

ENCORE DBX

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
08/07/2025	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
01/28/2026	1.1	1.03	1 / 2A / 2B / 4 / 5 / 8 / 10 / 11 / 12A / 12B / 13 / 16 / 18A / 18B / 19 / 21 / 22 / 24 / 25 / 26 / 29 / 31 / 34 / 35 / 40 / 41 Ch	Updated: RDM, Aria Setup and Guidelines, System Menu, DMX Setup, DMX Traits, Specifications

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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

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LIMITED WARRANTY

For up-to-date warranty information regarding your device, please visit Elation's warranty information page online or scan the QR codes below.



<https://www.adj.com/pages/warranty-information>



https://www.adj.eu/terms_and_conditions

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.

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!**

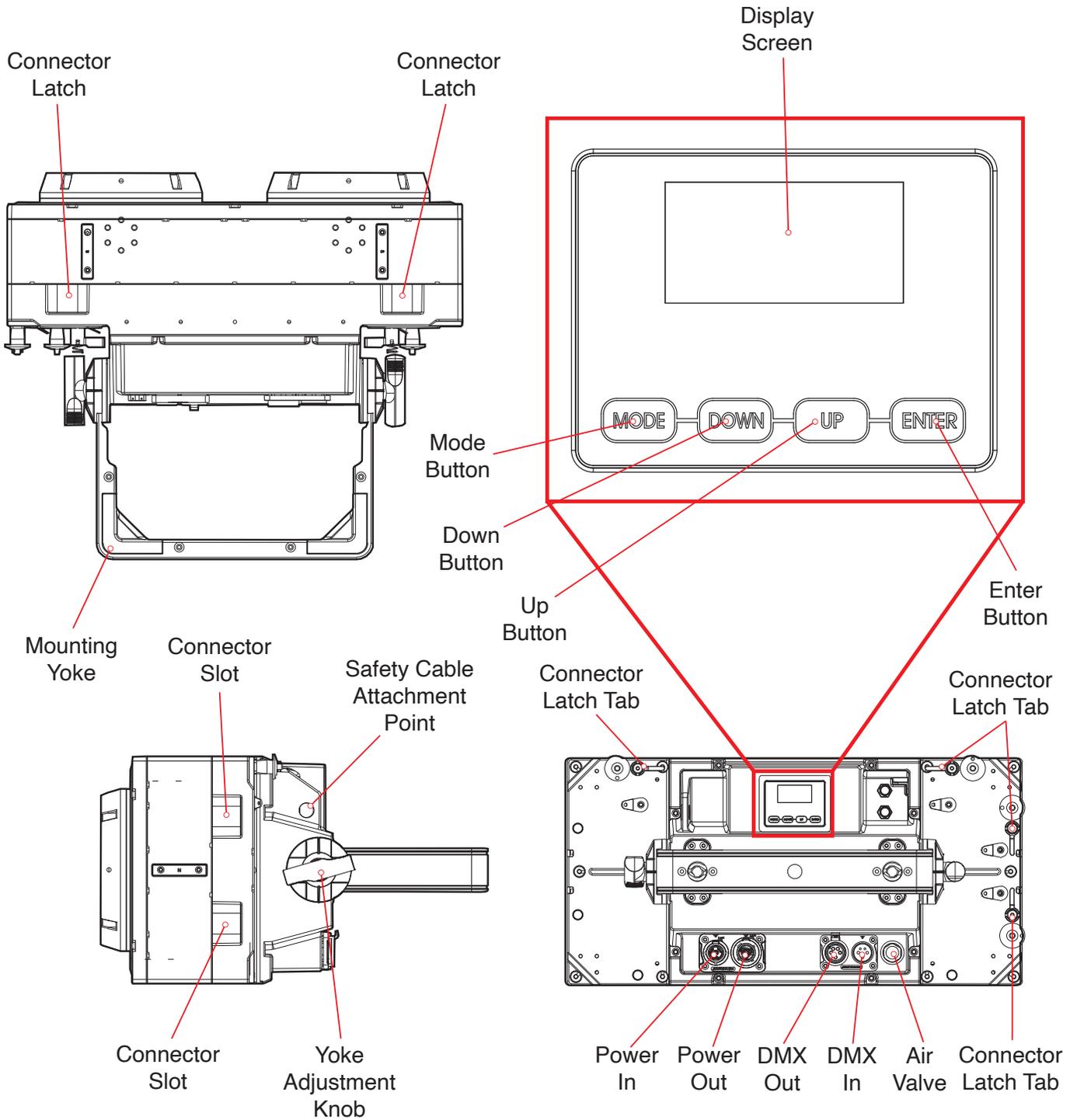


**MINIMUM DISTANCE TO OBJECTS IS 1.0 FEET (0.3 METER)
MINIMUM DISTANCE TO SURFACES IS 1.5 FEET (0.5 METER)
MINIMUM DISTANCE OF FLAMMABLE MATERIALS FROM THE SURFACE IS 3.2 FEET (1.0 METERS)
AMBIENT OPERATING TEMPERATURE IS -40°F TO 113°F (-40°C TO 45°C)**

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.

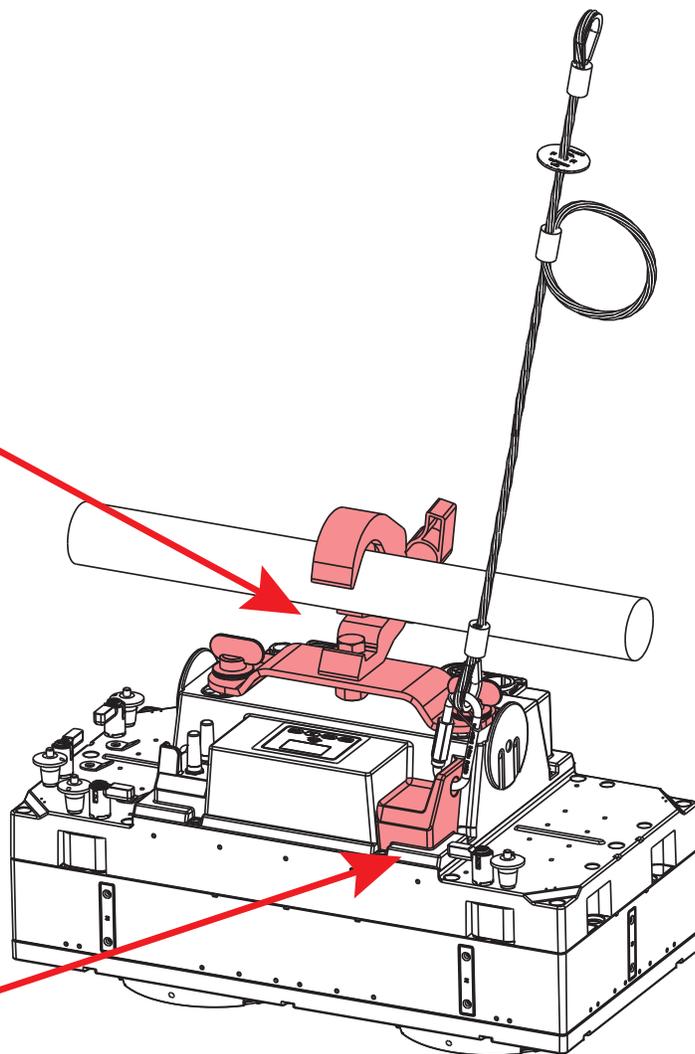
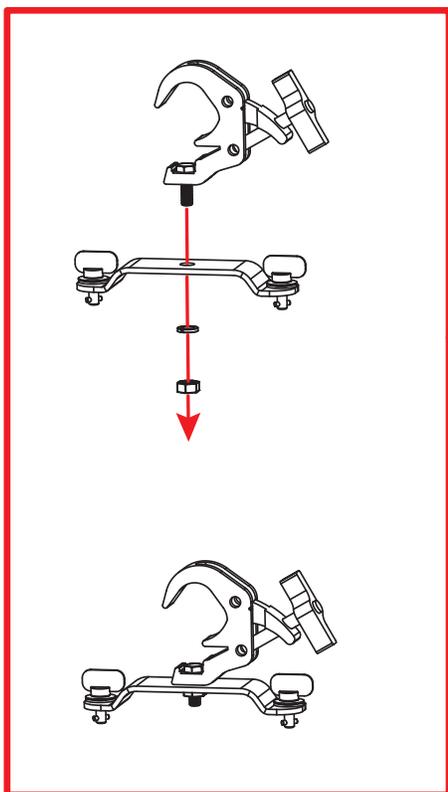
The installation should be checked by a skilled person once a year.

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.



**SAFETY CABLE
ATTACHMENT
POINT**



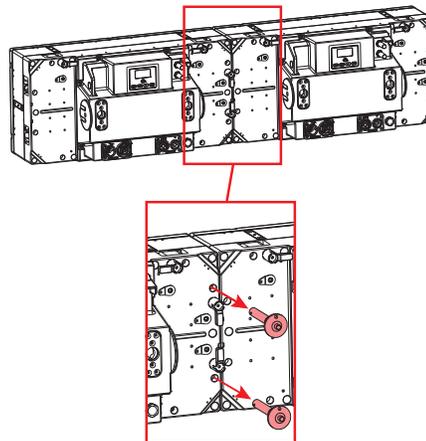
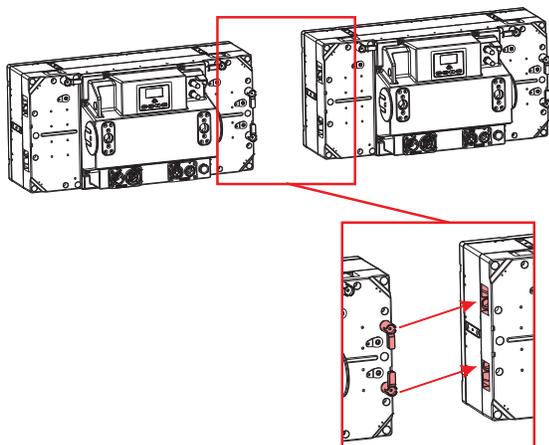
**ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS
FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE
FIXTURE WILL NOT FALL IF THE CLAMP FAILS.**

INSTALLATION GUIDELINES

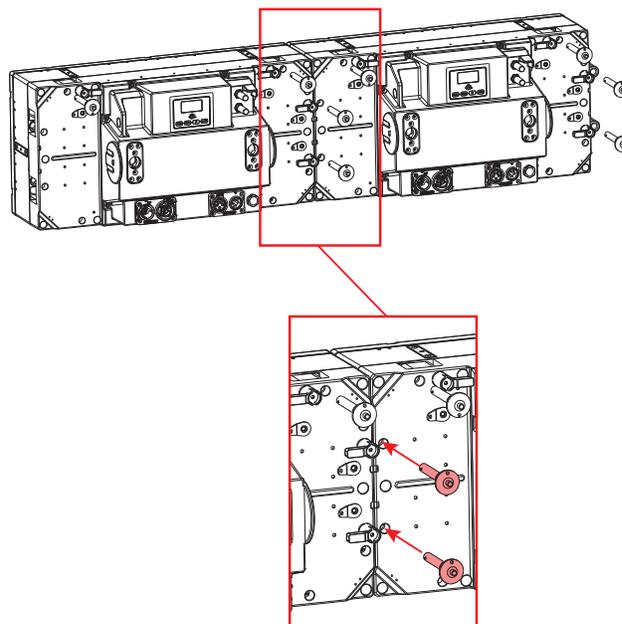
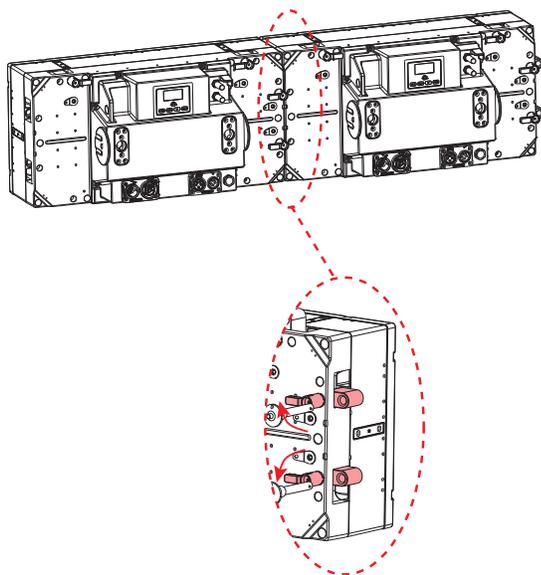
MULTI UNIT INSTALLATION

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

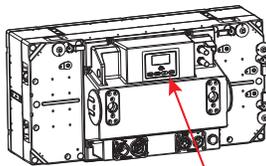
MULTI UNIT HANGING INSTALLATION

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. Guidelines for multi-unit hanging installations are as follows:

- Each vertical column of fixtures must be supported by its own mounting clamp, which should be affixed to the top-most fixture in the column.
- **Due to the location of the clamp mounting points, the top-most fixture in a column MUST be oriented horizontally (display screen oriented upright).** However, all lower fixtures in a column may be oriented either vertically (display screen turned on its left side) or horizontally (display screen oriented upright).
- Fixtures may be connected laterally for the purposes of alignment, but these lateral connections should NOT bear any structural load.

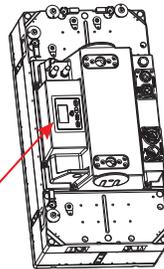
PLEASE NOTE: THE MAXIMUM NUMBER OF UNITS THAT CAN BE SAFELY SUSPENDED FROM A SINGLE HANGING COLUMN IS 8 UNITS, REGARDLESS OF THE ORIENTATION OF INDIVIDUAL FIXTURES, WITH A MAXIMUM WEIGHT OF 176 LBS (80 KG).

Horizontal Orientation



Display screen upright

Vertical Orientation



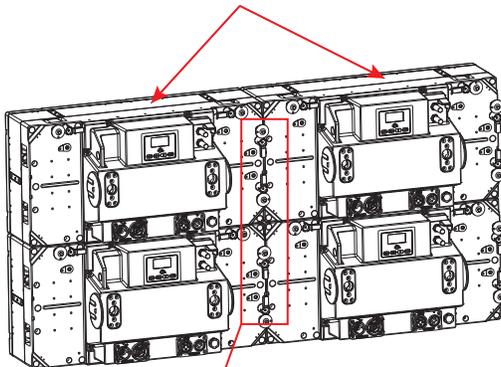
Display screen turn on left



WHEN INSTALLING MULTIPLE INTER-CONNECTED 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!

Multiple Columns

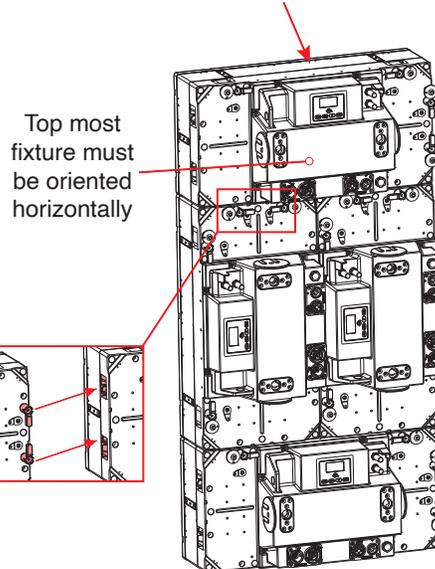
Each column requires its own clamp



Lateral connections between neighboring columns should not bear any load

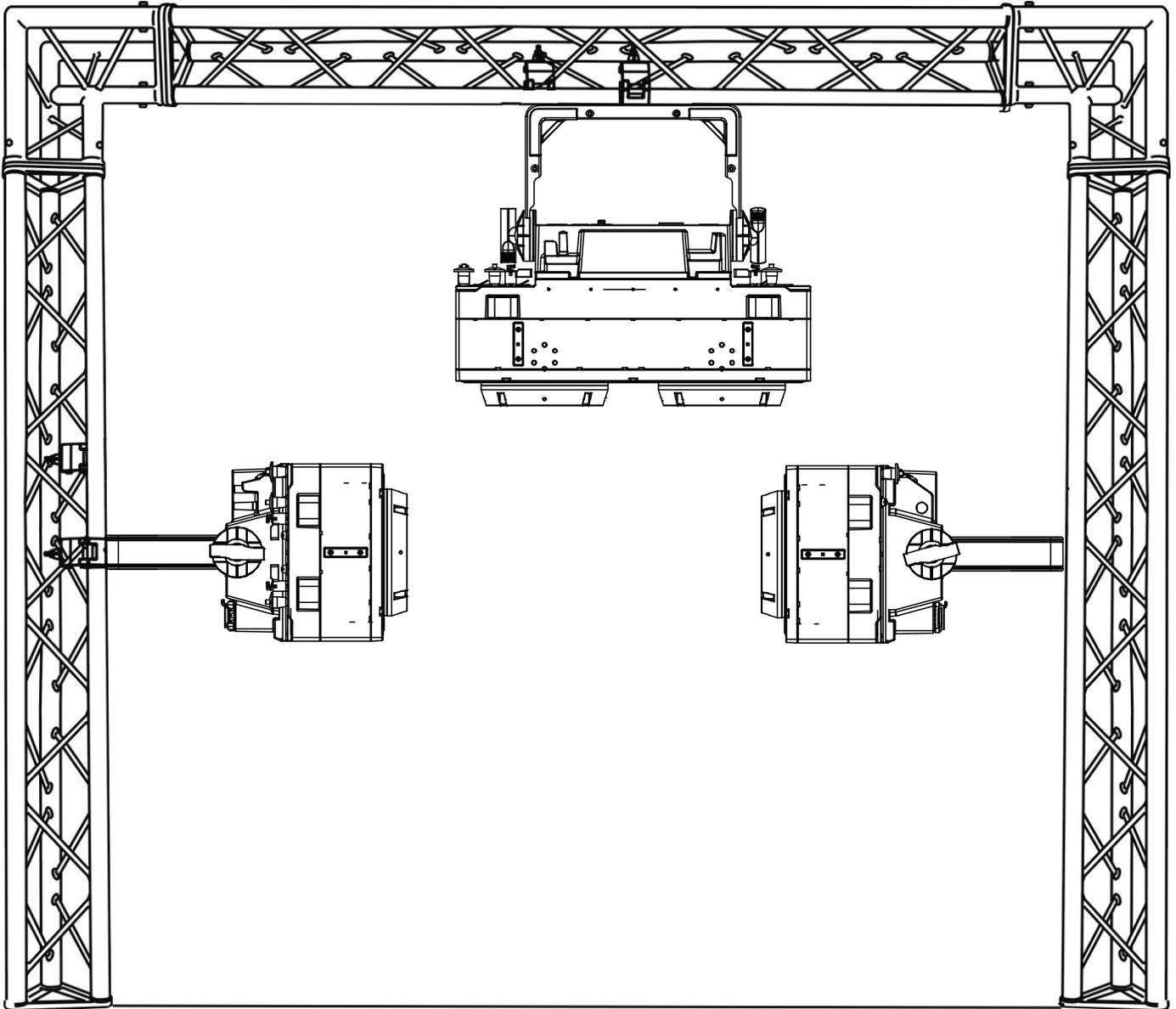
Mixed Vertical and Horizontal Orientation

Single column requires one clamp



Top most fixture must be oriented horizontally

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.

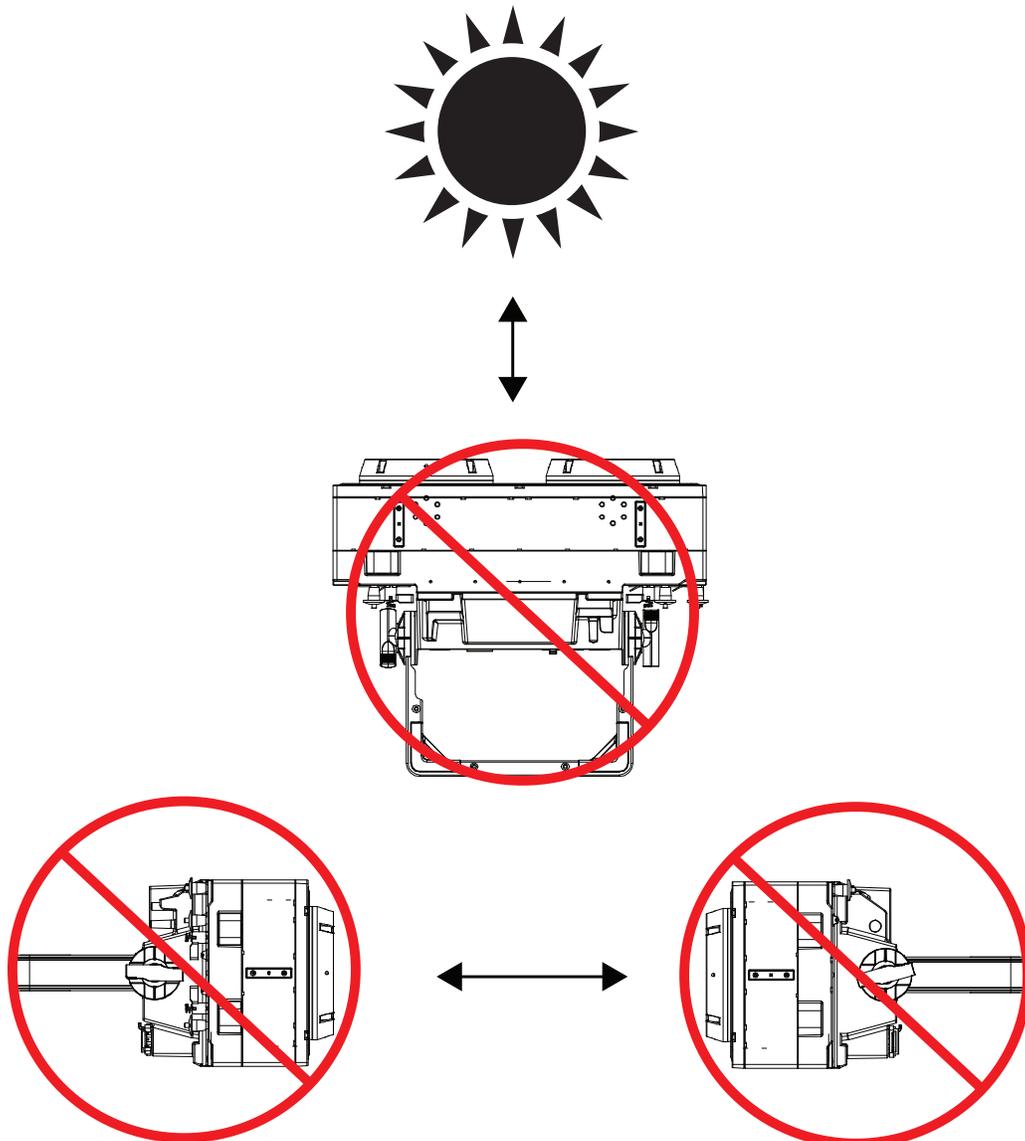
INSTALLATION GUIDELINES

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, 13Ch, 16Ch, 18Ch-A, 18Ch-B, 19Ch, 21Ch, 22Ch, 24Ch, 25Ch, 26Ch, 29Ch, 31Ch, 34Ch, 35Ch, 40Ch, 41Ch

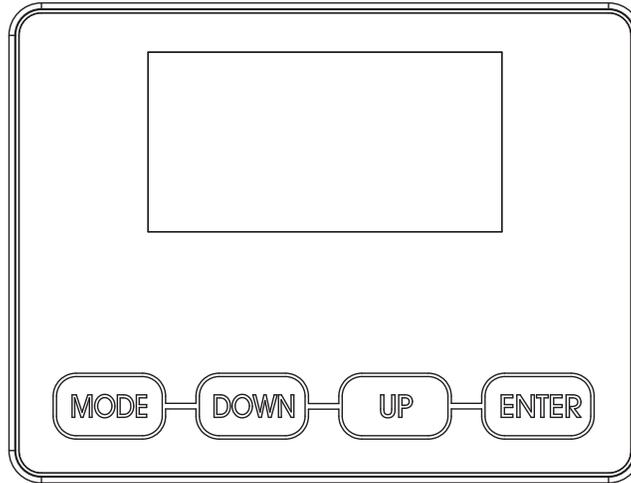
Please be aware that not all RDM devices support all RDM features, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the fea-

CODE	PARAMETER
0x0200	Sensor Definition
0x0201	Sensor Value
0x0080	Device Model Description
0x0081	Manufacturer Label
0x0082	Device Label
0x00E0	DMX Personality
0x00E1	DMX Personality Description
0x0090	Factory Defaults
0x0020	Queued Message
0x0122	Default Slot Value
0x00C2	Boot Software Version Label
0x00C1	Boot Software Version ID
0x0051	Parameter Description
0x0070	Product Detail ID List

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
		13Ch
		16Ch
		18Ch-A
		18Ch-B
		19Ch
		21Ch
		22Ch
		24Ch
		25Ch
		26Ch
	29Ch	
	31Ch	
	34Ch	
	35Ch	
	40Ch	
	41Ch	
No DMX Status	Hold Last	
	Blackout	
	Manual Settings	
	Internal Programs	

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)		
PERSONALITY	Prim/Sec Mode	Primary / Secondary	
	Signal	DMX or Aria	Auto
			DMX
		Aria	
		Aria In / DMX Out	On / Off
		DMX and Aria 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
		Security	Enable / Disable
	Set or Edit Password		
	Clear Password		
	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		
Pixel Flip	Off / On		
Tungsten	Off / On		

SYSTEM MENU

MAIN MENU		OPTIONS / VALUES (Default Settings in BOLD)		
PERSONALITY (continued)	Display	Screen Saver Delay	1 - 10	
		Screen Lock	Off - 10min	
		Rotate Display	Yes	
			No	
	Auto			
	Temperature Unit	°C / °F		
	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			

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)			
MANUAL (continued)	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		
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		

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)			
INFORMATION (continued)	Product 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 SETUP AND GUIDELINES

This fixture is equipped with Aria X2. Please note that Aria's wireless functions are switched off by default. Activate Aria X2 and Bluetooth in the system menu to take advantage of the fixture's wireless feature set for wireless connectivity and over the air software updates.

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.

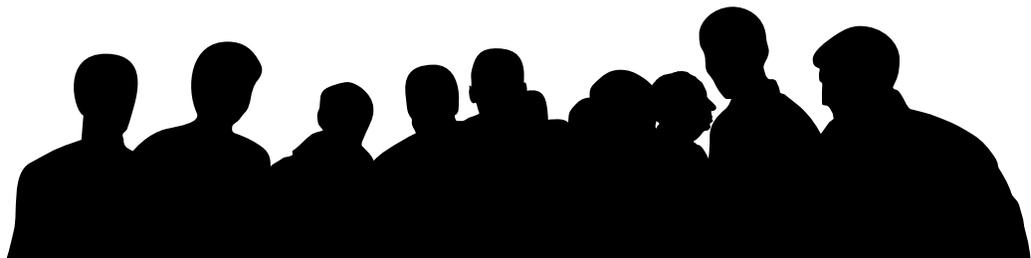
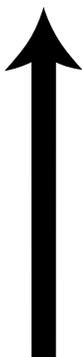
Installation Recommendations:

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**



ARIA SETUP AND GUIDELINES

GENERAL INFORMATION

The Aria Bluetooth app has the ability to connect wirelessly to any device that has Aria wireless DMX installed and has Bluetooth enabled.

Before installing the fixture in a remote location, double check that the fixture's main power is switched on, and that the Bluetooth function has been enabled in the fixture's system menu. Certain fixtures may have Bluetooth disabled by default. If this function is disabled, then the fixture cannot be configured remotely using the Aria app, and will have to be configured directly from the fixture's control screen.

Additionally, the user should consider setting the fixture's No DMX setting to "Hold Last". This will allow the fixture to continue running using the current settings, even if the Aria app device moves out of range, the app is closed, or the signal is otherwise interrupted, minimizing disruption in the operation of the fixtures.

LEGACY DEVICES

Please note that legacy connected devices, such as those using Wifly, E-Fly, or Magfly, are not compatible with this app. For such legacy devices, the use of a bridge is recommended, as the bridge can communicate with these devices via its SM220 protocol.

The Aria X2 BLE app is currently available from the Apple app store.

FIXTURE IDENTIFICATION

Aria compatible devices can be identified and connected via the Fixtures tab in the app. This tab displays a field of twenty-four buttons that can be assigned to Aria compatible devices that are within range, and the buttons will automatically be assigned to devices in the order in which they are discovered. If more than twenty-four units are within range, it may be necessary to use the filter feature to search for the desired fixture. Button location can be edited by selecting the configuration key, then the user can drag and drop the buttons to the desired location and hit save to keep changes. Once a device is known to the app, it can also be assigned to a particular button. From that point forward, the assigned device will always be assigned to that button location.

IMPORTANT NOTE: For version 0.65 or higher, a shared system password is required to connect to any device.

Unlike wireless DMX, Bluetooth is a connect first protocol. To connect to a device or fixture, tap the assigned button in the **Fixtures** tab. If the connection is successful, a green frame will appear around the button, indicating that the app was able to retrieve the current channel values from the fixture. The app must be connected to a fixture in order to use its channel controls or view and change settings. Please note that not all Aria devices have channel controls.

Additionally, each fixture can only be connected to one device with the app at any given time. Once a fixture is connected to the app installed on one device, any other devices will be blocked from connecting. As a result, when setting up a new fixture for the first time, best practice is to have only a single user with the app open within range, in order to ensure that the fixture pairs to the intended user's device.

ARIA SETUP AND GUIDELINES

The second table section shows all Aria devices detected in range. A checkmark indicates the device is currently assigned to a button. If more than 24 devices are within range, the user may remove or add devices to the buttons list by tapping a row to check or uncheck a device. If all buttons are full, it will be necessary to uncheck a device before adding another.

Filter: The user can filter which Aria devices get button assignments by tapping “filter” at the top of the view. A popup will appear where the user can enter text to filter devices by username, model name, or manufacturer. **Please note that these searches are case sensitive.**

Note: If a device shows an asterisk (*) it means that there is no fixture profile currently available, and therefore there will be limited support available for that device. The user will still be able to connect and adjust channels if the device supports that feature, but the user will not be able to view how many channels the device has or the channel names.

SECURITY

Each fixture must have a password saved to be secure. When a new fixture is installed for the first time, its password will automatically be set to the app’s system password on first connection. Once the password has been entered, the user will need to exit out to the main page containing the fixture buttons, then de-select and re-select the fixture to lock in the password. From that point forward only, controlling devices that use the correct password can connect to this fixture. **This security is now required by law in most jurisdictions.**

The app will detect any Aria capable fixture within range, even if the app does not have the password to that fixture and therefore cannot access that fixture. If that fixture is selected in the app, the green frame will momentarily appear around that fixture’s button, but then disappear. This indicates that the fixture is visible but inaccessible.

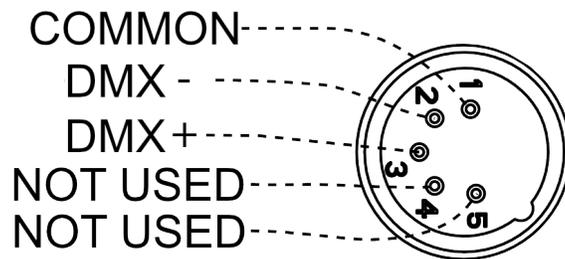
DMX SET UP

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.

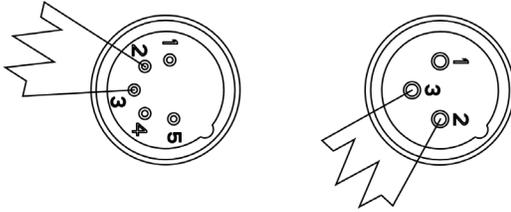
Data Cable (DMX Cable) Requirements (For DMX Operation): This unit can be controlled via DMX-512 protocol. The DMX address is set on the rear panel of the unit. Your unit and your DMX controller require a standard 5-pin XLR connector for data input and data output. We recommend Accu-Cable DMX cables. 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
13Ch	1	14	27	40
16Ch	1	17	33	49
18Ch A / B	1	19	37	55
19Ch	1	20	39	58
21Ch	1	22	43	64
22Ch	1	23	45	67
24Ch	1	25	49	73
25Ch	1	26	51	76
26Ch	1	27	53	79
29Ch	1	30	59	88
31Ch	1	32	63	94
34Ch	1	35	69	103
35Ch	1	36	71	106
40Ch	1	41	81	121
41Ch	1	42	83	124

NOTE: The DMX traits on the following pages are divided into two sections.

- **Linked Cell Control** covers channel modes in which the two cells are jointly controlled: 1Ch, 2Ch-A, 5Ch, 8Ch, 10Ch, 11Ch, 12Ch-A, 12Ch-B, 16Ch, 19Ch, 22Ch, 25Ch, and 31Ch.
- **Separate Cell Control** covers channel modes in which each cell is controlled individually: 2Ch-B, 4Ch, 13Ch, 18Ch-A, 18Ch-B, 21Ch, 24Ch, 26Ch, 29Ch, 34Ch, 35Ch, 40Ch, and 41Ch.

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	000 - 255	Color Macros 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%
														Color Temp Pre-sets
													000	Off
					11				16	10	19	19	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
													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 (continued)
													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
										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 - 010	No Function (Default LED refresh rate 1200 Hz)
													011	900 Hz
													012	910 Hz
													013	920 Hz
													014	930 Hz
													015	940 Hz
													016	950 Hz
													017	960 Hz
													018	970 Hz
													019	980 Hz
													020	990 Hz
													021	1000 Hz
													022	1010 Hz
													023	1020 Hz
													024	1030 Hz
													025	1040 Hz
													026	1050 Hz
													027	1060 Hz
													028	1070 Hz
													029	1080 Hz
													030	1090 Hz
													031	1100 Hz
													032	1110 Hz
													033	1120 Hz
													034	1130 Hz
													035	1140 Hz
													036	1150 Hz
													037	1160 Hz
													038	1170 Hz
													039	1180 Hz
													040	1190 Hz

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				
															Special Functions (continued)	
															106 - 111	Enable Bluetooth (hold 3 s)
															112 - 117	Disable Bluetooth (hold 3 s)
											22				118 - 122	Enable Pixel Flip (hold 3 s)
												25			123 - 127	Disable Pixel Flup (hold 3 s)
															128 - 132	Enable Tungsten (hold 3s)
															133 - 139	Disable Tungsten (hold 3s)
															140 - 255	No Function

DMX TRAITS (SEPARATE CELL CONTROL)

Features subject to change without notice														
MODE / CHANNELS													VALUES	FUNCTION
2 Ch-B	4 Ch	13 Ch	18 Ch-A	18 Ch-B	21 Ch	24 Ch	26 Ch	29 Ch	34 Ch	35 Ch	40 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	1	1	1	1	1	000 - 255	Red Cell 1 0 - 100%
							2	2	2	2	2	2	000 - 255	Red Cell 1 Fine Fine 16-bit control
		2	2	2	2	2	3	3	3	3	3	3	000 - 255	Green Cell 1 0 - 100%
							4	4	4	4	4	4	000 - 255	Green Cell 1 Fine Fine 16-bit control
		3	3	3	3	3	5	5	5	5	5	5	000 - 255	Blue Cell 1 0 - 100%
							6	6	6	6	6	6	000 - 255	Blue Cell 1 Fine Fine 16-bit control
		4	4	4	4	4	7	7	7	7	7	7	000 - 255	Amber Cell 1 0 - 100%
							8	8	8	8	8	8	000 - 255	Amber Cell 1 Fine Fine 16-bit control
		5	5	5	5	5	9	9	9	9	9	9	000 - 255	White Cell 1 0 - 100%
							10	10	10	10	10	10	000 - 255	White Cell 1 Fine Fine 16-bit control
		6	6	6	6	6	11	11	11	11	11	11	000 - 255	Red Cell 2 0 - 100%
							12	12	12	12	12	12	000 - 255	Red Cell 2 Fine Fine 16-bit control
		7	7	7	7	7	13	13	13	13	13	13	000 - 255	Green Cell 2 0 - 100%
							14	14	14	14	14	14	000 - 255	Green Cell 2 Fine Fine 16-bit control
		8	8	8	8	8	15	15	15	15	15	15	000 - 255	Blue Cell 2 0 - 100%
							16	16	16	16	16	16	000 - 255	Blue Cell 2 Fine Fine 16-bit control
		9	9	9	9	9	17	17	17	17	17	17	000 - 255	Amber Cell 2 0 - 100%
							18	18	18	18	18	18	000 - 255	Amber Cell 2 Fine Fine 16-bit control
		10	10	10	10	10	19	19	19	19	19	19	000 - 255	White Cell 2 0 - 100%
							20	20	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	13 Ch	18 Ch-A	18 Ch-B	21 Ch	24 Ch	26 Ch	29 Ch	34 Ch	35 Ch	40 Ch	41 Ch			
															Shutter, Strobe Cells
														000 - 031	LEDs Off
														032 - 063	LEDs On
					11		11			21		21		064 - 095	Strobe Effect, slow to fast
														096 - 127	LEDs On
														128 - 159	Pulse Effect in Sequences
														160 - 191	LEDs On
														192 - 223	Zone Strobe Random, slow to fast
														224 - 255	LEDs On
					12		12			22		22			Dimmer, Cell 1
														000 - 255	Intensity, 0 to 100%
										23		23			Dimmer Fine, Cell 1
														000 - 255	Intensity
					13		13			24		24			Dimmer, Cell 2
														000 - 255	Intensity, 0 to 100%
										25		25			Dimmer Fine, Cell 2
														000 - 255	Intensity
		11	11	14	11	14	21	21	26	21	26	21	000 - 255	Red Background	
														0 - 100%	
							22	22	27	22	27	22	000 - 255	Red Background Fine	
														Fine 16-bit control	
		12	12	15	12	15	23	23	28	23	28	23	000 - 255	Green Background	
														0 - 100%	
							24	24	29	24	29	24	000 - 255	Green Background Fine	
														Fine 16-bit control	
		13	13	16	13	16	25	25	30	25	30	25	000 - 255	Blue Background	
														0 - 100%	
							26	26	31	26	31	26	000 - 255	Blue Background 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	13 Ch	18 Ch-A	18 Ch-B	21 Ch	24 Ch	26 Ch	29 Ch	34 Ch	35 Ch	40 Ch	41 Ch			
				17		17			32		32				Shutter, Strobe Background
														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	Zone Strobe Random, slow to fast
														224 - 255	LEDs On
				18		18			33		33				Dimmer, Background
														000 - 255	Intensity, 0 to 100%
									34		34				Dimmer Fine, Background
														000 - 255	Intensity
						19				27	35	27			Color Macros
														000 - 255	Refer to Color Macros Chart
			14		14	20				28	36	28			Color Temp Linear
														000 - 255	0 - 100%
															Color Temp Pre-sets
														000	Off
			15		15	21				29	37	29		001 - 054	2700K
														055 - 109	3200K
														110 - 164	4000K
														165 - 219	5600K
														220 - 255	6500K
				16		16		27		30		30			All 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	Zone Strobe Random, slow to fast
														224 - 255	LEDs On
			17		17			28		31		31			All Dimmer Intensity
														000 - 255	0 - 100%

DMX TRAITS (SEPARATE CELL CONTROL)

Features subject to change without notice															
MODE / CHANNELS													VALUES	FUNCTION	
2 Ch-B	4 Ch	13 Ch	18 Ch-A	18 Ch-B	21 Ch	24 Ch	26 Ch	29 Ch	34 Ch	35 Ch	40 Ch	41 Ch			
			18		18			29		32			32		All Dimmer Intensity Fine
														000 - 255	Fine Adjustment
													33		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
													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
					19	22								041 - 060	Stage
														061 - 080	TV
														081 - 100	Architectural
														101 - 120	Theatre
														121 - 140	Stage 2

DMX TRAITS (SEPARATE CELL CONTROL)

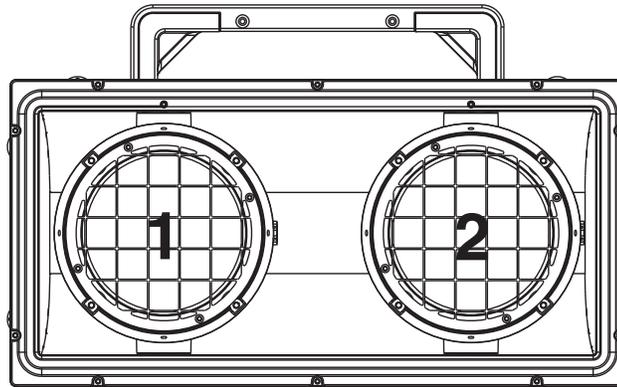
Features subject to change without notice														
MODE / CHANNELS													VALUES	FUNCTION
2 Ch-B	4 Ch	13 Ch	18 Ch-A	18 Ch-B	21 Ch	24 Ch	26 Ch	29 Ch	34 Ch	35 Ch	40 Ch	41 Ch		
					19	22				33	38	39		Dim Speed
													141	0.1 s
													142	0.2 s
													143	0.3 s
													144	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
					20	23				34	39	40		Dim Curves
													000 - 020	Square
													021 - 040	Linear
													041 - 060	Inv Squa
													061 - 080	S Curve
													081 - 255	No Function
					21	24				35	40	41		Special Func-tions
													000 - 010	No Function (De-fault LED Refresh Rate = 1200 Hz)
													011	900 Hz
													012	910 Hz
													013	920 Hz
													014	930 Hz
													015	940 Hz
													016	950 Hz
													017	960 Hz
													018	970 Hz
													019	980 Hz
													020	990 Hz
													021	1000 Hz
													022	1010 Hz
													023	1020 Hz
													024	1030 Hz
													025	1040 Hz

DMX TRAITS (SEPARATE CELL CONTROL)

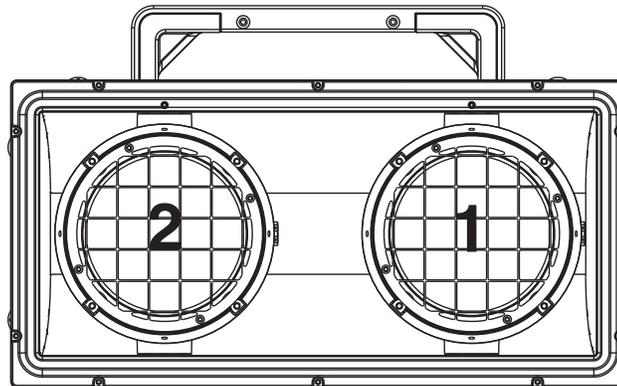
Features subject to change without notice													VALUES	FUNCTION		
MODE / CHANNELS																
2 Ch-B	4 Ch	13 Ch	18 Ch-A	18 Ch-B	21 Ch	24 Ch	26 Ch	29 Ch	34 Ch	35 Ch	40 Ch	41 Ch				
															Special Functions (continued)	
															026	1050 Hz
															027	1060 Hz
															028	1070 Hz
															029	1080 Hz
															030	1090 Hz
															031	1100 Hz
															032	1110 Hz
															033	1120 Hz
															034	1130 Hz
															035	1140 Hz
															036	1150 Hz
															037	1160 Hz
															038	1170 Hz
															039	1180 Hz
															040	1190 Hz
															041	1200 Hz
															042	1210 Hz
															043	1220 Hz
															044	1230 Hz
															045	1240 Hz
															046	1250 Hz
															047	1260 Hz
					21	24				35	40	41			048	1270 Hz
															049	1280 Hz
															050	1290 Hz
															051	1300 Hz
															052	1310 Hz
															053	1320 Hz
															054	1330 Hz
															055	1340 Hz
															056	1350 Hz
															057	1360 Hz
															058	1370 Hz
															059	1380 Hz
															060	1390 Hz
															061	1400 Hz
															062	1410 Hz
															063	1420 Hz
															064	1430 Hz
															065	1440 Hz
															066	1450 Hz
															067	1460 Hz
															068	1470 Hz
															069	1480 Hz
															070	1490 Hz
															071	1500 Hz
															072	2500 Hz

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

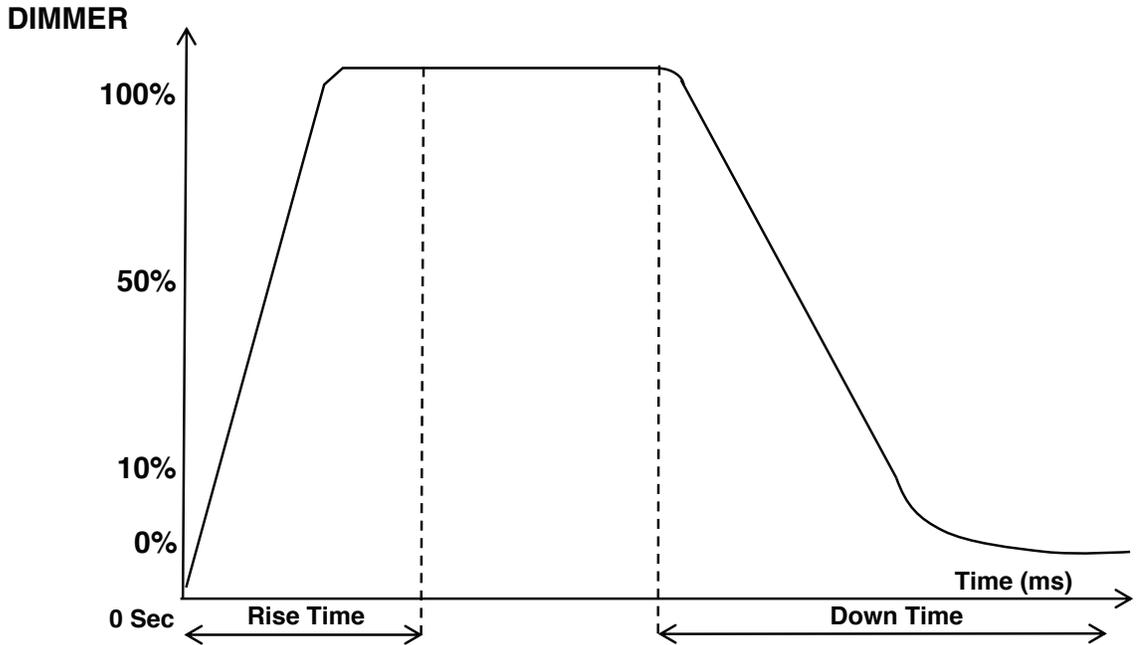
MACRO	DMX VALUES	RED	GREEN	BLUE	AMBER	WHITE
43	169 - 172	119	130	199	0	0
44	173 - 176	147	164	212	0	0
45	177 - 180	88	2	163	0	0
46	181 - 184	0	38	86	0	0
47	185 - 188	0	142	208	0	0
48	189 - 192	52	148	209	0	0
49	193 - 196	1	134	201	0	0
50	197 - 200	0	145	212	0	0
51	201 - 204	0	121	192	0	0
52	205 - 208	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

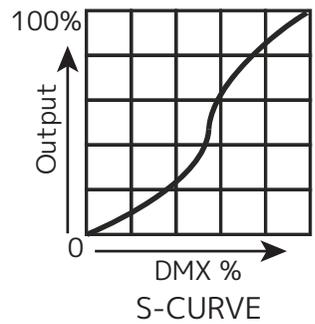
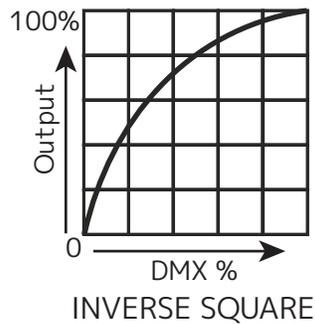
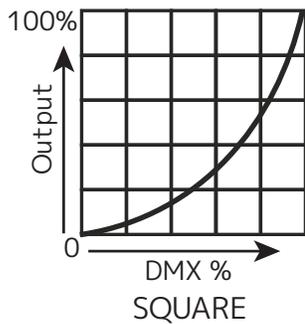
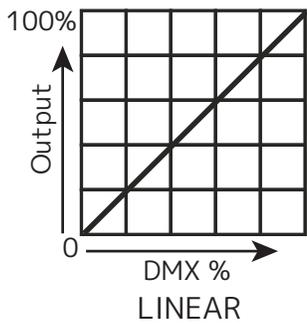
Colors shown are an approximate representation. <https://www.luxalight.eu/en/cie-converto>

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.

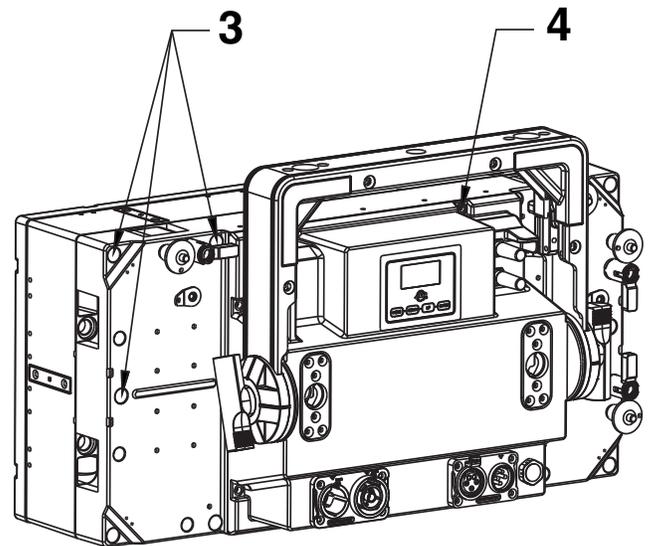
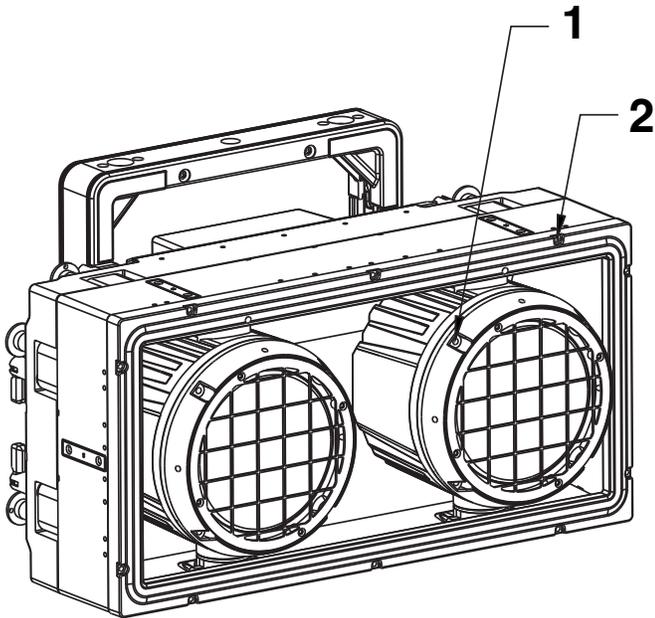
TORQUE DRIVERS (Recommended): UTICA TS-30 (shown)

ALTERNATE DRIVERS:

- Proto J6107A
- Wiha 28887



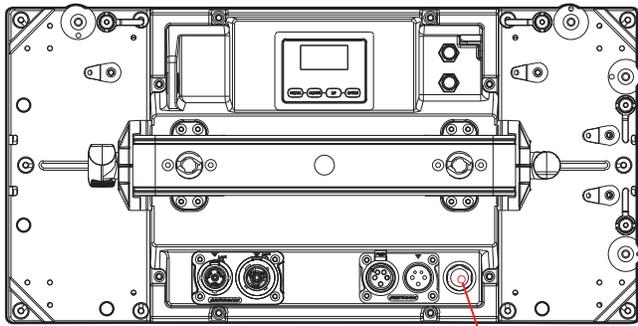
CAUTION! DO NOT OVER TORQUE SCREWS, AS THIS CAN CAUSE LEAKAGE ISSUES!



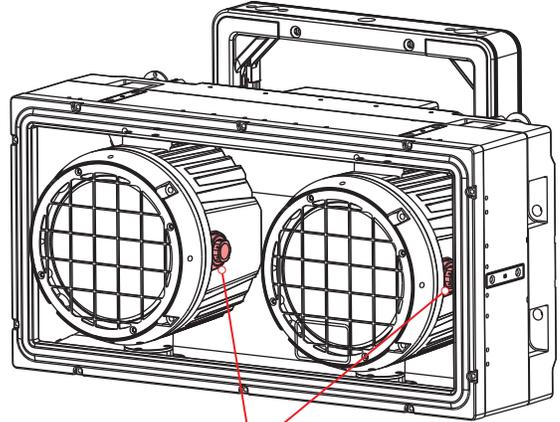
NO.	LOCATION	QUANTITY	TORQUE
1	Head Front Cover	8	11.3 ± 0.4 lb-in (13.0 ± 0.5 kg-cm)
2	Front Frame	10	11.3 ± 0.4 lb-in (13.0 ± 0.5 kg-cm)
3	Rear Frame	10	11.3 ± 0.4 lb-in (13.0 ± 0.5 kg-cm)
4	Rear Cover	8	11.3 ± 0.4 lb-in (13.0 ± 0.5 kg-cm)

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)

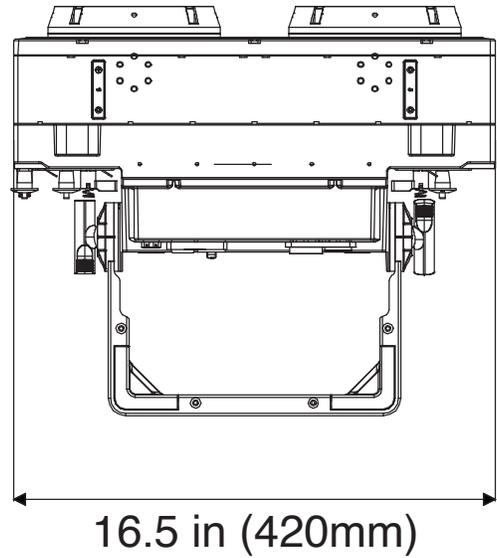
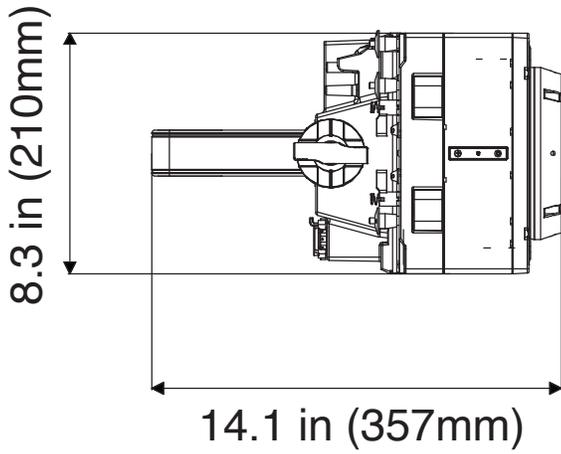
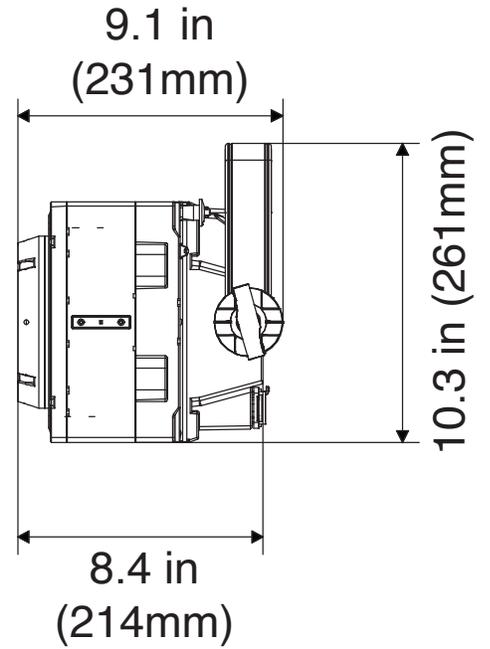
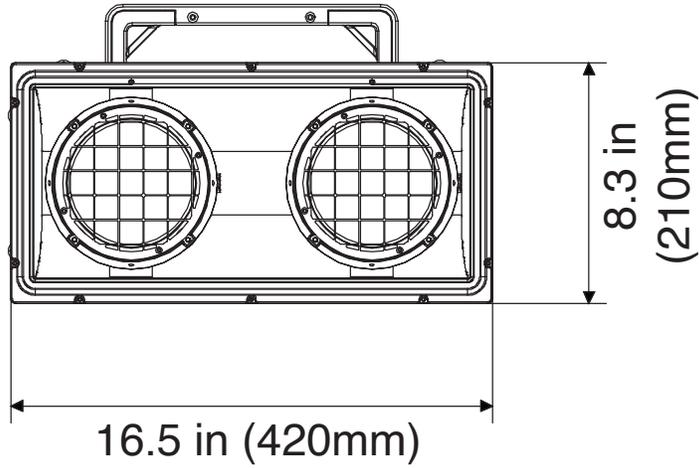
ERROR CODES

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: 900Hz - 25KHz
- 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)
- (26) DMX Channel Modes (1CH/ 2CH-A / 2CH-B / 4 CH / 5CH / 8CH / 10CH / 11CH / 12CH-A / 12CH-B / 13-CH / 16CH / 18CH-A / 18CH-B / 19CH / 21CH / 22CH / 24CH / 25CH / 26CH / 29CH / 31CH / 34CH / 35CH / 40CH / 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: 9.1" (231mm) Width: 16.5" (420mm) Height: 10.3" (261mm)
- Weight: 25.4 lbs. (11.5 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!



