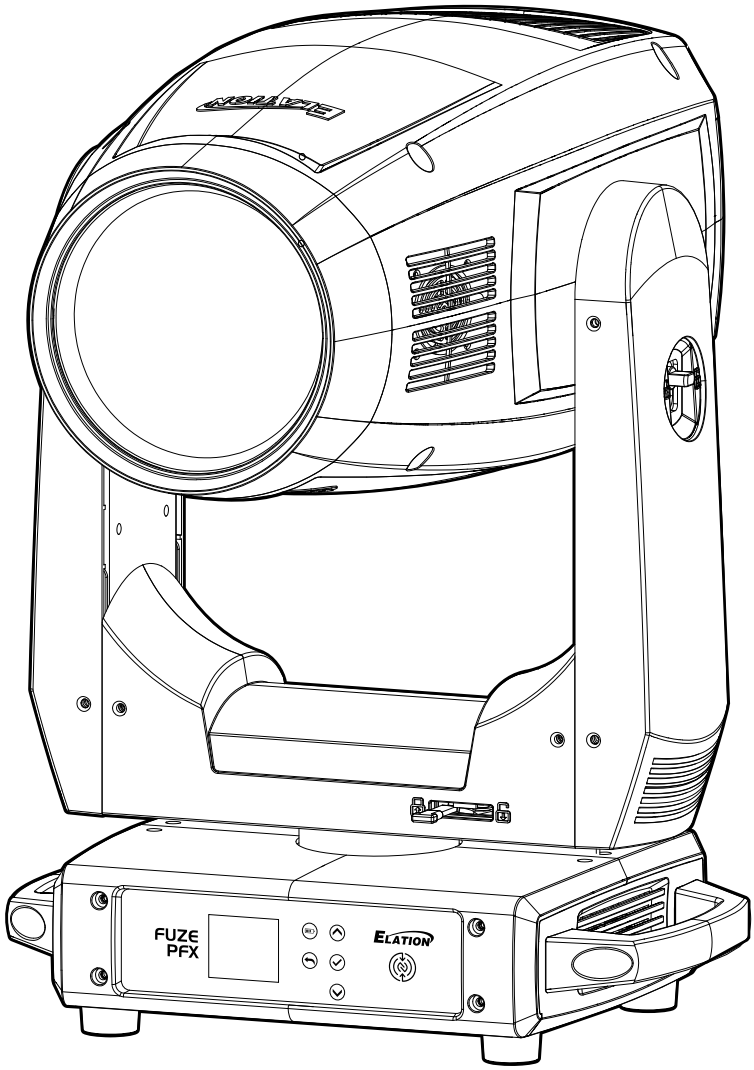
ELATION®



FUZE PFX

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 for the latest revision/update of this manual, before installation and/or programming.

Date	Document Version	Software Version ≥	DMX Channel Modes	Notes
02/11/25	1.0	1.1.2	38/55 Channels	Initial release.
11/17/25	1.1	N/C	No Change	Updated: General Info, Gobo Installation, Installation Guidelines, Specifications; Added Aria Setup Guidelines
12/11/25	1.2	N/C	No Change	Updated: General Info

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GENERAL INFORMATION

FOR PROFESSIONAL USE ONLY

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.

COOLING

After usage, the lamp may be switched off, but the fixture should remain connected to power in order to allow the fan time to cool down the fixture.

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

Omega Brackets (x2)
IP65 Power Cable (x1)
Safety 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 | 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 or scan the QR codes below.

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

EU: https://www.elationlighting.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.

SAFETY GUIDELINES

This fixture 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 fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture and only the original rigging and mounting hardware included with this fixture or available optional accessories should be used for installation. Any modifications to the fixture and/or the included and optional rigging and mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.

The light source in this luminaire must only be replaced by the manufacturer, their service agent, or a similarly qualified individual.

Do not stare at the operating light source.

Position the luminaire so that prolonged staring into it at distances closer than 3.9 meters is not expected.

Maintain a minimum distance of 1 foot (0.3 meters) from lighted objects.

Replace shields, lenses, or ultraviolet screens if they show visible damage, such as cracks or deep scratches, that compromise their effectiveness.

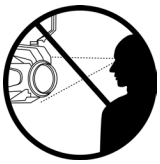
Reinforced insulation should be maintained between the main power supply and control contuctors.

This luminaire is designed for professional use only.

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!**



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

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

**MINIMUM DISTANCE TO OBJECTS/SURFACES
IS 1.0 FOOT (0.3 METER)
MINIMUM DISTANCE OF FLAMMABLE MATERIALS
FROM THE SURFACE IS 1.6 FEET (0.5 METER)
MAXIMUM AMBIENT OPERATING TEMPERATURE IS 113°F (45°C)**

SAFETY GUIDELINES

DO NOT TOUCH the fixture housing during operation.

DO NOT shake fixture and avoid brute force when installing and/or operating fixture.

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

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

DO NOT block any air ventilation slots. All fan and air inlets must remain clean and never blocked.

Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.

TURN OFF the power and allow approximately 15 minutes for the fixture to cool down before serving.

ALWAYS disconnect fixture from power before performing any service and/or cleaning procedure.

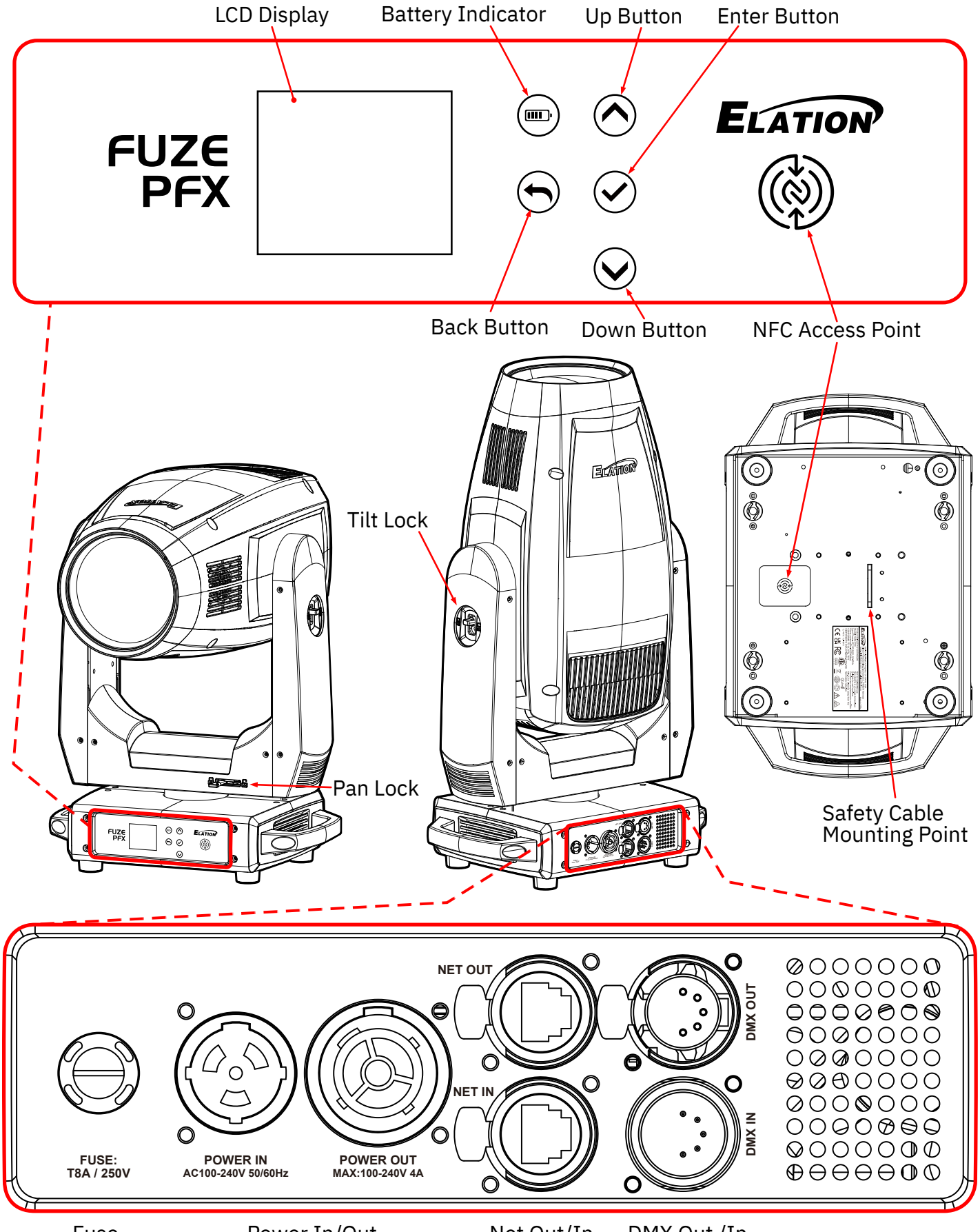
ONLY handle power cord by the plug end, never pull plug out by tugging the wire portion of the cord.

During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the LED and will decrease gradually over time.

Consistent operational breaks will ensure fixture will function properly for many years.

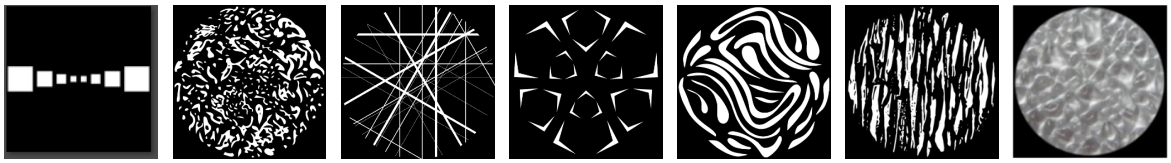
ONLY use the original packaging and materials to transport the fixture for service.

OVERVIEW


LCD Display
Battery Indicator
Up Button
Enter Button
FUZE PFX
Back Button
Down Button
NFC Access Point
Tilt Lock
Pan Lock
Safety Cable Mounting Point
NET OUT
DMX OUT
NET IN
DMX IN
FUSE: T8A / 250V
POWER IN AC100-240V 50/60Hz
POWER OUT MAX:100-240V 4A
Fuse
Power In/Out
Net Out/In
DMX Out /In

COLORS AND GOBOS

ROTATING GOBO WHEEL

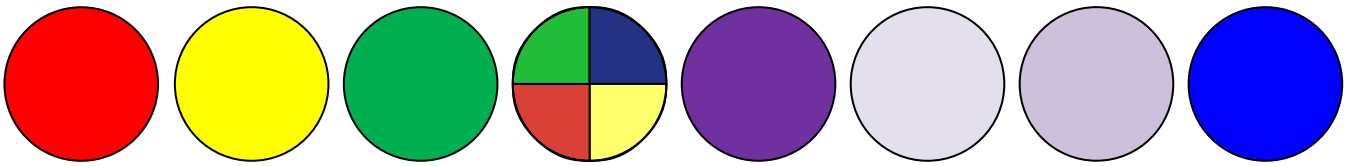


POS 1 POS 2 POS 3 POS 4 POS 5 POS 6 POS 7

FIXED GOBO WHEEL

POS 1 POS 2 POS 3 POS 4 POS 5 POS 6 POS 7 POS 8 POS 9 POS 10 POS 11

COLOR WHEEL



POS 1 RED

POS 2 YELLOW

POS 3 GREEN

POS 4 QUAD COLOR

POS 5 UV

POS 6 HIGH CRI 80

POS 7 HIGH CRI 90

POS 8 BLUE

PRISM

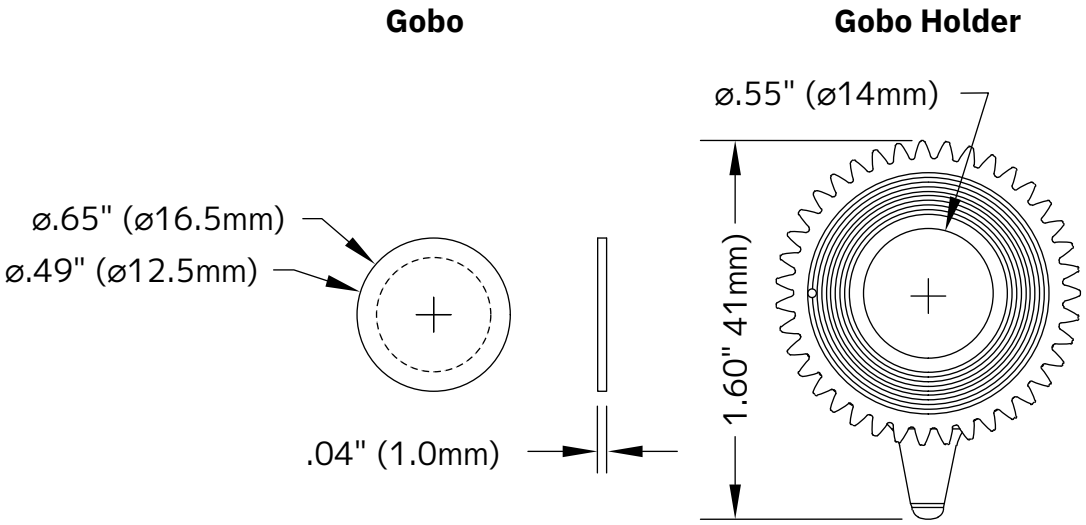
POS 1 6 FACET ROUND

POS 2 6 FACET LINEAR

CUSTOM GOBOS: ROTATING GOBO WHEEL1

FUZE PFX ROTATING GLASS GOBOS - WHEEL 1 ONLY	
Gobo O.D. (Max. Outer Diameter)	ø16.5mm
Gobo I.D. (Max. Image Diameter)	ø12.5mm
Gobo Holder Diameter	ø16.6mm
Gobo Material	Borofloat Glass

ROTATING GOBO WHEEL GOBO & HOLDER



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

Due to the high temperature optical system, special material as listed above 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 ELATION SERVICE for further information.

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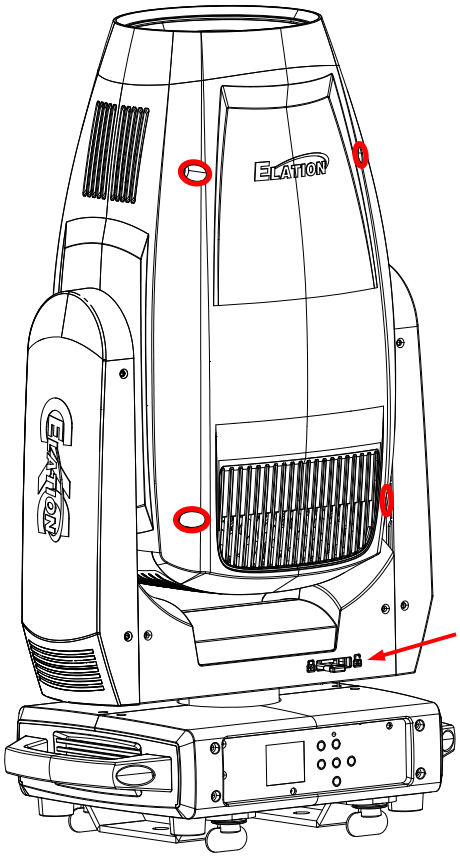
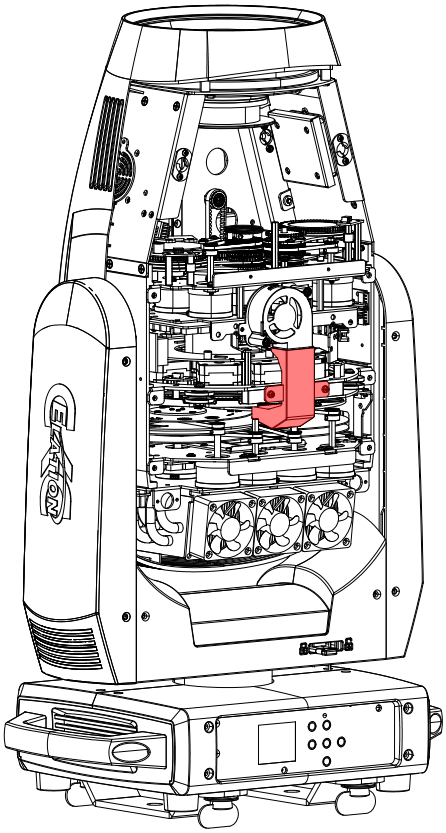
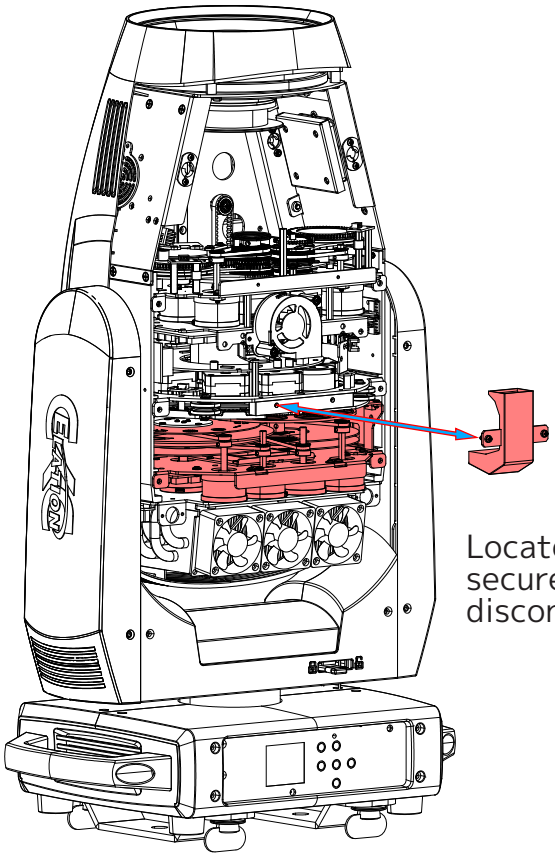
GOBO INSTALLATION



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

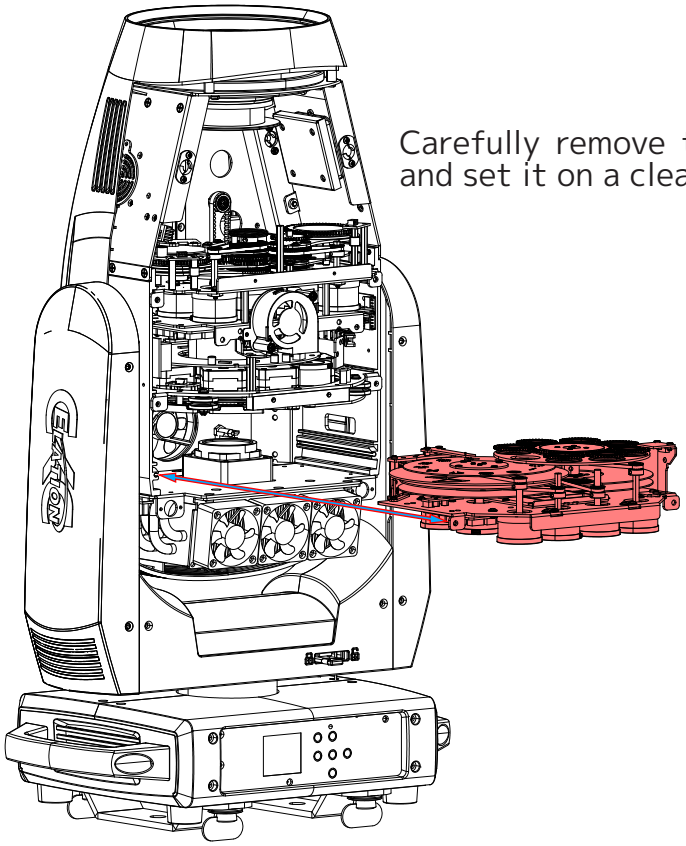


Locate the Fan Ducting, remove the 2x screws that secure it to the internal housing frame..

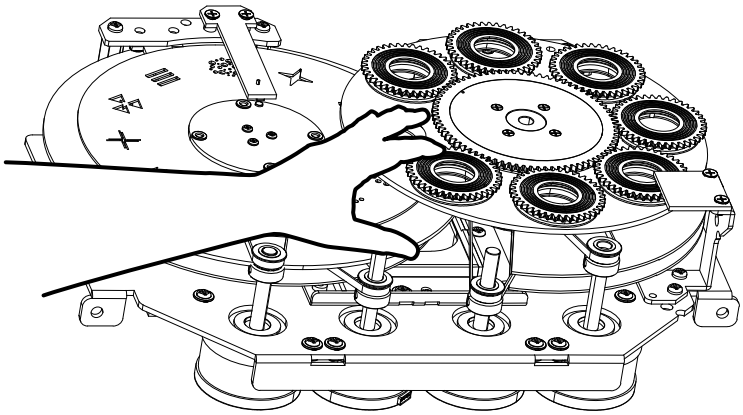


Locate the Gobo Module, remove the screws that secure it to the internal housing frame, and unplug/ disconnect wire harness.

GOBO INSTALLATION



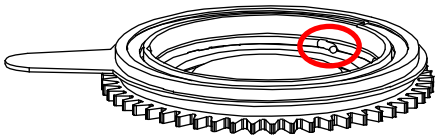
Carefully remove the Gobo Module and set it on a clean surface.

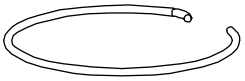


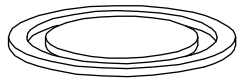
Locate the specific Rotating Gobo to replace. Carefully grip the Gobo using your thumb and index finger, gently lift it slightly, and then pull it out and away until it fully clears the Gobo Wheel.

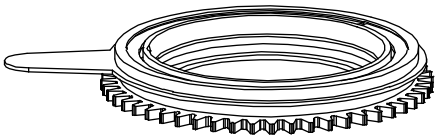
CAUTION: TAKE CARE NOT TO SCRATCH GOBO OR GOBO HOLDER

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 GUIDELINES

FLAMMABLE MATERIAL WARNING
Keep fixture minimum 5.0 feet (1.5m) away from flammable materials and/or pyrotechnics.

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

USE CAUTION WHEN POWER LINKING OTHER MODEL FIXTURES AS THE POWER CONSUMPTION OF OTHER MODEL FIXTURES MAY EXCEED THE MAX POWER OUTPUT ON THIS FIXTURE. MAX 8A POWER LINK.

MINIMUM DISTANCE TO OBJECTS/SURFACES
MUST BE 1 FOOT (0.3 METERS)

MINIMUM DISTANCE OF INFLAMMABLE MATERIALS
FROM THE SURFACE IS 1.6 FEET (0.5 METER)

MAXIMUM AMBIENT TEMPERATURE 113° F (45°C)

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.

Before rigging/mounting a single fixture or multiple fixtures 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.

Overhead rigging requires extensive experience, including amongst others calculating working load limits, understanding of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas were unauthorized personnel might reach the fixture by hand.

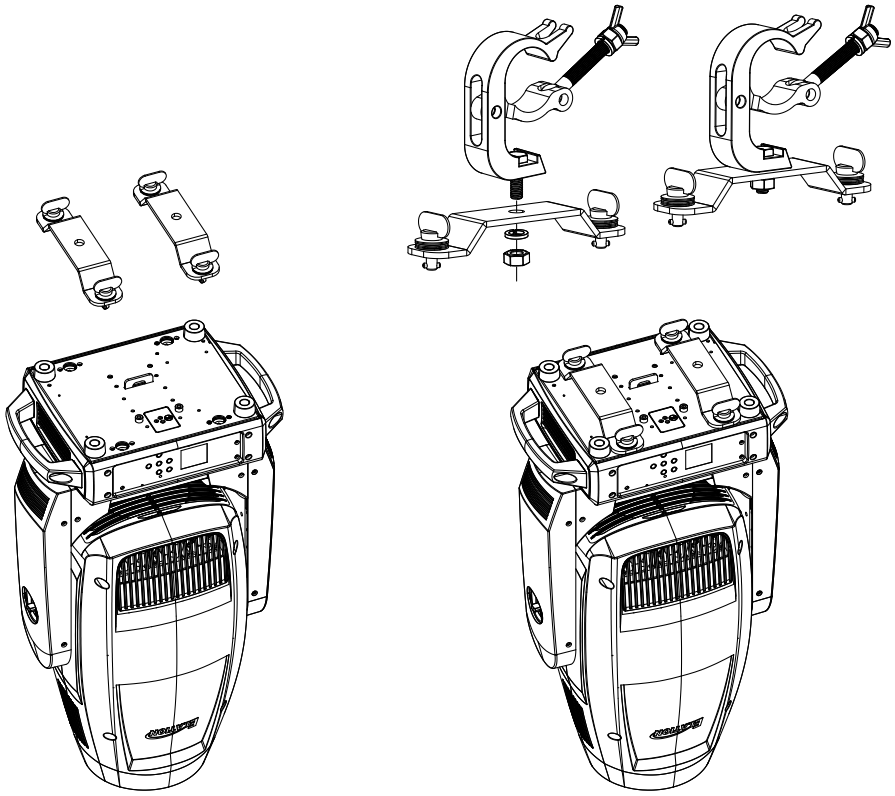
NEVER stand directly below the fixture(s) when rigging, removing or servicing.
Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

Allow approximately 15 minutes for the fixture to cool down before servicing.

INSTALLATION GUIDELINES

OMEGA BRACKETS INSTALLATION

Insert the Omega Brackets into the matching holes on the bottom of the fixture. Secure the Omega Brackets to the fixture by turning each quick-lock fastener ¼ turn clockwise; making sure the fastener is completely locked. Omega Brackets can be installed into the fixture base as illustrated below.



SAFETY CABLE

ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE FIXTURE WILL NOT DROP IF MOUNTING / RIGGING HARDWARE FAILS

CLAMP INSTALLATION (NOT INCLUDED)

When mounting fixture to truss, be sure to secure an appropriately rated professional grade rigging clamp to the included **Omega Brackets** using an M10 screw fitted through the center hole of the **Omega Brackets**. The fixture provides a built-in rigging point for a **SAFETY CABLE**. Be sure to only use one of the designated rigging points for the safety cable and never secure a safety cable to the Pendant or Yoke Brackets.

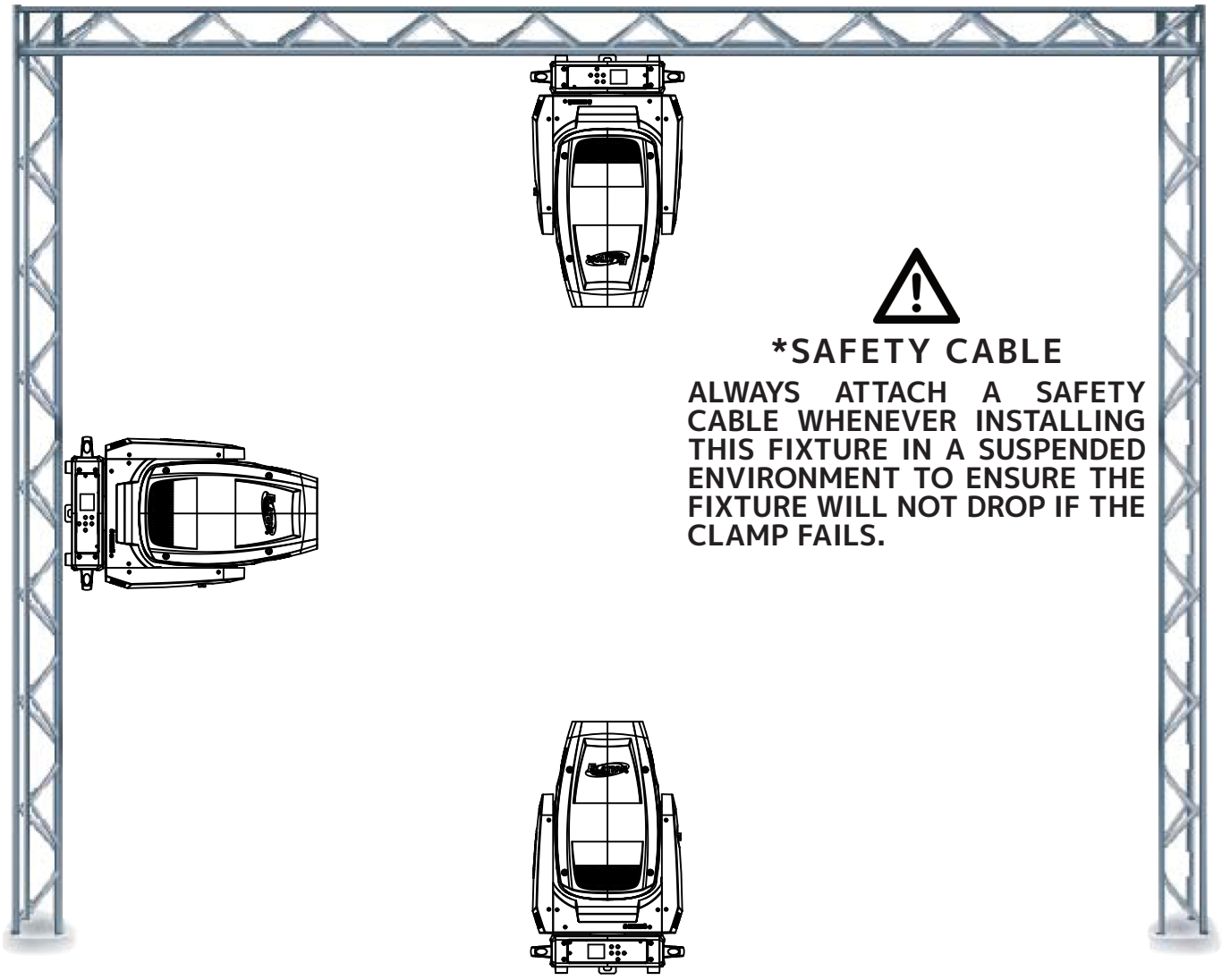
RIGGING

Overhead rigging requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury. Fixture is fully operational in the specific mounting positions illustrated below.

INSTALLATION GUIDELINES

RIGGING

The Fuze PFX is fully operational in (3) different mounting positions, hanging upside-down, mounted sideways on trussing, or set on a flat level surface. Overhead rigging requires extensive experience, including among others calculating working load limits, installation material being used, and periodic safety inspection of all installation.material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.



***SAFETY CABLE**

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

CAUTION: 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 an appropriate **SAFETY CABLE** whenever installing this fixture in a suspended environment to ensure fixture will not fall if mounting / rigging hardware fails.

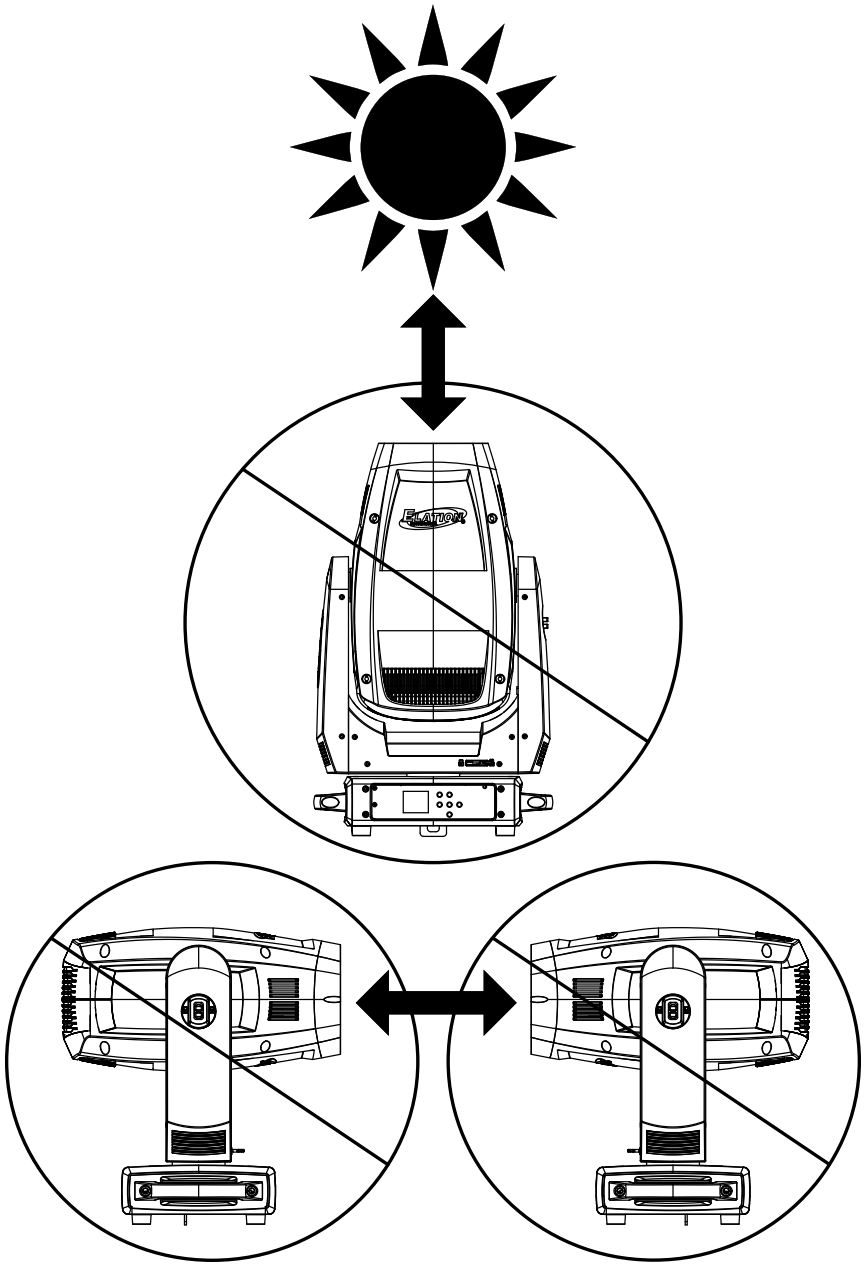
INSTALLATION GUIDELINES

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, lighting moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of ELATION 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 to ELATION 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 ELATION 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.

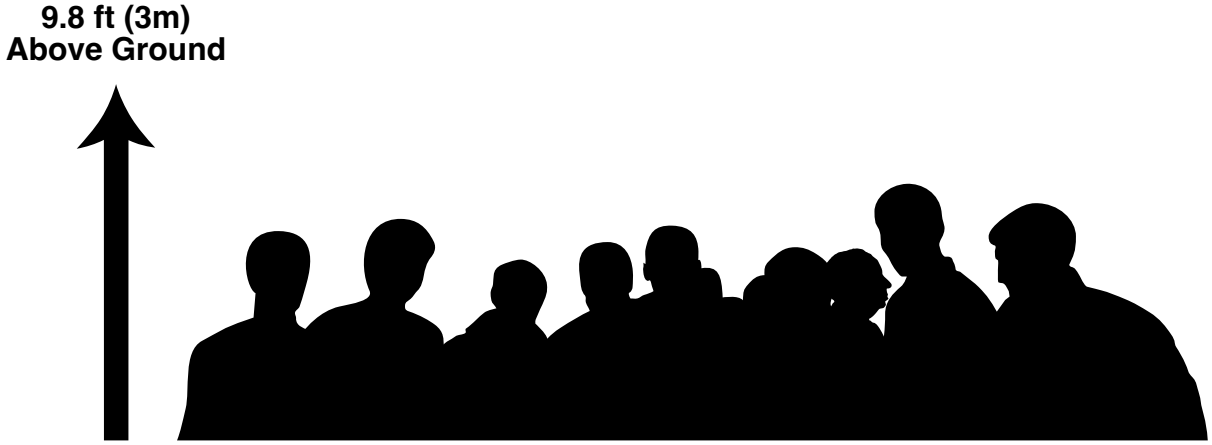
In summary, if an application demands high data rates and more bandwidth in urban or densely populated areas where interference management is feasible, the 2.4 GHz frequency is a suitable choice. On the other hand, for applications requiring long-range communication and better obstacle penetration, particularly 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 Bluetooth app has the ability to connect wirelessly to any device that has Aria wireless DMX installed and has Bluetooth enabled.

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

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

LEGACY DEVICES

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

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

FIXTURE IDENTIFICATION

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

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

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

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

ARIA SETUP GUIDELINES

DETECTED DEVICES

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

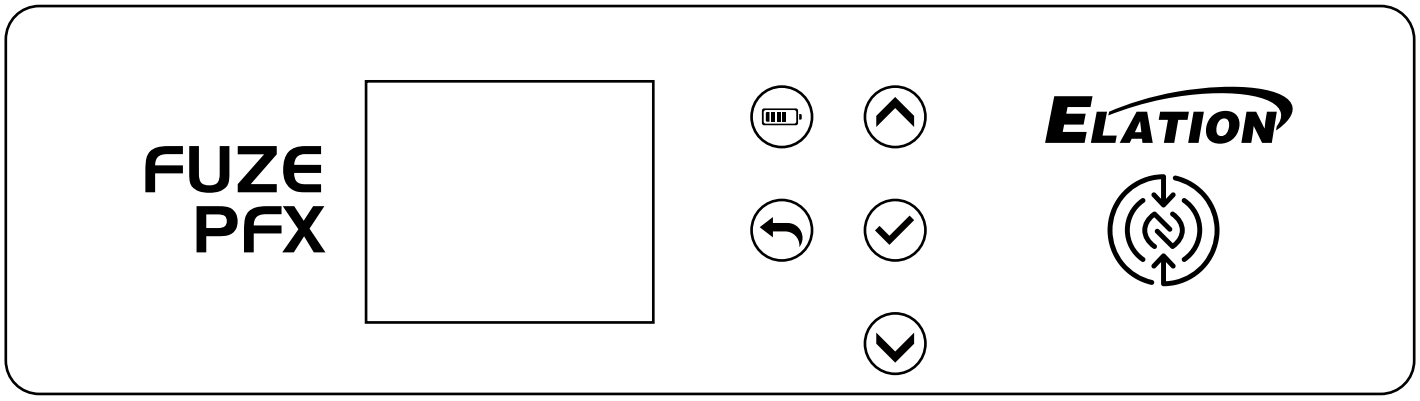
Each fixture must have a password saved to be secure. When a new fixture is installed for the first time, its password will automatically be set to the app’s system password on first connection. Once the password has been entered, the user will need to exit out to the main page containing the fixture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

The fixture includes an easy to navigate system menu. The LCD touch panel display located on the front of the fixture (see image below), provides access to the main system menu and is where all necessary system adjustments are made to the fixture. During normal operation, pressing the **ENTER (Check Mark)** button once will access the fixture's main menu. Once in the main menu you can navigate through the different functions and access the sub-menus with the **UP** and **DOWN** buttons. Once you reach a field that requires adjusting, press the **ENTER** button to activate that field and use the **UP** and **DOWN** buttons to adjust the field. Pressing the **ENTER** button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by pressing the **ESC (Back)** button.

To access the LCD Menu Control Display via the internal battery, press and hold the **BATTERY ICON** button for 3 seconds. The LCD Menu Control Display will shut **OFF** automatically about 1 minute from the last button press.



Note: An Elation C-Loader II can be used to update fixture software. Contact Elation Service for more information @ 323-582-3322 | support@elationlighting.com

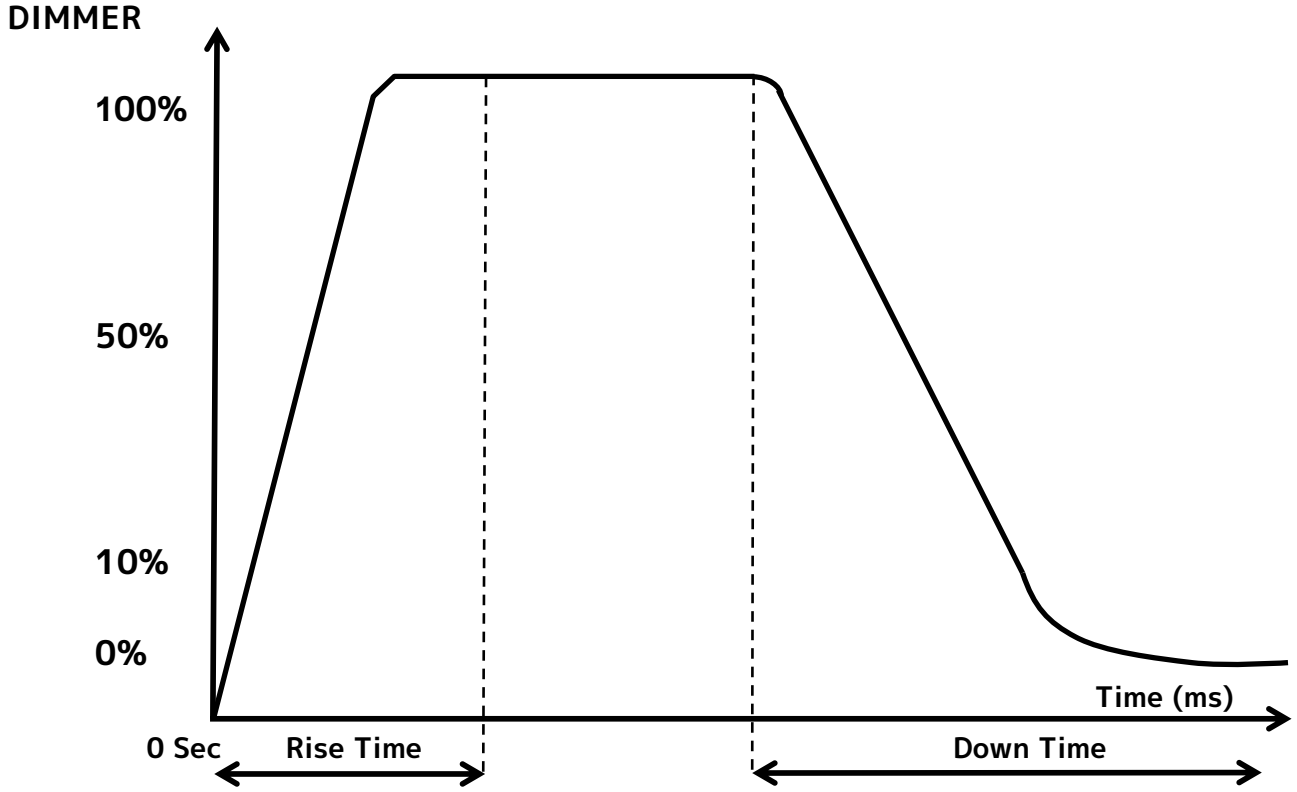
SYSTEM MENU

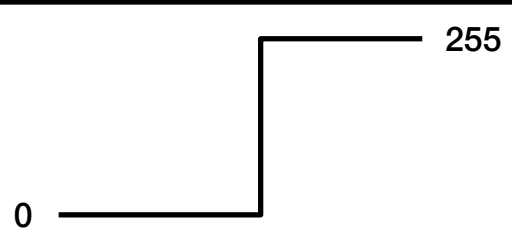
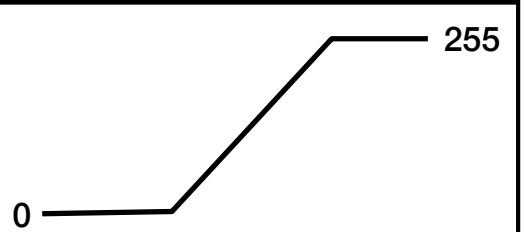
MAIN MENU	SUB MENU	OPTIONS / VALUES (Default Settings in **BOLD**)	
DMX	DMX Address	001 - 512	
	DMX Mode	Standard, **Extended**	
	No DMX Status	**Hold Last**, Fade to Black	
		Hibernation	Off, 1-99M (**Default = 15 Min**)
	Protocol	Select Signal	
		Select Signal	**DMX** / Art-Net / sACN / Aria In-DMX Out / DMX In - Aria Out
		Universe	1
		DHCP	**Off**/On
		IP Address	**Manual：2.x.x.x**
			Unique Static: 2.x.x.x/ 10.x.x.x/ 172.x.x.x/ 192.x.x.x
		Subnet Mask	**255.0.0.0**
		Ethernet DMX Out	**Off**/On
	Aria	Aria Channel	**0**-14
Control	Manual Control	DImmer 0%-**100%**, Pan, Tilt, ...	
	Reset	All, Pan Tilt, Color, Gobo, Shutter, Others	
	Self Test	All, Dimmer, Movement, Color Mix, Gobo, Beam	
Settings	Fan Mode	Mute, Studio, Low, High, **Auto**	
	Movement	Pan Invert	**Off**/On
		Tilt Invert	**Off**/On
		Pan Tilt Speed	Smooth/**Fast**
		Follow Spot	**Off**/On
		Pan Tilt Feedback	Off/**On**
	Dimmer Curve	Linear, Square, Square Inverse, **S-Curve**	
	Dimmer Mode	Standard, Stage, TV, Architectural, Theatre, Stage2	
		Dim Speed	0s-10s
	LED Refresh Rate	900Hz - 1500Hz (**1200Hz**), 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz,15KHz, 20KHz, 25KHz	
	LED Power Limit	50%, 60%, 70%, 80%, 90%, **100%**	
	Display	Screen Delay	10s-5min (**Default=1 min**)
		Screen Lock	**off**, 10s-5minlk
		Auto Rotate	Off/**On**
	Reset Defaults	Yes/No	
Information	Time	Current Time, total Run Time, Last Run Time, LED Time	
	Temperature	Head, Base, LED	
	Fan	Fan xx, ...	
	DMX Values	Pan, Tilt, ...	
	Product IDs	RDM UID	
	Error Logs	Fixture Errors	
	Software Version	Vx.x	
Service (Passcode 50)	Calibration	Dimmer, Pan, Tilt, ...	
	Reset Last Run	Yes/No	
	Reset Error Logs	Yes/No	

Display Shortcuts

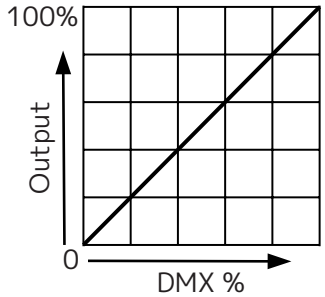
Power On	
Up+Down (3s)	Disable Pan Tilt
Back+Enter (10s)	Countdown 10 sec
	Reset to Default (no/yes)

DIMMER MODE

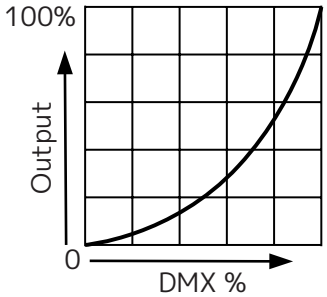


Dimming Curve Ramp Effect	0 sec Fade Time 		1 sec Fade Time 	
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660

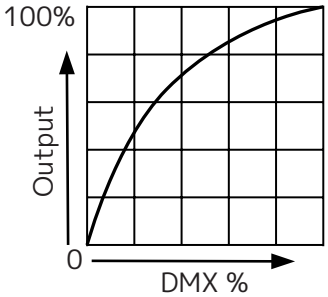
DIMMER CURVE



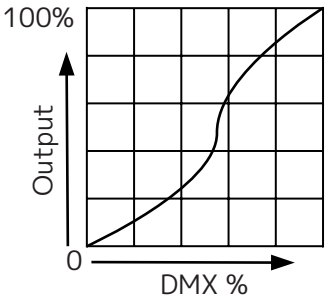
LINEAR



SQUARE



INVERSE SQUARE



S-CURVE

DMX TRAITS

Features subject to change without notice					
MODE/CHANNEL		**VALUE**	**FUNCTION**	**SNAP**	**DEFAULT**
STANDARD	**EXTENDED**				
1	1	0-255	**Pan**		127
			Left → Right		
2	2	0-255	**Pan Fine**		127
			Fine Position		
3	3	0-255	**Tilt**		127
			Forward → Backward		
4	4	0-255	**Tilt Fine**		127
			Fine Position		
5	5	0-255	**Cyan**		0
			0 → 100%		
			SFX		
		0-170	0 → 100%		
		171-189	100% → 0%		
		190-221	Clockwise Fast → Slow		
		222-223	Stop		
		224-255	Counter-clockwise Slow → Fast		
	6	0-255	**Cyan Fine**		0
			Fine Saturation		
6	7	0-255	**Magenta**		0
			0 → 100%		
			SFX		
		0-170	0 → 100%		
		171-189	100% → 0%		
		190-221	Clockwise Fast → Slow		
		222-223	Stop		
		224-255	Counter-clockwise Slow → Fast		
	8	0-255	**Magenta Fine**		0
			Fine Saturation		
7	9	0-255	**Yellow**		0
			0 → 100%		
			SFX		
		0-170	0 → 100%		
		171-189	100% → 0%		
		190-221	Clockwise Fast → Slow		
		222-223	Stop		
		224-255	Counter-clockwise Slow → Fast		
	10	0-255	**Yellow Fine**		0
			Fine Saturation		
8	11		**CTO**		0
			Open → 2700K		
	12		**CTO Fine**		0
			Fine Adjustment		
9	13		**CMY Mix Mode**		0
		0-127	Full		
		128-255	SFX		

DMX TRAITS

MODE/CHANNEL		VALUE	FUNCTION	SNAP	DEFAULT
STANDARD	EXTENDED				
10	14		**Color**		0
		0	Open		
		1-11	Open/Color1		
		12-22	Color 1		
		23-33	Color 1/2		
		34-44	Color 2		
		45-55	Color 2/3		
		56-66	Color 3		
		67-77	Color 3/4		
		78-88	Color 4		
		89-99	Color 4/5		
		100-110	Color 5		
		111-121	Color 5/6		
		122-132	Color 6		
		133-143	Color 6/7		
		144-154	Color 7		
		155-165	Color 7/8		
		166-176	Color 8		
		177-188	Color 8/Open		
		189-192	Open		
			Scroll		
		193-223	Clockwise Fast → Slow		
		224	Stop		
		225-255	Counter-clockwise Slow → Fast		
11	15		**Rotating Gobo Wheel**		0
		0-9	Open		
		10-19	Rotating Gobo 1		
		20-29	Rotating Gobo 2		
		30-39	Rotating Gobo 3		
		40-49	Rotating Gobo 4		
		50-59	Rotating Gobo 5		
		60-69	Rotating Gobo 6		
		70-77	Rotating Gobo 7		
		78-93	Gobo 1 Shake Slow → Fast		
		94-109	Gobo 2 Shake Slow → Fast		
		110-125	Gobo 3 Shake Slow → Fast		
		126-141	Gobo 4 Shake Slow → Fast		
		142-157	Gobo 5 Shake Slow → Fast		
		158-173	Gobo 6 Shake Slow → Fast		
		174-189	Gobo 7 Shake Slow → Fast		
		190-221	Clockwise Fast → Slow		
		222-223	Stop		
		224-255	Counter-clockwise Slow → Fast		
12	16		**Rotating Gobo Index/Rotation**		0
		0-127	Index Position		
			Rotate		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
13	17	0-255	**Rotating Gobo Index/Rotation Fine**		0
			Fine Adjustment		

DMX TRAITS

MODE/CHANNEL		VALUE	FUNCTION	SNAP	DEFAULT
STANDARD	EXTENDED				
14	18		**Fixed Gobo Wheel**		0
		0-9	Open		
		10-17	Gobo 1		
		18-25	Gobo 2		
		26-33	Gobo 3		
		34-41	Gobo 4		
		42-49	Gobo 5		
		50-57	Gobo 6		
		58-65	Gobo 7		
		66-73	Gobo 8		
		74-81	Gobo 9		
		82-89	Gobo 10		
		90-97	Gobo 11		
		98-105	Gobo 1 Shake Slow → Fast		
		106-111	Gobo 2 Shake Slow → Fast		
		112-119	Gobo 3 Shake Slow → Fast		
		120-127	Gobo 4 Shake Slow → Fast		
		128-135	Gobo 5 Shake Slow → Fast		
		136-143	Gobo 6 Shake Slow → Fast		
		144-151	Gobo 7 Shake Slow → Fast		
		152-159	Gobo 8 Shake Slow → Fast		
		160-167	Gobo 9 Shake Slow → Fast		
		168-175	Gobo 10 Shake Slow → Fast		
		176-181	Gobo 11 Shake Slow → Fast		
		182-189	Idle		
			Scroll		
		190-221	Clockwise Fast → Slow		
		222-223	Stop		
		224-255	Counter-clockwise Slow → Fast		
15	19		**Prism**	X	0
		0-20	Open		
		20-40	Prism 1 4-Facet Linear		
		41-60	Prism 2 4-Facet Round		
		61-80	Prism 1+2		
		81-255	Idle		
16	20		**Prism 1 Index/Rotation**		64
		0-127	Index Position		
			Rotate		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
	21	0-255	**Prism 1 Index/Rotation Fine**		127
			Fine Adjustment		
17	22		**Prism 2 Index/Rotation**		64
		0-127	Index Position		
			Rotate		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
		194-255	Counter-clockwise Slow → Fast		
	23	0-255	**Prism 2 Index/Rotation Fine**		127
			Fine Adjustment		

DMX TRAITS

MODE/CHANNEL		VALUE	FUNCTION	SNAP	DEFAULT
STANDARD	EXTENDED				
18	24	0-255	**Focus**		127
			Infinity → Near		
19	25	0-255	**Focus Fine**		127
			Fine Adjustment		
20	26	0-255	**Zoom**		127
			Narrow → Wide		
21	27	0-255	**Zoom Fine**		127
			Fine Adjustment		
22	28		**Strobe**		50
		0-31	Closed		
		32-63	Open		
		64-95	Strobe effect slow to fast		
		96-127	Open		
		128-159	Pulse Effect		
		160-191	Open		
		192-223	Random Slow → Fast		
		224-255	Open		
23	29	0-255	**Dimmer**		0
			0 → 100%		
24	30	0-255	**Dimmer Fine**		0
			Fine Adjustment		
	31		**Dimmer Modes**	X	0
		0-20	Standard		
		21-40	Stage		
		41-60	TV		
		61-80	Architectural		
		81-100	Theatre		
		101-120	Stage 2		
			Dimmer Time		
		121	0s		
		122	0.1s		
		123	0.2s		
		124	0.3s		
		125	0.4s		
		126	0.5s		
		127	0.6s		
		128	0.7s		
		129	0.8s		
		130	0.9s		
		131	1.0s		
		132	1.5s		
		133	2.0s		
		134	3.0s		
		135	4.0s		
		136	5.0s		
		137	6.0s		
		138	7.0s		
		139	8.0s		
		140	9.0s		
		141	10s		
		142-255	Idle		

DMX TRAITS

MODE/CHANNEL		VALUE	FUNCTION	SNAP	DEFAULT
STANDARD	EXTENDED				
25	32		**Iris**		0
		0-191	Open → Closed		
		192-223	Pulse opening fast to slow		
		224-255	Pulse closing slow to fast		
	33	0 – 255	**Iris Fine**		0
			Fine Adjustment		
26	34	0 – 255	**Frost (Light)**		0
			Open → Max		
27	35	0 – 255	**Frost (Wash)**		0
			Open → Max		
28	36	0-255	**Blade 1 A**		0
			Open → Closed		
	37	0-255	**Blade 1 A Fine**		0
			Fine Adjustment		
29	38	0-255	**Blade 1 B**		0
			Open → Closed		
	39	0-255	**Blade 1 B Fine**		0
			Fine Adjustment		
30	40	0-255	**Blade 2 A**		0
			Open → Closed		
	41	0-255	**Blade 2 A Fine**		0
			Fine Adjustment		
31	42	0-255	**Blade 2 B**		0
			Open → Closed		
	43	0-255	**Blade 2 B Fine**		0
			Fine Adjustment		
32	44	0-255	**Blade 3 A**		0
			Open → Closed		
	45	0-255	**Blade 3 A Fine**		0
			Fine Adjustment		
33	46	0-255	**Blade 3 B**		0
			Open → Closed		
	47	0-255	**Blade 3 B Fine**		0
			Fine Adjustment		
34	48	0-255	**Blade 4 A**		0
			Open → Closed		
	49	0-255	**Blade 4 A Fine**		0
			Fine Adjustment		
35	50	0-255	**Blade 4 B**		0
			Open → Closed		
	51	0-255	**Blade 4 B Fine**		0
			Fine Adjustment		
36	52		**Framing Rotation**		127
		0-126	Min (-60°)		
		127-128	Parallel (0°)		
		129-255	Max (+60°)		
	53	0-255	**Framing Rotation Fine**		127
			Fine Adjustment		
37	54		**Pan / Tilt Speed**	X	0
		0-225	Max → Min Speed		
		226-235	Blackout by movement		
		236-245	Blackout by wheel changes		
		246-255	No function		

DMX TRAITS

MODE/CHANNEL		VALUE	FUNCTION	SNAP	DEFAULT
STANDARD	EXTENDED				
38	55		**Control**		0
		0-19	Wheel Snap		
		20-39	Wheel Fade		
			Fan Mode		
		40-44	Mute		
		45-49	Studio		
		50-59	Low		
		60-69	High		
		70-79	Auto		
			Reset		
		80-84	All		
		85-87	Pan / Tilt		
		88-90	Color		
		91-93	Gobo		
		94-96	Focus and Zoom		
		97-99	Others		
		100-168	Refresh Rate (Hz) See Table on page 26		
		169-174	**CMY Shortest Path**		
		175-179	CMY Longest Path		
		180-200	Idle		
			Dimmer Curves		
		201-210	Linear		
		211-220	Square		
		221-230	Inverse Square		
		231-240	**S-Curve**		
		241-255	Idle		

REFRESH RATE

DMX VALUE	REFRESH RATE (HZ)	DMX VALUE	REFRESH RATE (HZ)
100	900	135	1250
101	910	136	1260
102	920	137	1270
103	930	138	1280
104	940	139	1290
105	950	140	1300
106	960	141	1310
107	970	142	1320
108	980	143	1330
109	990	144	1340
110	1000	145	1350
111	1010	146	1360
112	1020	147	1370
113	1030	148	1380
114	1040	149	1390
115	1050	150	1400
116	1060	151	1410
117	1070	152	1420
118	1080	153	1430
119	1090	154	1440
120	1100	155	1450
121	1110	156	1460
122	1120	157	1470
123	1130	158	1480
124	1140	159	1490
125	1150	160	1500
126	1160	161	2500
127	1170	162	4000
128	1180	163	5000
129	1190	164	6000
130	**1200**	165	10000
131	1210	166	15000
132	1220	167	20000
133	1230	168	25000
134	1240		

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 device to be managed, modified, and monitored remotely (hence, remote device management). This protocol is ideal for fixtures installed in locations that are 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 it's 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
22A6	58 0000-FFFF	0058	Standard (1) Extended (2)

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.

The following parameters are accessible in RDM on this device:

[0x0011] Proxied Device Count	[0x0601] Tilt Invert
[0x0200] Sensor Definition	[0x0602] Pan Tilt Swap
[0x0201] Sensor Value	[0x0500] Display Invert
[0x0080] Device Model Description	[0x0501] Display Level
[0x0081] Manufacturer Label	[0x0603] Realtime Clock
[0x0082] Device Label	[0x1010] Power State
[0x00E0] DMX Personality	[0x1031] Preset Playback
[0x00E1] DMX Personality Description	[0x0122] Default Slot Value
[0x0400] Device Hours	[0x00B0] Language
[0x0015] Comms Status	[0x00A0] Language Capabilities
[0x0031] Status ID Description	[0x00C2] Boot Software Version Label
[0x0032] Clear Status ID	[0x00C1] Boot Software Version ID
[0x0405] Device Power Cycles	[0x0070] Product Detail ID List
[0x0600] Pan Invert	[0x0030] Status Messages

MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Frequent cleaning is recommended to insure 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 at least every 20 days with a soft cloth to avoid dirt/debris accumulation.
NEVER use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

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

Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.
- 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).
- 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	
CyanWheel	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).
MagentaWheel	
YellowWheel	
CTOWheel	
ColorWheel	
RotGoboWheel	
GoboRot	
FixGoboWheel	
Prism1	
Prism1Rot	
Prism2	
Prism2Rot	
Zoom	
Focus	
Blade	
LED Temp	These messages will appear if there is a temperature and/or fan malfunction.
Base Temp	
LED Fan1	
LED Fan2	
LED Fan3	
LED Fan4	
LED Fan5	
LED Fan6	
Head Fan1	
Head Fan2	
Gobo Fan	
Blade Fan	
Base Fan	

SPECIFICATIONS

SOURCE
400W 6,600K Bright White LED Engine
20,000 Hour Average LED Life*
*Test lab conditions. 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
15000 Total Lumen Output
CRI 72 (Filter CRI 80, CRI 90)
Zoom Range 3° - 53°

EFFECTS
Motorized Zoom
4 Rotating Full Blackout Framing Blades
+/- 60° Framing Index
2 Variable Frost Filters (Light and Wash)
Dual Independent Prisms (6 Facet linear & 6 Facet round)
Motorized Iris
Variable 16-bit Dimming Curves
High Speed Electronic Shutter and Strobe
Pan Angle: 540°
Tilt Angle: 270°

COLOR
CMY Color Mixing
Linear CTO Color Correction
7 Dichroic Colors including UV Filter
High CRI Filter 80+90

GOBOS
7 Rotating / Indexing Interchangeable Glass Gobos
11 Static Metal Gobos

CONTROL / CONNECTIONS
DMX Channels
16-bit Pan, Tilt, and Dimming Control
DMX Adjustable LED Frequency
RDM (Remote Device Management)
Aria x2 Wireless Device Management
4 Button Touch Control Panel
Full Color 180° Reversible LCD Menu Display
Locking 5pin XLR Connector In/Out
IP65 Locking Power Connector In/Out

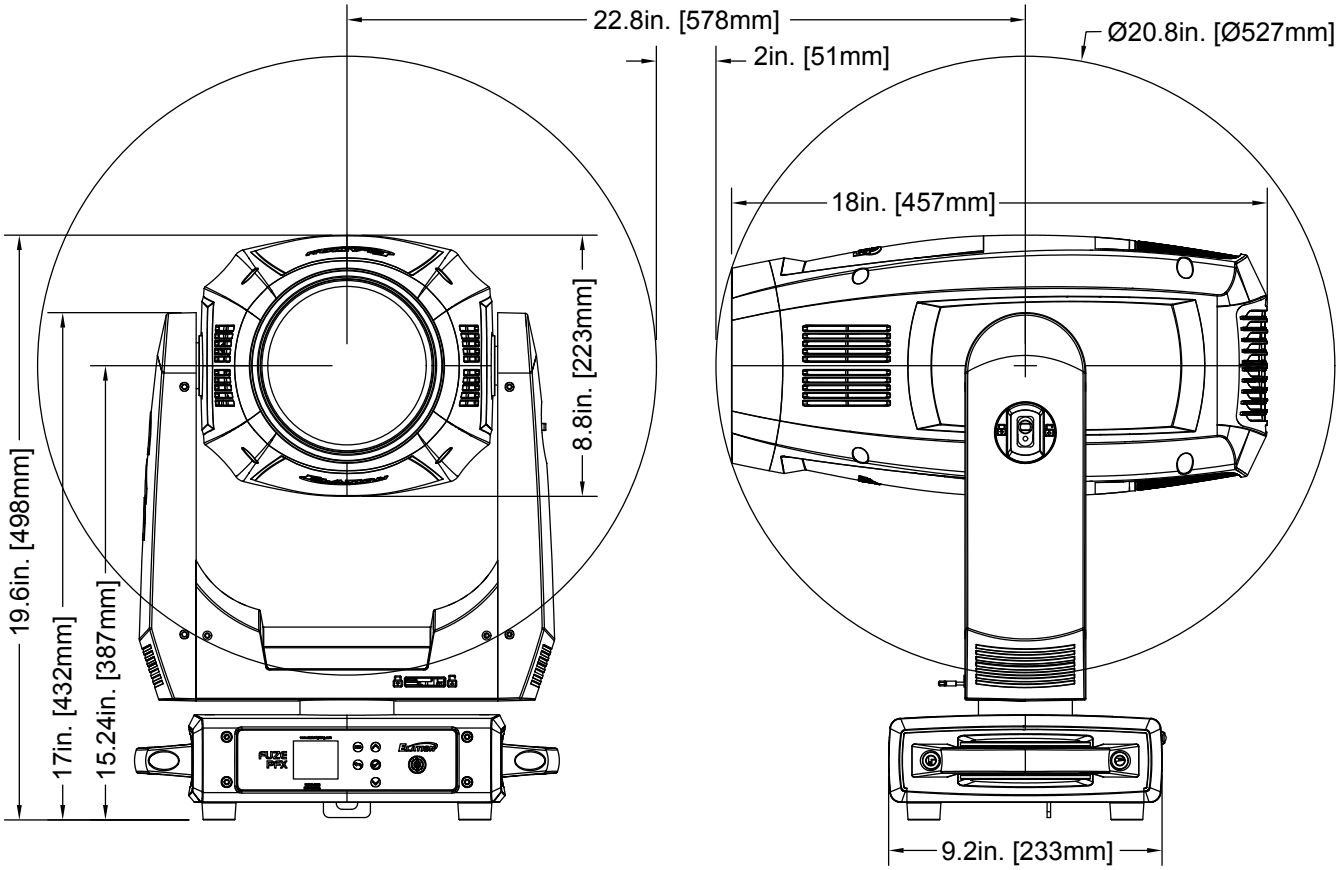
SIZE / WEIGHT
Length: 14.3” (362mm)
Width: 9.2” (233mm)
Vertical Height: 25.14” (637mm)
Weight: 50 lbs. (22.7kg)

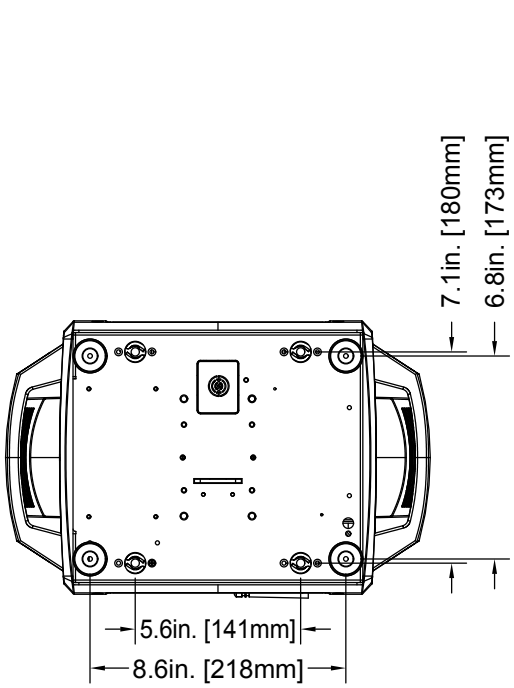
ELECTRICAL / THERMAL
AC 100-240V - 50/60Hz
600W Max Power Consumption
14°F to 113°F (-10°C to 45°C)
BTU/hr (+/- 10%) 2047

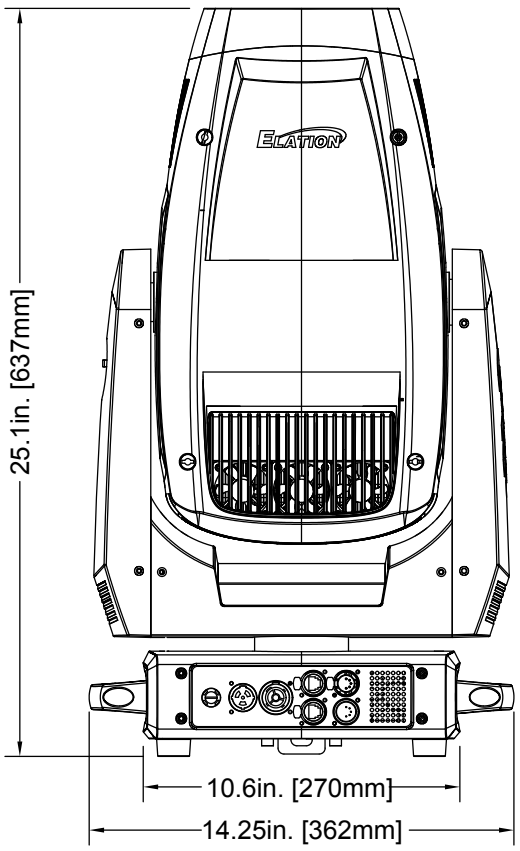
APPROVALS / RATINGS
CE | cETLus | FCC | UKCA | IP20

DIMENSIONS

*Drawings not to scale. Specifications and improvements in the design of this unit and this manual are subject to change without notice.







OPTIONAL ACCESSORIES

ORDER CODE	ITEM
TRIGGER CLAMP	Heavy Duty Wrap Around Hook Style Clamp
SIP126	5 ft. (1.5m) IP65 Twist Lock Power Link Cable
TOU027	5 ft. (1.5m) 5pin PRO DMX Cable
	Additional Cable Lengths Available

FCC STATEMENT

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

FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

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

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