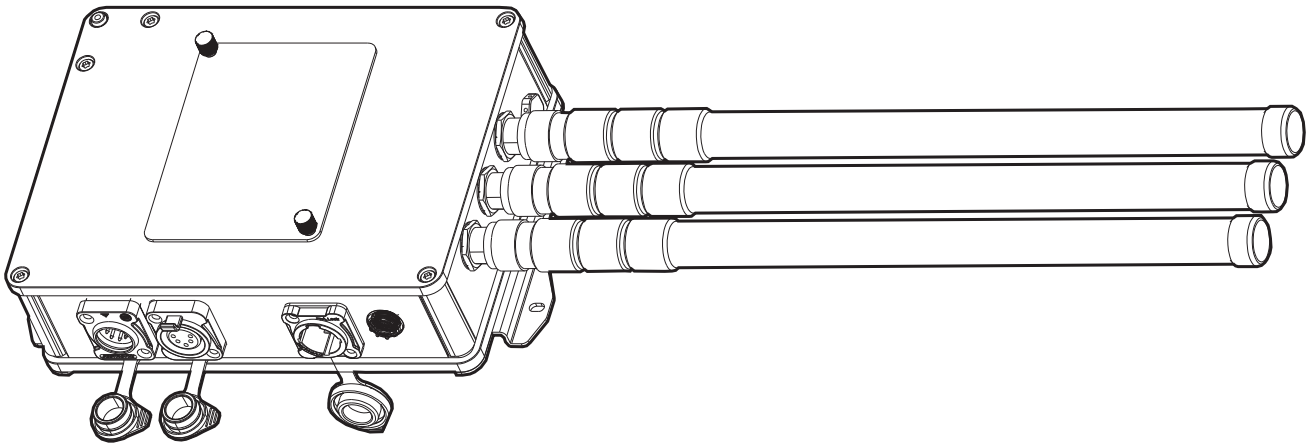
aria



ARIA X2 IPC BRIDGE

User Manual

Elation Professional USA | 6122 S. Eastern Ave. | Los Angeles, CA. 90040
323-582-3322 | www.elationlighting.com | info@elationlighting.com

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+52 (728) 282-7070

DOCUMENT VERSION

Due to additional product features and/or enhancements, an updated version of this document may be available online. Please scan the QR Code with your mobile device or visit www.elationlighting.com for the latest revision/update of this manual, before installation and/or programming.

Date	Document Version	Software Version >	Modes	Notes
08/05/25	1	1.00	N/A	Initial Release
08/14/25	1.1	N/C	No change	Updated System Menu, Specifications

CONTENTS

GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information. This device is intended for use by trained personnel only, and is not suitable for private use.

UNPACKING

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

BOX CONTENTS

Power Cable(x1)

CUSTOMER SUPPORT

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

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
323-582-3322 | support@elationlighting.com

ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
+31 45 546 85 63 | Fax +31 45 546 85 96 | support@elationlighting.eu

REPLACEMENT PARTS please visit parts.elationlighting.com

LIMITED WARRANTY

For up-to-date warranty information regarding your device, please visit Elation's warranty information page online at https://www.elationlighting.com/warranty-information, scan the QR code below, or contact Elation customer service.

USA: https://www.elationlighting.com/warranty-information

EU: https://www.elationlighting.eu/terms_and_conditions

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.

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/Seaside Environment Installations: A maritime/seaside environment is adjacent to the sea and caustic to electronics through exposure to atomized salt water and humidity, whereas a coastal environment extends 5 miles inland.

NOT suitable for maritime/seaside environment installations. Installing this fixture in a maritime/seaside 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/seaside environment will void the manufacturer’s 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. The chassis should be inspected for any signs of contaminants. 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@elationlighting.com for any needed parts or manuals.

SAFETY GUIDELINES

This device is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. Elation Professional is not responsible for injury and/or damages resulting from the misuse of this device due to the disregard of the information printed in this manual. Only the original included parts and/or accessories for this device should be used. Any modifications to the device, included and/or accessories will void the original manufactures warranty and increase the risk of damage and/or personal injury.

PROTECTION CLASS 1 - DEVICE MUST BE PROPERLY GROUNDED

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS DEVICE 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 DEVICE INTO A DIMMER PACK!
NEVER OPEN THIS DEVICE WHILE IN USE!
UNPLUG POWER BEFORE SERVICING DEVICE!
NEVER TOUCH DEVICE DURING OPERATION, AS IT MAY BE HOT!
KEEP FLAMMABLE MATERIALS AWAY FROM DEVICE!

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

DO NOT shake the device; avoid brute force when installing and/or operating the device.

DO NOT operate the device if the power cord is frayed, crimped, damaged, and/or if any of the power cord connectors are damaged and do not insert into the fixture securely with ease.

NEVER force a power cord connector into the device. If the power cord or any of its connectors are damaged, replace it immediately with a new one of a similar power rating.

When installing the device in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always install the device with an appropriately rated safety cable.

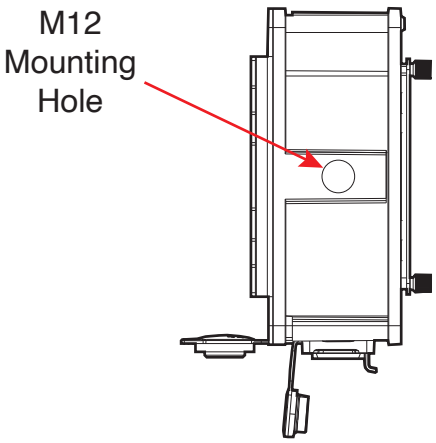
Always disconnect the device from the main power source before performing any type of service and/or cleaning procedure.

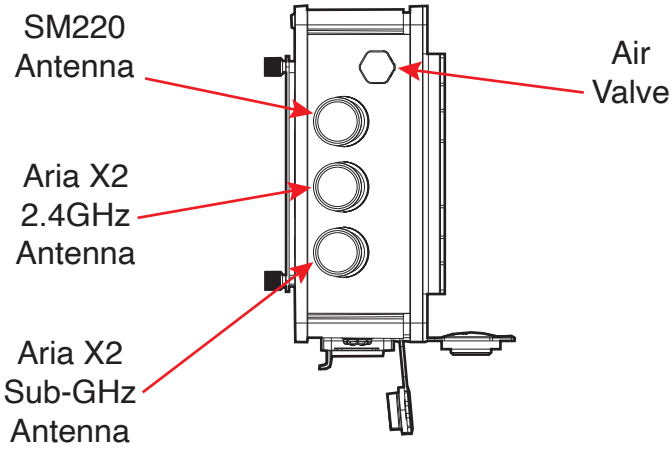
Only handle the power cord by the plug end; never pull out the plug by tugging the wire portion of the cord.

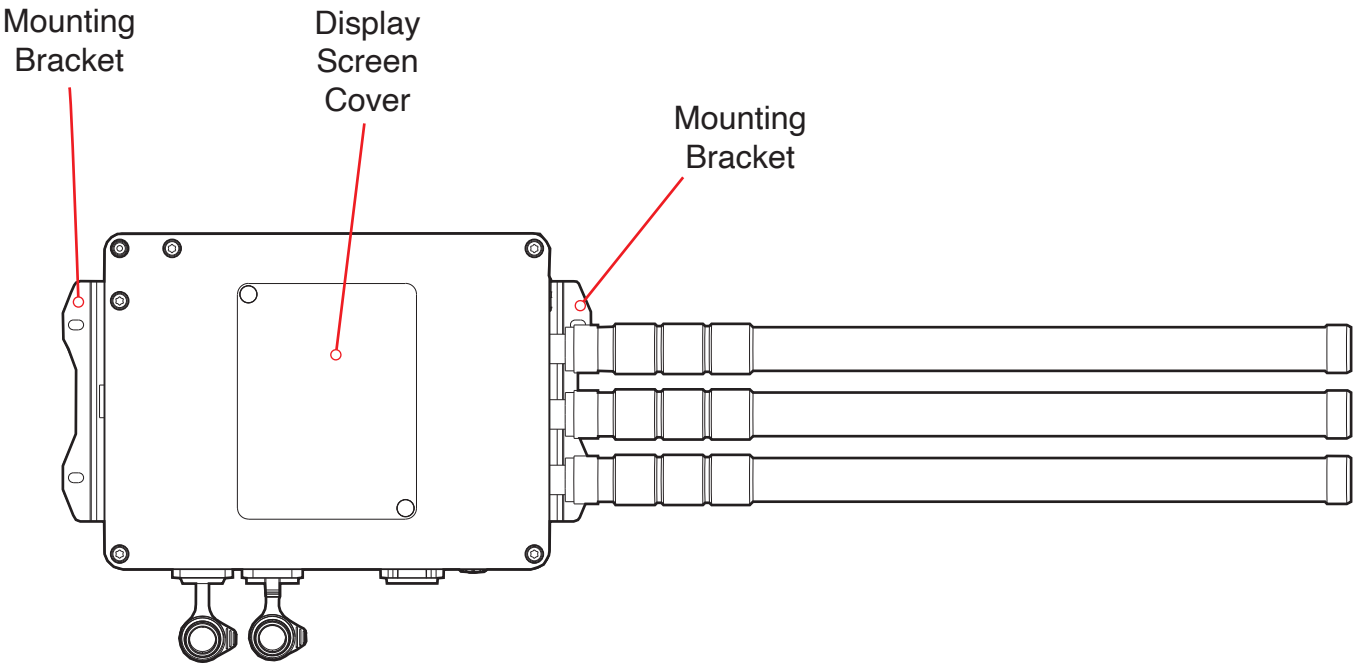
Consistent operational breaks will ensure the device functions properly for many years.

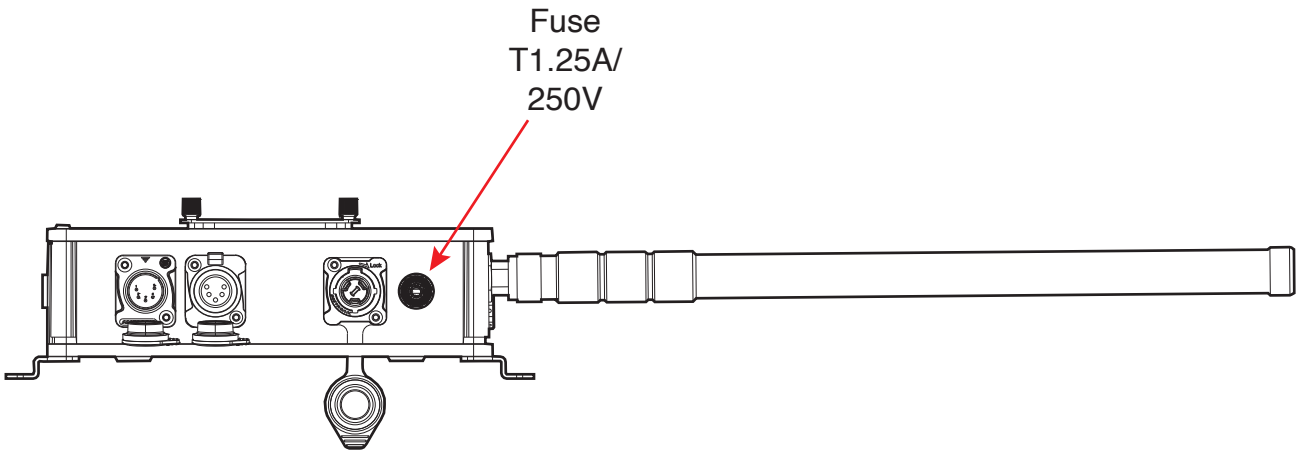
ONLY Use the original packaging and materials to transport the device for service.

OVERVIEW


M12
Mounting
Hole


SM220
Antenna
Air
Valve
Aria X2
2.4GHz
Antenna
Aria X2
Sub-GHz
Antenna

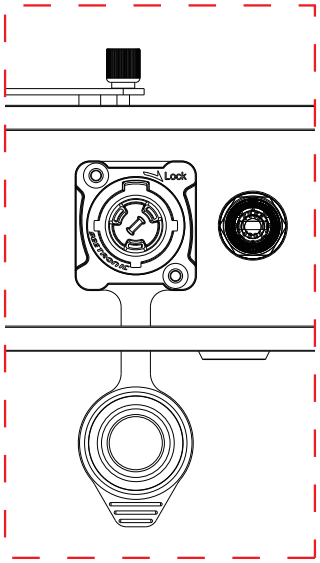

Mounting
Bracket
Display
Screen
Cover
Mounting
Bracket


Fuse
T1.25A/
250V

CONNECTIONS

AC CONNECTIONS

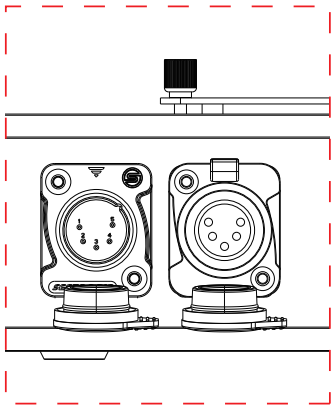
The Aria X2 IPC Bridge is rated for 100-240V 50/60Hz, and accepts AC mains power within that range. Do not connect it to power outside this range. Note that the device uses a T1.25A/250V fuse. Damage resulting from incorrect connection is not covered under warranty. Always use the provided twist-lock power cable to connect the unit to the power source.



DMX CONNECTIONS:

The DMX Input/Output connections are 5pin male/female XLR. The pin-out on the socket is pin 1 to shield, pin 2 to cold (-), and pin 3 to hot (+). Pins 4 and 5 are not used. Carefully connect DMX cables to the respective ports. To prevent damaging the DMX ports, provide strain relief and support. Avoid connecting FOH Snakes to the ports directly.

Pin	Connection
1	Com
2	Data -
3	Data +
4	Not connected
5	Not connected



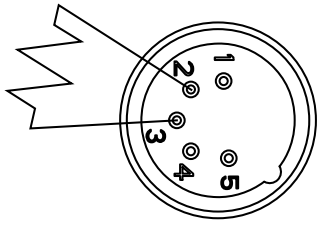
DMX SETUP

DMX-512:
Digital Multiplex, or DMX, serves as a universal protocol utilized by most lighting and controller manufacturers for communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is transmitted as serial data, traveling from fixture to fixture through the DATA 'IN' and DATA 'OUT' XLR terminals found on all DMX fixtures. Most controllers only have a DATA 'OUT' terminal.

DMX LINKING:
As a language, DMX enables all makes and models from different manufacturers to be connected and operated from a single controller, provided that all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission when using multiple DMX fixtures, use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not affect the DMX addressing. For example, a fixture assigned a DMX address of 1 can be placed anywhere in a DMX line—at the beginning, at the end, or anywhere in the middle. Therefore, the first fixture controlled by the controller could be the last fixture in the chain. When a fixture is assigned a DMX address of 1, the DMX controller knows to send data assigned to address 1 to that unit, regardless of its position in the DMX chain.

DATA CABLE (DMX CABLE) REQUIREMENTS:
The Aria X2 IPC Bridge can be controlled via the DMX-512 protocol. The DMX address is electronically set using the controls on the front panel of the unit. Both the unit and the DMX controller require an approved DMX-512 110 Ohm Data cable for data input and output. Accu-Cable DMX cables are recommended. If you are making your own cables, ensure that you use standard 110-120 Ohm shielded cable (which can be purchased at most professional sound and lighting stores). Cables should be made with a male and female XLR connector on either end of the cable. Additionally, keep in mind that DMX cable must be daisy-chained and cannot be split.

LINE TERMINATION:
When using longer runs of cable, one 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 connects between pins 2 and 3 of a male XLR connector (DATA + and DATA -). Insert this unit into the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.



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

DMX SETUP

ARIA X2 IPC BRIDGE OPERATION INSTRUCTION

Transmitter Mode: When transmitting, the signal indicator turns orange. The user can set either 2.4G or Sub-GHz frequency as well as selecting the channel.

Receiver Mode: When the user sets the device to receiver mode with the same frequency (2.4G or Sub-GHz) and channel as the transmitter device, the LED indicator turns green. The device can then be used control the Aria-compliant fixtures.

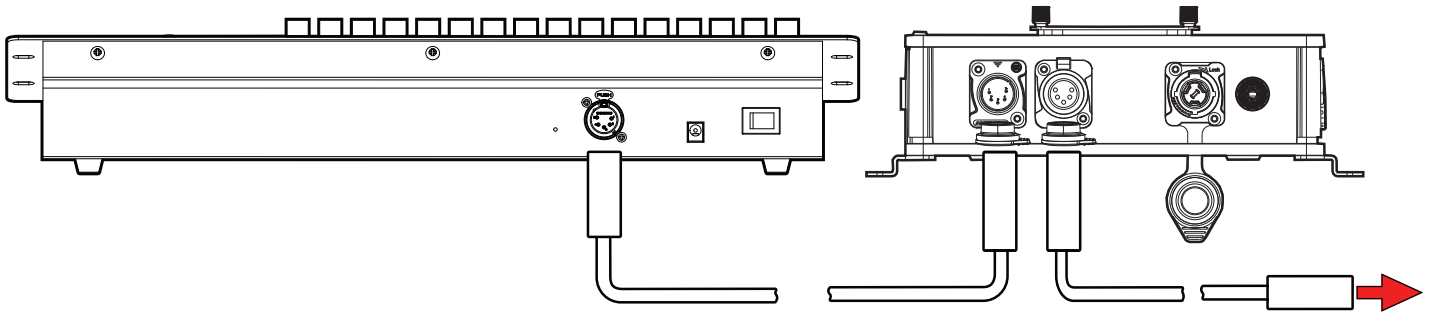
ARIA X2 IPC BRIDGE OPERATION INSTRUCTION FOR SM220 TRANSMITTING AND RECEIVING

Instruction: Set the menu to DMX in and SM220 out. When the SM220 indicator turns green, it indicates that it is receiving. When the SM220 indicator turns orange, it indicates that it is transmitting.

Set the channel of the SM220 receiver to be the same as the SM220 transmitter, and it will receive the signal from the transmitting device.

ARIA X2 IPC BRIDGE AS RECEIVER, AND THEN TRANSMITTING TO SM220 DEVICES AS BRIDGE

Aria X2 IPC Bridge as Receiver Mode: (Set menu to be Aria In, SM220 Out) Set the frequency to be the same as the transmitter. When it is receiving, the signal indicator turns green. The SM220 turns orange (which indicates it is transmitting). All devices with an SM220 module will receive the signal from the Aria X2 Bridge.



Link to next device

INSTALLATION INSTRUCTIONS

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

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

USE CAUTION WHEN POWER LINKING OTHER MODEL DEVICES AS THE POWER CONSUMPTION OF OTHER MODEL DEVICES MAY EXCEED THE MAXIMUM POWER OUTPUT OF THIS DEVICE. CHECK SILK SCREEN FOR MAXIMUM AMPS.

THE ARIA X2 IPC BRIDGE IS DESIGNED TO BE TRUSS-MOUNTED, WALL-MOUNTING, OR USED IN A STAND-ALONE CONFIGURATION, WHERE THE DEVICE MUST SIT ON A FIRM FLAT SURFACE.

Device **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

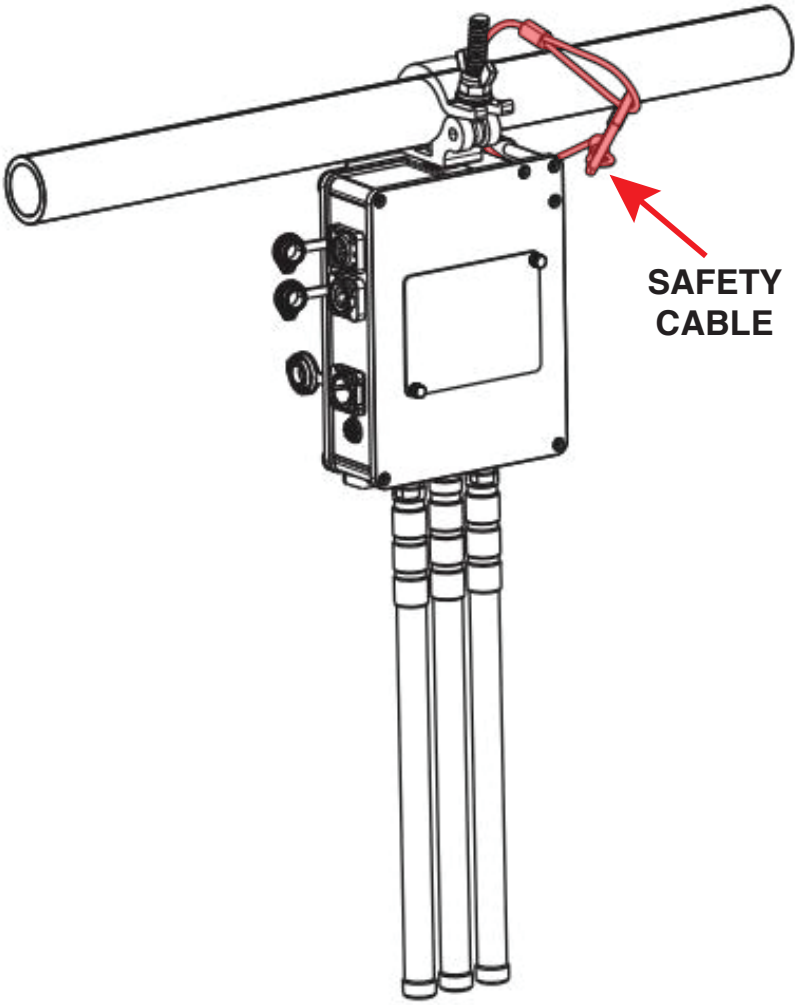
POWER LINKING

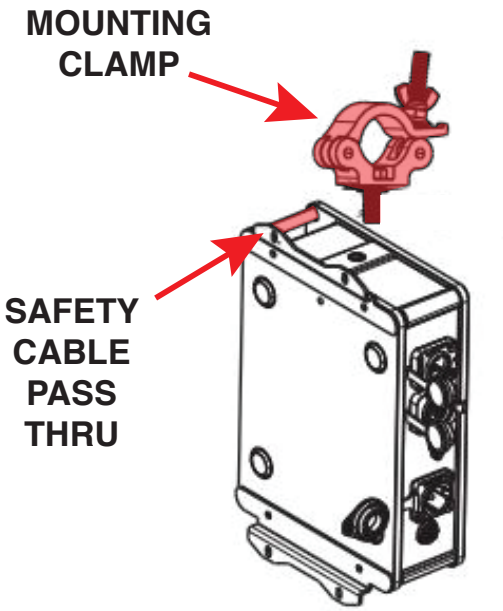
USE CAUTION WHEN POWER LINKING AS THE POWER CONSUMPTION MAY EXCEED THE MAXIMUM POWER OUTPUT ON THIS DEVICE. CHECK SILK SCREEN FOR MAXIMUM AMPS.

INSTALLATION GUIDELINES

TRUSS MOUNT INSTALLATION

Insert an M12 bolt (not included) through the mounting hole of the clamp (not included), and then thread it into the matching mounting hole on the side of the device opposite from the antennas. The bolt must be threaded 24mm (0.9 in) into the fixture base. Loop a safety cable around the truss and through the safety cable pass-through located at one corner of the device near the mounting clamp hole. Always use a safety cable of the proper weight rating when installing the device in a suspended environment.





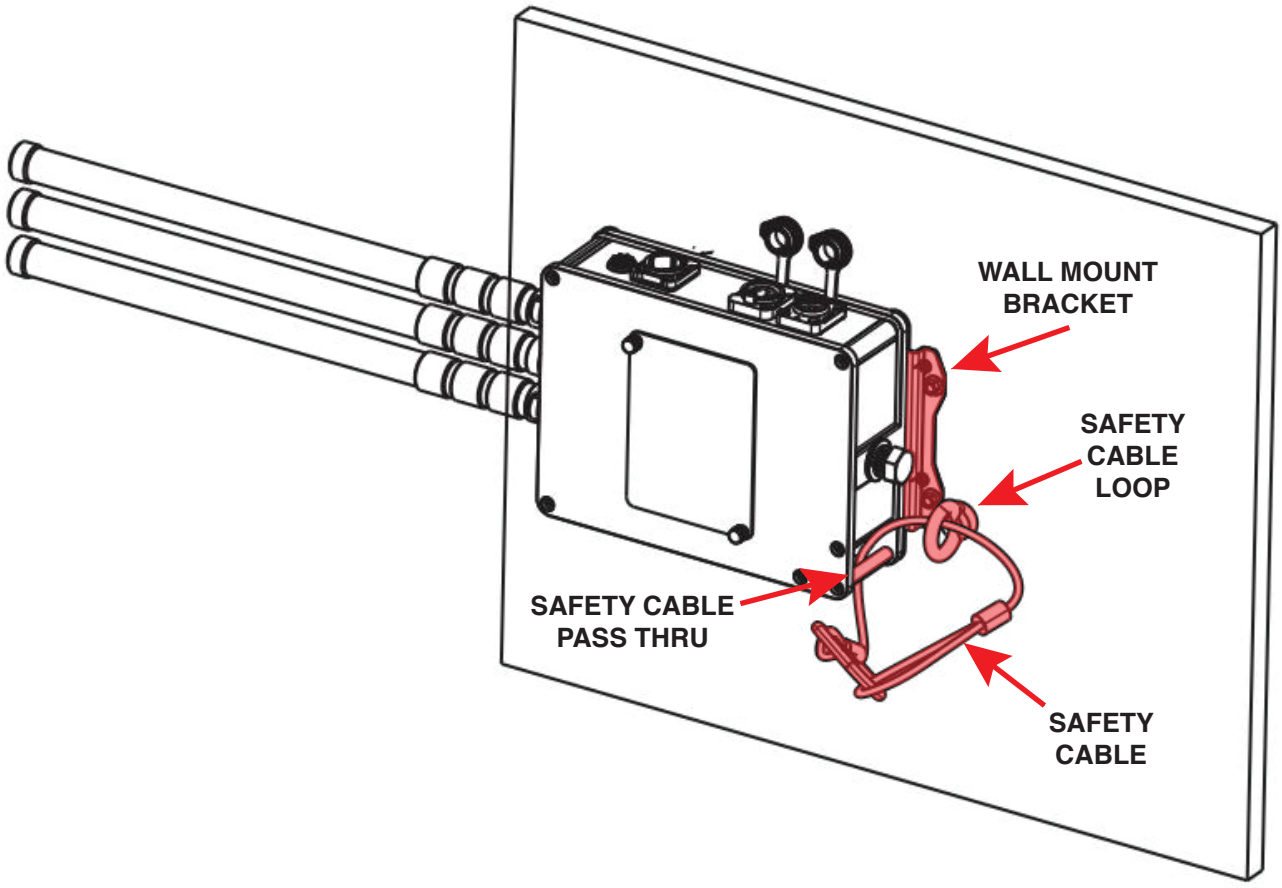
FALLING DEVICES CAN CAUSE SEVERE INJURY OR SERIOUS EQUIPMENT DAMAGE! FOR THIS REASON, DEVICES SHOULD BE INSTALLED AND INSPECTED ONLY BY QUALIFIED PERSONNEL. DO NOT INSTALL THE UNIT IF YOU LACK THE QUALIFICATIONS TO DO SO, OR IF YOU HAVE DOUBTS ABOUT THE SAFETY AND SECURITY OF THE INSTALLATION SETUP OR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

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

INSTALLATION GUIDELINES

WALL MOUNT INSTALLATION

Alternately, the device can be wall mounted by threading four (4) fasteners through the wall mount brackets on each side of the device. **Always ensure that the mounting surface is capable of supporting the combined weight of the device and any associated hardware and accessories.** Additionally, a separate safety cable loop should be affixed to the mounting surface, and a safety cable of the appropriate rating should be strung through both the safety cable loop and the safety cable pass through located at one corner of the device.



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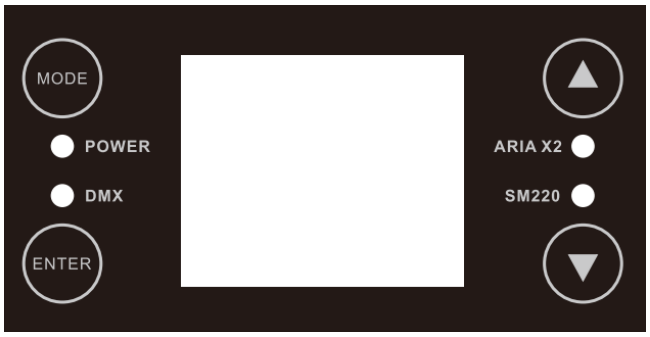
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS DEVICE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

SYSTEM MENU

The Aria X2 IPC Bridge features a control panel, which can be used to easily adjust any device settings.



MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)			
Aria Settings	Channel	**00** - 15		
	Frequency	900 MHz		
		2.4 GHz		
	RDM	**On** / Off		
	Bluetooth	On / **Off**		
SM220 Setings	Channel	**00**-14		
Bridge	Aria In	SM220 Out		
		DMX Out		
		Both Out		
		Disable		
	SM220 In	Aria Out		
		DMX Out		
		Both Out		
		Disable		
	DMX In	**Aria Out**		
		SM220 Out		
		Both Out		
Display	Timeout	Off, **30sec**, 1min, 3min, 5min, 10min		
	Passcode	Enable/**Disable**		
	Edit Passcode	Old Passcode	New Passcode	xxx
	Screen Rotation	YES / NO / **Auto**		
Label	Rename	AaBbCcDd…( )-+0123456789 (Default = **1**)		
	Modify			
Service	Passcode = 050	Factory Restore	YES / **NO**	
Information	Software Version	x.xx		
	RDM UID	xxxxxx		
	Label	xxxxxx		

ARIA GUIDELINES

2GHz Versus Sub-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-GHz frequency.

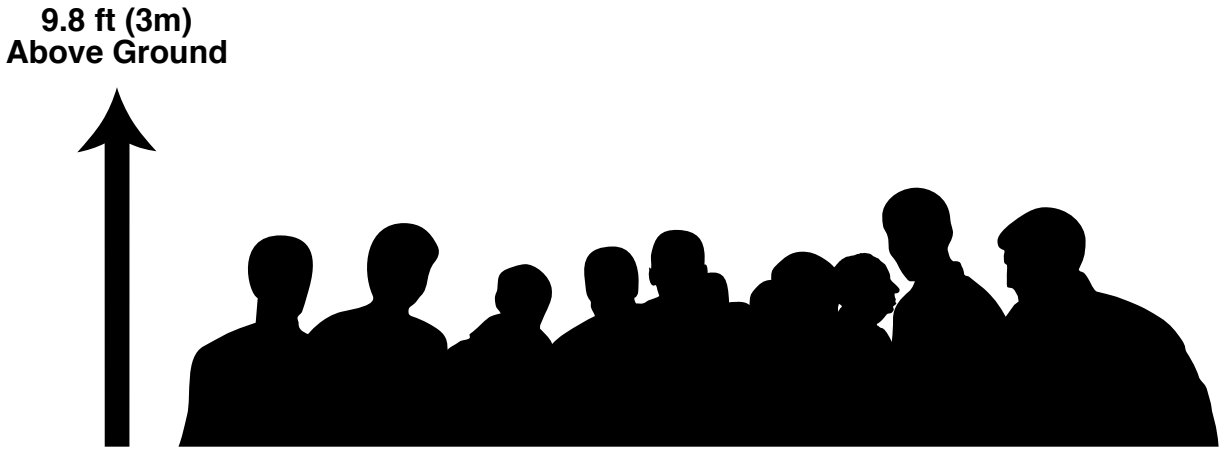
In summary, if an application demands high data rates and more bandwidth in urban or densely populated areas where interference management is feasible, the 2.4 GHz frequency is a suitable choice. On the other hand, for applications requiring long-range communication and better obstacle penetration, particularly 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 E-FLY device

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



FIRMWARE UPDATE

1. First, turn on the device and ensure that Bluetooth is enabled.

2. Next, open the Aria X2 app on your phone and press the ‘Refresh’ button. The app will search for devices and display the current software version of the fixture and Aria module.

3. To update the device, select Update > Aria X2 > Update Radios > Update Fixture.

4. Click the upload icon, select the device update file from your phone, and then click ‘Update 1 Radio’. The device will begin updating, and after it finishes, the software file version and update date will be displayed.

5. To update the Aria module, return to the screen that displays the current software version of the fixture and Aria module, then select Update > Aria X2 > Update Radios > Update Aria.

6. Click the upload icon, select the device update file from your phone, and then click ‘Update 1 Radio’. The Aria module will begin updating, and after it finishes, the software file version and update date will be displayed.

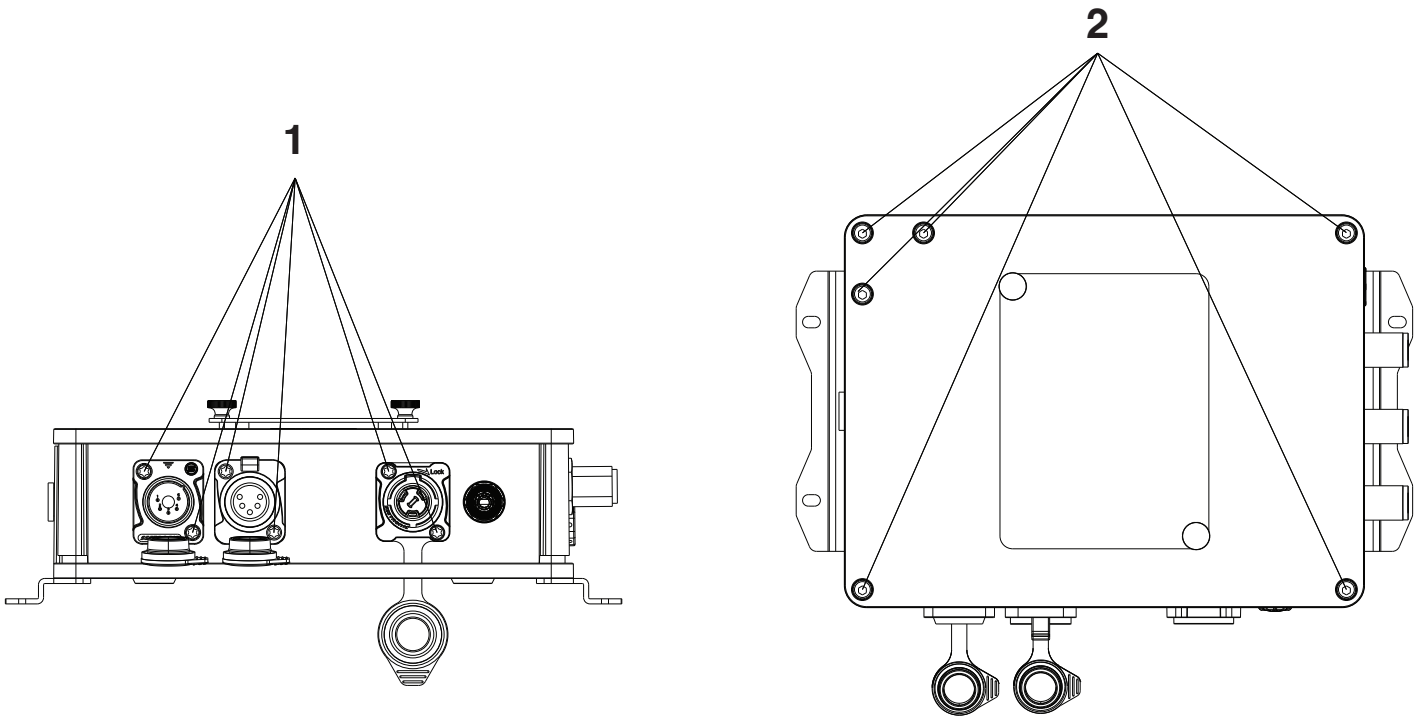
TORQUE SETTINGS FOR SCREWS

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

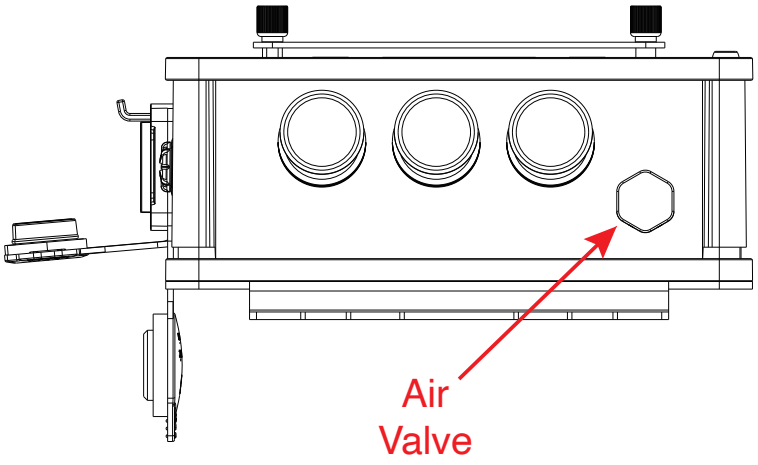
CAUTION! DO NOT OVER TORQUE SCREWS, AS THIS CAN CAUSE LEAKAGE ISSUES!



NO.	LOCATION	QUANTITY	TORQUE
1	Connector Ports	6	5.5 ± 0.4 lb-in (6.3 ± 0.5 kg-cm)
2	Cover Screws	6	9.4 ± 0.4 lb-in (10.8 ± 0.5 kg-cm)

IP TEST PARAMETERS

Following any repair or maintenance procedure that requires disassembly of the device, use Elation's IP Tester to confirm the IP integrity of the fixture. The air valve is located on theside of the device next to the antenna ports, as shown in the diagram below. Please contact ADJ Service for information regarding the Elation IP Tester, or visit the product information page online at: https://www.elationlighting.com/ip-tester



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 CLOSE PROXIMITY TO THE FIXTURE'S LENS WHILE PERFORMING THE TEST!

DE-HUMIDIFICATION: IP65 fixtures operating in high-humidity environments may experience residual fogging or condensation. Such fogging will not damage 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 that this procedure should be performed in a dry, air-conditioned environment. Avoid additional fogging by drying the fixture completely before placing into a road case.

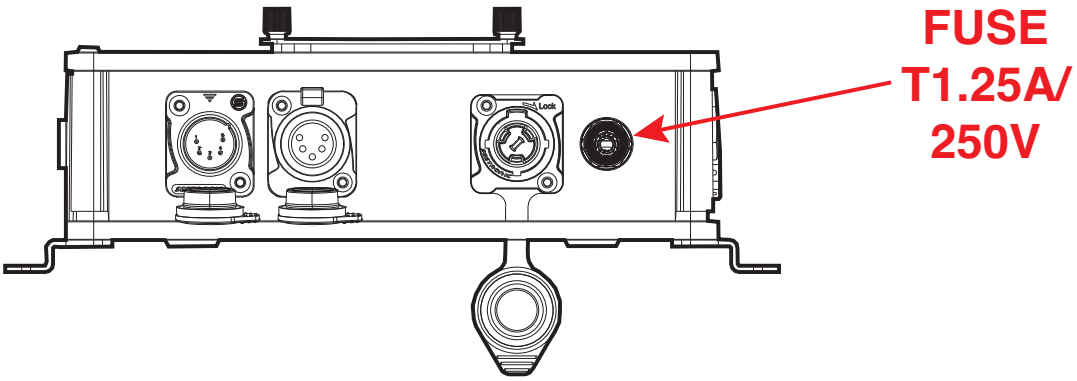
IP PRESSURE TESTING PARAMETERS				
Vacuum Target Value	**Vacuum Test Minimum**	**Hold Time**	**Pressure Target Value**	**Pressure Value Minimum**
-40 KPa (-5.8 psi)	-35KPa (-5.1 psi)	30 sec	35 KPa (5.1 psi)	25 KPa (3.6 psi)

MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

FUSE REPLACEMENT

Locate and remove the unit's power cord. Once the cord has been removed, locate the fuse holder next to the power socket. Insert a flat-head screw driver into the slot, and gently turn the cover of the fuse holder. Remove the bad fuse, and replace with a new one. Double check silkscreen for fuse value (T1.25A/250V).



CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky, or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean the external lens surface periodically with a soft cloth to avoid dirt/debris accumulation.
NEVER use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

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

Please refer to the following points during routine inspections:

- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition in order to prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, rigging hardware, and rigging points (ceiling, suspension, trussing).
- Electric power supply cables must not show any damage, material fatigue, or sediments.
- **NEVER** remove the ground prong from the power cable.

SPECIFICATIONS

Features:
Single DMX Universe
Sub-GHz and 2.4GHz Bands, Bluetooth 4.2
Configuration via App or Front panel
Wireless to DMX or DMX to Wireless
Aria X2 to SM220 (eFly, MagFly and Acclaim Aria)
SM220 (eFly, MagFly and Acclaim Aria) to Aria X2
IP65 Housing

Supported Protocols:
DMX512
Proprietary 802.15.4
Aria X2 Mesh Protocol
Bluetooth 4.2 (BLE)
Aria X2 Serial Protocol
This is our proprietary serial protocol for communicating with a variety of fixtures.

RF Characteristics:
Frequency range
- Bluetooth: 2402-2480 MHz
- Zigbee: 2405-2480 MHz
- SM220: 2405-2475 MHz
- Sub-GHz US: 906-924 MHz

Radio module: Aria X2
Interference mitigation
CSMA
Adaptive frequency hopping (on the roadmap)
OTA updates

Standards - Health
EN IEC 62311:2020
EN50665:2017
BS EN IEC 62311:2020
BS EN 50665:2017

Standards - Safety
EN IEC 62368-1: 2020+A11:2020
BS EN IEC 62368-1: 2020+A11:2020

Standards - EMC
ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-3 V2.3.2 (2023-01)
ETSI EN 301 489-17 V3.2.4 (2020-09)
EN 55032:2015/A1:2020
EN 55035:2017/A11:2020
EN 61000-3-3:2013/A2:2021
EN IEC 61000-3-2:2019/A1:2021
BS EN 55032:2015/A1:2020
BS EN 55035:2017/A11:2020
BS EN 61000-3-3:2013/A2:2021
BS EN IEC 61000-3-2:2019/A1:2021

Standards - Radio:
EN 300 220-1 V 3.1.1 (2017-02)
EN 300 220-2 V 3.2.1 (2018-06)
ETSI EN 300 328 V2.2.2 (2019-07)

Connectors:
5-pin XLR DMX Input and Thru
Outdoor Locking Power Input

Power:
Power Input: AC100-240V 50/60Hz
Power Consumption: 2.2W (19mA) @ 120V/60Hz, 2.2W (10mA) @ 230V/50Hz
Power Fuse: T1.25A/250V. (5 x 20mm)

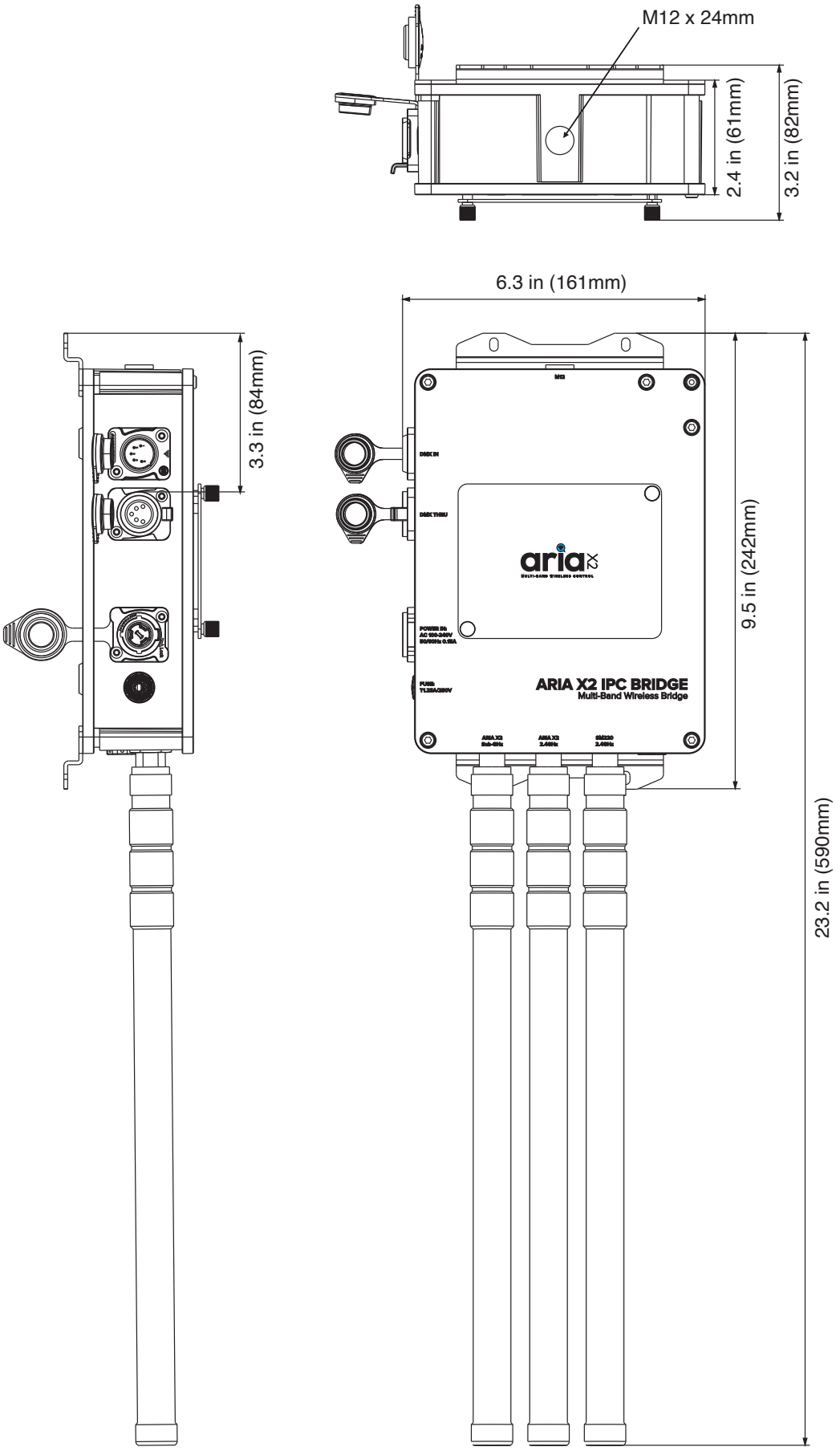
Physical:
IP65 Enclosure
Front panel digital screen
M12 Threads
Max ambient operating temp range: -4°F to 113°F (-20°C to 45°C)
Max operating humidity: <75%
Storage temperature: 77°F (25°C)

Dimensions and Weight:
Length: 9.5” (242mm)
Width: 6.3” (161mm)
Height: 3.2” (82mm)
3.7lbs (1.66kgs.)

Specifications and documentation subject to change without notice.

DIMENSIONAL DRAWINGS

Drawings not to scale



ORDERING INFORMATION

ORDER CODE		ITEM
US	EU	
AX2152	1321000093	ARIA X2 IPC BRIDGE

FCC STATEMENT

Changes or modifications to this unit not that have not been expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment and the receiver to outlets on separate electrical circuits.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC's and IC's RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must be installed and operated to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.Installers must ensure that 20cm separation distance will be maintained between the device and users.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

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!