the button shown on the display screen.
3. Create a custom color for the button you have selected by using the UP and DOWN buttons to scroll through the color component options (Red, Green, Blue, Amber, or Lime). Press SETUP to select a color component option, then use the UP and DOWN buttons to adjust the intensity of that color component option. Selectable values range from 000 to 255. Repeat this process until you have set the desired Red, Green, Blue, Amber, and Lime intensities to create your custom color.

NOTE: Once you have created and assigned a custom RGBAL value to a remote button, the default color for the remote button will be overridden. This means that the output color of the fixture may no longer resemble the color shown on the remote button. The only way to return to the default RGBAL value is to reset the unit to the default factory settings by navigating to Personality > Service > Factory Restore.

NOTE: If multiple units have been linked in a primary-secondary set up, the custom RGBA values only need to be set up on the primary unit. The custom RGBA settings will carry over automatically to any secondary units in the system.

DAISY CHAIN POWER LINKING

These units have the capability to be daisy chained together via the power in/out ports. **The maximum number of units that can be linked together in this manner is as follows:**

- **5 units maximum when running on 120V power.**
- **10 units maximum when running on 230V power.**

DO NOT EXCEED THE NUMBER OF UNITS LISTED ABOVE.

DO NOT MIX MAKE AND MODEL TYPES WHEN DAISY CHAINING! All units that are connected in this manner must be of the same make and model type.

CLEANING AND MAINTENANCE



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

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

MAINTENANCE

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

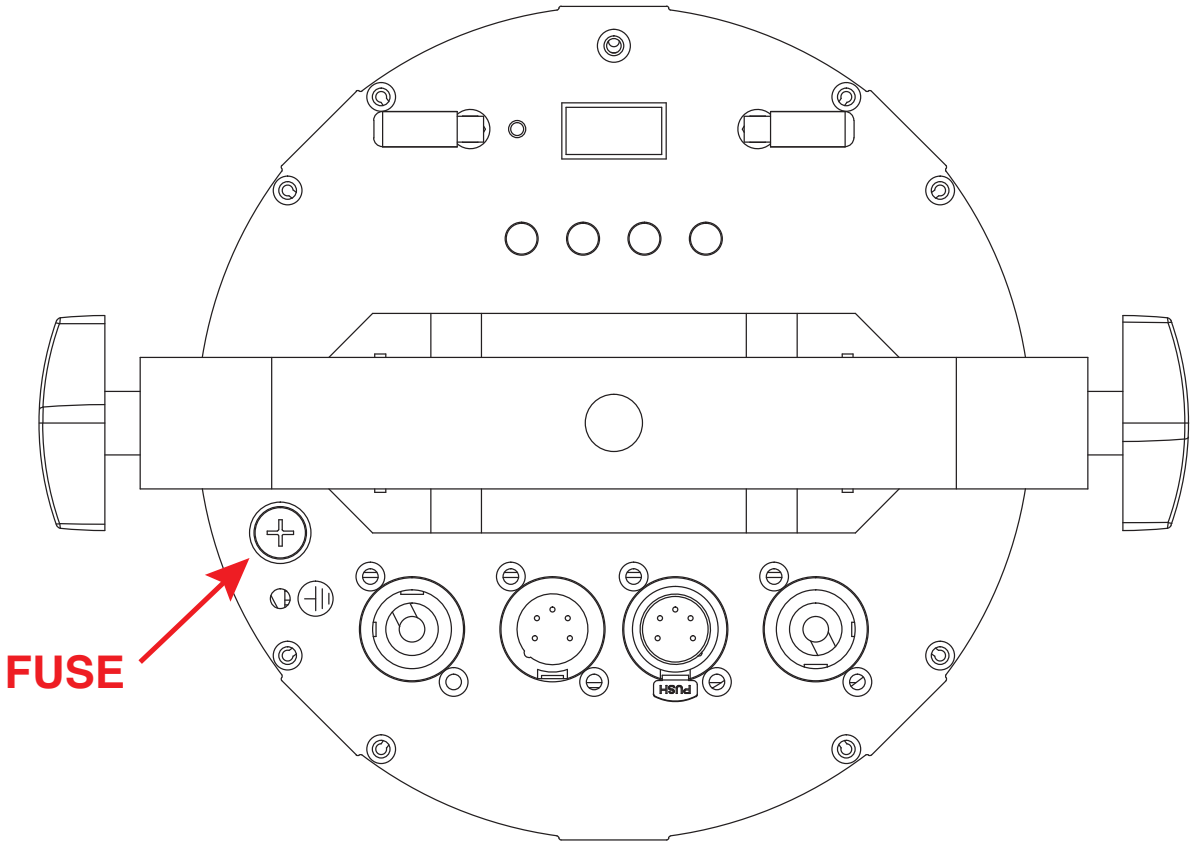
Please refer to the following points during routine inspections:

- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware, and rigging points
- (ceiling, suspension, trussing). Deformations in the housing could allow for dust or liquids to enter into the fixture. Damaged rigging points or unsecured rigging could cause fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue, or sediments.

NEVER remove the ground prong from the power cable.

FUSE REPLACEMENT

This device features a replaceable fuse. To replace, disconnect the device from the power source, then use a screw driver to unscrew the fuse holder located near the power port. Remove the bad fuse and replace with a new one, then screw the fuse holder back in. ***Replace only with a new fuse of the same T3A 250V rating.***



SPECIFICATIONS

OPTICAL:
- Light Source: 1x 200-Watt COB (Chip on Board), RGBAL (Red, Green, Blue, Amber & Lime), LED Engine
- LED Engine Life Rating: Approximately 50,000 hrs.
- CRI: >90
- Tunable White Color Temperature: 2300~9900K
- 80-degree beam angle
- Includes lens kit to change to 40-degrees or 50-degrees beam angle

FEATURES:
- Embedded Aria X2 Wireless Management System
- Primary / Secondary Mode
- Flicker Free operation (No flickering on camera)
- Produces powerful, smooth RGBAL color mixing with rich palettes of color
- Scissor yoke allows fixture to be mounted on truss or set on the ground
- Optional Barn Doors (BAR001) sold separately

CONTROL:
- 10 DMX Channel modes (5CH, 8CH-A, 8CH-B, 9CH, 10CH-A, 10CH-B, 12CH, 13CH, 16CH, 20CH)
- Linear color temperature control via DMX
- Built-in color temperature presets accessible via DMX
- 64 built-in color macros
- 4-button OLED digital DMX display on rear panel
- Compatible with the ADJ UC IR24 remote control (included)
- LED pulse and strobe effect
- Electronic Dimming: 0 - 100%
- 6 selectable Dim Modes (Standard, Stage, TV, Architectural, Stage 2 & Theatre)
- 4 selectable Dim Curves (Square, Linear, Inv. Squa & S.Curve)
- Adjustable selectable Refresh Rate (14 presets from 900 – 25,000Hz)

CONNECTIONS:
- 5-pin XLR connectors for DMX data linking (5-Pin DMX only as of June 2023)
- Indoor locking power In & Out connections to daisy chain power

ELECTRICAL:
- Auto sensing power supply: AC 100V/60Hz - 240V/50Hz
- Power Draw: 175W max
- Daisy chain up to 5 fixtures (120V) or 10 fixtures (230V) maximum

DIMENSIONS / WEIGHT:
- Dimensions with bracket (LxWxH): 13” x 10.3” x 7.5” / 330mm x 261mm x 190mm
- Dimensions without bracket (LxWxH): 8.6” x 7.5” x 7.5” / 219mm x 190mm x 190mm
- Weight: 9.45 lbs. / 4.30 kg.

ACCESSORIES:
- BAR001 - COB Cannon Wash Barn Doors

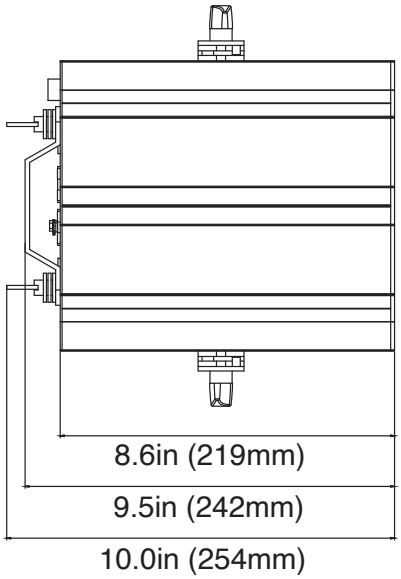
RATING / APPROVALS:
- cETLus I FCC

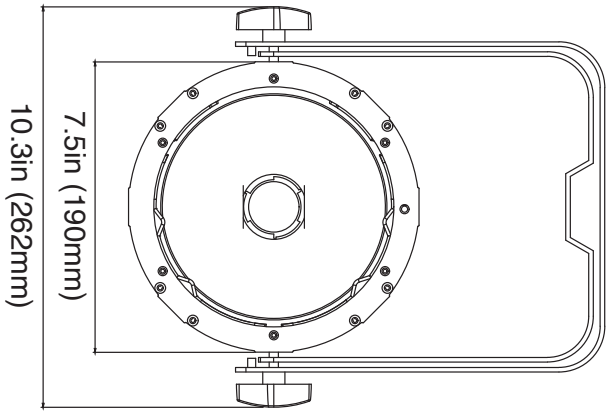
Intertek 4002034

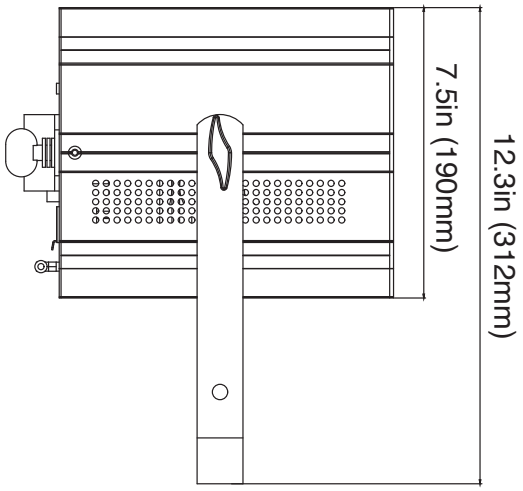
Specifications and documentation subject to change without notice.

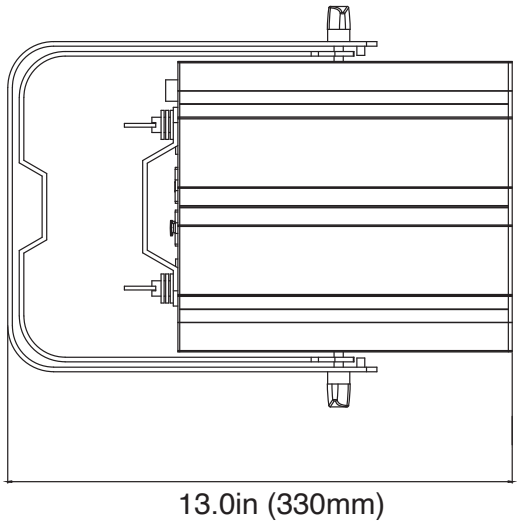
DIMENSIONAL DRAWINGS

Dimensions are not drawn to scale.









FCC STATEMENT

Please note that changes or modifications to this product that have not been expressly approved by the party responsible for compliance may 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.

