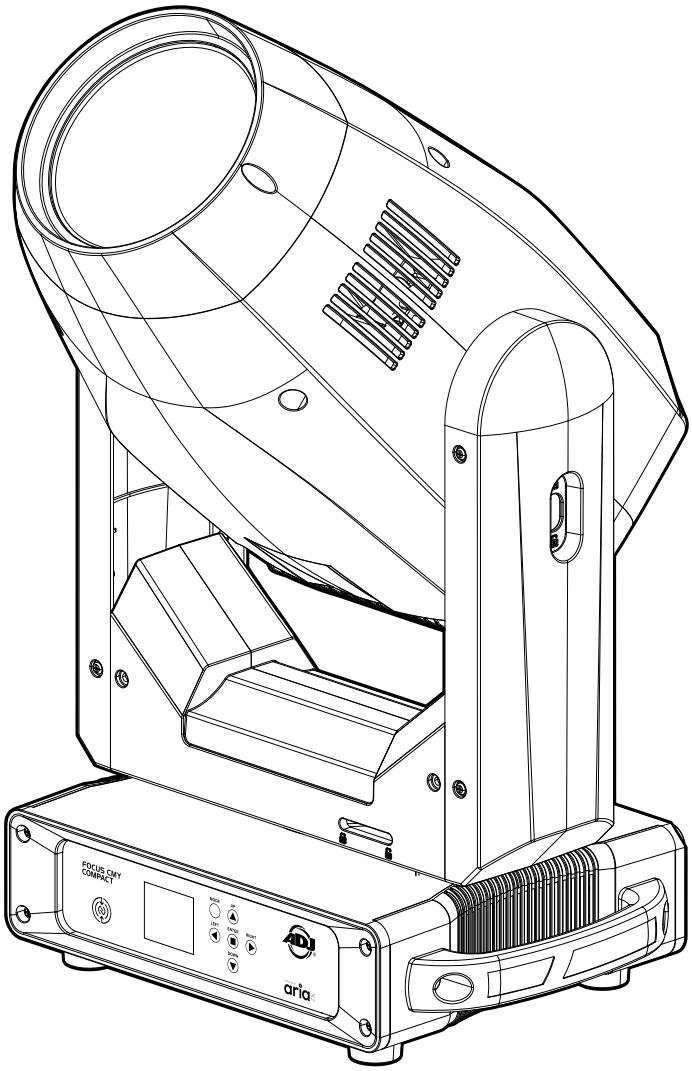



# FOCUS CMY COMPACT
## User Instructions

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

Europe Energy Saving Notice
Energy Saving Matters (EuP 2009/125/EC)
Saving electric energy is a key to help protecting the enviroment. 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 |
|---|---|---|---|---|
| 01/15/2026 | 1.0 | V1.0.0 | 26/31/40 | Initial Release |
| 03/20/2026 | 1.1 | N/C | N/C | Updated Specs & Base Graphics |
| | | | | |
| | | | | |
| | | | | |

# CONTENTS

# 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.

Parts: To purchase parts online visit:
http://parts.adj.com (US)
http://www.adjparts.eu (EU)

**ADJ SERVICE USA** - Monday - Friday 8:00am to 4:30pm PST
Voice: 800-322-6337 | support@adj.com

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

**ADJ PRODUCTS LLC USA**
6122 S. Eastern Ave. Los Angeles, CA. 90040
323-582-2650 | www.adj.com | info@adj.com

**ADJ SUPPLY Europe B.V**
Junostraat 2 6468 EW Kerkrade, The Netherlands
+31 (0)45 546 85 00 | www.adj.eu | info@adj.eu

**ADJ PRODUCTS GROUP Mexico**
AV Santa Ana 30 Parque Industrial Lerma, Lerma, Mexico 52000
+52 (728) 282-7070

## LIMITED WARRANTY

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

**USA: https://www.adj.com/pages/warranty-information**

**EU: https://www.adj.eu/terms_and_conditions**

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 its operational lifespan.

# FEATURES

- 400W LED Engine – 14,500 Lumens
- Motorized Zoom 3°–52° (Beam/Spot/Wash Hybrid)
- Motorized Focus
- Full CMY Color Mixing + Variable CTO (3200K–8500K)
- 7-Position Color Wheel with High CRI Filter
- Dual Gobo Wheels: 8 Rotating/Indexable Glass + 10 Static Glass
- Dual Rotating Prisms: 4-Facet Circular and 6-Facet Linear
- Two Independent Frost Filters (Light + Heavy)
- Electronic Dimming + 1–20 Hz Strobe
- DMX, RDM, Art-Net, sACN
- ADJ Aria X2 Wireless Management & Control
- NFC Quick Configuration
- 6-Button Touch Panel + Reversible Full-Color LCD Display
- Weight Under 45 lbs (20.2 kg)
- Pan 540°/630° l Tilt 270° (8/16-Bit)
- Max Power Consumption 450W

# SAFETY PRECAUTIONS

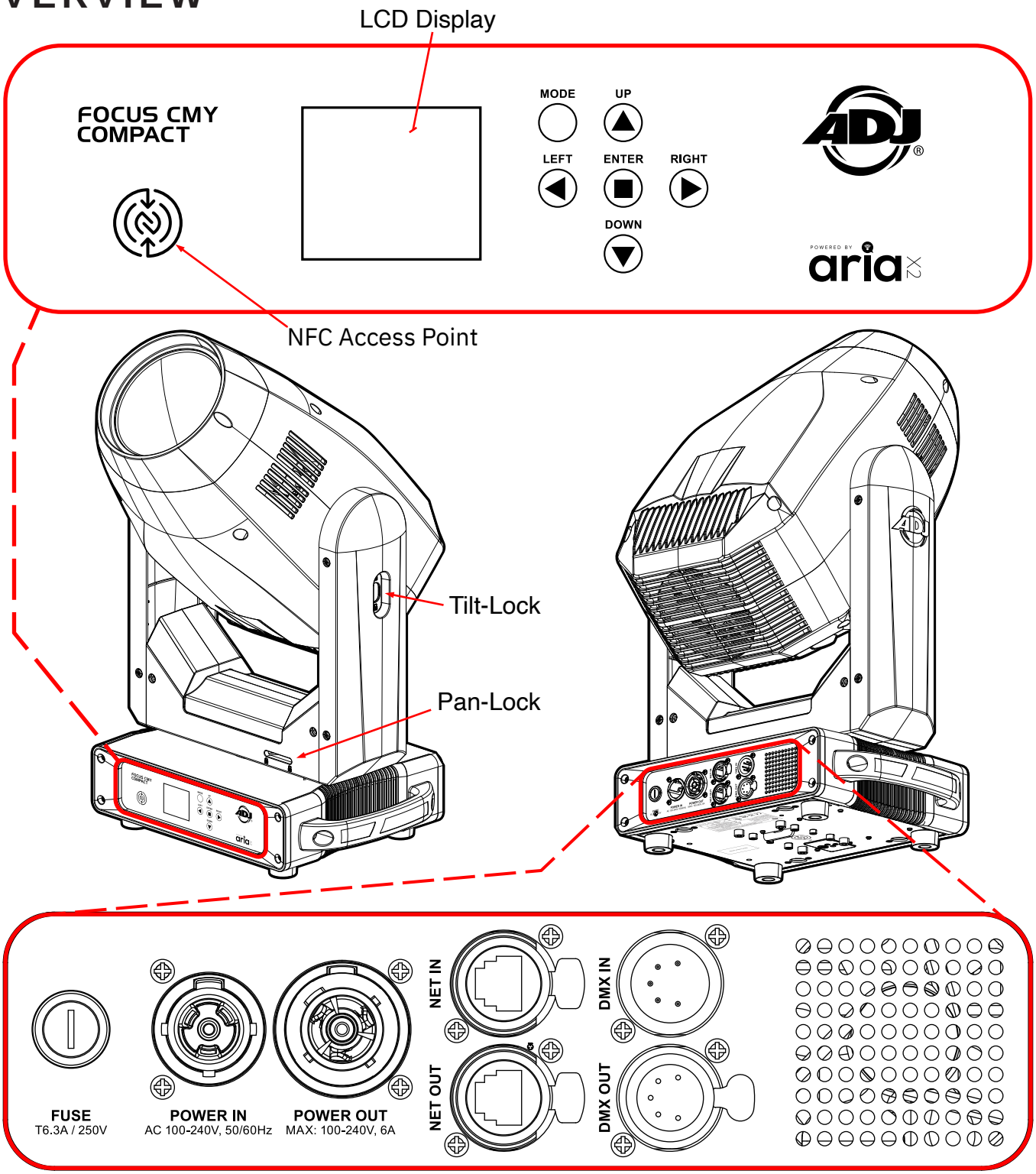
**PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.**

**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.**

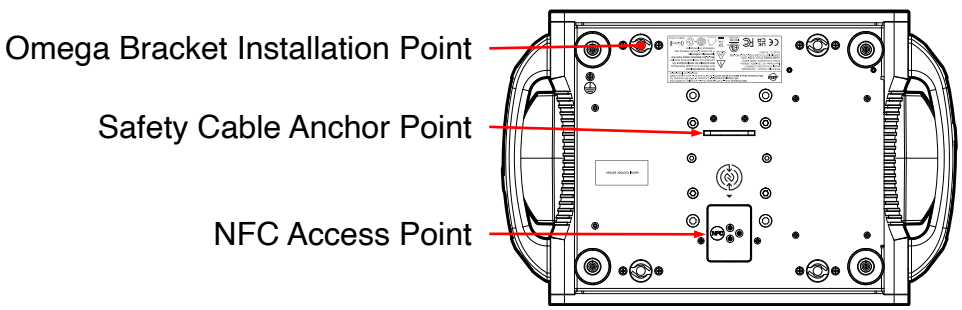
**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!**
**RETINA INJURY RISK - MAY INDUCE BLINDNESS!**
**SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!**

- **Ambient operating temperature is 14°F to 113°F (-10°C to 45°C)!**
- **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. 12" (30cm) 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 12" (30cm) between this device and a wall.
- This device is intended for indoor use only! Outdoors usage voids all manufacturer's warranties.
- **DO NOT** remove the cover for any reason.
- When installing fixture in a suspended enviroment, 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

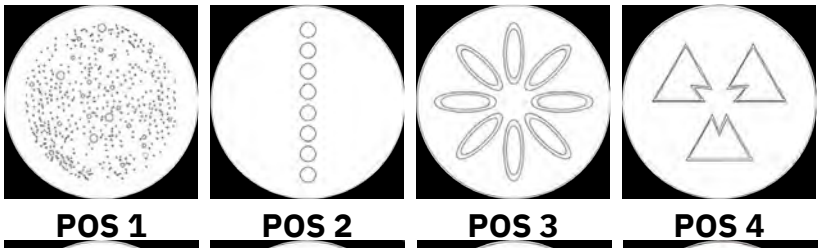



Fuse Power In/Out Net Out/In DMX Out /In



# COLORS AND GOBOS

## ROTATING GOBO WHEEL

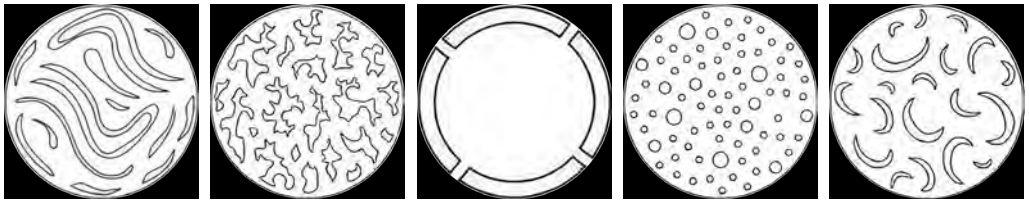


POS 1 POS 2 POS 3 POS 4

POS 5 POS 6 POS 7 POS 8

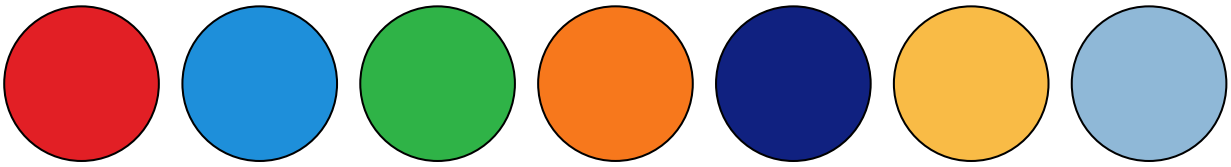
## FIXED GOBO WHEEL

POS 1 POS 2 POS 3 POS 4 POS 5



POS 6 POS 7 POS 8 POS 9 POS 10

## COLOR WHEEL



POS 1 RED

POS 2 BLUE

POS 3 GREEN

POS 4 ORANGE

POS 5 MIDNIGHT BLUE

POS 6 HIGH CRI

POS 7 CTB

## PRISM

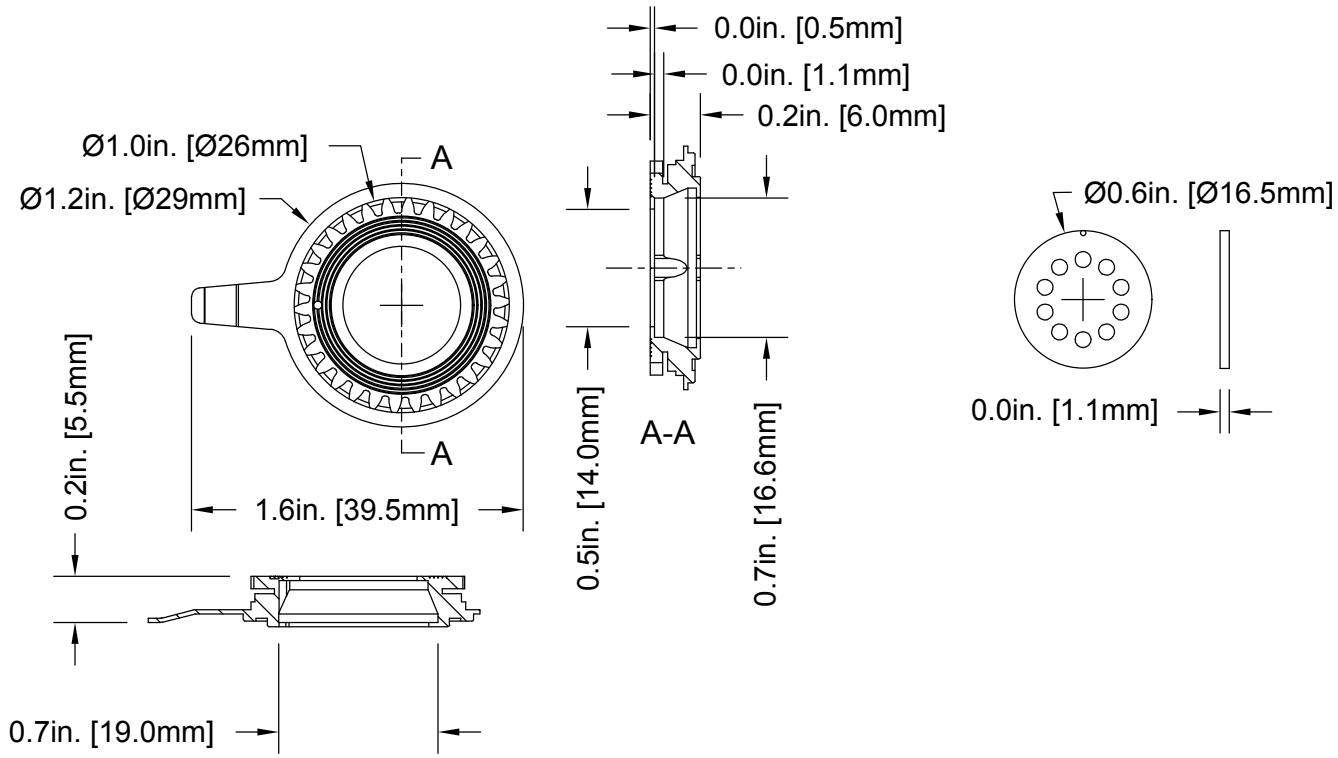
POS 1 4 FACET CIRCULAR

POS 2 6 FACET LINEAR

# CUSTOM GOBOS

## ROTATING GOBO WHEEL GOBO & HOLDER

| ROTATING GOBO WHEEL GOBOS | |
|---|---|
| Gobo O.D. (Max. Outer Diameter | ⌀16.5mm |
| Gobo Thickness | 1.1mm |
| Gobo Material | GLASS |




**Please be aware of the intended position and correct sizing requirements of custom gobos.**

*** * * IMPORTANT NOTICE REGARDING CUSTOM GOBOS * * ***

Due to the high temperature optical system, special material is required for custom gobos. Due to varying manufacturing processes and tolerances, it is highly recommended to provide a gobo sample and holder from the fixture to the custom gobo vendor for accurate sizing. Extended testing of custom gobo designs is highly recommended prior to use. Contact ADJ SERVICE for further information.

**ADJ SERVICE USA** - Monday - Friday 8:00am to 4:30pm PST
Voice: 800-322-6337 | support@adj.com

**ADJ SERVICE EUROPE** - Monday - Friday 08:30 to 17:00 CET
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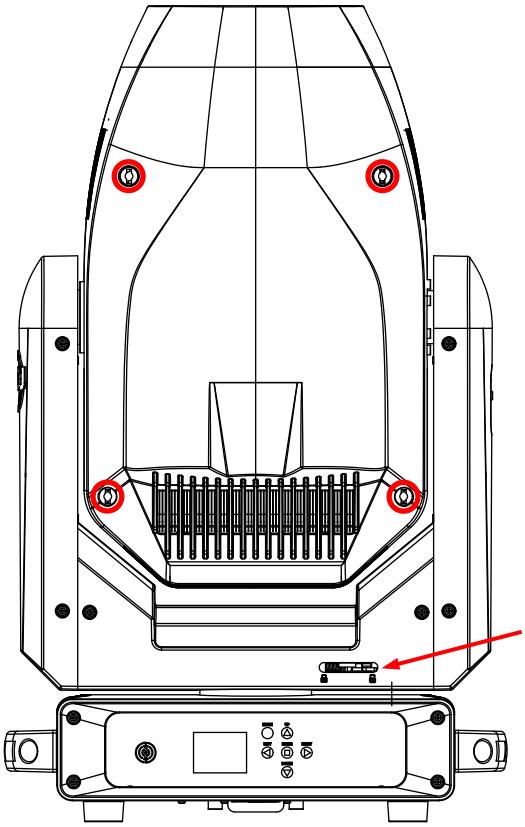
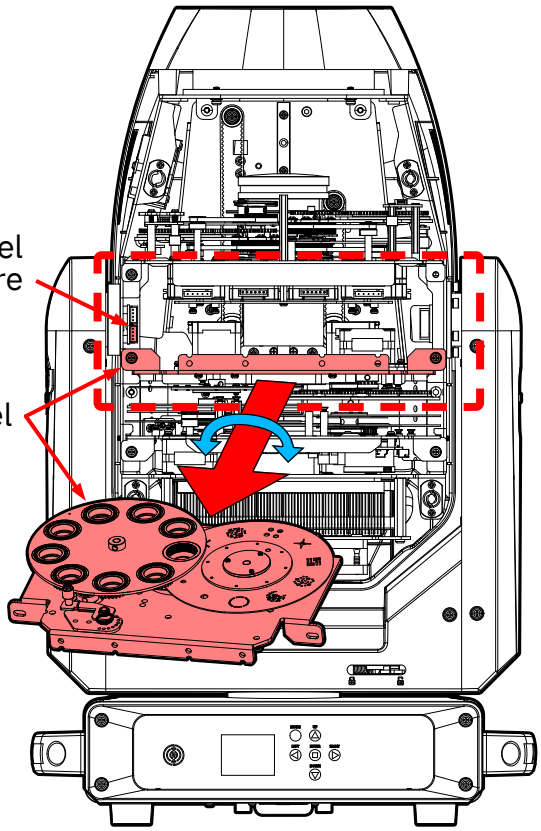
# GOBO INSTALLATION

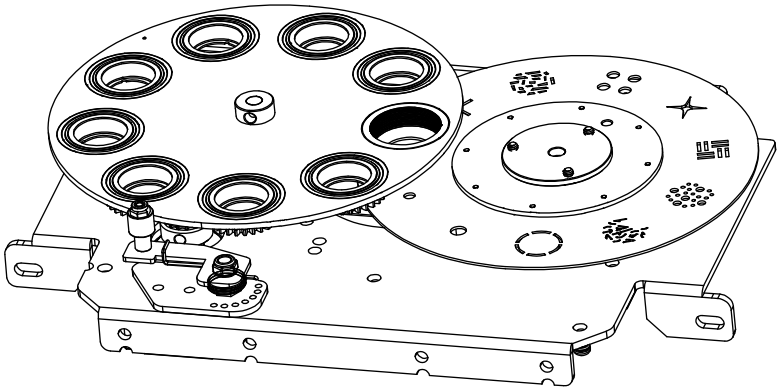



Place the fixture on a firm flat surface. Locate the (4x) hex screws securing the panel on the **Pan Lock** side of the moving head and remove them.



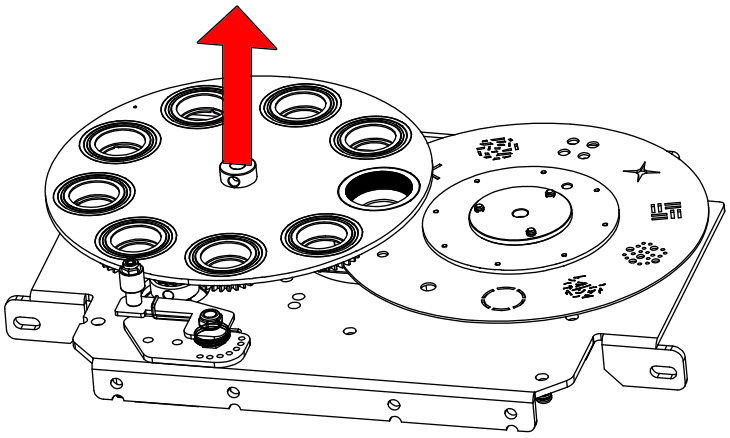

Locate the Rotating Gobo Wheel Assembly Module, remove the screws that secure it to the internal housing frame, and unplug/disconnect wire harness.

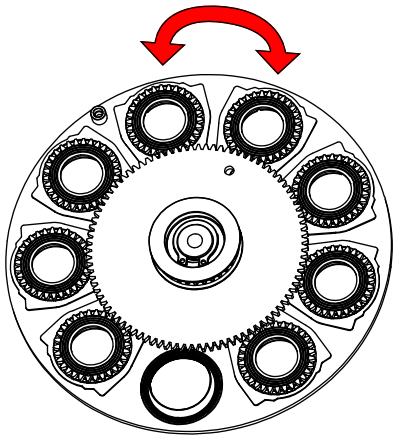
Carefully remove the Rotating Wheel Gobo Assembly Module, turn it over to access the Rotating Gobo Wheel, and set it on a clean surface.



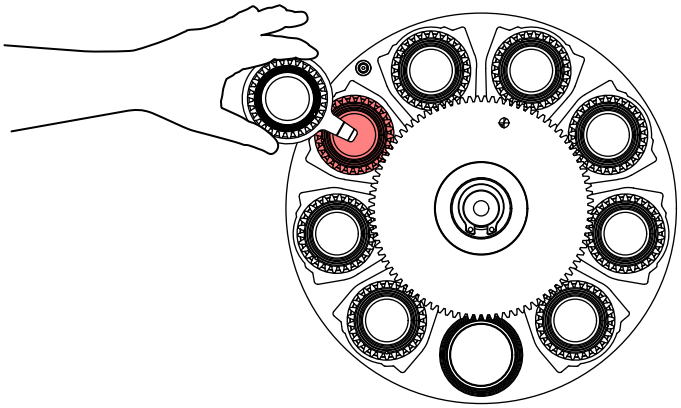
# GOBO INSTALLATION

To access the Gobo Holders on the Gobo Wheel, remove the Gobo Wheel from the Gobo Wheel Module Assembly. With the Gobo Wheel removed, turn it over to access the Gobo Holders.



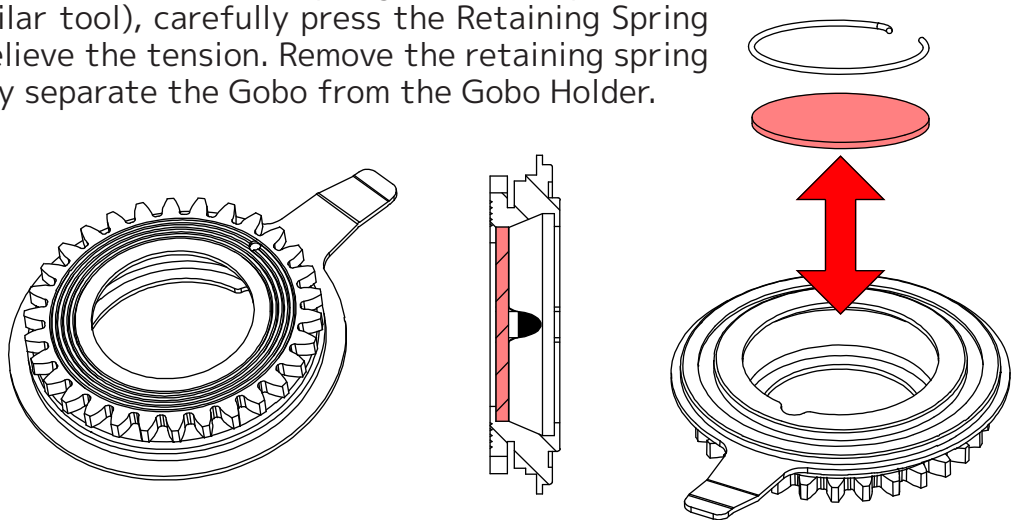


Locate the specific Rotating Gobo to replace. Carefully grip the Gobo Holder using your thumb and index finger, gently lift it slightlyto clear the slot, then pull it out and away until it fully clears the Gobo Wheel.



**CAUTION: TAKE CARE NOT TO SCRATCH GOBO OR GOBO HOLDER**

With the Gobo Holder separated from the Gobo Wheel, the gear side will be facing up. Turn it over to expose the Gobo. Locate the tab of the Retention Spring, and with a precision pick (or similar tool), carefully press the Retaining Spring inward to relieve the tension. Remove the retaining spring and carefully separate the Gobo from the Gobo Holder.



**Note**: To ensure proper Gobo orientation on the Rotating Gobo Wheel, align the Alignment Indices before installing the Retention Spring.

# INSTALLATION

**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.

Ambient operating temperature is range **14°F to 113°F (-10°C to 45°C)**. Do not operate this device when ambient temperature falls outside of this range.

**Safety distance between objects is 1.6' (0.5m)**
**Minimum distance of flammable materials is 1.6' (0.5m)**
**Minimal distances to lighting objects is 6.6' (2m)**

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 perodic 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.

**OPERATIONAL BREAKS**

**Duty Cycle** - 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.

**The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.**

**The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 3.2m is not expected.**

**TRANSPORTATION AND STORAGE**

Pan and tilt locks are for service purposes only and not intended to secure the fixture during transportation; always disengage them before moving or transporting the unit to avoid damage to the internal mechanics.

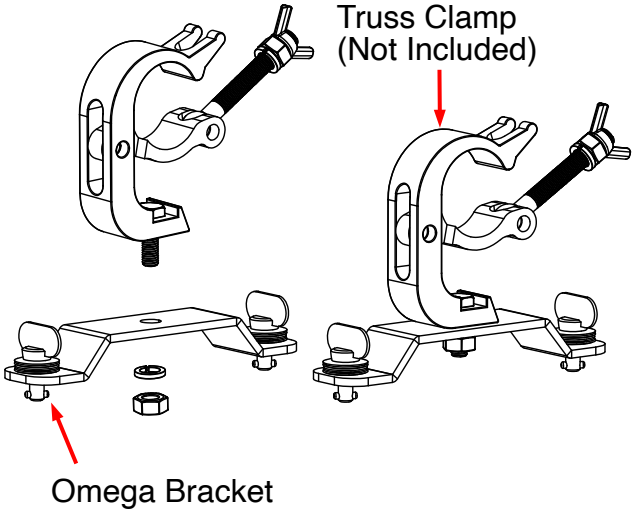
**CONDENSATION AND MOISTURE INSPECTION**

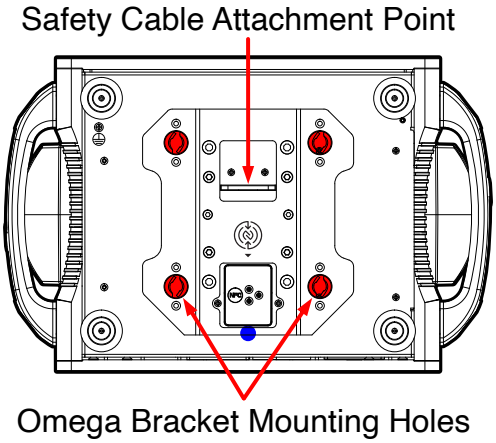
Before powering on, remove the fixture from its packaging or road case in a dry, controlled environment and inspect for transport damage or signs of condensation/moisture caused by temperature changes (e.g., cold storage to warm venue). Allow full acclimation to ambient temperature (at least 1–2 hours) until any condensation evaporates completely to prevent electrical damage, short circuits, or corrosion. Do not operate if moisture is present, as this may cause irreversible damage and void the warranty. If issues persist, consult the troubleshooting guide or contact technical support.

# INSTALLATION

## CLAMP MOUNTING

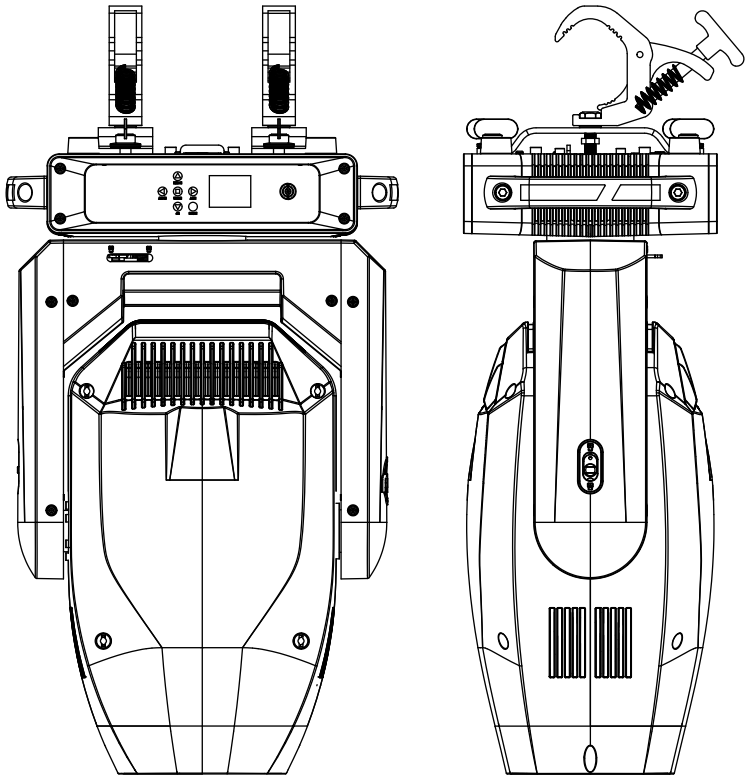
This fixture features mounting holes on the underside for the attachment of Omega clamps. When mounting the fixture to a truss or any other suspended structure, be sure to secure an appropriate rated clamp (not included) to each Omega bracket. Insert a bolt of appropriate size through the bottom of the mounting clamp and the central hole on the mounting bracket, and secure them together with a matching nut. Then insert the twist lock fasteners of the Omega bracket into the mounting holes on the fixture, and twist to secure in place. **Please note that two mounting clamps and two Omega brackets are required to securely install this unit**. Additionally, a safety cable of the appropriate weight rating should be secured to at least one of the two available locations on the underside of the fixture base.



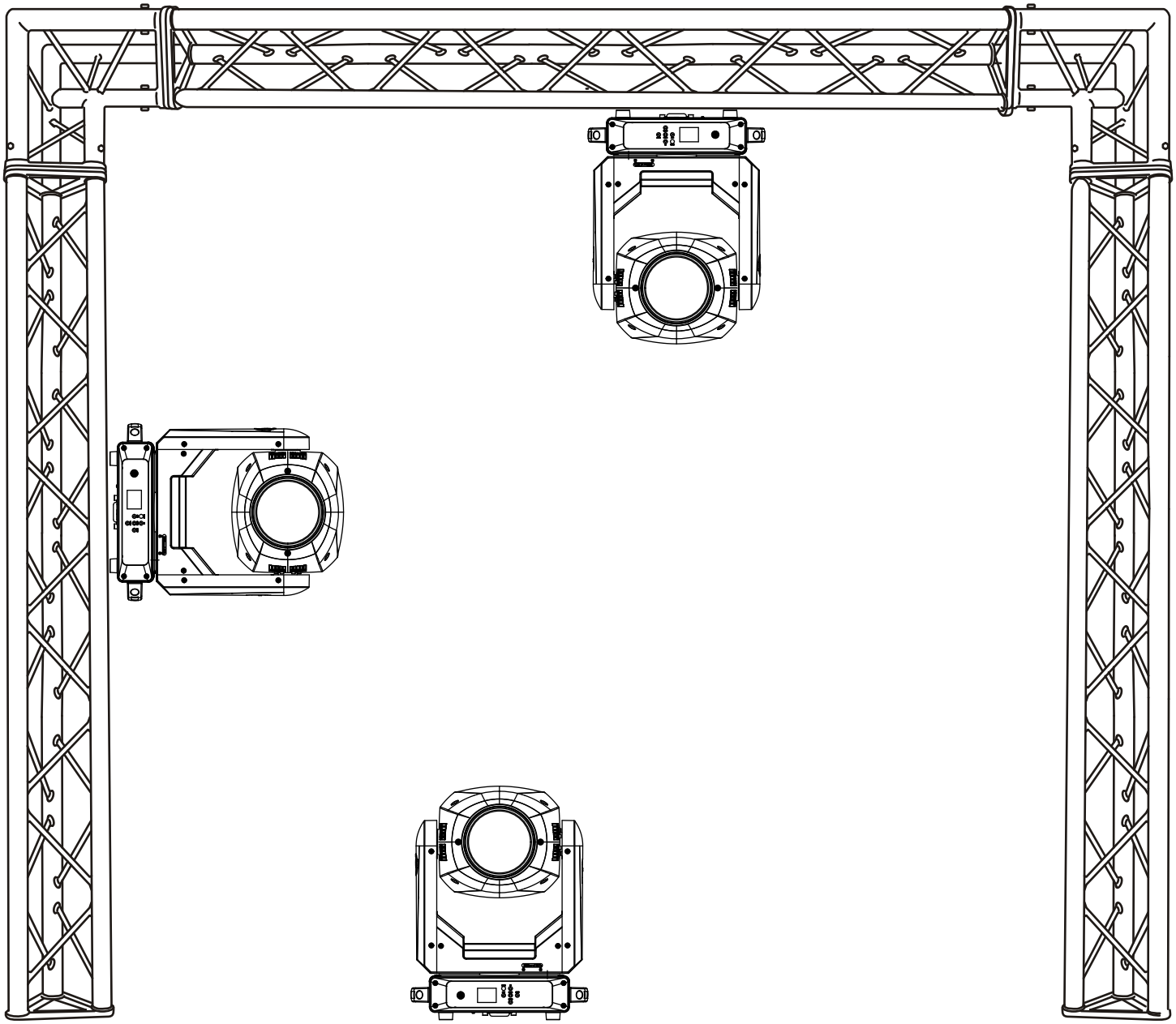




**SAFETY CABLE:**

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



# INSTALLATION



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. 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 THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.**

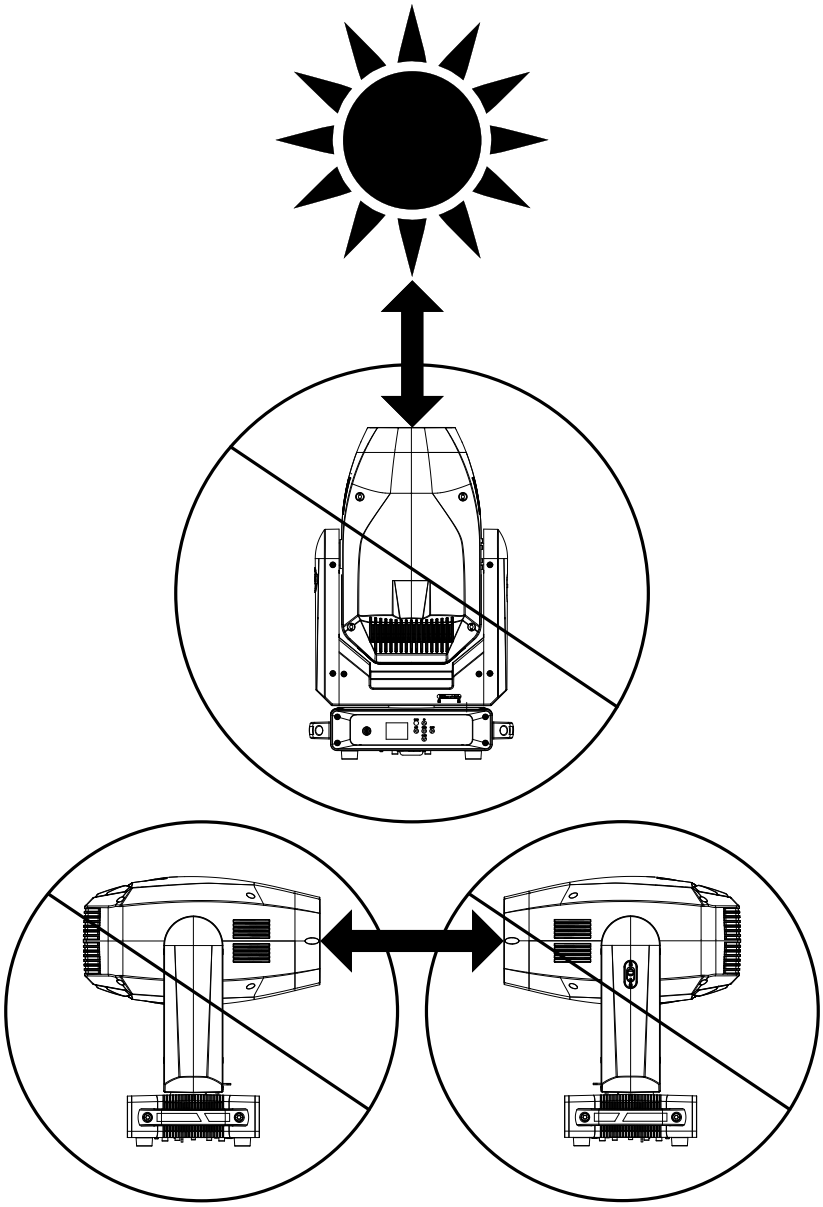
# INSTALLATION

**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.**



# ARIA SETUP & GUIDELINES

**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.

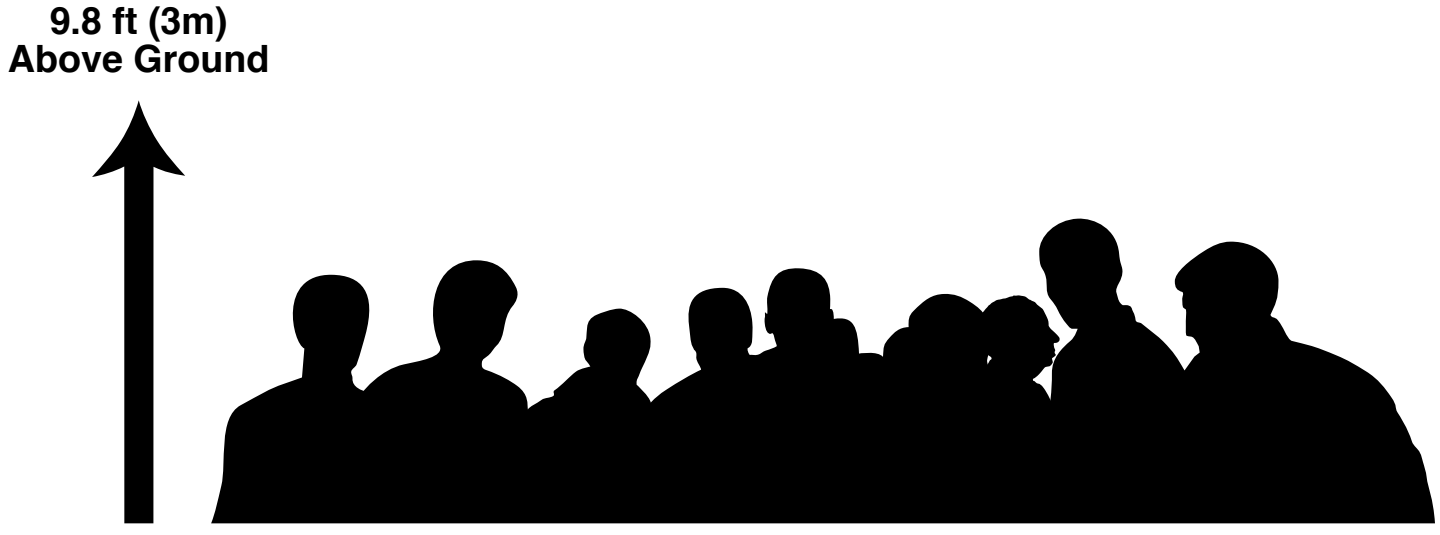
In summary, if an application demands high data rates and more bandwidth in urban or densely populated areas where interference management is feasible, the 2.4 GHz frequency is a suitable choice. On the other hand, for applications requiring long-range communication and better obstacle penetration, particularly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



# ARIA SETUP & GUIDELINES

## GENERAL INFORMATION

The Aria X2 BLE App has the ability to connect wirelessly to any device that has Aria 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 an Aria X2 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 & 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**

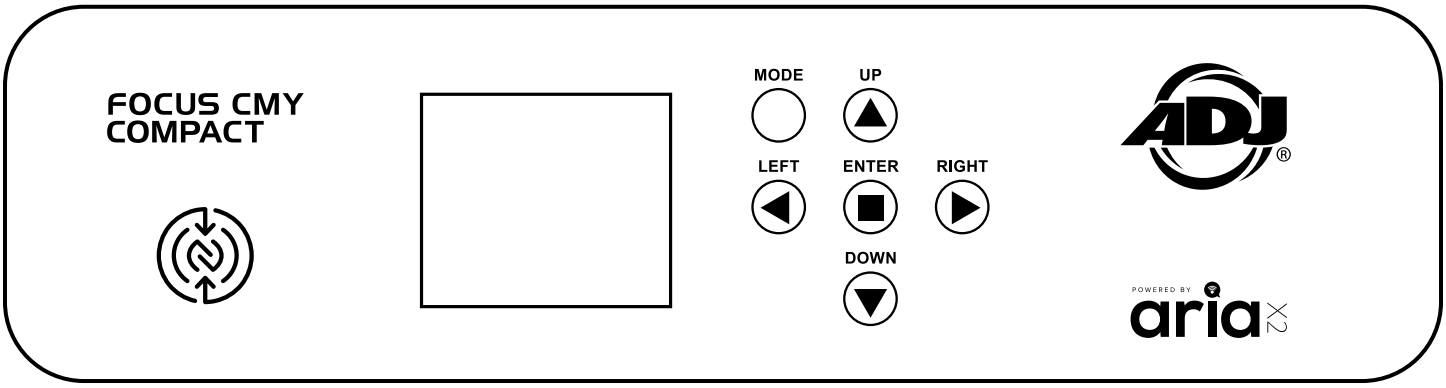
Each fixture must have a password saved to be secure. When a new fixture is installed for the first time, its password will automatically be set to the app's system password on first connection. Once the password has been entered, the user will need to exit out to the main page containing the fixture 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.

# SYSTEM MENU

This unit features a display screen with a 6-button control pad, which can be used to easily adjust any device settings.

Pressing the **MENU** 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**, **DOWN**, **LEFT**, and **RIGHT** buttons to navigate through sub-menu options. In some cases, there will be a second sub-menu that can be navigated in the same way.



# SYSTEM MENU

| MAIN MENU | OPTIONS / VALUES (Default Settings in **BOLD**) | | | |
|---|---|---|---|---|
| **DMX Settings** | Address | **001**-XXX | | |
| | DMX Channel Mode | Basic 26, **Standard 31**, Extended 40, User Mode | | |
| | No DMX Status | **Hold Last**, Blackout, Manual, Internal Programs | | |
| **Personality** | Prim/Sec Mode | Primary / **Secondary** | | |
| | Select Signal | **DMX** or Aria | Auto/**DMX**/Aria | |
| | | Aria and 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 | |
| | Network | Input | **ON** / OFF | |
| | | Protocol | ArtNet, sACN | |
| | | Universe | Set Universe | 000 - 32767 |
| | | Address | IP Address | 002.000.000.001 |
| | | | Subnet Mask | 255.000.000.000 |
| | Status Settings | Pan Degree | **540** / 630 | |
| | | Pan Invert | ON / OFF | |
| | | Tilt Invert | ON / OFF | |
| | | P./T. Feedback | **ON / OFF** | |
| | | P./T. Speed | Slow, **Medium**, Fast | |
| | | Hibernation | OFF, 01M~99M, **15M** | |
| | Fan Settings | Head Fan | **Auto**, High, Low, Mute | |
| | | Base Fan | **Auto**, High, Low, Mute | |
| | RDM | **ON** / OFF | | |
| | Zoom Speed | **Standard**, Fast | | |
| | Dim Modes | **Standard**, Stage, TV, Architectural, Theatre, Stage 2 | | |
| | | Dim Speed | 0.1S~10S | |
| | LED Refresh Rate | 900~1500 (**1200Hz**), 2500, 4000, 5000, 6000, 10KHZ, 15KHZ, 20KHZ, 25KHZ | | |
| | Dim Curve | **Square**, Linear, Inv. Squa, S. Curve | | |
| | CT Mode | ON / **OFF** | | |
| | Reset Motors | Reset All Motors | YES / **NO** | |
| | | Pan/Tilt Reset | YES / **NO** | |
| | | … | … | |
| | | Effect Reset | YES / **NO** | |
| | Display | Intensity | 1-**10** | |
| | | Display Invert | YES / **NO** | |
| | | Screen Saver Delay | OFF-10M **05M** | |
| | | Key Lock | **OFF** / ON / ON1 | |
| | Set User Mode | Pan | 1 | |
| | | Pan Fine | 2 | |
| | | Tilt | 3 | |
| | | Tilt Fine | 4 | |
| | | … | … | |
| | | CMY & Color Macro Speed | 38 | |
| | | P/T Speed | 39 | |
| | | Special | 40 | |
| | Service | Passcode (**050**) | Effect Adjust (Calibration) | Pan 000-255 |
| | | | | Tilt 000-255 |
| | | | | Cyan 000-255 |
| | | | | Magenta 000-255 |
| | | | | Yellow 000-255 |
| | | | | CTO 000-255 |
| | | | | … |
| | | | Factory Restore | No/Yes Passcode (**011**) |

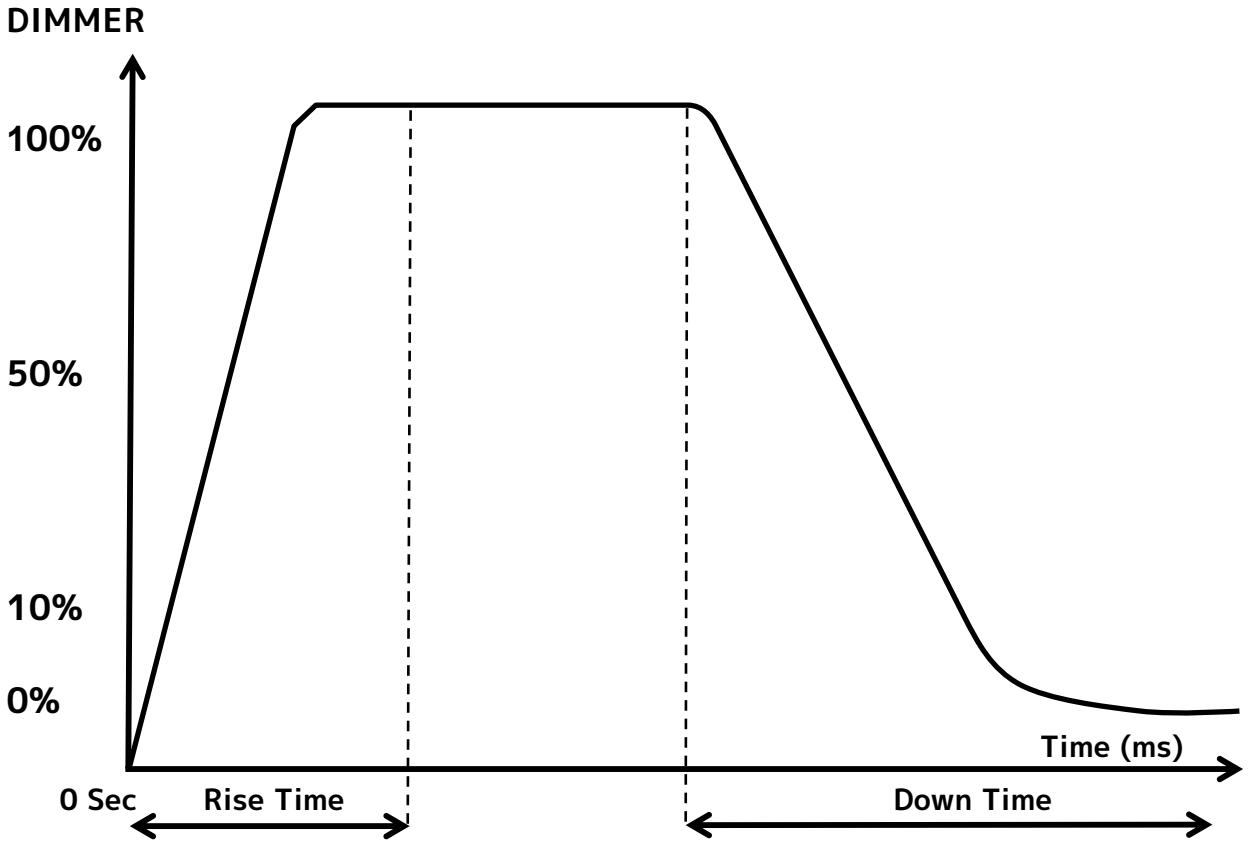
# SYSTEM MENU

| MAIN MENU | OPTIONS / VALUES (Default Settings in **BOLD**) | | |
|---|---|---|---|
| **Manual Control** | Pan | | 000-255 |
| | Pan Fine | | 000-255 |
| | Tilt | | 000-255 |
| | Tilt Fine | | 000-255 |
| | Cyan | | 000-255 |
| | Cyan Fine | | 000-255 |
| | Magenta | | 000-255 |
| | Magenta Fine | | 000-255 |
| | Yellow | | 000-255 |
| | Yellow Fine | | 000-255 |
| | CTO | | 000-255 |
| | CTO Fine | | 000-255 |
| | White CT Presets | | 000-255 |
| | Color Wheel | | 000-255 |
| | Color Macros | | 000-255 |
| | Gobo Wheel 1 | | 000-255 |
| | Gobo 1 Rotation | | 000-255 |
| | Gobo 1 Index Fine | | 000-255 |
| | Gobo Wheel 2 | | 000-255 |
| | Shutter | | 000-255 |
| | Dimmer | | 000-255 |
| | Dimmer Fine | | 000-255 |
| | Prism 1 | | 000-255 |
| | Prism 1 Rot | | 000-255 |
| | Prism 1 Index Fine | | 000-255 |
| | Prism 2 | | 000-255 |
| | Prism 2 Rot | | 000-255 |
| | Prism 2 Index Fine | | 000-255 |
| | Prisms Macros | | 000-255 |
| | Focus | | 000-255 |
| | Focus Fine | | 000-255 |
| | Zoom | | 000-255 |
| | Zoom Fine | | 000-255 |
| | Frost 1 | | 000-255 |
| | Frost 2 | | 000-255 |
| | Dim Modes | | 000-255 |
| | Dim Curves | | 000-255 |
| | CMY & Color Mac Speed | | 000-255 |
| | P/T Speed | | 000-255 |
| | Special Function | | 000-255 |
| **Internal Programs** | Off | | |
| | Program 1 | Speed | 000-255 |
| | | Fade | 000-255 |
| | Program 2 | Speed | 000-255 |
| | | Fade | 000-255 |
| | | Speed | 000-255 |
| | | Fade | 000-255 |
| | Program 4 | Speed | 000-255 |
| | | Fade | 000-255 |
| | Program 5 | Speed | 000-255 |
| | | Fade | 000-255 |
| | Program 6 | Speed | 000-255 |
| | | Fade | 000-255 |
| | Program 7 | Speed | 000-255 |
| | | Fade | 000-255 |

# SYSTEM MENU

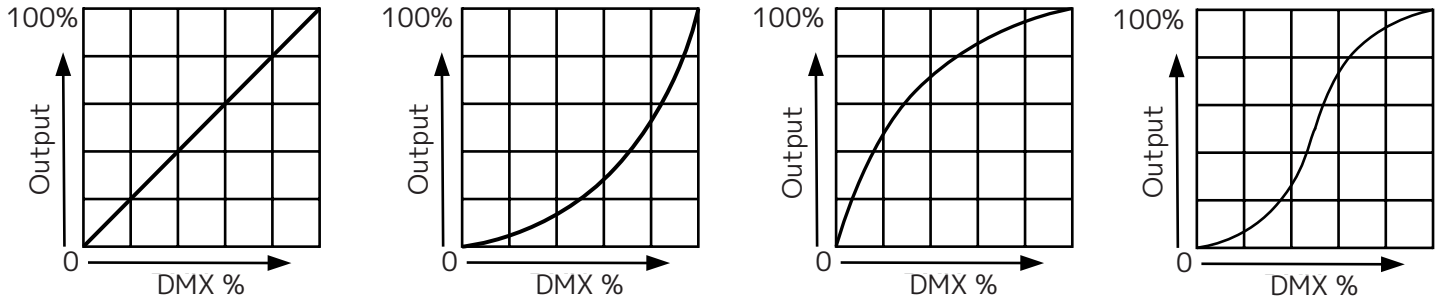
| MAIN MENU | OPTIONS / VALUES (Default Settings in **BOLD**) | | | |
|---|---|---|---|---|
| **Information** | Fixture Life Time | Power On Time | xxxxxx Hours | |
| | | P-On Time-R | xxxxxx Hours | |
| | | P-On Time-Reset | | |
| | Total LED Time | LED On Time | xxxxxx Hours | |
| | | LED On Time-R | xxxxxx Hours | |
| | | LED Hours Reset | Passcode 050 | |
| | Fixture Temps | LEDs | Current | T: |
| | | | | xxx F / xxx C |
| | | | Max Resettable | T: |
| | | | | xxx F / xxx C |
| | | Base Temp | Current | T: |
| | | | | xxx F / xxx C |
| | | | Max Resettable | T: |
| | | | | xxx F / xxx C |
| | | Reset LED Temp | YES / NO | Passcode **050** |
| | | Reset Base Temp | YES / NO | Passcode **050** |
| | Fan Info.(RPM) | LED Fan1 | 2500-3400 RPM | |
| | | Base Fan1 | 3400-4500 RPM | |
| | | Gobo Fan | 1200-1800 RPM | |
| | | Focus Fan | 3400-4500 RPM | |
| | DMX Values | Pan | | |
| | | Pan Fine | | |
| | | … | | |
| | Error Logs | Xxxxx | List Errors one by one | |
| | | Reset Error Log | YES / NO | Passcode **050** |
| | Product ID's | RDM UID | xxxxxx | |
| | | Aria ID | xx:xx:xx:xx:xx:xx | |
| | Software Version | 1U:XXX | | |
| | | 2U:XXX | | |
| | | 3U:XXX | | |

# DIMMER 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 |

# DIMMER MODES



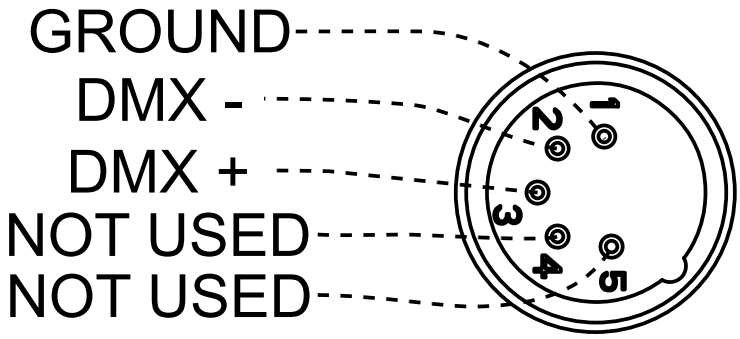
# DMX SETUP

**DMX-512:** DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a DATA “OUT” terminal).

**DMX Linking:** DMX is a language allowing all makes and models of different manufacturers to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, try to use the shortest cable path possible when 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.

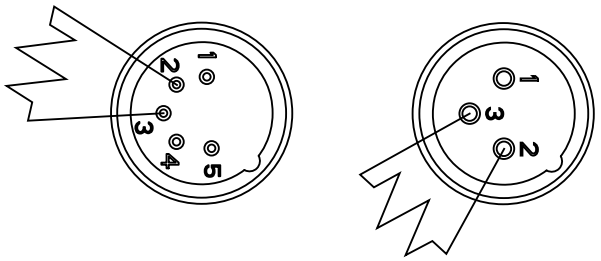
**Data Cable (DMX Cable) Requirements (For DMX Operation):** This unit can be controlled via DMX-512 protocol. The DMX address is set on the rear panel of the unit. Your unit and your DMX controller require a standard 5-pin XLR connector for data input and data output. We recommend Accu-Cable DMX cables. 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 fthe 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 SETUP

**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 28 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 27 (1 + 26), the third unit to 53 (1 + 26 + 26), and so on. See the chart below for more details:

| CHANNEL MODE | UNIT 1 ADDRESS | UNIT 2 ADDRESS | UNIT 3 ADDRESS | UNIT 4 ADDRESS |
|---|---|---|---|---|
| **Basic (26Ch)** | 1 | 27 | 53 | 79 |
| **Standard (31Ch)** | 1 | 32 | 63 | 94 |
| **Extended (40Ch)** | 1 | 41 | 81 | 85 |

# DMX TRAITS

| CHANNEL | | | DMX VALUES | FUNCTION |
|---|---|---|---|---|
| Basic | Standard | Extended | | |
| 1 | 1 | 1 | 000-255 | **Pan**, Pan Movement (540/630) |
| | 2 | 2 | 000-255 | **Pan Fine**, Pan Fine |
| 2 | 3 | 3 | 000-255 | **Tilt**, Tilt Movement (270) |
| | 4 | 4 | 000-255 | **Tilt Fine**, Tilt Fine |
| 3 | 5 | 5 | 000-255 | **Cyan**, 0 to 100% |
| | | 6 | 000-255 | **Cyan Fine**, 0 to 100% |
| 4 | 6 | 7 | 000-255 | **Magenta**, 0 to 100% |
| | | 8 | 000-255 | **Magenta Fine**, 0 to 100% |
| 5 | 7 | 9 | 000-255 | **Yellow**, 0 to 100% |
| | | 10 | 000-255 | **Yellow Fine**, 0 to 100% |
| 6 | 8 | 11 | 000-255 | **CTO**, 0 to 100% |
| | | 12 | 000-255 | **CTO Fine**, 0 to 100% |
| 7 | 9 | 13 | | **White Color Temp Presets** |
| | | | 000-023 | Open |
| | | | 024-063 | See WCT Preset Chart |
| | | | 064-255 | 6700K |
| 8 | 9 | 14 | | **Color Wheel** |
| | | | 000-004 | Open |
| | | | 005-017 | Open / Red |
| | | | 018-030 | Red |
| | | | 031-043 | Red / Blue |
| | | | 044-056 | Blue |
| | | | 057-069 | Blue / Green |
| | | | 070-082 | Green |
| | | | 083-095 | Green / Orange |
| | | | 096-108 | Orange |
| | | | 109-121 | Orange / Midnight Blue |
| | | | 122-134 | Midnight Blue |
| | | | 135-147 | Midnight Blue / High CRI |
| | | | 148-160 | High CRI |
| | | | 161-173 | High CRI / CTB |
| | | | 174-186 | CTB |
| | | | 187-199 | CTB / Open |
| | | | 200-226 | Clockwise Color Wheel Rotation, Fast -> Slow |
| | | | 227-228 | No Rotation |
| | | | 229-255 | Counter Clockwise Color Wheel Rotation, Slow -> Fast |

# DMX TRAITS

| CHANNEL | | | DMX VALUES | FUNCTION |
|---|---|---|---|---|
| Basic | Standard | Extended | | |
| 9 | 11 | 15 | | **Color Macros - CMY and Color Whels** |
| | | | 000-031 | OFF |
| | | | 032-039 | Macro1 |
| | | | 040-047 | Macro2 |
| | | | 048-055 | Macro3 |
| | | | 056-063 | Macro4 |
| | | | 064-071 | Macro5 |
| | | | 072-079 | Macro6 |
| | | | 080-087 | Macro7 |
| | | | 088-095 | Macro8 |
| | | | 096-103 | Macro9 |
| | | | 104-111 | Macro10 |
| | | | 112-119 | Macro11 |
| | | | 120-127 | Macro12 |
| | | | 128-135 | Macro13 |
| | | | 136-143 | Macro14 |
| | | | 144-151 | Macro15 |
| | | | 152-159 | Macro16 |
| | | | 160-167 | Macro17 |
| | | | 168-175 | Macro18 |
| | | | 176-183 | Macro19 |
| | | | 184-191 | Macro20 |
| | | | 192-199 | Macro21 |
| | | | 200-207 | Macro22 |
| | | | 208-215 | Macro23 |
| | | | 216-223 | Macro24 |
| | | | 224-231 | Macro25 |
| | | | 232-239 | Macro26 |
| | | | 240-247 | Macro27 |
| | | | 248-255 | Random CMY |
| 10 | 12 | 16 | | **Rotating Wheel** |
| | | | 000-005 | Open |
| | | | 006-012 | Gobo 1 |
| | | | 013-019 | Gobo 2 |
| | | | 020-026 | Gobo 3 |
| | | | 027-033 | Gobo 4 |
| | | | 034-040 | Gobo 5 |
| | | | 041-047 | Gobo 6 |
| | | | 048-054 | Gobo 7 |
| | | | 055-061 | Gobo 8 |
| | | | 062-077 | Gobo 1 shake (slow-fast) |
| | | | 078-093 | Gobo 2 shake (slow-fast) |
| | | | 094-109 | Gobo 3 shake (slow-fast) |
| | | | 110-125 | Gobo 4 shake (slow-fast) |
| | | | 126-141 | Gobo 5 shake (slow-fast) |
| | | | 142-157 | Gobo 6 shake (slow-fast) |
| | | | 158-173 | Gobo 7 shake (slow-fast) |
| | | | 174-189 | Gobo 8 shake (slow-fast) |
| | | | 190-221 | Clockwise Gobo Wheel Rotation, Fast -> Slow |
| | | | 222-223 | No Rotation |
| | | | 224-255 | Counter Clockwise Gobo Wheel Rotation, Slow -> Fast |

# DMX TRAITS

| CHANNEL | | | DMX VALUES | FUNCTION |
|---|---|---|---|---|
| Basic | Standard | Extended | | |
| | | | | **Gobo Rotation** |
| | | | 000-127 | Gobo indexing |
| 11 | 13 | 17 | 128-189 | Clockwise Gobo Rotation, Fast -> Slow |
| | | | 190-193 | No Rotation |
| | | | 194-255 | Counter Clockwise Gobo Rotation, Slow -> Fast |
| | | 18 | 000-255 | **Gobo Index FIne**, Gobo indexing fine |
| | | | | **Fixed Gobo Wheel** |
| | | | 000-005 | Open |
| | | | 006-014 | Gobo 1 |
| | | | 015-023 | Gobo 2 |
| | | | 024-032 | Gobo 3 |
| | | | 033-041 | Gobo 4 |
| | | | 042-050 | Gobo 5 |
| | | | 051-059 | Gobo 6 |
| | | | 060-068 | Gobo 7 |
| | | | 069-077 | Gobo 8 |
| | | | 078-086 | Gobo 9 |
| | | | 087-095 | Gobo 10 |
| 12 | 14 | 19 | 096-104 | Gobo 1 shake (slow-fast) |
| | | | 105-113 | Gobo 2 shake (slow-fast) |
| | | | 114-122 | Gobo 3 shake (slow-fast) |
| | | | 123-131 | Gobo 4 shake (slow-fast) |
| | | | 132-140 | Gobo 5 shake (slow-fast) |
| | | | 141-149 | Gobo 6 shake (slow-fast) |
| | | | 150-158 | Gobo 7 shake (slow-fast) |
| | | | 159-167 | Gobo 8 shake (slow-fast) |
| | | | 168-176 | Gobo 9 shake (slow-fast) |
| | | | 177-185 | Gobo 10 shake (slow-fast) |
| | | | 186-217 | Clockwise Gobo Wheel Rotation, Fast -> Slow |
| | | | 218-223 | No Rotation |
| | | | 224-255 | Counter Clockwise Gobo Wheel Rotation, Slow -> Fast |
| | | | | **Shutter** |
| | | | 000-031 | Shutter closed |
| | | | 032-063 | Shutter open |
| | | | 064-095 | Strobe Slow to fast |
| 13 | 15 | 20 | 096-127 | Shutter open |
| | | | 128-159 | Pulse effect Slow to fast |
| | | | 160-191 | Shutter open |
| | | | 192-223 | Random strobe Slow to fast |
| | | | 224-255 | Shutter open |
| 14 | 16 | 21 | 000-255 | **Dimmer**, Intensity 0 to 100% |
| | 17 | 22 | 000-255 | **Dimmer Fine**, Dimmer Intensity Fine |

# DMX TRAITS

| CHANNEL | | | DMX VALUES | FUNCTION |
|---|---|---|---|---|
| Basic | Standard | Extended | | |
| | | | | **Prism 1** |
| 15 | 18 | 23 | 000-031 | No Effect |
| | | | 032-255 | Prism 1 |
| | | | | **Prism 1 Rotate & Index** |
| | | | 000-127 | Prism 1 indexing |
| 16 | 19 | 24 | 128-189 | Clockwise rotation from fast to slow |
| | | | 190-193 | No rotation |
| | | | 194-255 | Counter-Clockwise rotation from slow to fast |
| | | 25 | 000-255 | **Prism 1 Index Fine**, Fine 16-bit index |
| | | | | **Prism 2** |
| 17 | 20 | 26 | 000-031 | No Effect |
| | | | 032-255 | Prism 2 |
| | | | | **Prism 2 Rotate & Index** |
| | | | 000-127 | Prism 2 indexing |
| 18 | 21 | 27 | 128-189 | Clockwise rotation from fast to slow |
| | | | 190-193 | No rotation |
| | | | 194-255 | Counter-Clockwise rotation from slow to fast |
| | | 28 | 000-255 | **Prism 2 Index Fine**, Fine 16-bit index |
| | | | | **Prism/Gobo Macros** |
| | | | 000-009 | No Prism - Open |
| | | | 010-019 | Macro1 |
| | | | 020-029 | Macro2 |
| | | | 030-039 | Macro3 |
| | | | 040-049 | Macro4 |
| | | | 050-059 | Macro5 |
| | | | 060-069 | Macro6 |
| | | | 070-079 | Macro7 |
| | | | 080-089 | Macro8 |
| | | | 090-099 | Macro9 |
| | | | 100-109 | Macro10 |
| 19 | 22 | 29 | 110-119 | Macro11 |
| | | | 120-129 | Macro12 |
| | | | 130-139 | Macro13 |
| | | | 140-149 | Macro14 |
| | | | 150-159 | Macro15 |
| | | | 160-169 | Macro16 |
| | | | 170-179 | Macro17 |
| | | | 180-189 | Macro18 |
| | | | 190-199 | Macro19 |
| | | | 200-209 | Macro20 |
| | | | 210-219 | Macro21 |
| | | | 220-229 | Macro22 |
| | | | 230-239 | Macro23 |
| | | | 240-255 | Macro24 |
| 20 | 23 | 30 | 000-255 | **Focus**, 0% to 100% |
| | | 31 | 000-255 | **Focus Fine**, 0% to 100% |
| 21 | 24 | 32 | 000-255 | **Zoom**, Narrow to wide |
| | | 33 | 000-255 | **Zoom Fine**, Narrow to wide 16-bit |
| 22 | 25 | 34 | 000-255 | **Frost 1**, 0% to 100% (Medium) |
| 23 | 26 | 35 | 000-255 | **Frost 2**, 0% to 100% (Heavy) |

# DMX TRAITS

| CHANNEL | | | DMX VALUES | FUNCTION |
|---|---|---|---|---|
| Basic | Standard | Extended | | |
| | 27 | 36 | | **Dimmer Mode** |
| | | | 000-020 | Default to Unit Setting |
| | | | 021-040 | Standard |
| | | | 041-060 | Stage |
| | | | 061-080 | TV |
| | | | 081-100 | Architectural |
| | | | 101-120 | Theater |
| | | | 121-140 | Stage 2 |
| | | | 141-160 | Dim Speed From Fast to Slow (0.1-10s) |
| | | | 161-255 | Default to Unit Setting |
| | 28 | 37 | | **Dim Curves** |
| | | | 000-020 | Square |
| | | | 021-040 | Linear |
| | | | 041-060 | Inv. Squa |
| | | | 061-080 | S. Curve |
| | | | 081-255 | No function |
| 24 | 29 | 38 | | **CMY & Color Macro Speed**, CMY / Color Macro Speed Max -> Min |
| 25 | 30 | 39 | | **Pan/Tilt Speed** |
| | | | 000-225 | Pan/Tilt Fast -> Slow |
| | | | 226-235 | Blackout by movement |
| | | | 236-245 | Blackout by all wheel changing |
| | | | 246-255 | No function |
| 26 | 31 | 40 | | **Special Function** |
| | | | 000-029 | No function |
| | | | 030-039 | Fan Control - Mute |
| | | | 040-049 | Fan Control - Low |
| | | | 050-059 | Fan Control - High |
| | | | 060-069 | Fan Control - Auto |
| | | | 070-074 | All motor Reset |
| | | | 075-079 | Pan / Tilt Reset |
| | | | 080-084 | Color Reset |
| | | | 085-089 | Gobo Reset |
| | | | 090-094 | Focus and Zoom Reset |
| | | | 095-104 | No function |
| | | | 105-109 | Other motors Reset |
| | | | 110-142 | No function |
| | | | 143-144 | Pan/Tilt Speed Slow |
| | | | 145-146 | Pan/Tilt Speed Medium |
| | | | 147-148 | Pan/Tilt Speed Fast |
| | | | 149-150 | Aria Enable ON |
| | | | 151-152 | Aria Enable OFF |
| | | | 153-154 | Hibernation Enable |
| | | | 155-156 | Hibernation OFF |
| | | | 157-158 | Display Backlight ON |
| | | | 159-160 | Display Backlight OFF |
| | | | 161-164 | No function |
| | | | 165-166 | Invert Pan ON |
| | | | 167-168 | Invert Pan OFF |
| | | | 169-170 | Invert Tilt ON |
| | | | 171-172 | Invert Tilt OFF |
| | | | 173-173 | 900 Hz LED Refresh Rate |
| | | | 174-174 | 910 Hz LED Refresh Rate |
| | | | 175-175 | 920 Hz LED Refresh Rate |
| | | | 176-176 | 930 Hz LED Refresh Rate |
| | | | 177-177 | 940 Hz LED Refresh Rate |
| | | | 178-178 | 950 Hz LED Refresh Rate |
| | | | 179-179 | 960 Hz LED Refresh Rate |
| | | | 180-180 | 970 Hz LED Refresh Rate |
| | | | 181-181 | 980 Hz LED Refresh Rate |
| | | | 182-182 | 990 Hz LED Refresh Rate |

# DMX TRAITS

| CHANNEL | | | DMX VALUES | FUNCTION |
|---|---|---|---|---|
| Basic | Standard | Extended | | |
| 26 | 31 | 40 | | **Special Function** |
| | | | 183-183 | 1000 Hz LED Refresh Rate |
| | | | 184-184 | 1010 Hz LED Refresh Rate |
| | | | 185-185 | 1020 Hz LED Refresh Rate |
| | | | 186-186 | 1030 Hz LED Refresh Rate |
| | | | 187-187 | 1040 Hz LED Refresh Rate |
| | | | 188-188 | 1050 Hz LED Refresh Rate |
| | | | 189-189 | 1060 Hz LED Refresh Rate |
| | | | 190-190 | 1070 Hz LED Refresh Rate |
| | | | 191-191 | 1080 Hz LED Refresh Rate |
| | | | 192-192 | 1090 Hz LED Refresh Rate |
| | | | 193-193 | 1100 Hz LED Refresh Rate |
| | | | 194-194 | 1110 Hz LED Refresh Rate |
| | | | 195-195 | 1120 Hz LED Refresh Rate |
| | | | 196-196 | 1130 Hz LED Refresh Rate |
| | | | 197-197 | 1140 Hz LED Refresh Rate |
| | | | 198-198 | 1150 Hz LED Refresh Rate |
| | | | 199-199 | 1160 Hz LED Refresh Rate |
| | | | 200-200 | 1170 Hz LED Refresh Rate |
| | | | 201-201 | 1180 Hz LED Refresh Rate |
| | | | 202-202 | 1190 Hz LED Refresh Rate |
| | | | 203-203 | 1210 Hz LED Refresh Rate |
| | | | 204-204 | 1220 Hz LED Refresh Rate |
| | | | 205-205 | 1230 Hz LED Refresh Rate |
| | | | 206-206 | 1240 Hz LED Refresh Rate |
| | | | 207-207 | 1250 Hz LED Refresh Rate |
| | | | 208-208 | 1260 Hz LED Refresh Rate |
| | | | 209-209 | 1270 Hz LED Refresh Rate |
| | | | 210-210 | 1280 Hz LED Refresh Rate |
| | | | 211-211 | 1290 Hz LED Refresh Rate |
| | | | 212-212 | 1300 Hz LED Refresh Rate |
| | | | 213-213 | 1310 Hz LED Refresh Rate |
| | | | 214-214 | 1320 Hz LED Refresh Rate |
| | | | 215-215 | 1330 Hz LED Refresh Rate |
| | | | 216-216 | 1340 Hz LED Refresh Rate |
| | | | 217-217 | 1350 Hz LED Refresh Rate |
| | | | 218-218 | 1360 Hz LED Refresh Rate |
| | | | 219-219 | 1370 Hz LED Refresh Rate |
| | | | 220-220 | 1380 Hz LED Refresh Rate |
| | | | 221-221 | 1390 Hz LED Refresh Rate |
| | | | 222-222 | 1400 Hz LED Refresh Rate |
| | | | 223-223 | 1410 Hz LED Refresh Rate |
| | | | 224-224 | 1420 Hz LED Refresh Rate |
| | | | 225-225 | 1430 Hz LED Refresh Rate |
| | | | 226-226 | 1440 Hz LED Refresh Rate |
| | | | 227-227 | 1450 Hz LED Refresh Rate |
| | | | 228-228 | 1460 Hz LED Refresh Rate |
| | | | 229-229 | 1470 Hz LED Refresh Rate |
| | | | 230-230 | 1480 Hz LED Refresh Rate |
| | | | 231-231 | 1490 Hz LED Refresh Rate |
| | | | 232-232 | 1500 Hz LED Refresh Rate |
| | | | 233-233 | 2500 Hz LED Refresh Rate |
| | | | 234-234 | 4000 Hz LED Refresh Rate |
| | | | 235-235 | 5000 Hz LED Refresh Rate |
| | | | 236-236 | 6000 Hz LED Refresh Rate |
| | | | 237-237 | 10,000 Hz LED Refresh Rate |
| | | | 238-238 | 15,000 Hz LED Refresh Rate |
| | | | 239-239 | 20,000 Hz LED Refresh Rate |
| | | | 240-240 | 25,000 Hz LED Refresh Rate |
| | | | 241-241 | Internal Program 1 |
| | | | 242-242 | Internal Program 2 |
| | | | 243-243 | Internal Program 3 |
| | | | 244-244 | Internal Program 4 |
| | | | 245-245 | Internal Program 5 |
| | | | 246-246 | Internal Program 6 |
| | | | 247-247 | Internal Program 7 |
| | | | 248-249 | No function |
| | | | 250-252 | Enable CT Mode |
| | | | 253-255 | Disable CT Mode |

# COLOR TEMPERATURE

| DMX VALUE | COLOR TEMPERATURE (K) |
|---|---|
| 24 | 2700 |
| 25 | 2800 |
| 26 | 2900 |
| 27 | 3000 |
| 28 | 3100 |
| 29 | 3200 |
| 30 | 3300 |
| 31 | 3400 |
| 32 | 3500 |
| 33 | 3600 |
| 34 | 3700 |
| 35 | 3800 |
| 36 | 3900 |
| 37 | 4000 |
| 38 | 4100 |
| 39 | 4200 |
| 40 | 4300 |
| 41 | 4400 |
| 42 | 4500 |
| 43 | 4600 |
| 44 | 4700 |
| 45 | 4800 |
| 46 | 4900 |
| 47 | 5000 |
| 48 | 5100 |
| 49 | 5200 |
| 50 | 5300 |
| 51 | 5400 |
| 52 | 5500 |
| 53 | 5600 |
| 54 | 5700 |
| 55 | 5800 |
| 56 | 5900 |
| 57 | 6000 |
| 58 | 6100 |
| 59 | 6200 |
| 60 | 6300 |
| 61 | 6400 |
| 62 | 6500 |
| 63 | 6600 |

# PRIMARY-SECONDARY SETUP

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 ouput. 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 features 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:**

- **3 units @ 110V power**
- **6 units @ 220V 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!

# 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 |
|---|---|---|---|
| 1900 | 4B0000-FFFF | 004B | Basic 26<br>Standard 31<br>Extend 40 |

* The system randomly allocates 32-bit data based on the microcontroller's 32-bit unique identifier (UID).

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

| | |
|---|---|
| [0x0201] Sensor Value | [0x0602] Pan Tilt Swap |
| [0x0080] Device Model Description | [0x0500] Display Invert |
| [0x0081] Manufacturer Label | [0x0501] Display Level |
| [0x0082] Device Label | [0x0603] Realtime Clock |
| [0x00E0] DMX Personality | [0x1010] Power State |
| [0x00E1] DMX Personality Description | [0x1031] Preset Playback |
| [0x0400] Device Hours | [0x0122] Default Slot Value |
| [0x0015] Comms Status | [0x00B0] Language |
| [0x0031] Status ID Description | [0x00A0] Language Capabilities |
| [0x0032] Clear Status ID | [0x00C2] Boot Software Version Label |
| [0x0405] Device Power Cycles | [0x00C1] Boot Software Version ID |
| [0x0600] Pan Invert | [0x0070] Product Detail ID List |
| [0x0601] Tilt Invert | [0x0030] Status Messages |

# 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.

# ERROR CODES

| Error Codes subject to change without notice | |
|---|---|
| **ERROR CODES** | **DESCRIPTION** |
| **Pan** | Movement is not located in the default position after the reset. These messages will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a motor failure (defective motor or a defective motor IC drive on the main PCB). This error may also be displayed if the head/yoke was blocked during a reset function. |
| **Tilt** | |
| **Cyan** | Movement is not located in the default position after the reset. These messages will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a motor failure (defective motor or a defective motor IC drive on the main PCB). |
| **Magenta** | |
| **Yellow** | |
| **CTO** | |
| **ColorWheel** | |
| **RotGobo** | |
| **GoboRot** | |
| **FixedGobo** | |
| **Prism1** | |
| **Prism1Rot** | |
| **Prism2** | |
| **Prism2Rot** | |
| **Focus** | |
| **Zoom** | |
| **GoboFan** | These messages will appear if there is a temperature and/or fan malfunction. |
| **HeadFan** | |
| **LEDFan** | |
| **BaseFan** | |
| **LEDTemp** | |
| **BaseTemp** | |

# SPECIFICATIONS

**SOURCE**
400W LED Engine
Color Temperature: 6900k (+/-350k)
20,000 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.

**PHOTOMETRIC DATA**
14,500 Total Lumens
CRI: 64 (80 or 90 with HCRI Filter)

**EFFECTS**
4-Facet Circular & 6-Facet Linear Rotating Prisms
2x Frost Filters (Light and Heavy)
Motorized Zoom: 3°~52°
Motorized Focus
Electronic Dimming & Strobe: 1-20Hz

**COLOR**
Full CMY color mixing
Variable CTO (3200K to 8500K)
Colors Wheel with 7 dichroic colors (Includes High CRI Filter in slot 7)

**GOBOS**
(2) Gobo Wheels
#1 - (8) Rotating Glass Gobos (Interchangeable and Indexable)
#2 - (10) Static Glass Gobos

**CONTROL / CONNECTIONS**
(3) DMX Channel Modes - Basic (26ch) / Standard (31ch) / Extended (40ch)
DMX, RDM, sACN and ArtNet
Aria X2 Wireless Management System
NFC System
6 Button Touch Control Panel
Full Color 180° Reversible LCD Menu Display
8 / 16 Bit Resolution Adjustable Movement
RJ45 In/Thru Network Ports
5 pin XLR DMX In/Out
IP65 Locking Power In/Out
With Wired Digital Communication Network

**PAN / TILT**
Pan: 540/630-degrees
Tilt: 270-degrees
Pan & Tilt Locks

**SIZE / WEIGHT**
Length: 14.2" (360mm)
Width: 9.3" (234mm)
Vertical Height: 23.5” (597mm)
Weight: 43.9 lbs. (19.9kg)

**ELECTRICAL / THERMAL**
AC 100-240V - 50/60Hz
Max Power Consumption: 450W @ 220V.
Max ambient temperature: -13°F to 113°F (-25°C to 45°C)
Max housing temperature: TBD

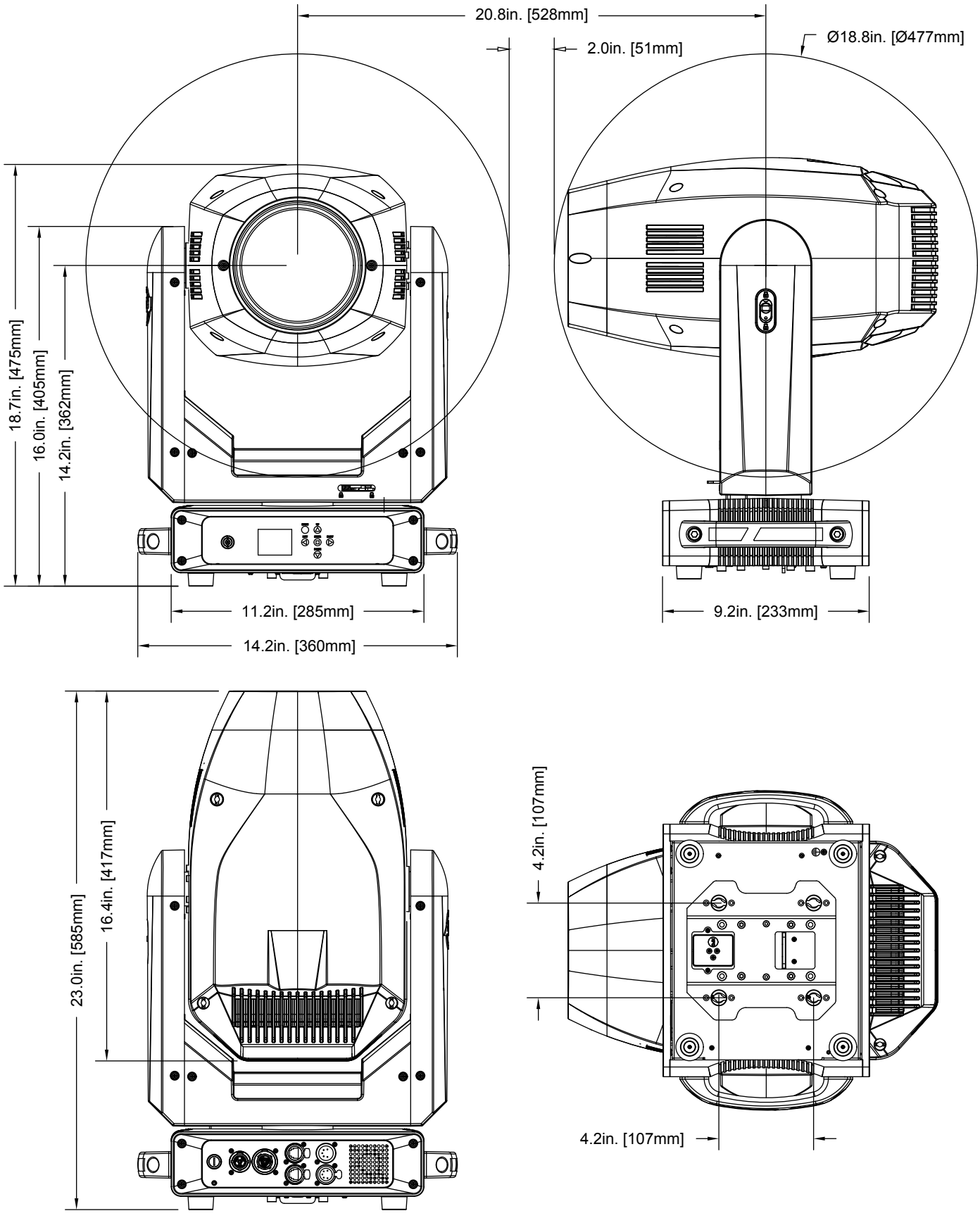
**TECHNICAL DATA**
DB Rating @ 3ft.: ?dB
BTU: 0.43
BTU/H: 1,534.50

**APPROVALS / RATINGS**
CE, FCC, cETLus (Control # 4010765), IP20

**INCLUDED ACCESSORIES**
(1) Power cable
(2) Omega bracket

Specifications are subject to change without notice.

# DIMENSIONAL DRAWINGS



# FCC STATEMENT

Please note that changes or modifications to this product that are not 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 A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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!