

ENCORE DBX

User Manual

©2025 ADJ Products, LLC all rights reserved. Information, specifications, diagrams, images, and instructions herein are subject to change without notice. ADJ Products, LLC logo and identifying product names and numbers herein are trademarks of ADJ Products, LLC. Copyright protection claimed includes all forms and matters of copyrightable materials and information now allowed by statutory or judicial law or hereinafter granted. Product names used in this document may be trademarks or registered trademarks of their respective companies and are hereby acknowledged. All non-ADJ Products, LLC brands and product names are trademarks or registered trademarks of their respective companies.

ADJ Products, LLC and all affiliated companies hereby disclaim any and all liabilities for property, equipment, building, and electrical damages, injuries to any persons, and direct or indirect economic loss associated with the use or reliance of any information contained within this document, and/or as a result of the improper, unsafe, insufficient and negligent assembly, installation, rigging, and operation of this product.

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
07/28/2025	1.0	1.01	1 / 2-A / 2-B / 4 / 5 / 8 / 10 / 11 / 12-A / 12-B / 16 / 18 / 19 / 21 / 22 / 25 / 26 / 29 / 31 / 35 / 41 Ch	Initial Release

CONTENTS

Introduction	4
Limited Warranty (USA Only)	5
Warranty Registration Features	6
IP65 Rated	7
Safety Precautions	8
Overview	10
Installation Guidelines	11
Remote Device Management (RDM)	17
Control Panel	18
System Menu	19
Aria	23
DMX Set Up	24
DMX Traits (Linked Cell Control)	27
DMX Traits (Separate Cell Control)	31
Pixel Flip	35
RGB Macros	36
Color Temperature Table	38
Dim Modes and Curves	39
Primary-Secondary Set Up Multi Unit Power Linking	40
Maintenance Guidelines	41
Torque Settings for Screws	42
IP Test Parameters	43
Error Codes Ordering Information	44
Dimensional Drawings	45
Specifications	46
FCC Statement	47

INTRODUCTION

Unpacking: Thank you for purchasing the Encore DBX 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: Encore DBX is a dynamic effect fixture featuring a 5-color LED dual-lens blinder/strobe and RGB background LEDs for stunning visual effects. Powered by two 150W RGBAW LEDs, it offers flexible control, variable white color temperatures, and rugged IP65-rated durability. **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 | support@adj.com

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

Voice: +31 45 546 85 60 | Fax: +31 45 546 85 96 | support@adj.eu

ADJ PRODUCTS LLC USA

6122 S. Eastern Ave. Los Angeles, CA. 90040

323-582-2650 | www.adj.com | info@adj.com

ADJ SUPPLY Europe B.V

Junostraat 2 6468 EW Kerkrade, The Netherlands

+31 (0)45 546 85 00 | Fax +31 45 546 85 99

www.adj.eu | info@adj.eu

ADJ PRODUCTS GROUP Mexico

AV Santa Ana 30 Parque Industrial Lerma, Lerma, Mexico 52000

+52 (728) 282-7070

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 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, Strobos, 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

- 2 Cell, Five Color (RGBAW) LED Blinder
- Background RGB LEDs
- Individually Controllable Cells
- Built-In Cell Programs
- Built-In Background LED Programs
- Variable White Color Temperature Control (2,700K ~ 6,500K)
- User Selectable LED Refresh Rates (900Hz ~ 25K)
- 6 User Selectable Dim Modes
- 4 User Selectable Dim Curves
- Electronic Strobe (1 ~ 20Hz)
- Electronic Dimming
- Aria X2 Wireless Management System

INCLUDED ITEMS

- Outdoor Locking Power Cable (x1)
- Safety Cable (x1)

IP65 RATED

The International Protection (IP) rating system is commonly expressed as “**IP**” (Ingress Protection) followed by two numbers (i.e. IP65), where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture, and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. An **IP65** rated lighting fixture is designed and tested to protect against the ingress of dust (6), and low-pressure water jets from any direction (5).

NOTE: THIS FIXTURE IS INTENDED FOR TEMPORARY OUTDOOR USE ONLY!

Maritime/Coastal Environment Installations: A coastal environment is seaside adjacent, and caustic to electronics through exposure to atomized salt-water and humidity, whereas maritime is anywhere within 5-miles of a coastal environment.



NOT suitable for maritime/coastal environment installations. Installing this fixture in a maritime/coastal environment may cause corrosion and/or excessive wear to the interior and/or exterior components of the fixture. Damages and/or performance issues resulting from installation in a maritime/coastal environment will void the manufactures warranty, and will NOT be subject to any warranty claims and/or repairs.

Maritime installations require additional preparation, and additional service intervals may be needed given the maritime use. In general, IP ratings presuppose freshwater conditions VS maritime conditions, which are typically more “caustic” to IP fixtures (both internally and externally). A duty-cycle may also be needed when units are not in use. During times of high humidity and colder temperatures, condensation may occur internally so the fixture may require a duty-cycle to bring it up to running temperature, allowing any accumulation of moisture to be expelled via the vent valve. Recommendations can change based on installation environmental circumstances. A waterproof dome or similar device is recommended for use in permanent outdoor installations. When using a dome, refer to manufacturer recommendations for duty-cycle.

NOTE: NOT ALL FEATURES LISTED ARE AVAILABLE ON ALL FIXTURES; THE FOLLOWING INSTRUCTIONS MAY NOT APPLY. CONTACT SUPPORT FOR ADDITIONAL DETAILS.

Exterior Maintenance: Inspect the exterior every 30-days. The unit must be powered off/disconnected. Inspect optics to determine if the lens is obstructed, then clean optics and chassis accordingly. Based on initial finding, schedule maintenance accordingly, keeping in mind that exterior maintenance will be required. Even if the luminaires are NOT in use, maintenance will still be needed given its location (exterior use). The use of a durable type of wax on the chassis is recommended since it will help prevent contaminant build up. Inspect both power and data lines for any signs of contaminants or corrosion. Periodically reapplying di-electric grease, especially in coastal environments. If any signs of corrosion/contaminants are present, clean thoroughly, and/or replace connectors, then reapply di-electric grease. Typically, this should be done annually, or any time an opportunity presents itself. As a preventive measure, annual replacement of both vent valves is recommended. The vent valve membrane can become contaminated and/or clogged causing improper venting of humidity within the luminaire. Inspect all mounting hardware as a precaution.

Interior Maintenance: Inspect the interior every 30-days. The unit must be powered off/disconnected.

- Inspect zoom/focus mechanism, clean optics, lubricate linear bearings (Krytox oil) as needed, inspect belts for wear
- Inspect all rotating effect wheels, manually rotate them, note any resistance
- Inspect all remaining rotating belts for any wear
- Inspect all fans, clean as needed, check rotation, check connections
- Inspect CMY module, manually move flags and check for signs of resistance, and if needed, clean guide rods first, then reapply a thin layer of grease (moly lube)
- Clean interior with low-volume compressed air, then clean optics prior to reassembly of head covers

Although the base has limited moving parts, the pan belt should also be inspected for wear. Remember to always perform an IP test anytime a cover is removed.

There is no specific time frame regarding the routine replacement of parts such as belts/stepper motors, PCBs, or LEDs. These items should only be replaced on an as needed bases, except for cooling fans, which should be replaced once the luminaries reach 10,000-hours. This is a prophylactic measure intended to keep the unit running as cool as possible, insuring proper function of all internal components. A complete service breakdown is available, please contact service@adj.com for any needed parts or manuals.

SAFETY PRECAUTIONS



PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.



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



**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!**

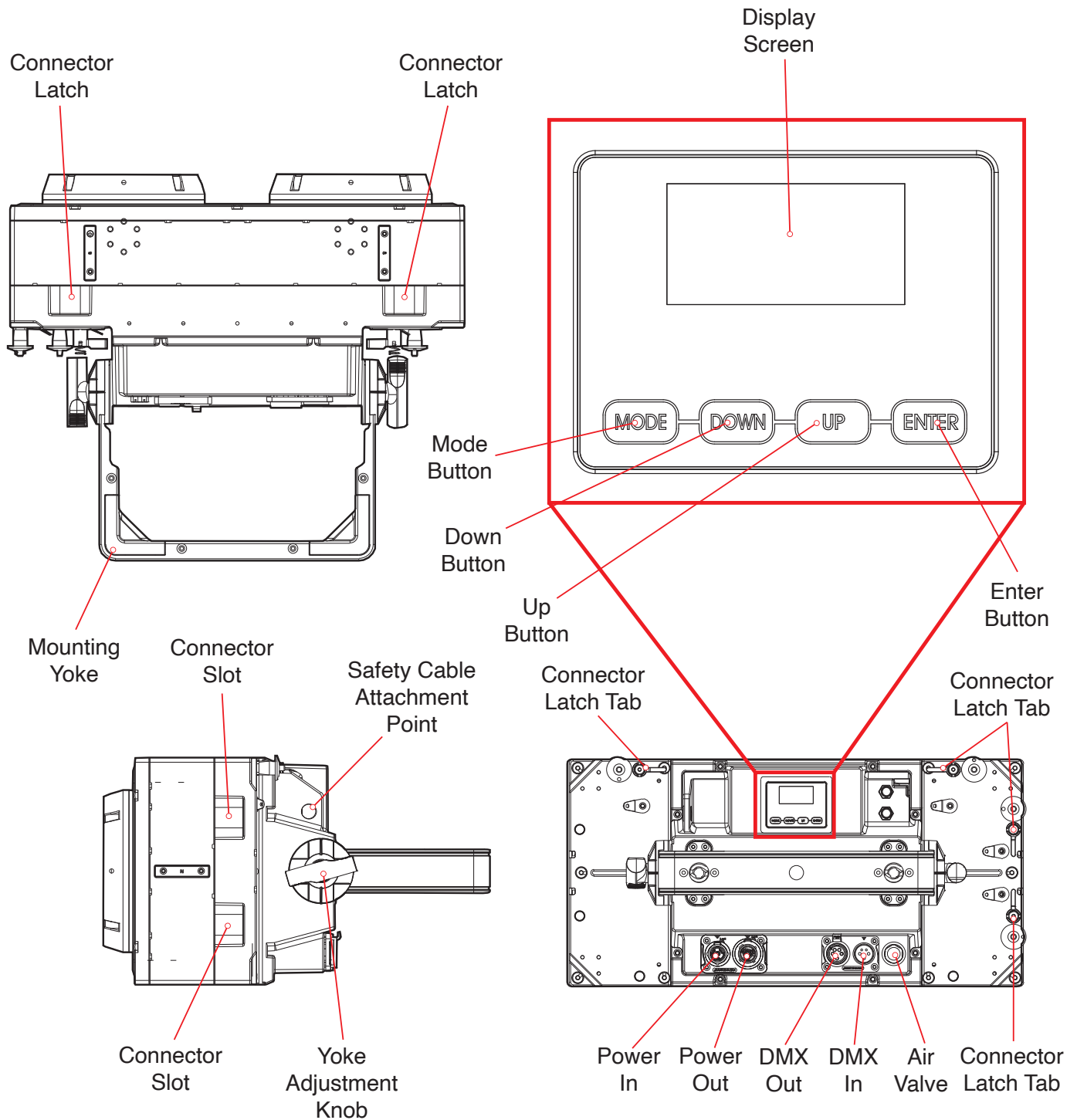


**MINIMUM DISTANCE TO OBJECTS IS 1.0 FEET (0.3 METER)
MINIMUM DISTANCE TO SURFACES IS 1.5 FEET (0.5 METER)
MINIMUM DISTANCE OF FLAMMABLE MATERIALS FROM THE SURFACE IS 3.2 FEET (1.0 METERS)
AMBIENT OPERATING TEMPERATURE IS -40°F TO 113°F (-40°C TO 45°C)**

SAFETY PRECAUTIONS

- ***Ambient operating temperature range is -40°F to 113°F (-40°C to 45°C)!***
- The lighting source contained in this fixture should be replaced only by the manufacturer, by authorized service personnel, or by a similarly qualified individual. This fixture is intended for professional use only.
- 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. 1.5 feet (0.5m) 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 1.5 feet (0.5m) between this device and a wall.
- DO NOT remove the cover for any reason.
- When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25mm, and always install fixture with an appropriately rated safety cable.
- Never plug this unit in to a dimmer pack.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point where they exit from the unit.
- Cleaning - The fixture should be cleaned only as recommended by the manufacturer.
- Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug have been damaged.
 - B. Objects have fallen onto, or liquids have been spilled into, the fixture.
 - C. The fixture does not appear to operate normally or exhibits a marked change in performance.
 - D. The fixture has fallen and/or has been subjected to extreme handling.

OVERVIEW



INSTALLATION GUIDELINES



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.

Maximum ambient operating temperature range is **-40°F to 113°F (-40°C to 45°C)**. Do not operate this device when ambient temperature falls outside 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 periodic safety inspection of all installation material as well as the unit itself. If you lack these qualifications, do not attempt the installation yourself.

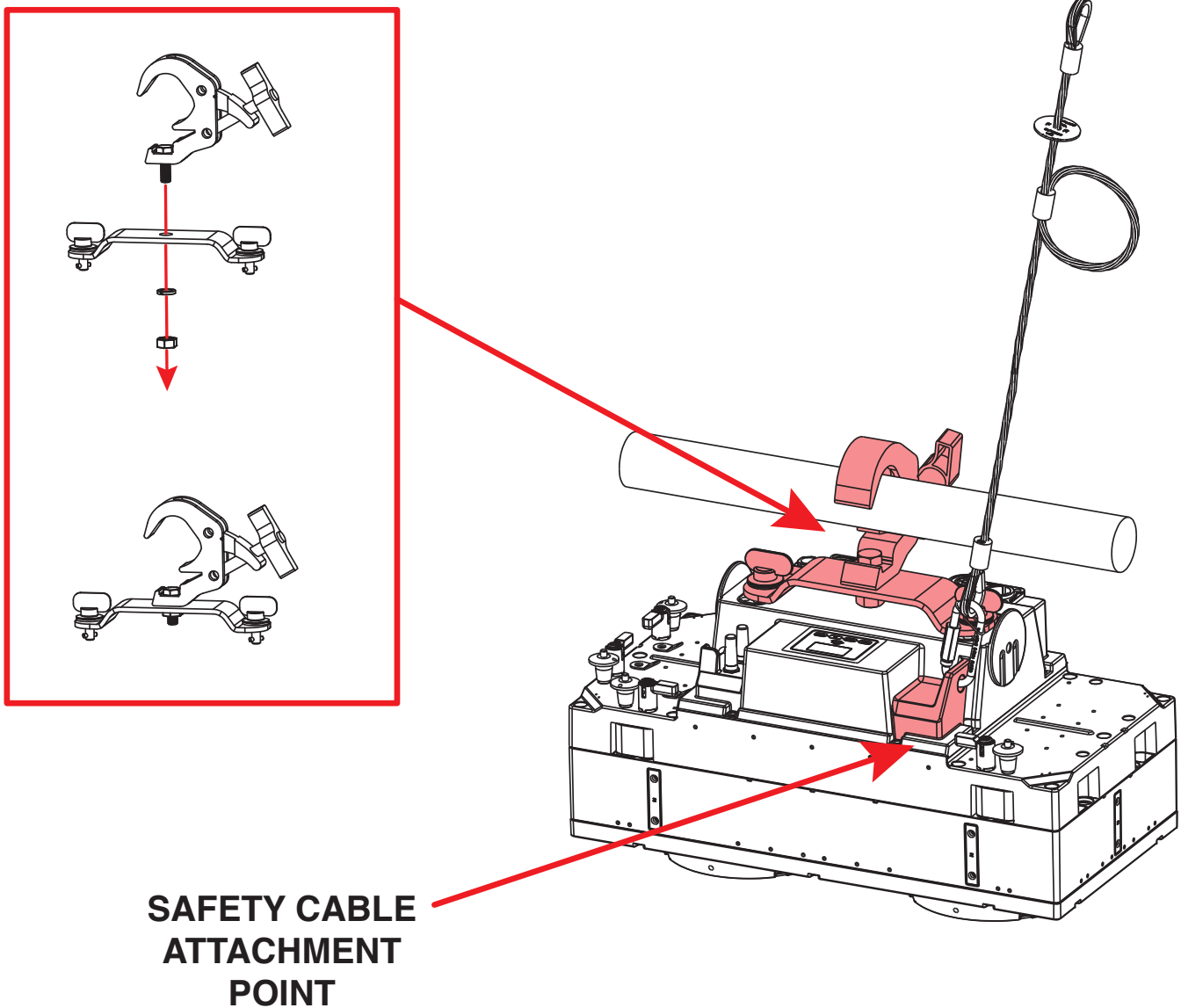
The installation should be checked by a skilled person once a year.

It is strongly recommended to power the fixture down completely when not in use. Doing so will reduce wear on the fixture due to sustained or extended operational periods, thereby maximizing the fixture's operational lifespan.

INSTALLATION GUIDELINES

CLAMP MOUNTING

This fixture features mounting holes on the top of the mounting yoke for the attachment of an Omega bracket. When mounting the fixture to a truss or any other suspended structure, insert a bolt of appropriate size through the bottom of the mounting clamp and the central hole on the Omega bracket, and secure them together with a matching nut and washer. Then insert the twist lock fasteners of the Omega bracket into the mounting holes on the yoke, and twist to secure in place. Additionally, a safety cable of the appropriate weight rating should be secured to the provided safety cable loop on the rear of the fixture, near the display screen.



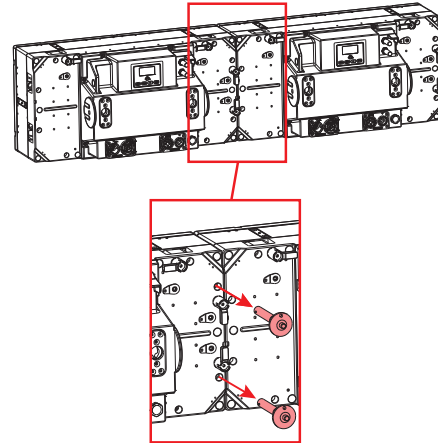
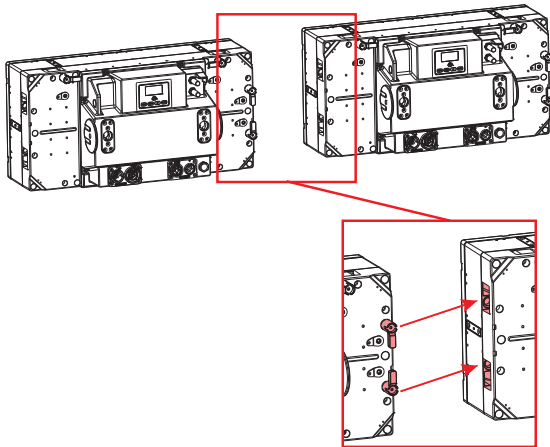
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

INSTALLATION GUIDELINES

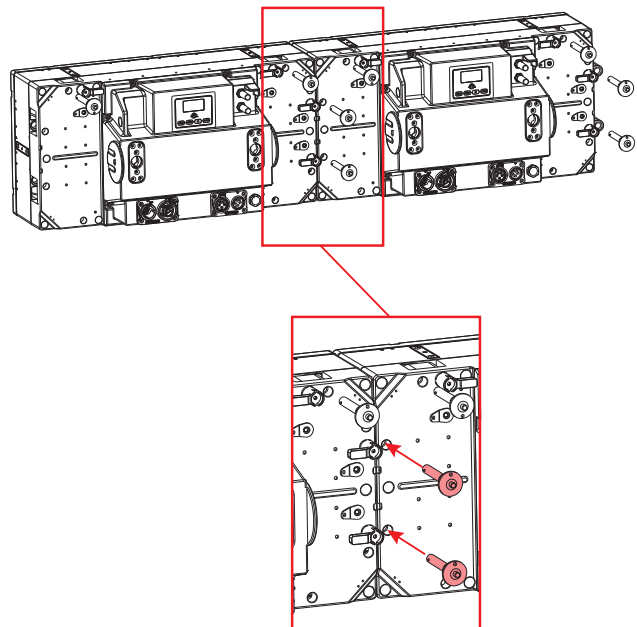
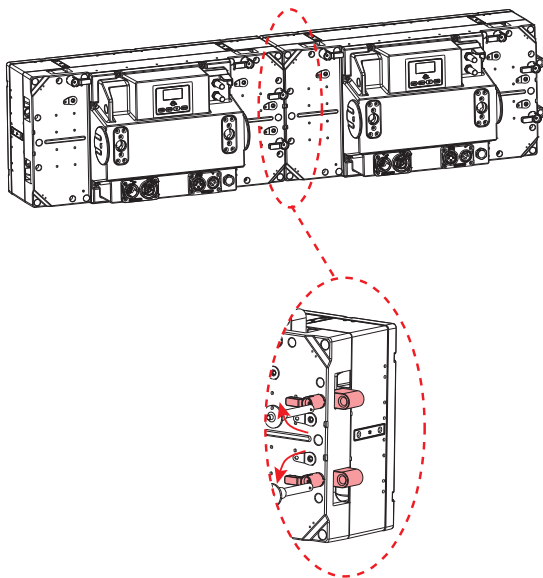
MULTI UNIT INSTALLATION

This fixture features mounting latches and slots that can be used to connect multiple units together. When the fixture is viewed from the rear with the screen oriented upright, the latches are located along the top and right edges of the fixture, and the slots are located along the bottom and left edges of the fixture. To use this hardware, follow the steps below.

1. Position the fixtures so that the latch of the first fixture is aligned with the slot of the second fixture.
2. Locate the pin that is beside the latch tab of the first fixture. Press the pin lock to release the pin, then pull the pin out.



3. Pull the latch tab of the first fixture outward to release the latch, then rotate the tab to move the latch into place. The hole in the latch should now be aligned with the hole in the slot of the second fixture.
4. Insert the pin from the first fixture into the hole in the slot of the second fixture. This will secure the latch in place within the slot.



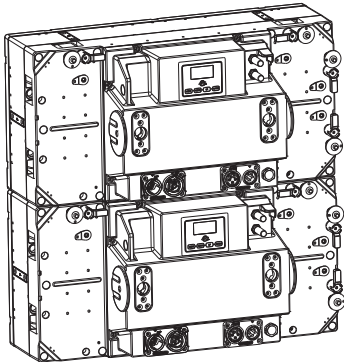
INSTALLATION GUIDELINES

MULTI UNIT INSTALLATION

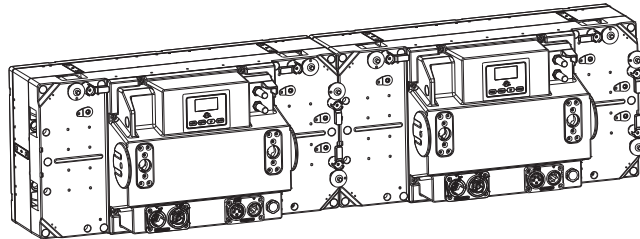
Multi unit assemblies can be connected with the individual fixtures oriented vertically, horizontally, or even in a mixture of horizontal and vertical orientations, as shown below.

PLEASE NOTE: THE MAXIMUM NUMBER OF UNITS THAT CAN BE SAFELY SUSPENDED FROM A SINGLE MOUNTING POINT IS 8 UNITS IN THE VERTICAL ORIENTATION AND 8 UNITS IN THE HORIZONTAL ORIENTATION, WITH A MAXIMUM WEIGHT OF 176 LBS (80 KG).

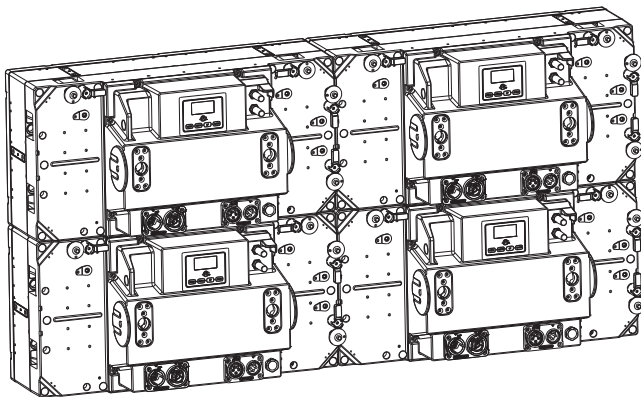
Vertical Connection



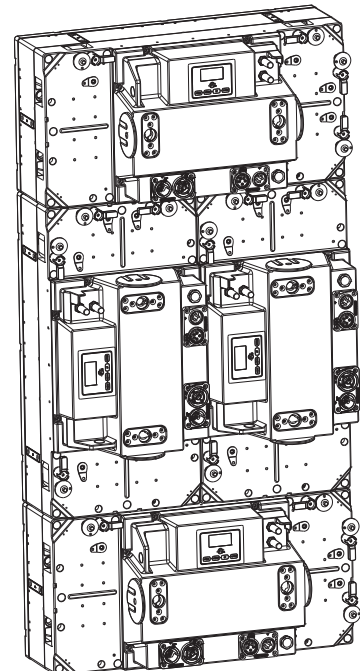
Horizontal Connection



Mixed Vertical and Horizontal Connection

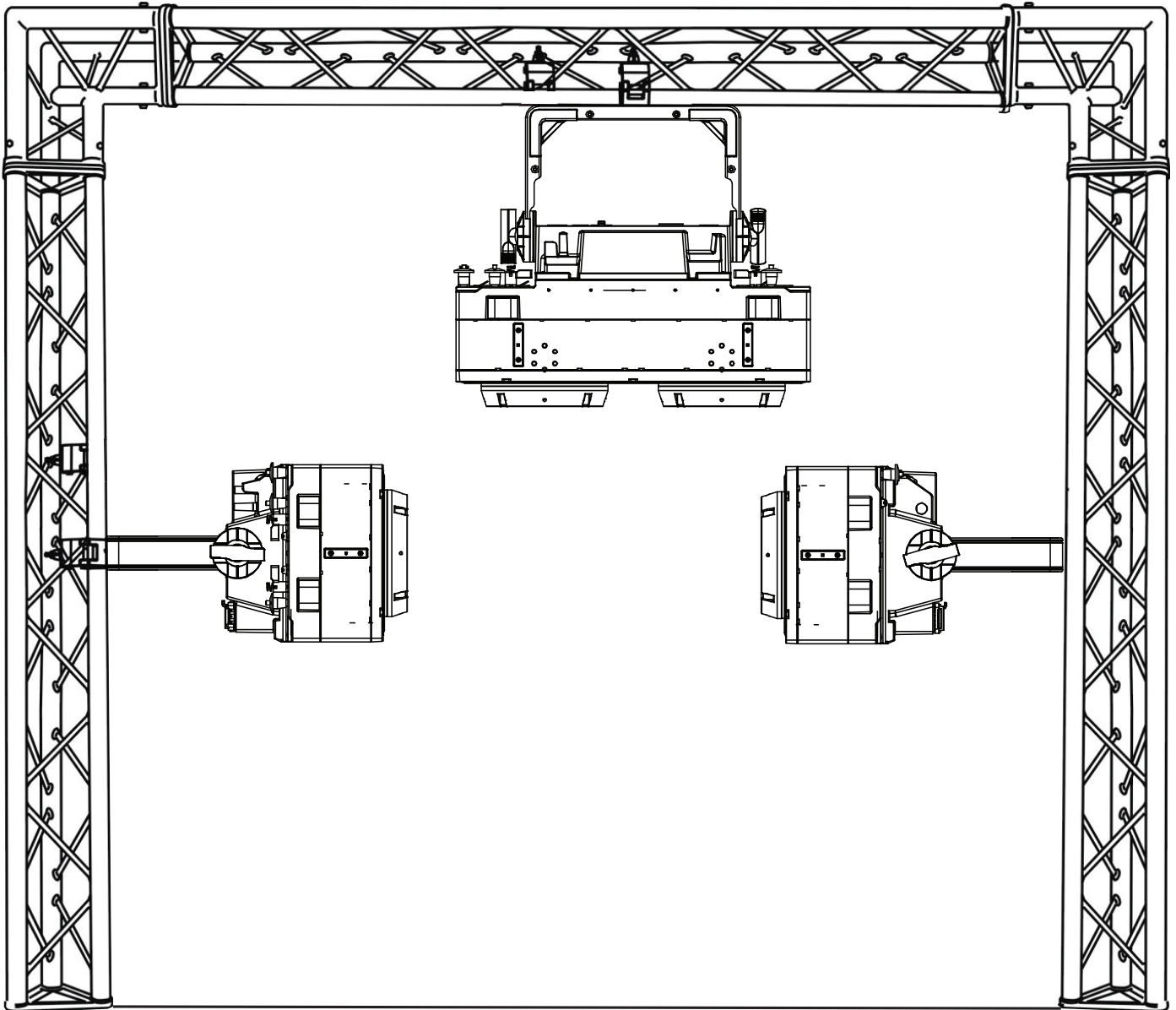


Mixed Vertical and Horizontal Orientation



WHEN INSTALLING MULTIPLE INTERCONNECTED FIXTURES, EACH INDIVIDUAL FIXTURE REQUIRES ITS OWN SEPARATE SAFETY CABLE TO ENSURE THAT NONE OF THE FIXTURES WILL FALL IN THE EVENT THAT THE MOUNTING CLAMPS FAIL!

INSTALLATION GUIDELINES



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 9.8 ft (3m) 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 THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

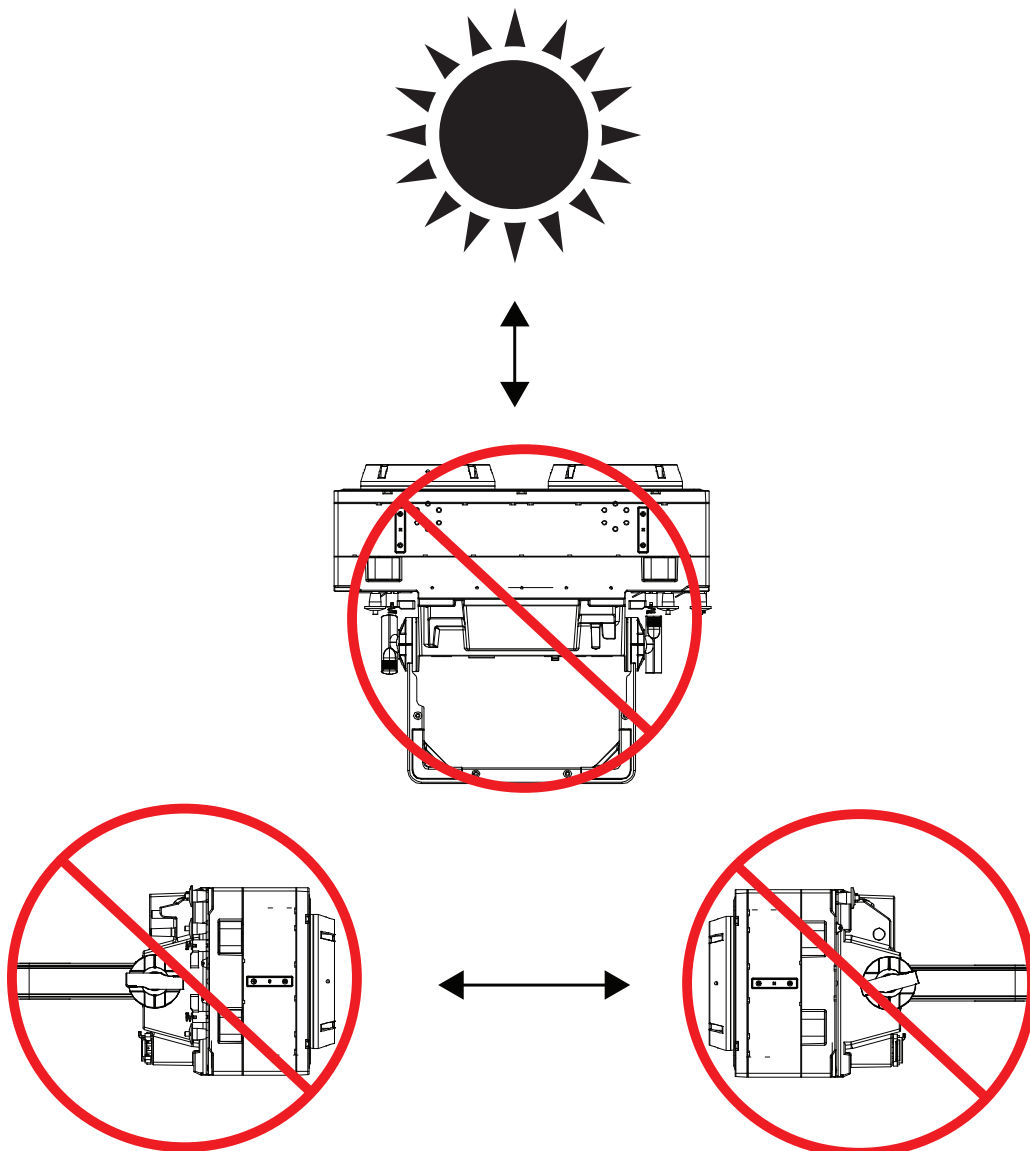
INSTALLATION GUIDELINES

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, lighting 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.



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	003C	60	1Ch, 2Ch-A, 2Ch-B, 4Ch, 5Ch, 8Ch, 10Ch, 11Ch, 12Ch-A, 12Ch-B, 16Ch, 18Ch, 19Ch, 21Ch, 22Ch, 25Ch, 26Ch, 29Ch, 31Ch, 35Ch, 41Ch

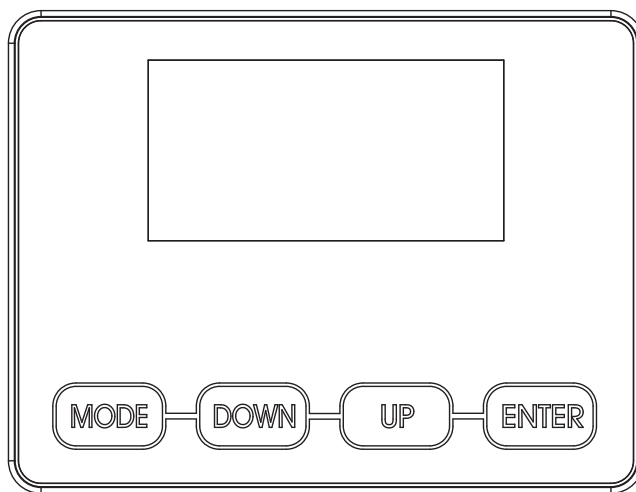
Please be aware that not all RDM devices support all RDM features, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

CODE	PARAMETER	CODE	PARAMETER
0x1031	Preset Playback	0x0400	Device Hours
0x0122	Default Slot Value	0x0015	Comms Status
0x00C2	Boot Software Version Label	0x0031	Status ID Description
0x00C1	Boot Software Version ID	0x0032	Clear Status ID
0x0070	Product Detail ID List	0x0401	Lamp Hours
0x0030	Status Messages	0x0402	Lamp Strikes
0x0011	Proxied Device Count	0x0403	Lamp State
0x0200	Sensor Definition	0x0404	Lamp Mode
0x0201	Sensor Value	0x0405	Device Power Cycles
0x0080	Device Model Description	0x0500	Display Invert
0x0081	Manufacturer Label	0x0501	Display Level
0x0082	Device Label	0x0603	Realtime Clock
0x00E0	DMX Personality	0x1010	Power State
0x00E1	DMX Personality Description	0x0020	Queued Message

CONTROL PANEL

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

Pressing the MODE button will cycle through the various Main Menu options. When the desired Main Menu option is displayed on the screen, press the ENTER button to enter the sub-menu, then use the UP and DOWN buttons to scroll through sub-menu options. In some cases, there will be a second sub-menu that can be navigated in the same way. Press MODE at any time to exit without making changes.



SCREEN LOCK

The control panel screen can be set to lock after a period of inactivity. This feature is turned off by default, but this can be changed by navigating to Personality > Display > Screen Lock in the system menu. To unlock the screen, press and hold the MODE button until the controls fully unlock.

SYSTEM MENU

MAIN MENU		OPTIONS / VALUES (Default Settings in BOLD)	
DMX SETTINGS	DMX Address	001 - 512	
	DMX Channel	1Ch	
		2Ch-A	
		2Ch-B	
		4Ch	
		5Ch	
		8Ch	
		10Ch	
		11Ch	
		12Ch-A	
		12Ch-B	
		16Ch	
		18Ch	
		19Ch	
		21Ch	
		22Ch	
		25Ch	
		26Ch	
		29Ch	
		31Ch	
		35Ch	
		41Ch	
	No DMX Status	Hold Last	
		Blackout	
		Manual Settings	
		Internal Programs	
PERSONALITY	Prim/Sec Mode	Primary / Secondary	
	Signal	DMX or Aria	Auto
			DMX
			Aria
		Aria In / DMX Out	On / Off
	Aria	Aria Enable	On / Off
		Frequency	2.4GHz
			Sub Gig US
			Sub Gig EU
		2.4GHz Ch	00 - 15
Sub Gig Ch		00 - 09	
Mesh		On / Off	
Bluetooth Enable	On / Off		

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)			
PERSONALITY (continued)	RDM	On / Off		
	Fan Settings	Auto		
		High		
		Low		
	Dim Modes	Standard		
		Stage		
		TV		
		Architectural		
		Theatre		
		Stage 2		
		Dim Speed	0.1s - 10s	
		Dim Curves	Linear	
	Square			
	Square Inverse			
	S-Curve			
	LED Refresh Rate	900-1500Hz, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz		
	Tungsten	On / Off		
	Pixel Flip	Off / On		
	Display	Screen Saver Delay	1 - 10	
		Screen Lock	Off - 10min	
		Rotate Display	Yes	
			No	
			Auto	
	Temperature Unit	°C / °F		

SYSTEM MENU

MAIN MENU		OPTIONS / VALUES (Default Settings in BOLD)		
PERSONALITY (continued)	Service	Passcode = 050	Color Balance	Red Cell 1 000 - 255
				Green Cell 1 000 - 255
				Blue Cell 1 000 - 255
				Amber Cell 1 000 - 255
				White Cell 1 000 - 255
				Red Cell 2 000 - 255
				Green Cell 2 000 - 255
				Blue Cell 2 000 - 255
				Amber Cell 2 000 - 255
				White Cell 2 000 - 255
				Red Background 000 - 255
				Green Background 000 - 255
				Blue Background 000 - 255
			Factory Restore	Yes / No
MANUAL	Red Cell 1	000 - 255		
	Green Cell 1	000 - 255		
	Blue Cell 1	000 - 255		
	Amber Cell 1	000 - 255		
	White Cell 1	000 - 255		
	Red Cell 2	000 - 255		
	Green Cell 2	000 - 255		
	Blue Cell 2	000 - 255		
	Amber Cell 2	000 - 255		
	White Cell 2	000 - 255		
	Red Background	000 - 255		
	Green Background	000 - 255		
	Blue Background	000 - 255		
	Color Macro	Off, 0 - 64		
	Color Temp Linear	000 - 255		
	Color Temp Preset	Off , 2700K, 3200K, 4000K, 5600K, 6500K		
	Shutter	000 - 255		
	Dimmer	000 - 255		

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)		
INTERNAL CELL PROGRAMS	Program 0	Speed	000 - 255
		Fade	000 - 255
	Program 1	Speed	000 - 255
		Fade	000 - 255

	Program 7	Speed	000 - 255
		Fade	000 - 255
INTERNAL BACKGROUND PROGRAMS	Program 0	Speed	000 - 255
		Fade	000 - 255
	Program 1	Speed	000 - 255
		Fade	000 - 255

	Program 7	Speed	000 - 255
		Fade	000 - 255
INFORMATION	Fixture Life Time	Power On Time	xxxxxx Hours
	Fixture Last Run Time	Power On Resettable Time	xxxxxx Hours
		Power On Time Reset	Passcode = 038
	Total LED Hours	xxxxxx Hours	
	Total LED Hours Reset	Yes / No	Passcode = 038
	Fixture Temperatures	xxx° F / xxx° C	
		Max Resettable	xxx° F / xxx° C
		Max Not Resettable	xxx° F / xxx° C
		Reset Current Max Temp	Yes / No Passcode = 050
	Fan Info	1U Fan1 RPM	xxxx
		2U Fan1 RPM etc	xxxx
	DMX Values	Red Cell 1	
		Green Cell 1	
		...	
		Shutter	
		Dimmer	
	Fixture IDs	RDM UID	xxxxxx
		Aria ID	xx:xx:xx:xx:xx:xx
	Error Logs	Fixture Errors	List errors one by one
		Reset Error Log	Yes / No Passcode = 050
	Software Version	x.xx	

ARIA

2.4GHZ 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.

In the United States, the 900 MHz band is a versatile frequency range that is utilized by various services, with the FCC overseeing its allocation and regulation.

In the European Union, the 868 MHz frequency is designated by ETSI as the Sub-Gig frequency.

In summary, 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.

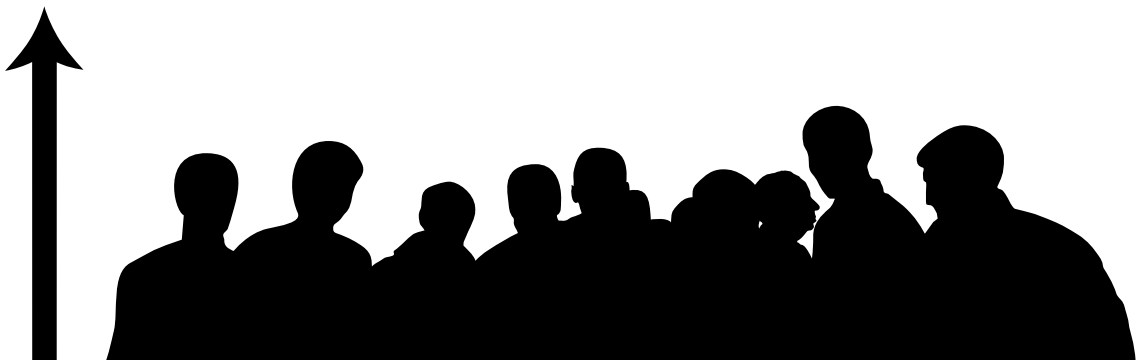
INSTALLATION RECOMMENDATIONS:

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.

**9.8 ft (3m)
Above Ground**



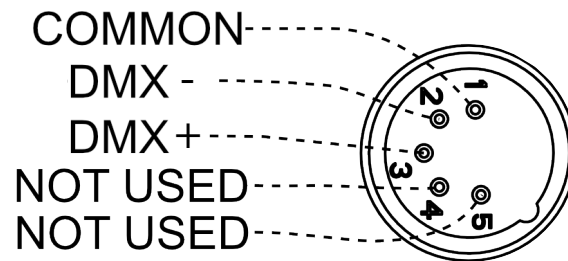
DMX SET UP

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.

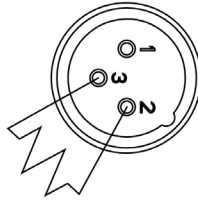
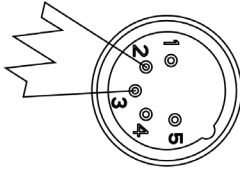
Data Cable (DMX Cable) Requirements (For DMX Operation): This unit can be controlled via DMX-512 protocol. The DMX address is set on the rear panel of the unit. Your unit and your DMX controller require a standard 5-pin XLR connector for data input and data output. We recommend Accu-Cable DMX cables. 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 the illustration below when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable’s shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR’s outer casing. Grounding the shield could cause a short circuit and erratic behavior.



DMX SET UP

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will reduce the risk of erratic behavior.



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

DMX ADDRESSING.

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

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

If you set each fixture to a different DMX address, each unit will start to “listen” to the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture. For example, when this unit is operating in 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 on the next page for more details.

DMX SET UP

CHANNEL MODE	UNIT 1 ADDRESS	UNIT 2 ADDRESS	UNIT 3 ADDRESS	UNIT 4 ADDRESS
1Ch	1	2	3	4
2Ch A / B	1	3	5	7
4Ch	1	5	9	13
5Ch	1	6	11	16
8Ch	1	9	17	25
10Ch	1	11	21	31
11Ch	1	12	23	34
12Ch A / B	1	13	25	37
16Ch	1	17	33	49
18Ch	1	19	37	55
19Ch	1	20	39	58
21Ch	1	22	43	64
22Ch	1	23	45	67
25Ch	1	26	51	76
26Ch	1	27	53	79
29Ch	1	30	59	88
31Ch	1	32	63	94
35Ch	1	36	71	106
41Ch	1	42	83	124

DMX TRAITS (LINKED CELL CONTROL)

Features subject to change without notice														
		MODE / CHANNELS											VALUES	FUNCTION
1 Ch	2 Ch-A	5 Ch	8 Ch	10 Ch	11 Ch	12 Ch-A	12 Ch-B	16 Ch	19 Ch	22 Ch	25 Ch	31 Ch		
1	1												000 - 255	Both Cells 2700K 0 - 100%
	2												000 - 255	Both Cells 2700K, Fine Fine 16-bit control
		1	1	1	1	1	1	1	1	1	1	1	000 - 255	Both Red Cells 0 - 100%
							2	2	2		2	2	000 - 255	Both Red Cells Fine Fine 16-bit control
		2	2	2	2	2	3	3	3	2	3	3	000 - 255	Both Green Cells 0 - 100%
							4	4	4		4	4	000 - 255	Both Green Cells Fine Fine 16-bit control
		3	3	3	3	3	5	5	5	3	5	5	000 - 255	Both Blue Cells 0 - 100%
							6	6	6		6	6	000 - 255	Both Blue Cells Fine Fine 16-bit control
		4	4	4	4	4	7	7	7	4	7	7	000 - 255	Both Amber Cells 0 - 100%
							8	8	8		8	8	000 - 255	Both Amber Cells Fine Fine 16-bit control
		5	5	5	5	5	9	9	9	5	9	9	000 - 255	Both White Cells 0 - 100%
							10	10	10		10	10	000 - 255	Both White Cells Fine Fine 16-bit control
				6	6	6		11	11	6	11	11	000 - 255	Red Background 0 - 100%
								12			12	12	000 - 255	Red Background Fine Fine 16-bit control
				7	7	7		13	12	7	13	13	000 - 255	Green Back-ground 0 - 100%
								14			14	14	000 - 255	Green Back-ground Fine Fine 16-bit control
				8	8	8		15	13	8	15	15	000 - 255	Blue Background 0 - 100%
								16			16	16	000 - 255	Blue Background Fine Fine 16-bit control
					9	9			14	9	17	17		Color Macros
													000 - 255	Refer to Color Macros Chart

DMX TRAITS (LINKED CELL CONTROL)

Features subject to change without notice															
		MODE / CHANNELS											VALUES	FUNCTION	
1 Ch	2 Ch-A	5 Ch	8 Ch	10 Ch	11 Ch	12 Ch-A	12 Ch-B	16 Ch	19 Ch	22 Ch	25 Ch	31 Ch			
					10				15		18	18		Color Temp Linear	
													000 - 255	0 - 100%	
					11				16	10	19	19		Color Temp Pre-sets	
													000	Off	
													001 - 054	2700K	
													055 - 109	3200K	
													110 - 164	4000K	
													165 - 219	5600K	
													220 - 255	6500K	
														Shutter, Strobe	
													000 - 031	LEDs Off	
													032 - 063	LEDs On	
													064 - 095	Strobe Effect, slow to fast	
			6	9		10	11		17	11	20	20	096 - 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	10		11	12		18	12	21	21		Dimmer Intensity	
													000 - 255	0 - 100%	
			8			12			19	13	22	22		Dimmer Intensity Fine	
													000 - 255	Fine Adjustment	
														Internal Cell Programs	
												14	23	000 - 019	Off
														020 - 050	Program 1
														051 - 080	Program 2
														081 - 110	Program 3
														111 - 140	Program 4
														141 - 170	Program 5
														171 - 200	Program 6
														201 - 230	Program 7
														231 - 255	Program 0
										15		24		Internal Cell Program Speed	
													000 - 255	Slow to fast	
										16		25		Internal Cell Program Fade	
													000 - 255	Minimum to maximum	

DMX TRAITS (LINKED CELL CONTROL)

Features subject to change without notice														
MODE / CHANNELS													VALUES	FUNCTION
1 Ch	2 Ch-A	5 Ch	8 Ch	10 Ch	11 Ch	12 Ch-A	12 Ch-B	16 Ch	19 Ch	22 Ch	25 Ch	31 Ch		
										17		26		Internal Back-ground Programs
													000 - 019	Off
													020 - 050	Program 1
													051 - 080	Program 2
													081 - 110	Program 3
													111 - 140	Program 4
													141 - 170	Program 5
													171 - 200	Program 6
													201 - 230	Program 7
231 - 255	Program 0													
										18		27		Internal Back-ground Program Speed
													000 - 255	Slow to fast
										19		28		Internal Back-ground Program Fade
													000 - 255	Minimum to maximum
										20	23	29		Dim Mode
													000 - 020	Default to Unit Setting
													021 - 040	Standard
													041 - 060	Stage
													061 - 080	TV
													081 - 100	Architectural
													101 - 120	Theatre
													121 - 140	Stage 2
														Dim Speed
													141	0.1 s
													142	0.2 s
													143	0.3 s
													144	0.4 s
													145	0.5 s
													146	0.6 s
													147	0.7 s
													148	0.8 s
													149	0.9 s
													150	1.0 s
													151	1.5 s
152	2.0 s													
153	3.0 s													
154	4.0 s													
155	5.0 s													

DMX TRAITS (LINKED CELL CONTROL)

Features subject to change without notice														
MODE / CHANNELS													VALUES	FUNCTION
1 Ch	2 Ch-A	5 Ch	8 Ch	10 Ch	11 Ch	12 Ch-A	12 Ch-B	16 Ch	19 Ch	22 Ch	25 Ch	31 Ch		
										20	23	29		Dim Speed (con- tinued)
													156	6.0 s
													157	7.0 s
													158	8.0 s
													159	9.0 s
													160	10.0 s
													161 - 255	Default to Unit Set- ting
										21	24	30		Dim Curves
													000 - 020	Square
													021 - 040	Linear
													041 - 060	Inv Squa
													061 - 080	S Curve
													081 - 255	No Function
										22	25	31		Special Functions
													000 - 015	Default to Unit Set- ting
													016 - 030	900 Hz
													031 - 045	1000 Hz
													046 - 060	1100 Hz
													061 - 075	1200 Hz
													076 - 090	1300 Hz
													091 - 105	1400 Hz
													106 - 120	1500 HZ
													121 - 135	2500 Hz
													136 - 150	4000 Hz
													151 - 165	5000 Hz
													166 - 180	6000 Hz
													181 - 195	10 KHz
													196 - 210	15 KHz
													211 - 225	20 KHz
													226 - 229	25 KHz
													230 - 233	Enable Bluetooth (hold 3 s)
234 - 238	Disable Bluetooth (hold 3 s)													
239 - 243	Enable Pixel Flip (hold 3 s)													
244 - 248	Disable Pixel Flup (hold 3 s)													
249 - 255	No Function													

DMX TRAITS (SEPARATE CELL CONTROL)

Features subject to change without notice									
MODE / CHANNELS								VALUES	FUNCTION
2 Ch-B	4 Ch	18 Ch	21 Ch	26 Ch	29 Ch	35 Ch	41 Ch		
1	1							000 - 255	Cell 1 2700K 0 - 100%
	2							000 - 255	Cell 1 2700K Fine Fine 16-bit control
2	3							000 - 255	Cell 2 2700K 0 - 100%
	4							000 - 255	Cell 2 2700K Fine Fine 16-bit control
		1	1	1	1	1	1	000 - 255	Red Cell 1 0 - 100%
				2	2	2	2	000 - 255	Red Cell 1 Fine Fine 16-bit control
		2	2	3	3	3	3	000 - 255	Green Cell 1 0 - 100%
				4	4	4	4	000 - 255	Green Cell 1 Fine Fine 16-bit control
		3	3	5	5	5	5	000 - 255	Blue Cell 1 0 - 100%
				6	6	6	6	000 - 255	Blue Cell 1 Fine Fine 16-bit control
		4	4	7	7	7	7	000 - 255	Amber Cell 1 0 - 100%
				8	8	8	8	000 - 255	Amber Cell 1 Fine Fine 16-bit control
		5	5	9	9	9	9	000 - 255	White Cell 1 0 - 100%
				10	10	10	10	000 - 255	White Cell 1 Fine Fine 16-bit control
		6	6	11	11	11	11	000 - 255	Red Cell 2 0 - 100%
				12	12	12	12	000 - 255	Red Cell 2 Fine Fine 16-bit control
		7	7	13	13	13	13	000 - 255	Green Cell 2 0 - 100%
				14	14	14	14	000 - 255	Green Cell 2 Fine Fine 16-bit control
		8	8	15	15	15	15	000 - 255	Blue Cell 2 0 - 100%
				16	16	16	16	000 - 255	Blue Cell 2 Fine Fine 16-bit control
		9	9	17	17	17	17	000 - 255	Amber Cell 2 0 - 100%
				18	18	18	18	000 - 255	Amber Cell 2 Fine Fine 16-bit control
		10	10	19	19	19	19	000 - 255	White Cell 2 0 - 100%
				20	20	20	20	000 - 255	White Cell 2 Fine Fine 16-bit control

DMX TRAITS (SEPARATE CELL CONTROL)

Features subject to change without notice									
MODE / CHANNELS								VALUES	FUNCTION
2 Ch-B	4 Ch	18 Ch	21 Ch	26 Ch	29 Ch	35 Ch	41 Ch		
		11	11	21	21	21	21	000 - 255	Red Background 0 - 100%
				22	22	22	22	000 - 255	Red Background Fine Fine 16-bit control
		12	12	23	23	23	23	000 - 255	Green Background 0 - 100%
				24	24	24	24	000 - 255	Green Background Fine Fine 16-bit control
		13	13	25	25	25	25	000 - 255	Blue Background 0 - 100%
				26	26	26	26	000 - 255	Blue Background Fine Fine 16-bit control
						27	27		Color Macros
								000 - 255	Refer to Color Macros Chart
		14	14			28	28		Color Temp Linear
								000 - 255	0 - 100%
									Color Temp Presets
								000	Off
								001 - 054	2700K
								055 - 109	3200K
								110 - 164	4000K
								165 - 219	5600K
								220 - 255	6500K
									Shutter, Strobe
								000 - 031	LEDs Off
								032 - 063	LEDs On
								064 - 095	Strobe Effect, slow to fast
								096 - 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
		17	17		28	31	31		Dimmer Intensity
								000 - 255	0 - 100%
		18	18		29	32	32		Dimmer Intensity Fine
								000 - 255	Fine Adjustment
									Internal Cell Programs
								000 - 019	Off
								020 - 050	Program 1
								051 - 080	Program 2
								081 - 110	Program 3
								111 - 140	Program 4
								141 - 170	Program 5
								171 - 200	Program 6
								201 - 230	Program 7
								231 - 255	Program 0
							34		Internal Cell Program Speed
								000 - 255	Slow to fast

DMX TRAITS (SEPARATE CELL CONTROL)

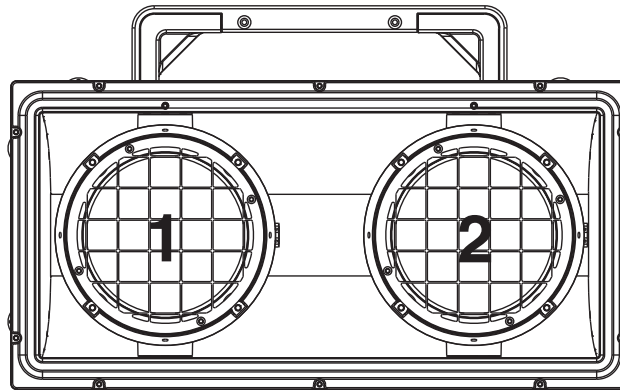
Features subject to change without notice									
MODE / CHANNELS								VALUES	FUNCTION
2 Ch-B	4 Ch	18 Ch	21 Ch	26 Ch	29 Ch	35 Ch	41 Ch		
							35		Internal Cell Program Fade
								000 - 255	Minimum to maximum
							36		Internal Background Programs
								000 - 019	Off
								020 - 050	Program 1
								051 - 080	Program 2
								081 - 110	Program 3
								111 - 140	Program 4
								141 - 170	Program 5
								171 - 200	Program 6
								201 - 230	Program 7
								231 - 255	Program 0
							37		Internal Background Program Speed
								000 - 255	Slow to fast
							38		Internal Background Program Fade
								000 - 255	Minimum to maximum
							39		Dim Mode
								000 - 020	Default to Unit Setting
								021 - 040	Standard
								041 - 060	Stage
								061 - 080	TV
								081 - 100	Architectural
								101 - 120	Theatre
								121 - 140	Stage 2
									Dim Speed
								141	0.1 s
								142	0.2 s
								143	0.3 s
								144	0.4 s
								145	0.5 s
								146	0.6 s
								147	0.7 s
								148	0.8 s
								149	0.9 s
								150	1.0 s
								151	1.5 s
								152	2.0 s
								153	3.0 s
								154	4.0 s
								155	5.0 s
								156	6.0 s
								157	7.0 s
								158	8.0 s
								159	9.0 s
								160	10.0 s
								161 - 255	Default to Unit Setting

DMX TRAITS (SEPARATE CELL CONTROL)

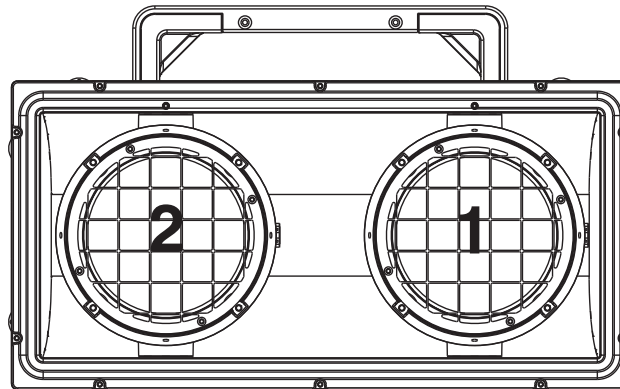
Features subject to change without notice									
MODE / CHANNELS								VALUES	FUNCTION
2 Ch-B	4 Ch	18 Ch	21 Ch	26 Ch	29 Ch	35 Ch	41 Ch		
			20			34	40		Dim Curves
								000 - 020	Square
								021 - 040	Linear
								041 - 060	Inv Squa
								061 - 080	S Curve
								081 - 255	No Function
									Special Functions
								000 - 015	Default to Unit Setting
								016 - 030	900 Hz
								031 - 045	1000 Hz
								046 - 060	1100 Hz
								061 - 075	1200 Hz
								076 - 090	1300 Hz
								091 - 105	1400 Hz
								106 - 120	1500 HZ
								121 - 135	2500 Hz
								136 - 150	4000 Hz
								151 - 165	5000 Hz
								166 - 180	6000 Hz
								181 - 195	10 KHz
								196 - 210	15 KHz
								211 - 225	20 KHz
								226 - 229	25 KHz
								230 - 233	Enable Bluetooth (hold 3 s)
								234 - 238	Disable Bluetooth (hold 3 s)
								239 - 243	Enable Pixel Flip (hold 3 s)
								244 - 248	Disable Pixel Flup (hold 3 s)
								249 - 255	No Function

PIXEL FLIP

PIXEL FLIP OFF



PIXEL FLIP ON



RGB MACROS

MACRO	DMX VALUES	RED	GREEN	BLUE	AMBER	WHITE
Off	000	0	0	0	0	0
1	001 - 004	80	255	234	80	0
2	005 - 008	80	255	164	80	0
3	009 - 012	77	255	112	77	0
4	013 - 016	117	255	83	83	0
5	017 - 020	160	255	77	77	0
6	021 - 024	223	255	83	83	0
7	025 - 028	255	243	77	77	0
8	029 - 032	255	200	74	74	0
9	033 - 036	255	166	77	77	0
10	037 - 040	255	125	74	74	0
11	041 - 044	255	97	77	74	0
12	045 - 048	255	71	77	71	0
13	049 - 052	255	83	134	83	2
14	053 - 056	255	93	183	93	15
15	057 - 060	255	96	236	96	17
16	061 - 064	238	93	255	93	17
17	065 - 068	196	87	255	87	18
18	069 - 072	150	90	255	90	19
19	073 - 076	100	77	255	77	19
20	077 - 080	77	100	255	77	20
21	081 - 084	67	148	255	67	20
22	085 - 088	77	195	255	77	22
23	089 - 092	77	234	255	77	25
24	093 - 096	158	255	144	144	0
25	097 - 100	255	251	153	153	0
26	101 - 104	255	175	147	147	0
27	105 - 108	255	138	186	138	0
28	109 - 112	255	147	251	147	0
29	113 - 116	151	138	255	138	35
30	117 - 120	99	0	255	100	38
31	121 - 124	138	169	255	138	0
32	125 - 128	255	255	255	255	255
33	129 - 132	255	206	143	0	0
34	133 - 136	254	177	153	0	0
35	137 - 140	254	192	138	0	0
36	141 - 144	254	165	98	0	0
37	145 - 148	254	121	0	0	0
38	149 - 152	178	17	0	0	0
39	153 - 156	96	0	11	0	0
40	157 - 160	234	139	171	0	0
41	161 - 164	224	5	97	0	0
42	165 - 168	175	77	173	0	0

RGB MACROS

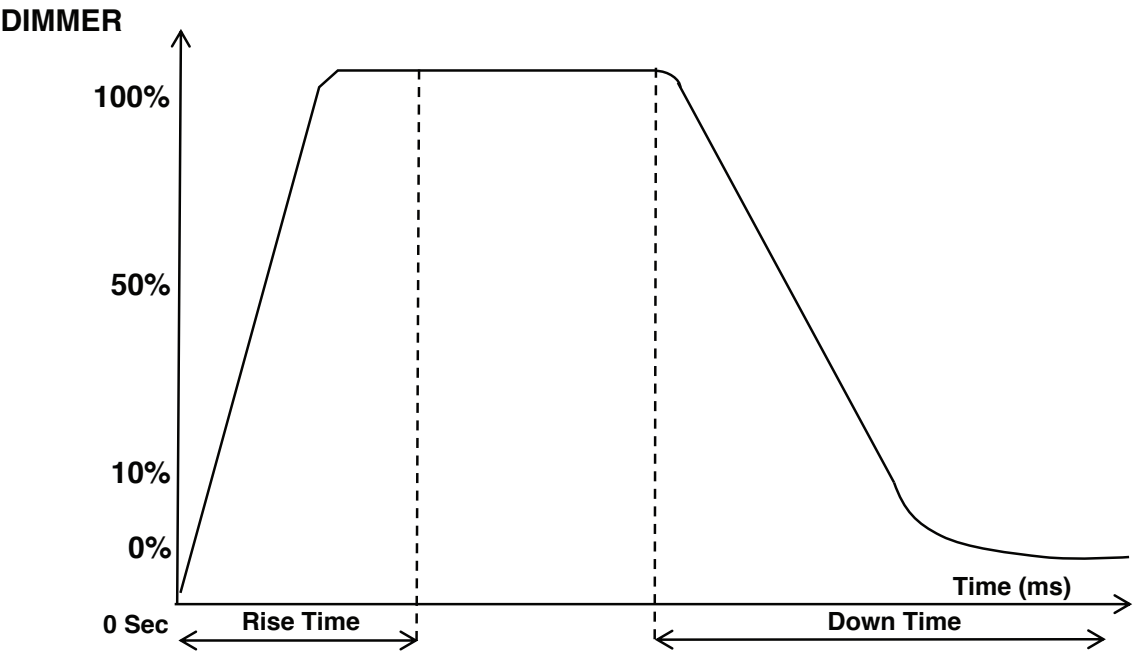
MACRO	DMX VALUES	RED	GREEN	BLUE	AMBER	WHITE
43	169 - 172	119	130	199	0	0
44	173 - 176	147	164	212	0	0
45	177 - 180	88	2	163	0	0
46	181 - 184	0	38	86	0	0
47	185 - 188	0	142	208	0	0
48	189 - 192	52	148	209	0	0
49	193 - 196	1	134	201	0	0
50	197 - 200	0	145	212	0	0
51	201 - 204	0	121	192	0	0
52	205 - 208	0	129	184	0	0
53	209 - 212	0	82	115	0	0
54	213 - 216	0	97	166	0	0
55	217 - 220	1	100	167	0	0
56	221 - 224	0	40	86	0	0
57	225 - 228	209	219	182	0	0
58	229 - 232	42	165	85	0	0
59	233 - 236	0	46	35	0	0
60	237 - 240	255	0	0	0	0
61	241 - 244	0	255	0	0	0
62	245 - 248	0	0	255	0	0
63	249 - 252	0	0	0	255	0
64	253 - 255	0	0	0	0	255

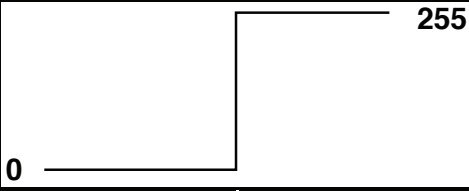
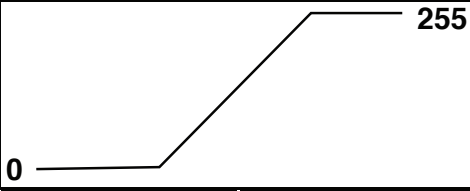
COLOR TEMPERATURE TABLE

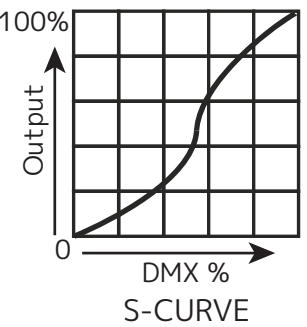
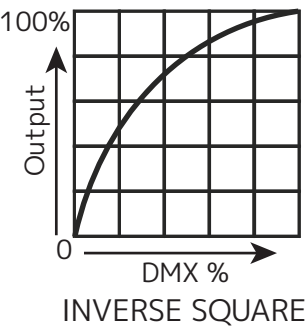
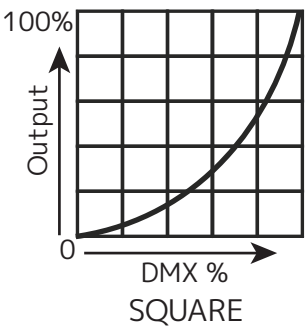
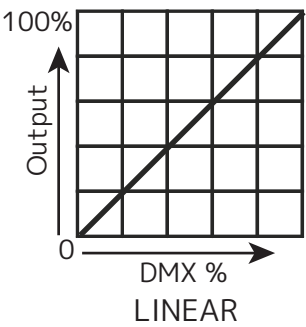
Colors shown are an approximate representation. <https://www.luxalight.eu/en/cie-converto>

DMX VALUE	COLOR TEMPERATURE (K)
27	2700
28	2800
29	2900
30	3000
31	3100
32	3200
33	3300
34	3400
35	3500
36	3600
37	3700
38	3800
39	3900
40	4000
41	4100
42	4200
43	4300
44	4400
45	4500
46	4600
47	4700
48	4800
49	4900
50	5000
51	5100
52	5200
53	5300
54	5400
55	5500
56	5600
57	5700
58	5800
59	5900
60	6000
61	6100
62	6200
63	6300
64	6400
65	6500

DIM 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



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 output. 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 ENTER button, and use the UP and DOWN buttons to toggle between "Primary" and "Secondary". Press ENTER 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 feature 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:

- 2 units when running on 120V power.
- 6 units when running on 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!

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.

TORQUE SETTINGS FOR SCREWS

IN ORDER TO MAINTAIN THE IP65 RATING ON THE LIGHTING FIXTURES, ALL SCREWS MUST BE TIGHTENED TO THE FOLLOWING TORQUE SPECIFICATION USING A TORQUE DRIVER.

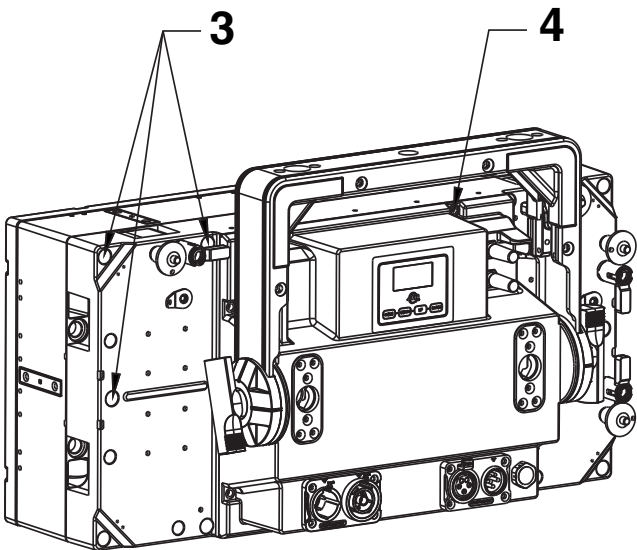
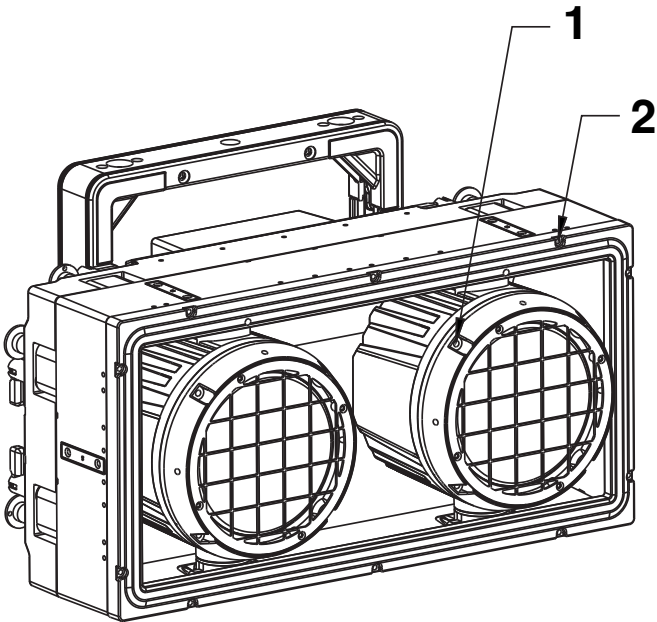
Refer to the table and diagram below for torque specifications.

TORQUE DRIVERS (Recommended): UTICA TS-30 (shown)
ALTERNATE DRIVERS:

- Proto J6107A
- Wiha 28887



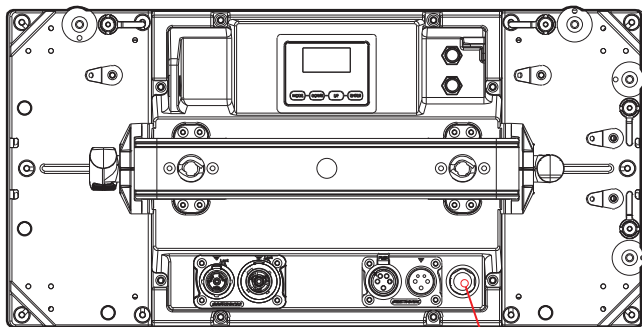
CAUTION! DO NOT OVER TORQUE SCREWS, AS THIS CAN CAUSE LEAKAGE ISSUES!



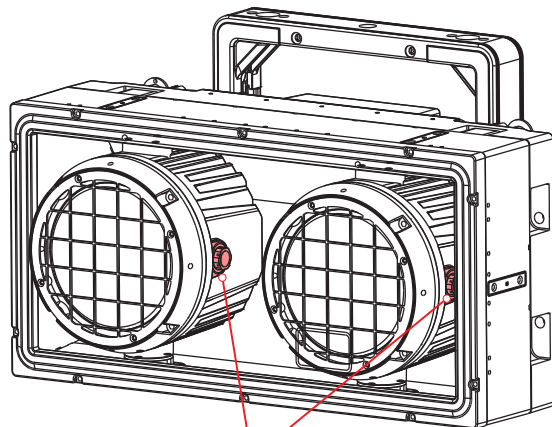
NO.	LOCATION	QUANTITY	TORQUE
1	Head Front Cover	8	11.3 ± 0.4 lb-in (13.0 ± 0.5 kg-cm)
2	Front Frame	10	11.3 ± 0.4 lb-in (13.0 ± 0.5 kg-cm)
3	Rear Frame	10	11.3 ± 0.4 lb-in (13.0 ± 0.5 kg-cm)
4	Rear Cover	8	11.3 ± 0.4 lb-in (13.0 ± 0.5 kg-cm)

IP TEST PARAMETERS

Following any repair or maintenance procedure that requires disassembly of the fixture, use ADJ's Hydro IP Tester to confirm the IP integrity of the fixture. The air valves are located on the back panel next to the display screen, as well as on each light pod, as shown in the diagram below. The procedures below are the same for all air valves. Please contact ADJ Service for information regarding the ADJ Hydro IP Tester, or visit the product information page online at: <https://www.adj.com/hydro-ip-tester>



Air Valve



Air Valve



CAUTION! THE USE OF PROTECTIVE GLOVES AND SAFETY GOGGLES IS STRONGLY RECOMMENDED WHILE PERFORMING THE IP PRESSURE TEST! AVOID PLACING YOUR FACE, EYES, HANDS, ETC IN PROXIMITY TO THE LENS OF THE FIXTURE WHILE PERFORMING THE TEST!

DE-HUMIDIFICATION: IP65 fixtures operating in high-humidity environments may experience residual fogging or condensation. Such fogging will not affect the fixture, and can be removed using the following procedure: position the unit with the air valve pointing upwards, then open the air valve and run the unit for 1-2 hours after reaching operating temperature. Then, while the fixture is still hot, re-install the air valve and allow the unit to cool down. Please note: this procedure should be performed in a dry, climate-controlled environment. Avoid additional fogging by drying the fixture completely before placing into a road case.



IP PRESSURE TESTING PARAMETERS					
Low Pressure Limit	High Pressure Limit	Inflation Time	Equilibrium Time	Detection Time	Acceptable Leakage
2.901 psi (20.0 KPa)	3.336 psi (23.0 KPa)	30 sec	15 sec	15 sec	0.015 psi (0.1 KPa) (100 Pa)

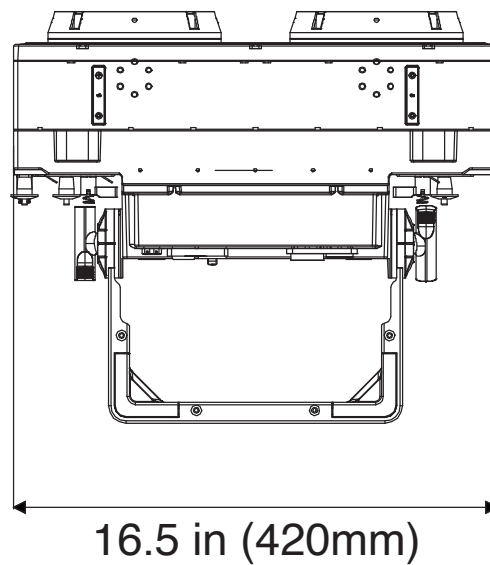
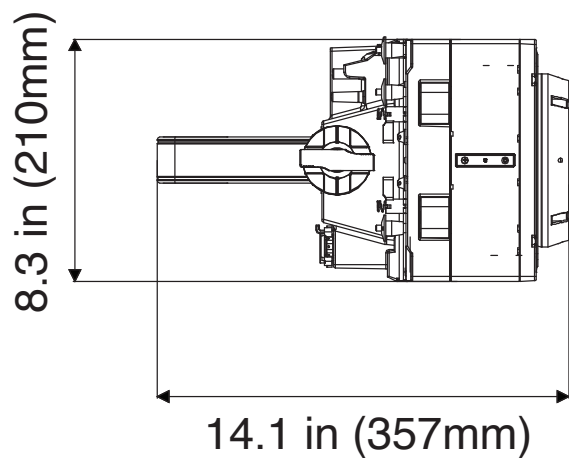
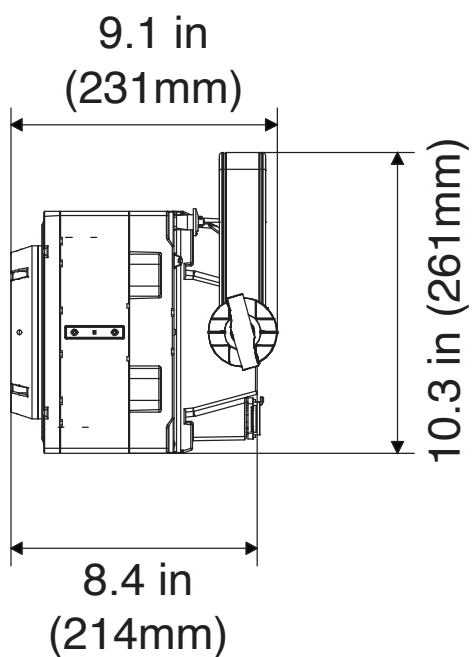
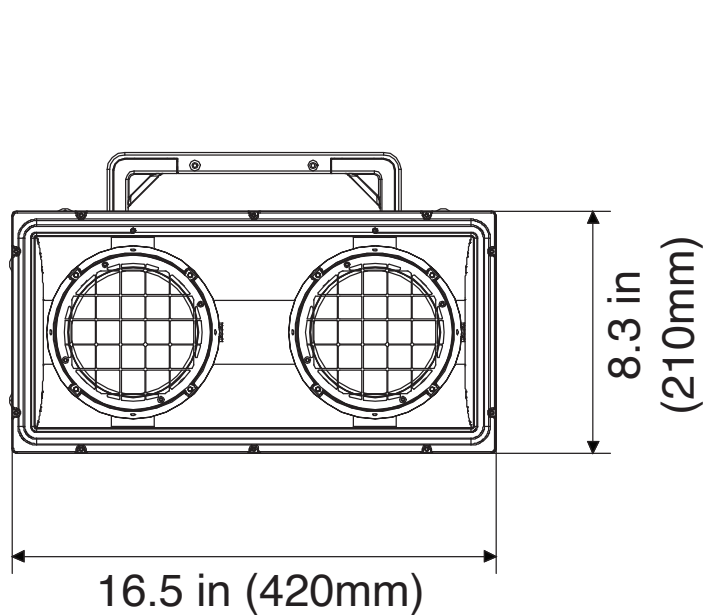
ERROR CODES

ERROR CODE	DESCRIPTION
Temperature	Temperature error

ORDERING INFORMATION

SKU (US)	SKU (EU)	DESCRIPTION
ENC200	1226200098	ADJ Encore DBX

DIMENSIONAL DRAWINGS



SPECIFICATIONS

Source:

- 2x 150W RGBAW LED's
- RGB Background LED's
- 50,000 Hour Average LED Life*
- *May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control and Dimming.

Photometrics:

- Total Lumen Output: 11,465
- CRI: 89

Optical:

- Beam Angle: TBA
- Field Angle: TBA

Effects:

- Variable Strobe Rate: 1- 20Hz
- Variable 16-bit Dimming Modes and Curves
- RGB Background Reflector Effect

Color:

- RGBAW Color Array
- RGB Background
- Variable CCT 2700K - 6500K + five presets

Physical:

- IP65 Housing
- OLED Digital display
- Adjustable Mounting Yoke with Omega Receivers
- Second Set of Omega Receivers on Rear

Control:

- DMX512
- Aria X2 Wireless Management / DMX System
- Bluetooth
- RDM (Remote Device Management)
- (21) DMX Channel Modes (1CH/ 2CH-A / 2CH-B / 4 CH / 5CH / 8CH / 10CH / 11CH / 12CH-A / 12CH-B / 16CH / 18CH / 19CH / 21CH / 22CH / 25CH / 26CH / 29CH / 31CH / 35CH / 41CH modes)
- On-board Manual Control Mode
- Primary / Secondary Mode

Connections:

- 5pin XLR IP65 DMX In/Out Sockets (Must be used with STRxxx, 5pin DMX cables to create IP65 seal)
- IP65 Locking Power Sockets

Dimensions & Weight:

- Length: 16.5" (420mm) Width: 10.3" (261mm) Height: 9.1" (231mm)
- Weight: 26.1 lbs. (11.85 kg)

Power:

- AC100-240V/50Hz-60Hz Input
- 347W Power Consumption
- Link 2 pieces @120VAC or 6 pieces @ 230VAC

Thermal:

- Ambient Operational Temperature: -4°F to 113°F (-20°C to 45°C)
- Storage Temperature: -22°F to 113°F (-30°C to 45°C)

Certifications & IP Rating:

- CE
- cETLus (Pending)
- FCC
- IP65



FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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!



