

# **ARIA X2 IPH BRIDGE**

## **User Manual**

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## 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](http://www.elationlighting.com) for the latest revision/update of this manual, before installation and/or programming.

Date	Document Version	Software Version >	Modes	Notes
08/20/24	1	1.00	N/A	Initial Release

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# GENERAL INFORMATION

## INTRODUCTION

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

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

## Unpacking

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

## BOX CONTENTS

- Antennas (x3)
- Rail Track Brackets (x2)

## CUSTOMER SUPPORT

Contact ELATION Service for any product related service and support needs. Also visit [forums.elationlighting.com](https://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](mailto:support@elationlighting.com)

**ELATION SERVICE EUROPE** - Monday - Friday 08:30 to 17:00 CET  
+31 45 546 85 63 | [support@elationlighting.eu](mailto:support@elationlighting.eu)

**REPLACEMENT PARTS** - please visit [parts.elationlighting.com](https://parts.elationlighting.com)



## IMPORTANT NOTICE!

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

## IP67 RATED

**THIS DEVICE IS CERTIFIED AS IP67 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 **IP67** rated lighting fixture is designed and tested to protect against the ingress of dust (**6**), and temporary complete immersion in water up to 1 meter in depth (**7**).

## **LIMITED WARRANTY (USA ONLY)**

- A. Elation Professional hereby warrants, to the original purchaser, Elation Professional products to be free of manufacturing defects in material and workmanship for a period of two years (730 days), and Elation Professional product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days), from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, send the product only to the Elation Professional factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional shall have no liability what so ever for loss and/or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Elation Professional concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional factory unless prior written authorization was issued to purchaser by Elation Professional; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.
- D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Elation Professional will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.
- E. Elation Professional reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.
- G. This warranty is the only written warranty applicable to Elation Professional products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

### **WARRANTY RETURNS**

All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

# 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 manufacturer's warranty and increase the risk of damage and/or personal injury.



**PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED**



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



**DO NOT PLUG FIXTURE INTO A DIMMER PACK!  
NEVER OPEN THIS FIXTURE WHILE IN USE!  
UNPLUG POWER BEFORE SERVICING FIXTURE!  
NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!  
KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!**



**INDOOR / DRY LOCATIONS USE ONLY!  
DO NOT EXPOSE FIXTURE TO RAIN AND MOISTURE!**

**DO NOT** shake the device, and 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 fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always install the fixture with an appropriately rated safety cable.

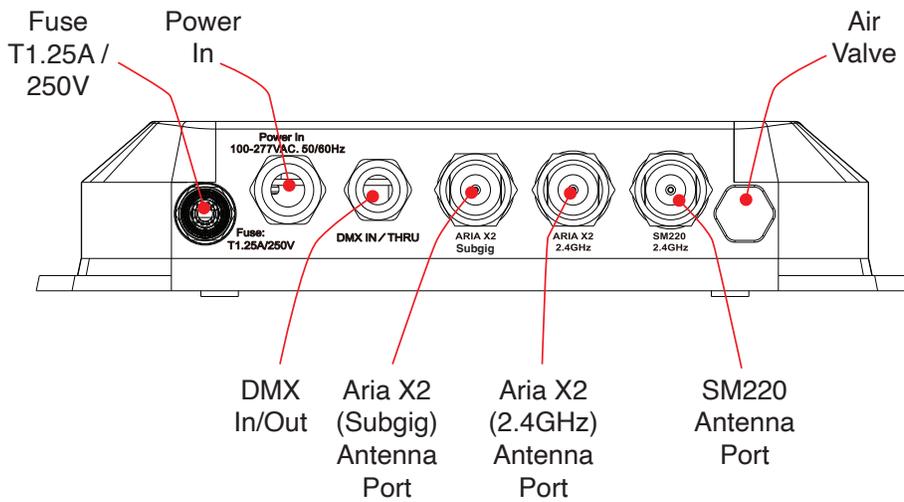
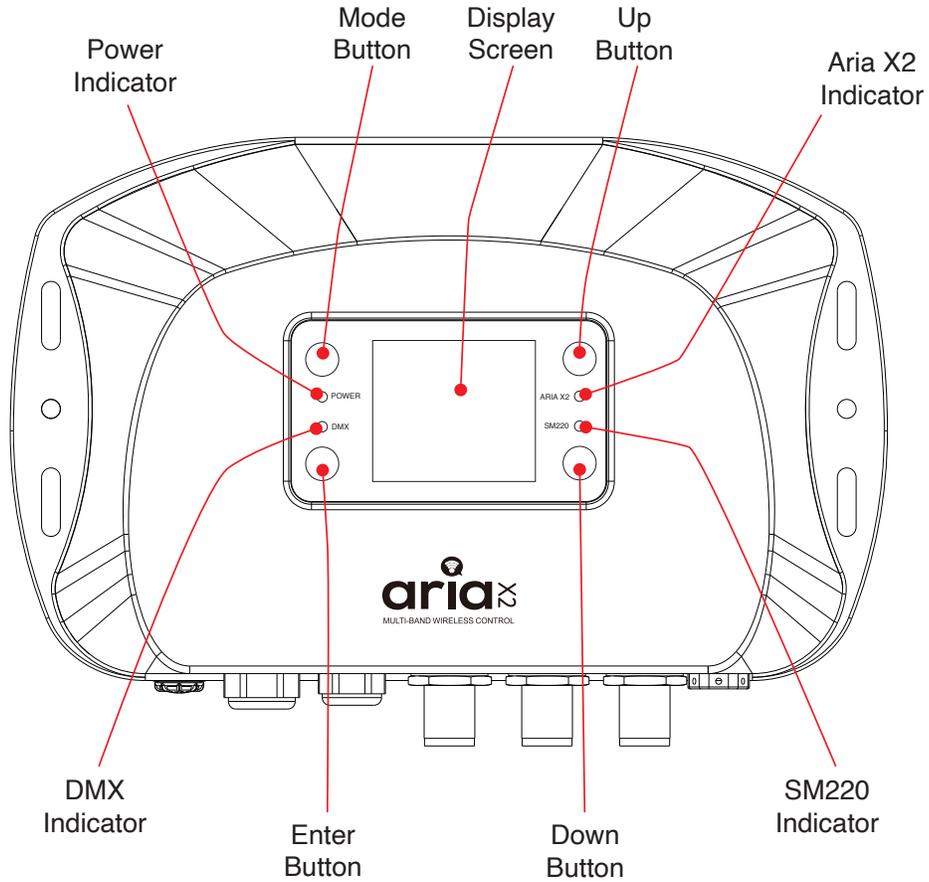
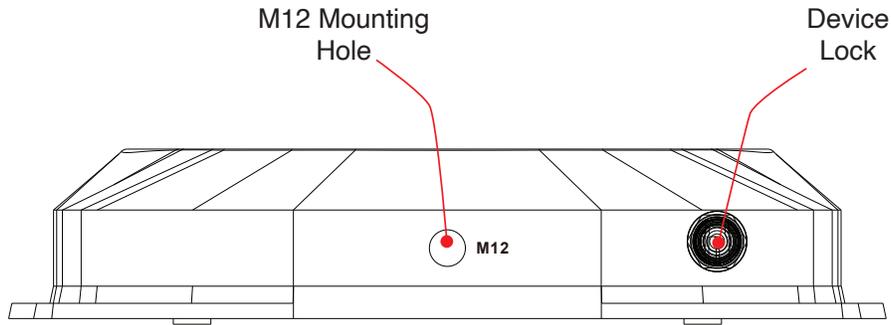
Always disconnect the fixture from the main power source before performing any type of service and/or cleaning procedure.

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 fixture functions properly for many years.

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

# OVERVIEW



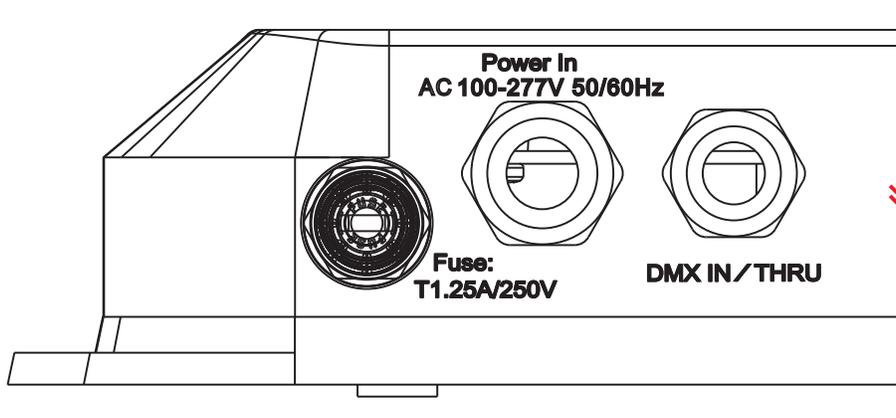
# CONNECTIONS

## AC CONNECTIONS

This device is rated for 100-277V 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.

## DMX CONNECTIONS:

The DMX connection is a wire gland configured for 5-pin DMX. **Please note that this DMX connection can be used for either an input or an output signal, as defined in the system menu.**



# 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.**



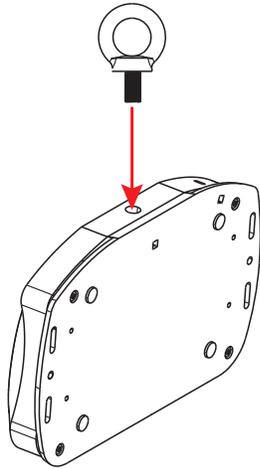
**THE ARIA X2 IPH BRIDGE IS DESIGNED TO BE TRUSS-MOUNTED; HOWEVER, IT CAN BE USED STAND-ALONE, WHERE THE DEVICE MUST SIT ON A FIRM FLAT SURFACE.**

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

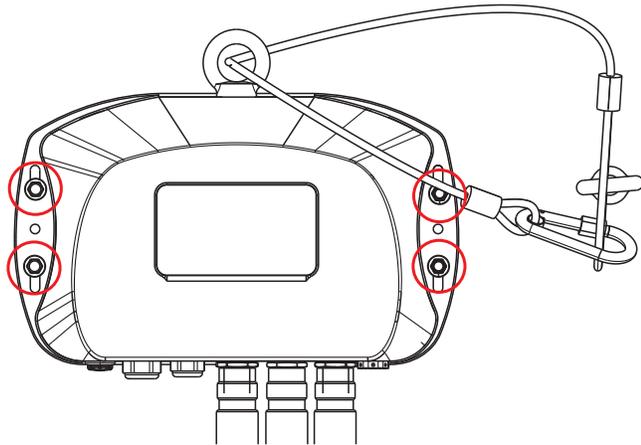
# INSTALLATION GUIDELINES

## WALL MOUNT INSTALLATION

Thread the safety cable loop into the M12 mounting hole on the top of the device, as shown in the below left image. Use four (4) mounting screws of the appropriate weight rating to secure the device to the mounting surface via the mounting tabs on each side of the device, circled below right image. Always consult with a professional equipment installer to ensure that the mounting surface is capable of supporting the weight of the device and any associated accessories and cables. Lastly, link a safety cable of the appropriate weight rating through the cable loop and attach to a secure mounting point.



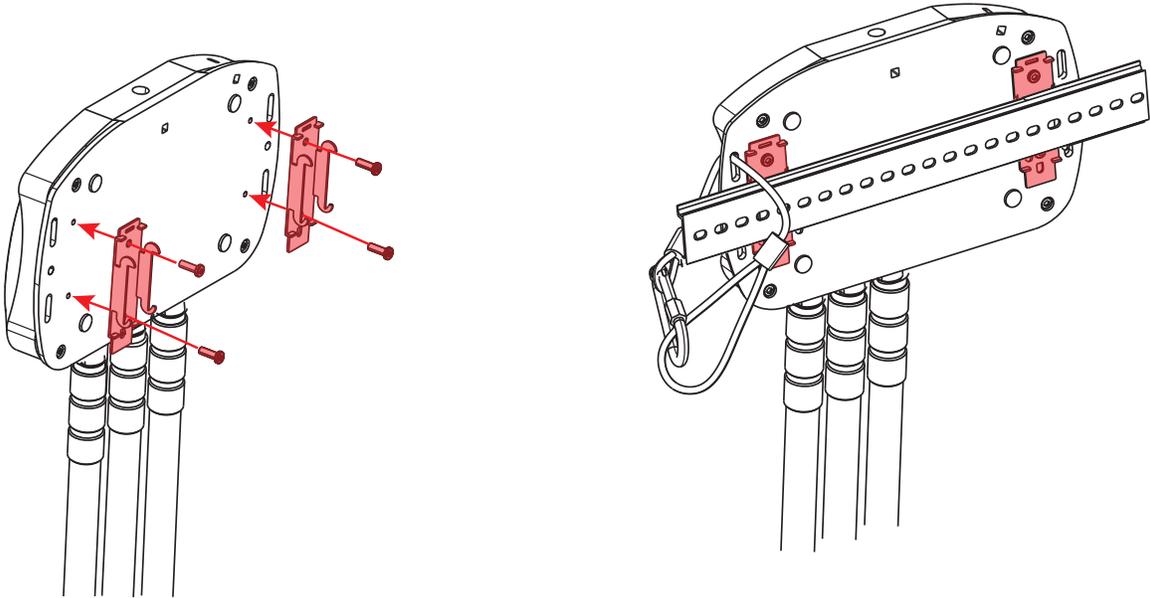
**SAFETY CABLE  
LOOPE  
D THROUGH  
CABLE LOOP**



# INSTALLATION GUIDELINES

## DIN RAIL ADAPTERS

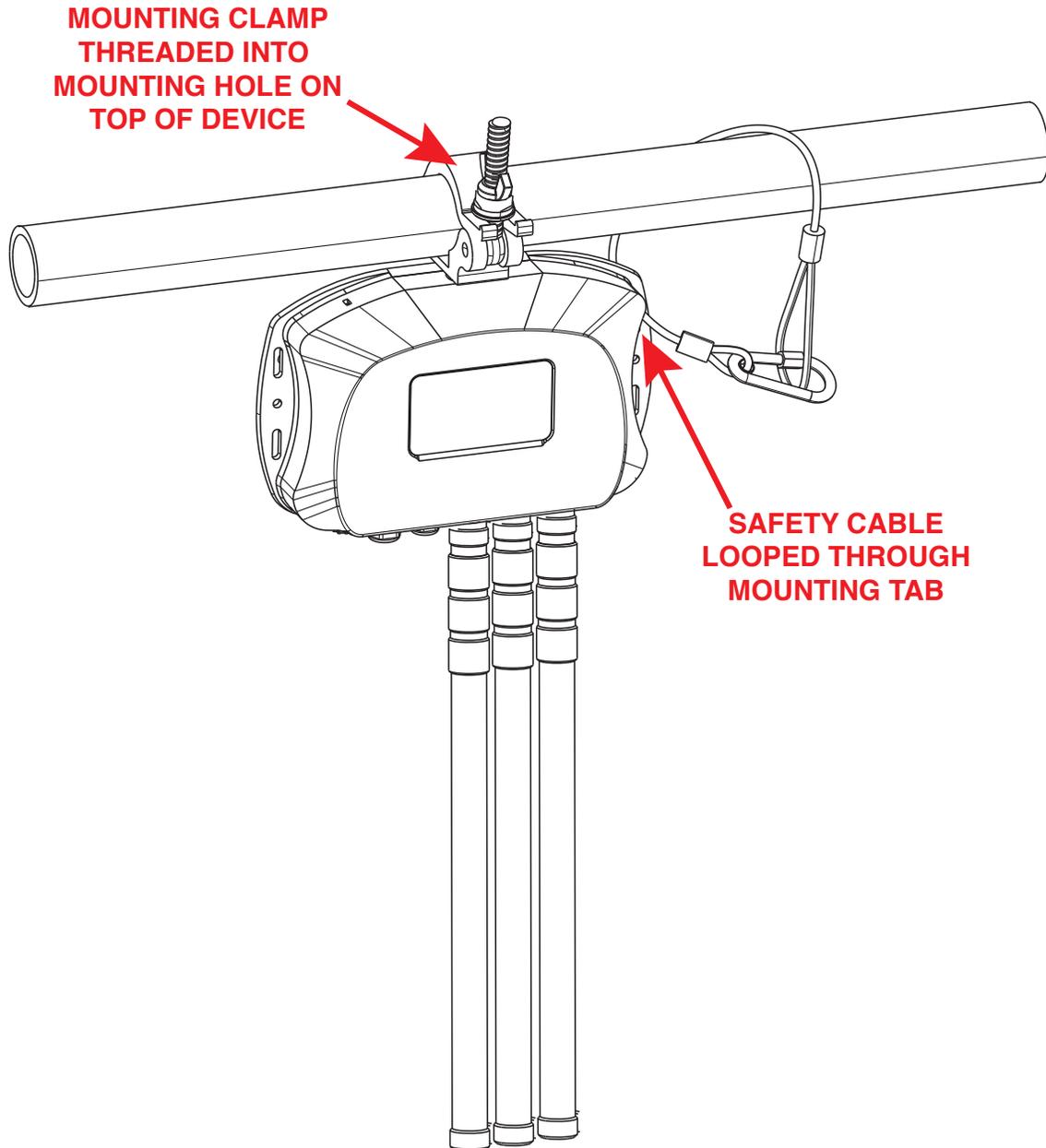
Secure two DIN Rail Adapters to the rear face of the X2 IPH Bridge, using two screws per adapter. Then, mount the X2 IPH Bridge by aligning the tabs of the DIN Rail Adapter with the slot of the DIN rail. Slide the X2 IPH Bridge onto the rail until it clicks or locks securely into place.



# INSTALLATION GUIDELINES

## CLAMP MOUNTING

To suspend this device from a truss or other elevated installation, thread a mounting clamp of the appropriate weight rating into the M12 mounting hole on the top face of the device, then use the clamp to attach the device to the truss. Always attach a safety cable of the appropriate weight rating by looping the cable through at least one of the device's mounting tabs, then loop the safety cable around the truss. Refer to the illustration below.



**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.**

# SETUP

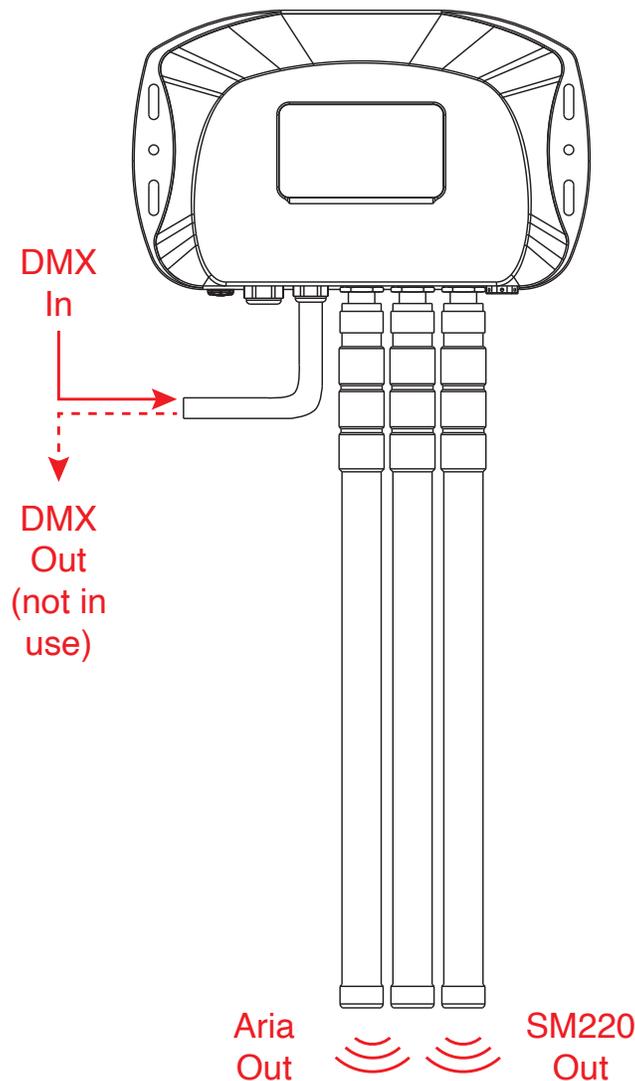
## CONNECTING DMX CONTROLLER TO ARIA X2 IPH BRIDGE

This device has the flexibility to receive signal from the controller, and transmit the signal to other devices or additional bridges, via multiple protocols. Input and output signals may be received or transmitted via either of the Aria antennas, the SM220 antenna, or the physical DMX connection.

Any one of these 3 options (Aria, SM220, or physical DMX cable) can be used as the input to the device, and one or both of the remaining options can be used as the output. **However, please note that the option that has been selected for the input cannot be simultaneously selected for the output as well.** For example, in the illustration below, the device on the left has the physical DMX as its input, and therefore it is able to output via either Aria or SM220, or both.

When using a physical cable to link the units, please note that the DMX ports are cable glands intended for hard-wiring. The single DMX port should include wiring for both DMX input and output.

Selection of which method will be the unit input, and which method or methods will be the unit output, is done in the Bridge sub-menu of the System Menu. Please refer to the **System Menu** section of this manual for additional details.

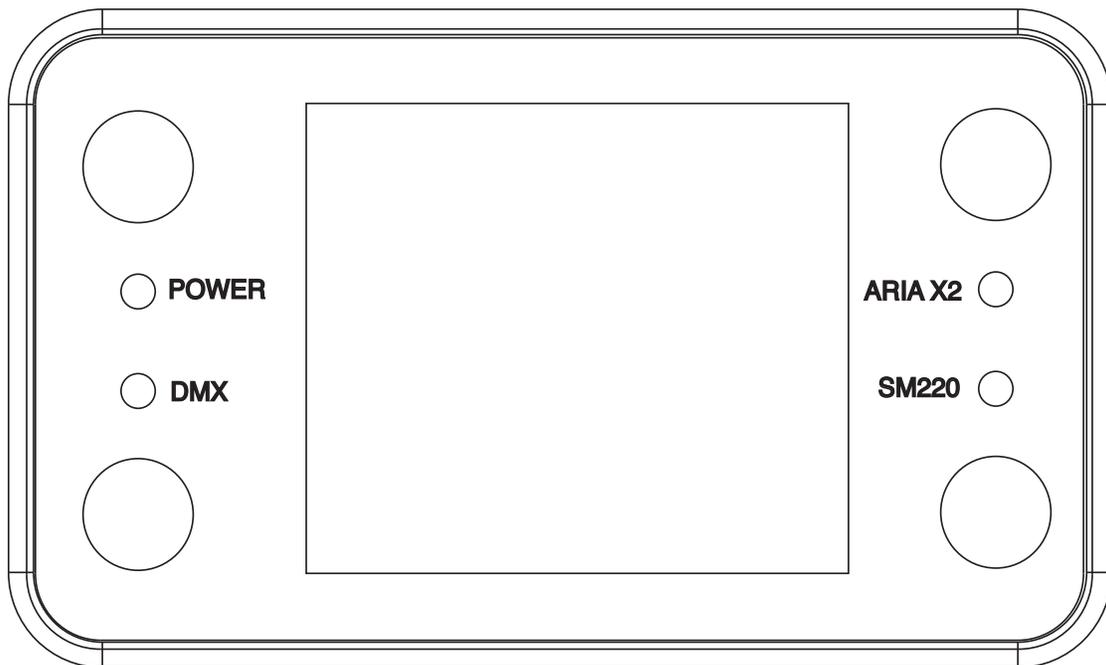


# SYSTEM MENU

The Aria X2 Bridge features an LCD display screen with 4 control buttons, which can be used to easily adjust any device settings. Button functions and locations are as described below:

- **MODE** (top left) - Cycles through main menu options, or returns to the main menu without making adjustments.
- **ENTER** (bottom left) - Selects the option currently displayed on the screen, and opens up the next sub-menu option if applicable.
- **UP** (top right) / **DOWN** (bottom right) - Scrolls up or down through the list of options for the currently selected menu.

Additionally, the control panel includes four (4) indicator lights that signify that the unit is receiving power and broadcasting/receiving over DMX, Aria X2, and/or SM220.



# SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in <b>BOLD</b> )			
<b>Aria Settings</b> 	Frequency	<b>2.4 GHz</b>		
		Sub Gig US		
		Sub gig EU		
	2.4 GHz Ch	<b>00</b> - 15		
	Sub Gig Ch	<b>00</b> - 09		
	Mesh Enable	On / <b>Off</b>		
Bluetooth	<b>On</b> / Off			
<b>SM220 Settings</b> 	SM220 Enable	<b>Yes</b> / No		
	Channel	<b>00</b> - 14		
	Enable Repeater	<b>Yes</b> / No		
	Enable Hops	<b>Yes</b> / No		
<b>Bridge</b> 	Aria In	SM220 Out		
		DMX Out		
		<b>Both Out</b>		
	SM220 In	Aria Out		
		DMX Out		
		<b>Both Out</b>		
	DMX In	Aria Out		
		SM220 Out		
		<b>Both Out</b>		
<b>Display</b> 	Timeout	<b>Off</b> - 10 min		
	Passcode	Enable / <b>Disable</b>		
	Edit Passcode	Passcode	xxx	xxx
	Screen Rotation	Yes		
		No		
		<b>Auto</b>		
<b>Label</b> 	Rename	AaBbCcDd...()-+0123456789		
	Modify			
<b>Service</b> 	Enter Passcode (50)	Factory Restore	Yes / <b>No</b>	
<b>Information</b> 	Software Version	Vx.xx		
	RDM UID	xxxxxx		
	Label	xxxxxx		

# FREQUENCY & WIRELESS LOCATION GUIDELINES

## 2GHZ Versus Sub-Gig (GHz) Frequencies

Sub-GHz frequencies offer greater resilience and range than higher frequencies, making them ideal for reliable communication over extended distances or in challenging environments.

Sub-GHz devices operate at frequencies below 1 GHz, facilitating the transmission of signals over considerable distances and the penetration of physical obstructions such as walls and buildings. These frequencies are also subject to less interference than those in the 2.4-GHz band, which is heavily utilized by wireless devices, resulting in a congested spectrum.

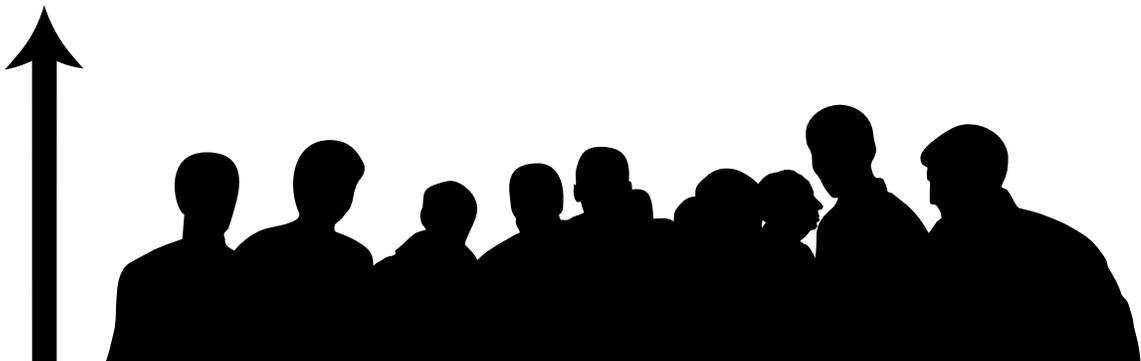
### Installation Recommendations:

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.

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



# FIRMWARE UPDATE

1. First, turn on the fixture 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 fixture, press 'Update', select 'Aria X2', click 'Update Radios', then click 'Update Fixture'.
4. Click the upload icon, select the fixture update file from your phone, and then click 'Update 1 Radio'. The fixture will begin updating, and after it finishes, the software file version and update date will be displayed.
5. To update the Aria module, follow the same steps, but select 'Update Aria' instead.

# 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.

# 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.

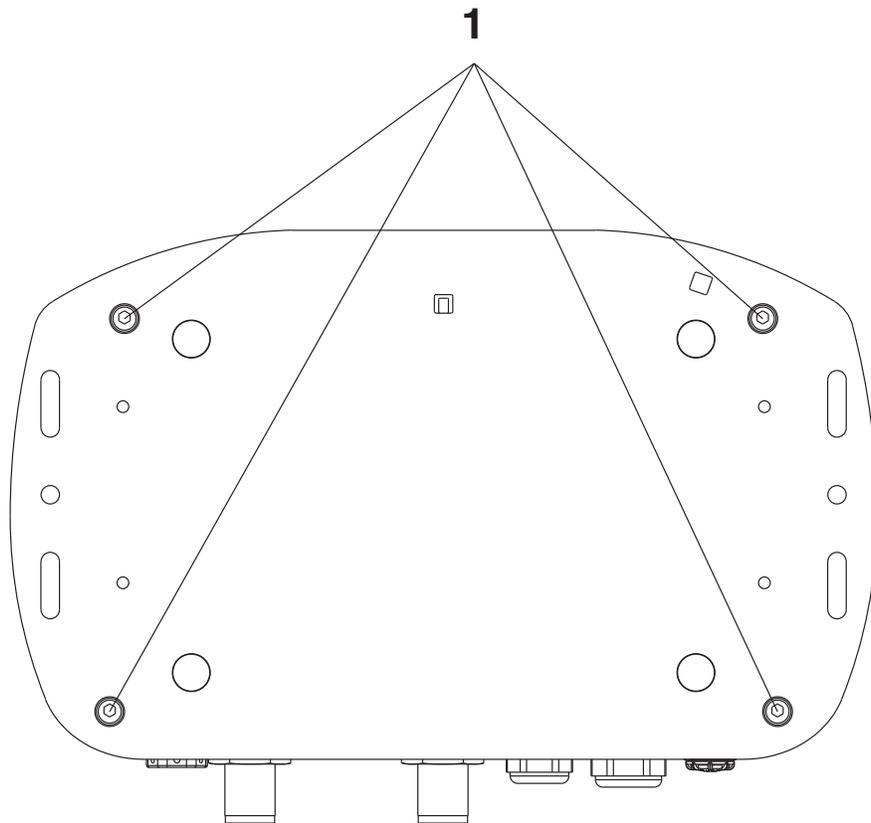
TORQUE DRIVERS (Recommended): UTICA TS-30 (shown)

ALTERNATE DRIVERS:

- Proto J6107A
- Wiha 28887



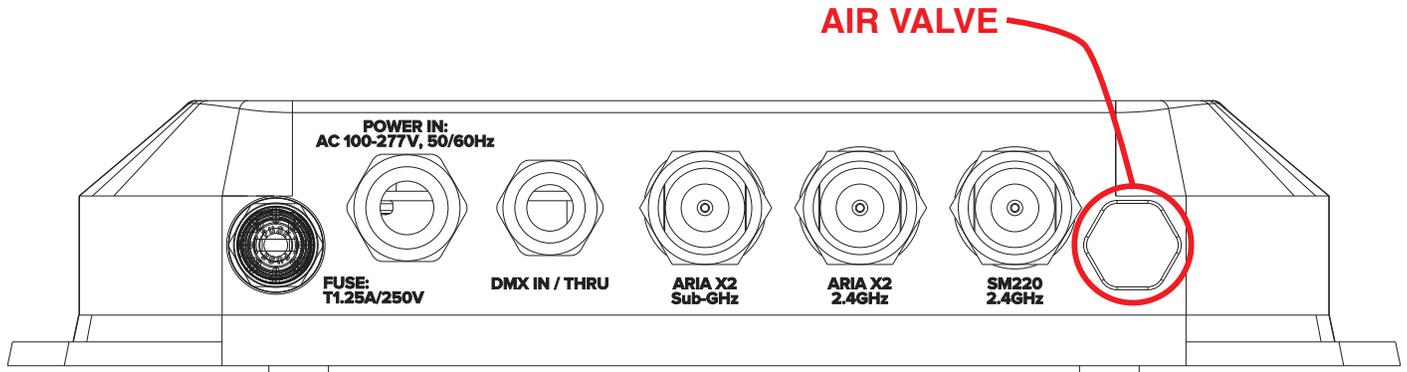
**CAUTION! DO NOT OVER TORQUE SCREWS, AS THIS CAN CAUSE LEAKAGE ISSUES!**



NO.	LOCATION	QUANTITY	TORQUE
1	Rear Cover	4	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 fixture, use Elation's IP Tester to confirm the IP integrity of the fixture. The air valve is located on the back panel next to the display screen, 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:** IP67 devices operating in high-humidity environments may experience residual fogging or condensation. Such fogging will not damage the device, 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 device completely before placing into a road case.



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

# SPECIFICATIONS

## Features:

Single DMX Universe  
2.4 GHz Bands  
WiFi and Bluetooth 5.2  
Configuration via App or Front panel  
Wireless to DMX or DMX to Wireless  
IP67 Housing

## Supported Protocols:

DMX512  
Proprietary 802.15.4  
Aria X2 Mesh Protocol  
Bluetooth 5.2 (BLE)  
Aria X2 Serial Protocol (This is our proprietary serial protocol for communicating with a variety of fixtures.)

## RF Characteristics:

Frequency range  
2404-2480 MHz  
863-870 MHz (EU)  
902-928 MHz  
Radio module: Aria X2  
Interference mitigation  
CSMA  
Adaptive frequency hopping (on the roadmap)  
OTA updates

## Connectors:

Aria X2 Subgig Antenna  
Aria X2 2.4GHz Antenna  
SM220 2.4GHz Antenna (Aria, Wifly, eFly and MagFly)

## Power:

Power Input: AC100-277V 50/60Hz  
Power Consumption: 2.2W (19mA) @ 120V/60Hz, 2.2W (10mA) @ 230V/50Hz  
Power Fuse: T1.25A/250V. (5 x 20mm)

## Physical:

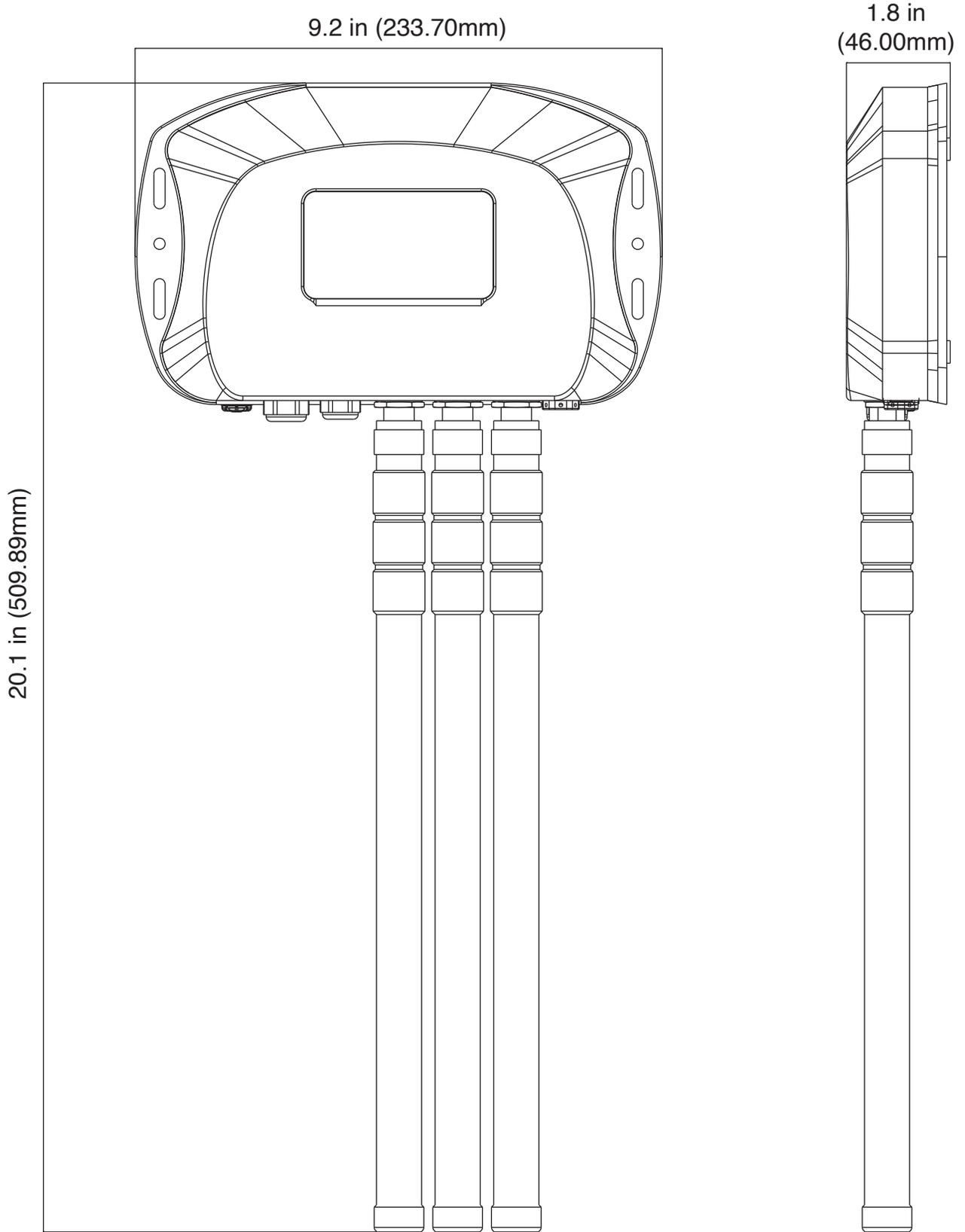
IP67 Enclosure  
Front panel digital screen  
M12 Threads  
Max ambient operating temp range: -4°F to 113°F (-20°C to 45°C)  
Max operating humidity: <75%  
Storage temperature: 77°F (25°C)

## Dimensions and Weight:

Length: 9.2" (233.70mm)  
Width: 20.1" (509.89mm)  
Height: 1.8" (46.00mm)  
3.7lbs (1.66kgs.)

# DIMENSIONAL DRAWINGS

Drawings not to scale



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