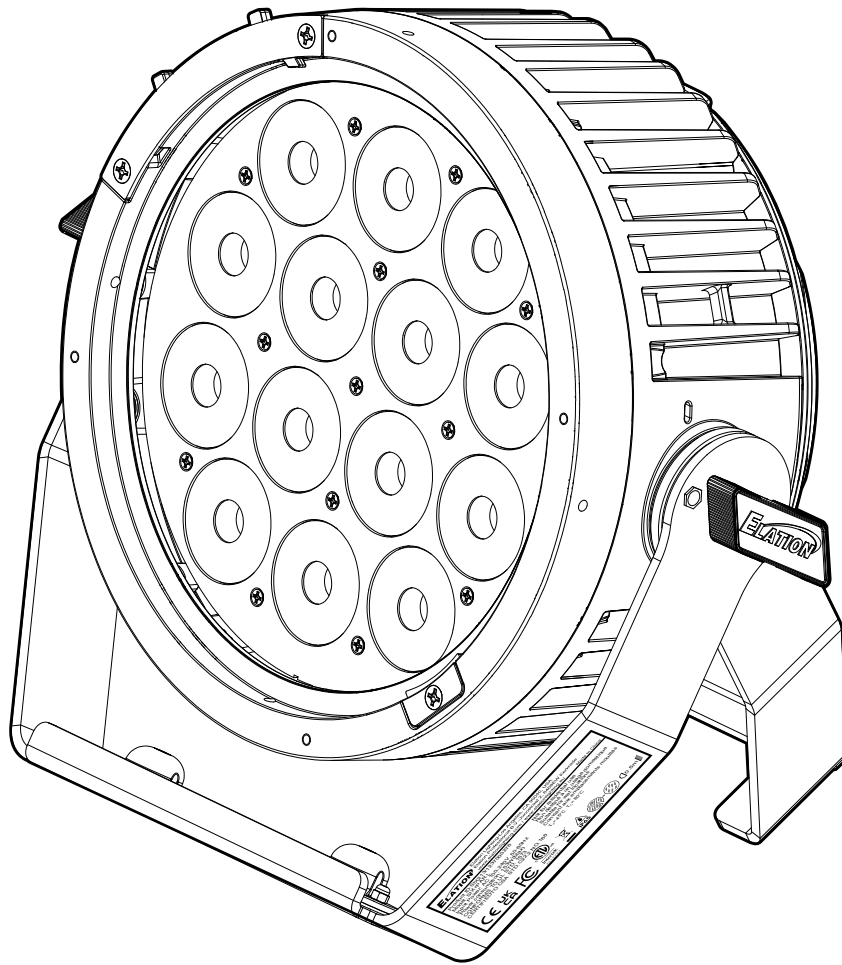


ELATION®



SIX+ PAR L 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 Mode	Notes
10/24/23	1.0	1.01	1/3/9/6/9/11/14/14/20	Initial Release
01/02/24	1.1	1.02	No Change	Updated System Menu, DMX Traits, Specifications
02/13/24	1.2	N/C	No Change	Updated Specifications, Ordering Information
04/30/24	1.3	N/C	No Change	Updated System Menu, Specifications
09/12/24	1.4	N/C	No Change	Updated Specifications, Ordering Info
10/08/24	1.5	N/C	No Change	Updated Installation, Box Contents
03/04/25	1.6	1.04	No Change	Updated System Menu, Torque Settings for Screws, Accessory Installation, Ordering Information, Specifications
03/14/25	1.7	N/C	No Change	Updated Specifications
04/17/25	1.8	N/C	No Change	Updated IP65 Rated, Installation Guidelines, Safety Guidelines, System Menu
06/09/25	1.9	N/C	No Change	Updated System Menu & DMX Traits

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GENERAL INFORMATION

INTRODUCTION

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

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. OPS fixtures are not designed for 24/7 operation, and require periodic cooling intervals, especially in high temperature environments. Please refer to the **Duty Cycle and Thermal Management** section for detailed information.

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

Lenses: 22°
Safety Cable
Power Cable (x1)

CUSTOMER SUPPORT

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

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

ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
+31 45 546 85 63 | 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

IP65 RATED

The International Protection (IP) rating system is commonly expressed as “IP” (Ingress Protection) followed by two numbers (i.e. IP65), where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture, and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. An **IP65** rated lighting fixture is designed and tested to protect against the ingress of dust (**6**), and low-pressure water jets from any direction (**5**).

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

Maritime installations require additional preparation, and additional service intervals may be needed given the maritime use. In general, IP ratings presuppose freshwater conditions VS maritime conditions, which are typically more “caustic” to IP fixtures (both internally and externally). A duty-cycle may also be needed when units are not in use. During times of high humidity and colder temperatures, condensation may occur internally so the fixture may require a duty-cycle to bring it up to running temperature, allowing any accumulation of moisture to be expelled via the vent valve. Recommendations can change based on installation environmental circumstances.

NOTE: NOT ALL FEATURES LISTED ARE AVAILABLE ON ALL FIXTURES; THE FOLLOWING INSTRUCTIONS MAY NOT APPLY. CONTACT SUPPORT FOR ADDITIONAL DETAILS.

Exterior Maintenance: Inspect the exterior every 30-days. The unit must be powered off/disconnected. The chassis should be inspected for any signs of contaminants. Inspect optics to determine if the lens is obstructed, then clean optics and chassis accordingly. Based on initial finding, schedule maintenance accordingly, keeping in mind that exterior maintenance will be required. Even if the luminaires are NOT in use, maintenance will still be needed given its location (exterior use). The use of a durable type of wax on the chassis is recommended since it will help prevent contaminant build up. Inspect both power and data lines for any signs of contaminants or corrosion. Periodically reapplying di-electric grease, especially in coastal environments. If any signs of corrosion/contaminants are present, clean thoroughly, and/or replace connectors, then reapply di-electric grease. Typically, this should be done annually, or any time an opportunity presents itself. As a preventive measure, annual replacement of both vent valves is recommended. The vent valve membrane can become contaminated and/or clogged causing improper venting of humidity within the luminaire. Inspect all mounting hardware as a precaution.

Interior Maintenance: Inspect the interior every 30-days. The unit must be powered off/disconnected.

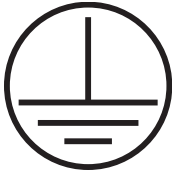
- Inspect zoom/focus mechanism, clean optics, lubricate linear bearings (Krytox oil) as needed, inspect belts for wear
- Inspect all rotating effect wheels, manually rotate them, note any resistance
- Inspect all remaining rotating belts for any wear
- Inspect all fans, clean as needed, check rotation, check connections
- Inspect CMY module, manually move flags and check for signs of resistance, and if needed, clean guide rods first, then reapply a thin layer of grease (moly lube)
- Clean interior with low-volume compressed air, then clean optics prior to reassembly of head covers

Although the base has limited moving parts, the pan belt should also be inspected for wear. Remember to always perform an IP test anytime a cover is removed.

There is no specific time frame regarding the routine replacement of parts such as belts/stepper motors, PCBs, or LEDs. These items should only be replaced on an as needed bases, except for cooling fans, which should be replaced once the luminaries reach 10,000-hours. This is a prophylactic measure intended to keep the unit running as cool as possible, insuring proper function of all internal components. A complete service breakdown is available, please contact service@elationlighting.com for any needed parts or manuals.

SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee 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 parts included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.



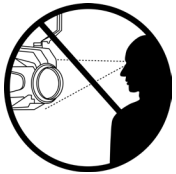
PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.



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



**DO NOT PLUG THIS UNIT INTO A DIMMER PACK
DO NOT REMOVE THE COVER UNDER ANY CONDITIONS
NEVER OPERATE THIS UNIT WITH THE CASING REMOVED
UNPLUG FROM POWER DURING LONG PERIODS OF NON-USE
DISCONNECT POWER BEFORE PERFORMING MAINTENANCE**



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



**FIXTURE SHOULD BE PLACED A MINIMUM OF 1.0 FOOT (0.3 METERS) FROM ANY NEARLY OBJECTS OR SURFACES.
FIXTURE SHOULD BE PLACED A MINIMUM OF 1.6 FEET (0.5 METERS) FROM ANY FLAMMABLE MATERIALS.
MAXIMUM AMBIENT OPERATING TEMPERATURE IS 113°F (45°C)**

SAFETY GUIDELINES

CAUTION

HIGH INTENSITY ULTRAVIOLET LIGHT



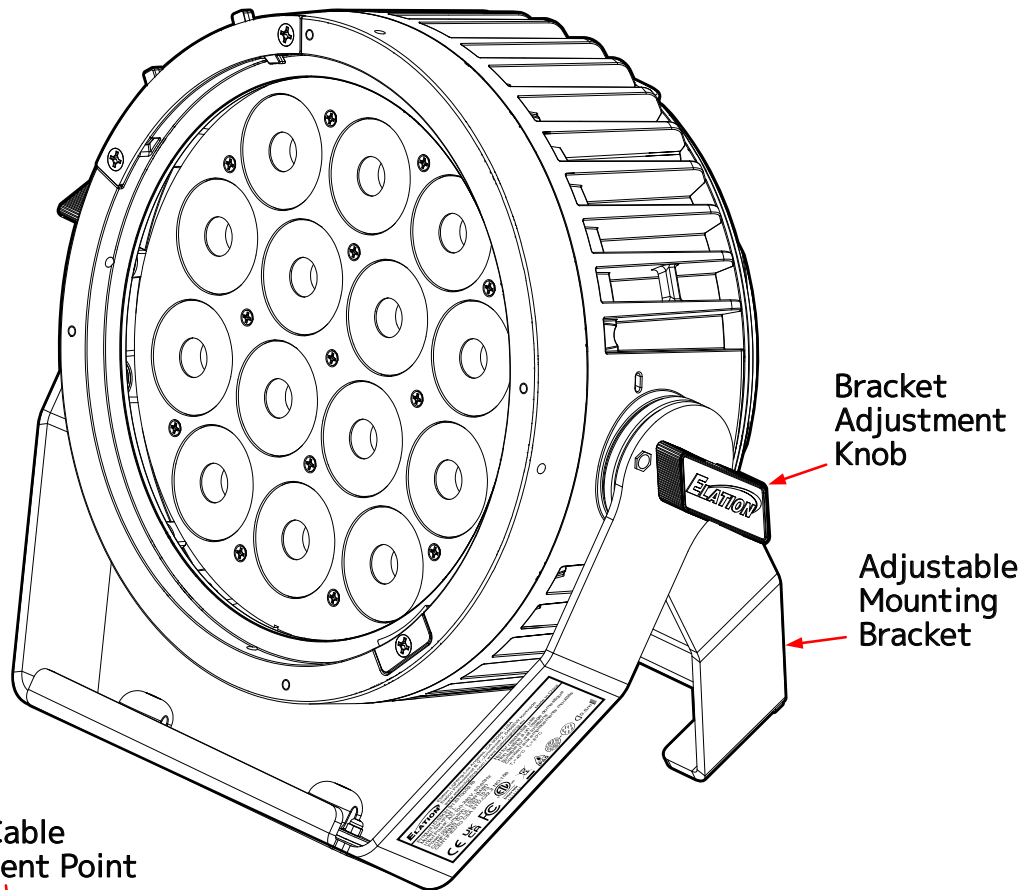
AVOID DIRECT EYE & SKIN EXPOSURE.
WEAR PROPER EYE & SKIN PROTECTION.
SEE MANUAL FOR SAFETY INSTRUCTIONS.

RISK GROUP 3 - RISK OF EXPOSURE TO ULTRAVIOLET UV RADIATION! FIXTURE EMITS HIGH INTENSITY WAVELENGTH OF ULTRAVIOLET UV LIGHT FROM THE UV COLOR FILTER. WEAR PROPER EYE AND SKIN PROTECTION. AVOID PROLONGED PERIODS OF EXPOSURE TO UV COLOR FILTER. AVOID WEARING WHITE COLOR CLOTHING AND/OR USING UV PAINTS ON SKIN. AVOID DIRECT EYE AND/OR SKIN EXPOSURE AT DISTANCES LESS THAN 10 feet (3m). DO NOT OPERATE FIXTURE WITH DAMAGED/MISSING EXTERNAL COVERS. DO NOT LOOK DIRECTLY INTO THE UV LIGHT AND/OR VIEW UV LIGHT DIRECTLY WITH OPTICAL INSTRUMENTS THAT MAY CONCENTRATE THE LIGHT/RADIATION OUTPUT. INDIVIDUALS SUFFERING FROM A RANGE OF EYE

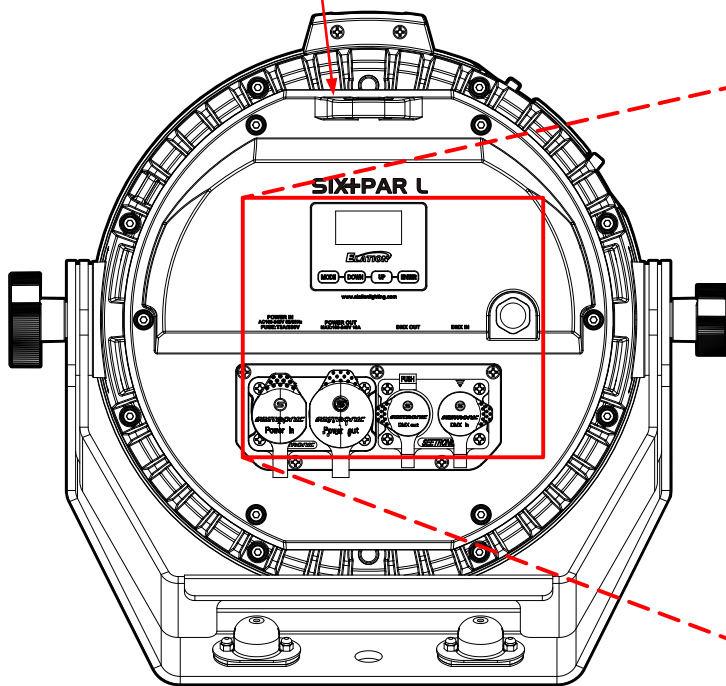
CONDITIONS, SUNLIGHT EXPOSURE DISORDERS, OR INDIVIDUALS USING PHOTSENSITIVE MEDICATION, MAY RECEIVE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET UV LIGHT EMITTED FROM THE UV LED.

- **DO NOT TOUCH** the fixture housing during operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before serving.
- **DO NOT** shake fixture, 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 and do not insert 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.
- Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.
- Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.
- 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 lamp and will decrease gradually over time.
- Consistent operational breaks will ensure the fixture will function properly for many years.
- **ONLY** use the original packaging and materials to transport the fixture in for service.
- Deep scratches on powder-coated metal can compromise the protective layer, exposing the underlying metal to environmental elements. Once the coating is damaged, moisture can infiltrate the surface, leading to corrosion. The scratch essentially creates a pathway for water and other corrosive agents to reach the metal, potentially causing rust and degradation over time. Regular inspection and maintenance of powder-coated surfaces are essential to prevent these issues and preserve the integrity of the metal.

OVERVIEW

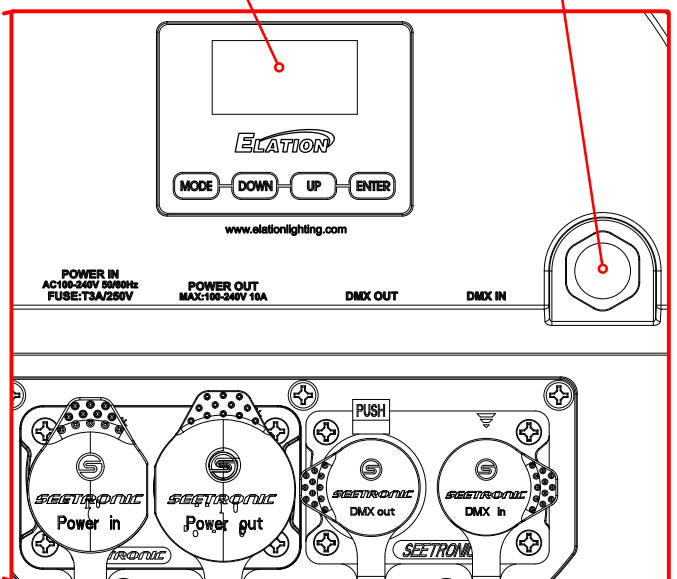


Safety Cable Attachment Point



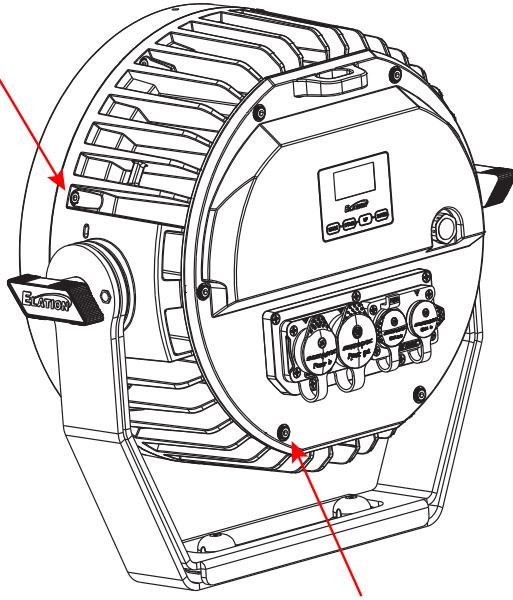
Display Screen

Pressure Valve

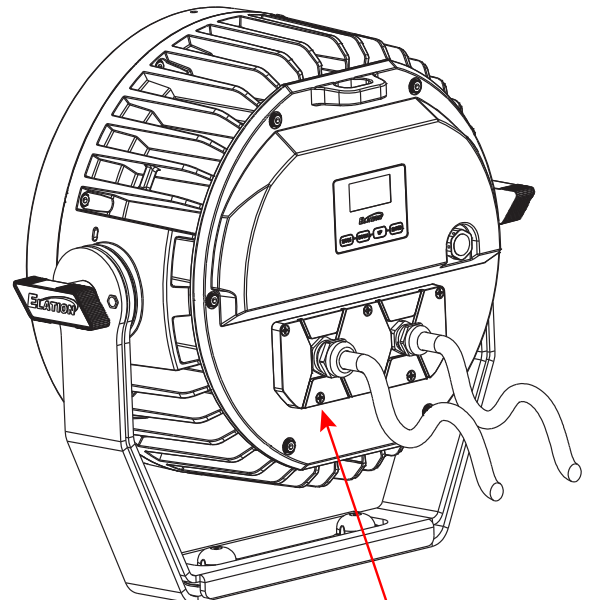


TORQUE SETTINGS FOR SCREWS

Front Cover:
 8.7 ± 0.4 Lb-in
(10.0 ± 0.5 Kg-cm)



Back Cover:
 8.7 ± 0.4 Lb-in
(10.0 ± 0.5 Kg-cm)



Hardwire Plate:
3.1 - 4.0 Lb-in
(3.6 - 4.6 Kg-cm)

Please note: The image above depicts the optional 2-wire hardwire plate, but the same torque values apply to the 4-wire hardwire plate.



**CAUTION! DO NOT OVER TORQUE SCREWS AS THIS CAN CAUSE LEAKAGE ISSUES!
TO CONFIRM THE IP65 INTEGRITY, TEST FIXTURE USING THE ELATION IP TESTER. CONTACT
ELATION SERVICE FOR MORE DETAILS.**

IP TEST PARAMETERS

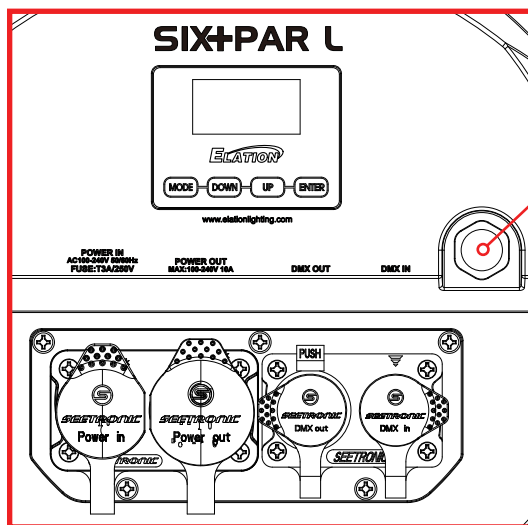
Following any repair or maintenance procedure that requires disassembly of the fixture, use Elation's IP Tester to confirm the IP integrity of the fixture. The air valve is located on the back panel next to the display screen, as shown in the diagram below. Please contact Elation Service for information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



CAUTION! THE USE OF PROTECTIVE GLOVES AND SAFETY GOGGLES IS STRONGLY RECOMMENDED WHILE PERFORMING THE IP PRESSURE TEST! AVOID PLACING YOUR FACE, EYES, HANDS, ETC IN PROXIMITY TO THE LENS OF THE FIXTURE WHILE PERFORMING THE TEST!

DE-HUMIDIFICATION: IP65 fixtures operating in high-humidity environments may experience residual fogging or condensation. Such fogging will not affect the fixture, and can be removed using the following procedure: position the unit with the air valve pointing upwards, then open the air valve and run the unit for 1-2 hours after reaching operating temperature. Then, while the fixture is still hot, re-install the air valve and allow the unit to cool down. Please note: this procedure should be performed in a dry, climate-controlled environment. Avoid additional fogging by drying the fixture completely before placing into a road case.

Elation Product	Minimum Value		Maximum Value		Inflation Time	Balance Time	Inspection Time	Leakage
	Kpa	Psi	Kpa	Psi	S	S	S	Pa
Elation Six+ PAR L	20	3	23	3	30	15	15	>100



Pressure Valve



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.



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



MINIMUM DISTANCE OF FLAMMABLE 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.

Fixture(s) should be installed in areas outside walking paths, seating areas, or away from 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.

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

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.

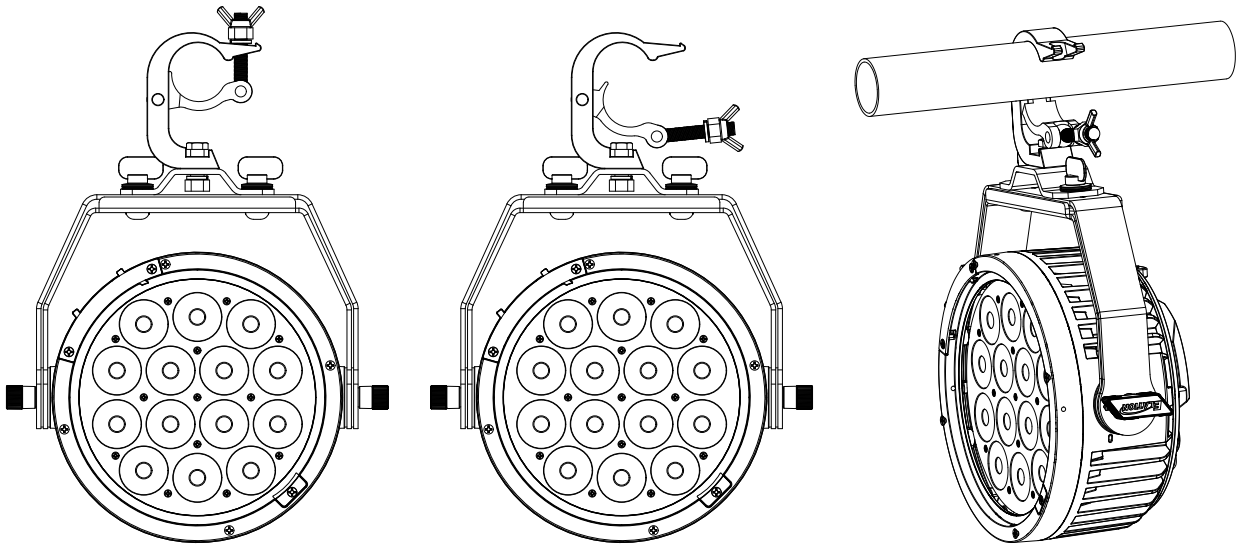
INSTALLATION GUIDELINES

CLAMP INSTALLATION

This device features a mounting clamp attachment point built into the mounting bracket, as well as a safety cable attachment point located on the rear face of the fixture above the control panel.

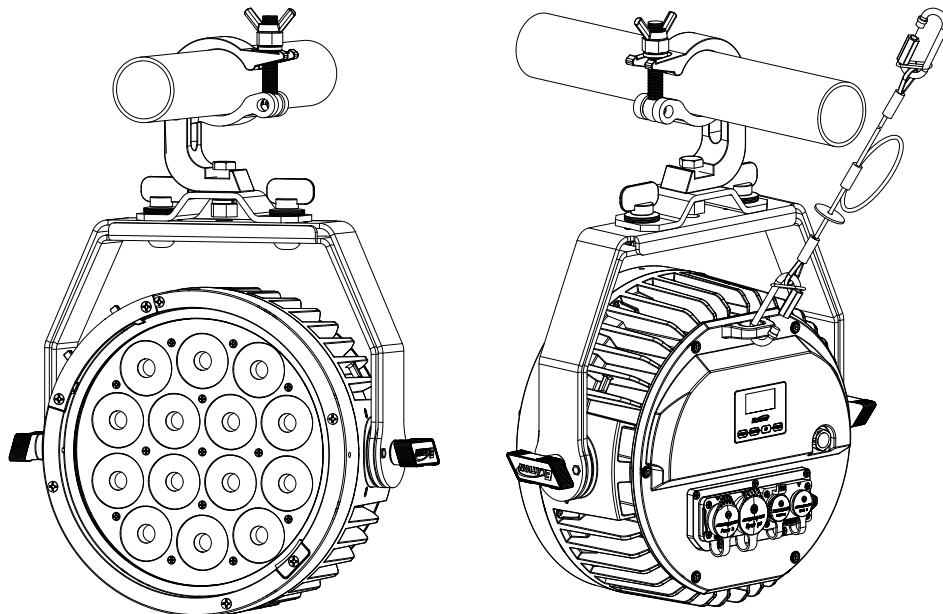
OMEGA BRACKET WITH CLAMP INSTALLATION

Insert the Omega Bracket into the matching holes on the yoke. Secure the Omega Bracket to the fixture by turning each quick-lock fastener $\frac{1}{4}$ turn clockwise; making sure the fastener is completely locked. The Omega Bracket can be installed into the fixture yoke as illustrated below.



SAFETY CABLE

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



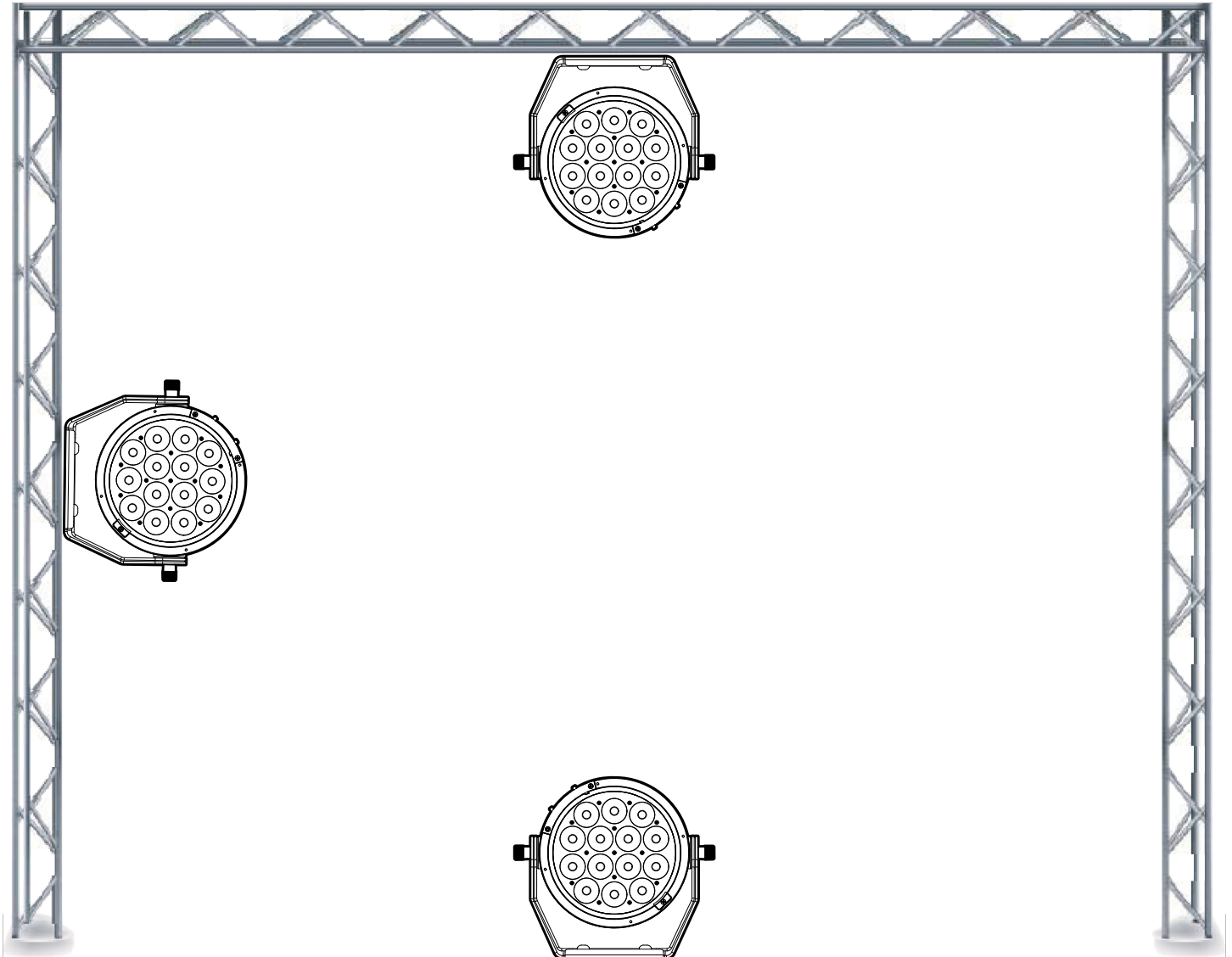
MOUNTING THE FIXTURE ON A TRUSS USING CLAMPS WITH OMEGA BRACKET

When mounting the fixture to a truss, be sure to secure an appropriately rated professional grade rigging clamp to the **Omega Bracket** using an M10 or M12 screw fitted through the center hole of the **Omega Bracket**. The fixture provides a built-in rigging point for a **SAFETY CABLE**. Be sure to use the designated rigging points for the safety cable.

INSTALLATION GUIDELINES

FIXTURE INSTALLATION

The Elation SIX+ PAR L is fully operational in three different mounting positions, hanging upside-down, mounted sideways on trussing, or set on a flat level surface. Be sure this fixture is kept at least 0.2m (7.9in.) away from any flammable materials (decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.



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



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

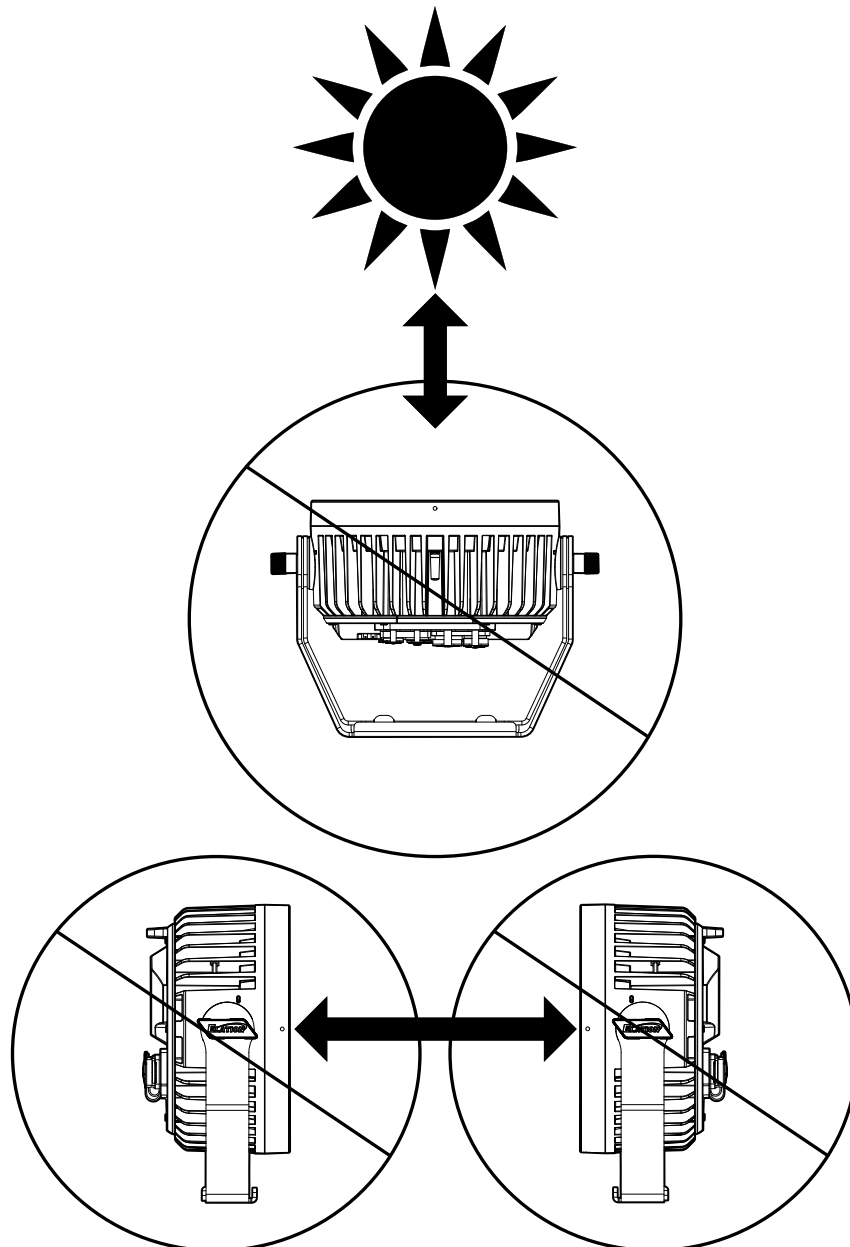
INSTALLATION GUIDELINES

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, lighting moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of 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. **NOTE: NOT ALL FEATURES LISTED ARE AVAILABLE ON ALL FIXTURES.**

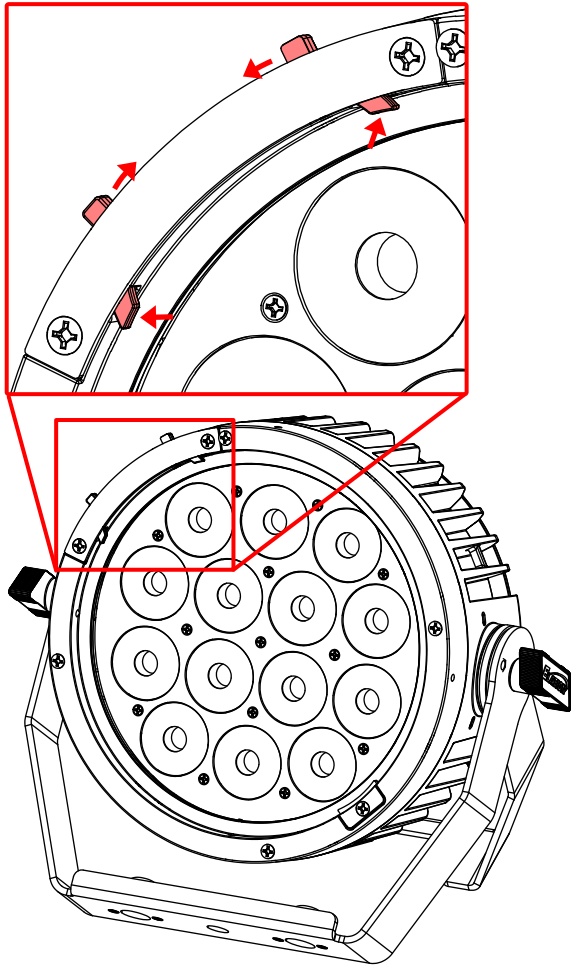
This issue is not specific only to ELATION lighting fixtures, it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can prevent any potential damage from occurring if followed. Contact ELATION 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.

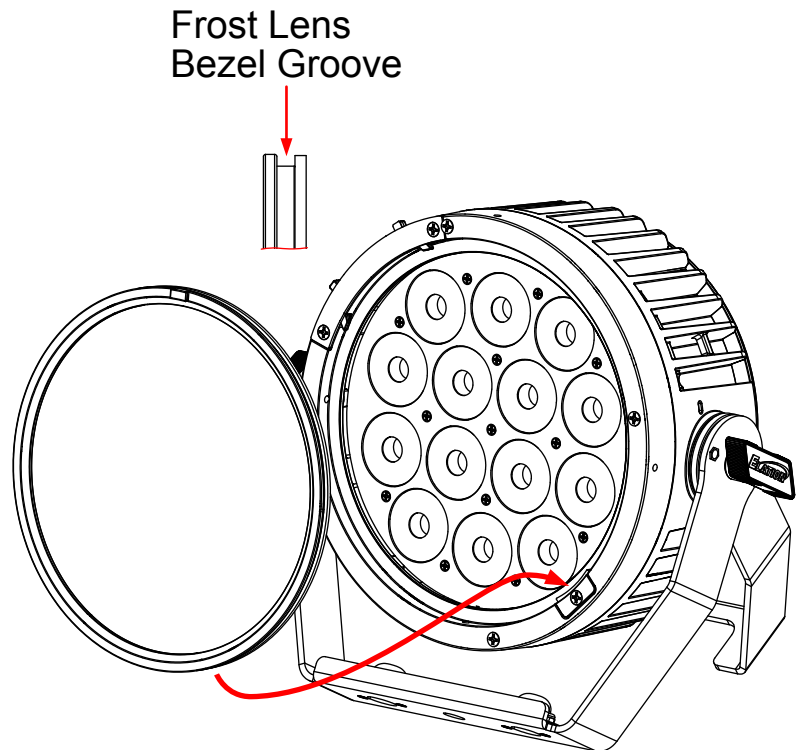


ACCESSORY INSTALLATION - FROST LENS

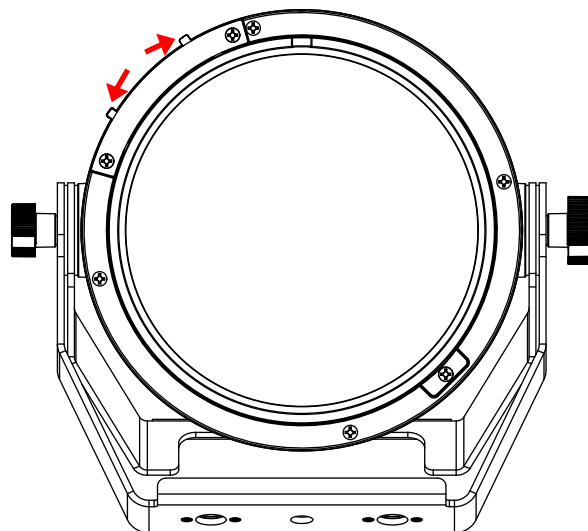
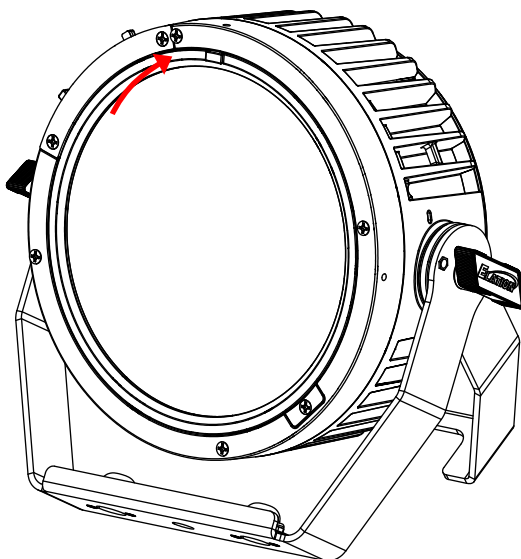
1. Slide lock levers inward to retract the locking tabs.



2. Install the Frost Lens by angling the bezel groove of the Frost Lens into the tab and levering it into place.

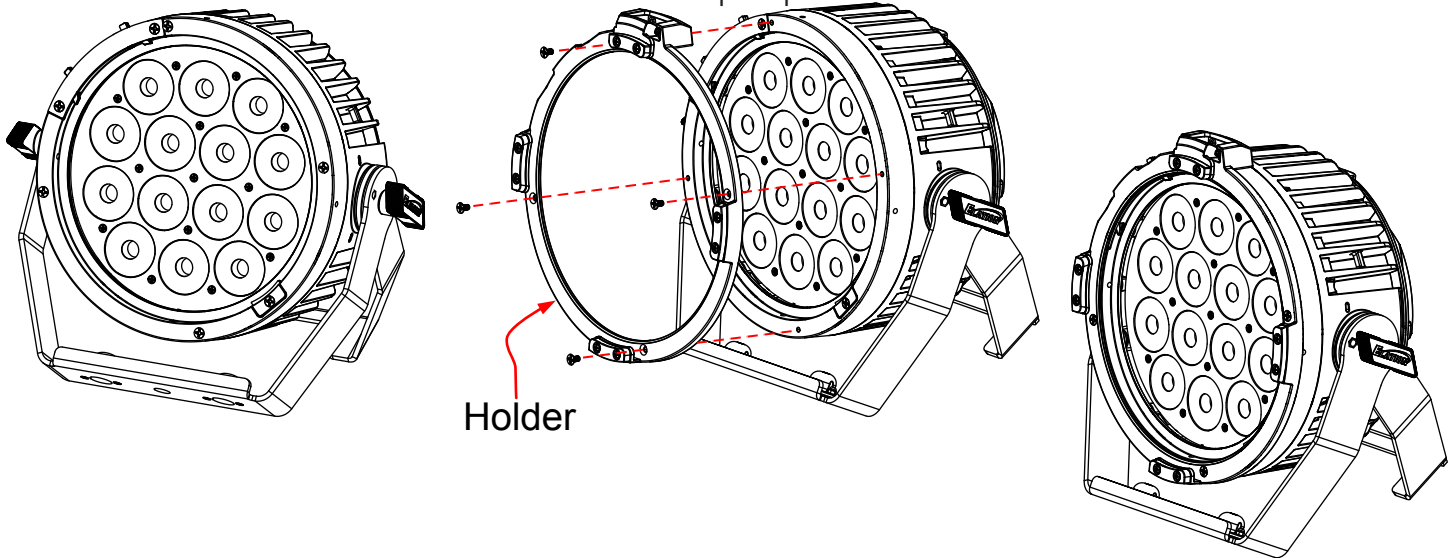


3. With the Frost Lens installed, slide levers outward to lock it in place.



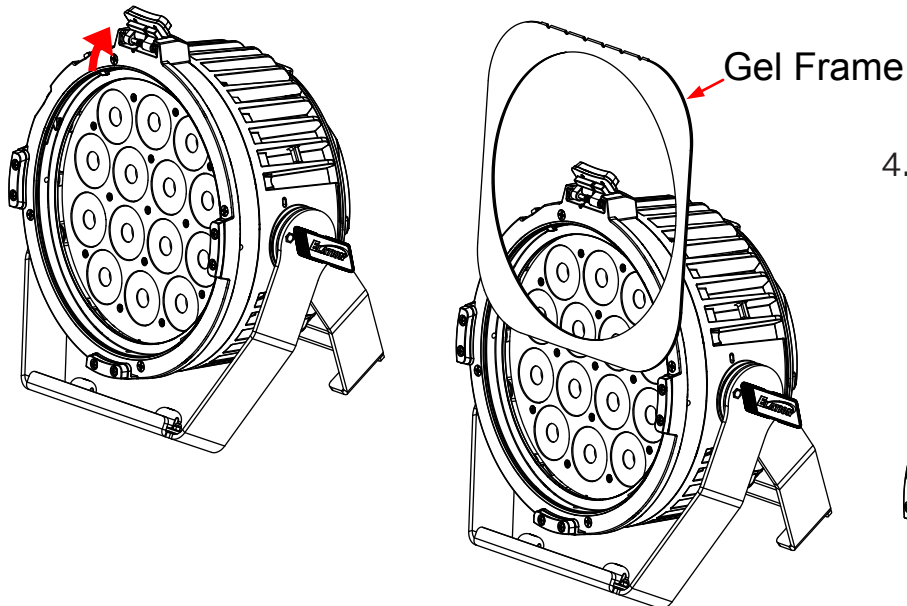
ACCESSORY INSTALLATION - GEL FRAME

1. Align the 4x holes on the Holder with the face of the fixture, and secure it with 4x philips head screws

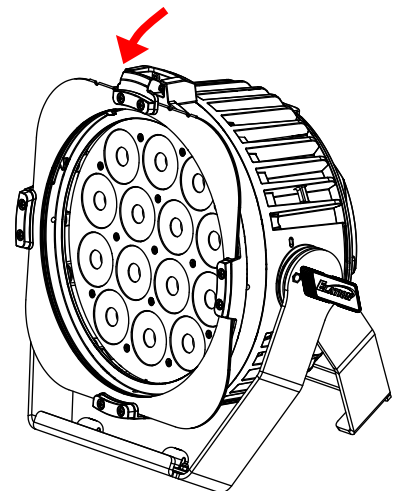


2. Flip up the retaining clip located near the top of the Holder.

3. Slide the Gel Frame into place.

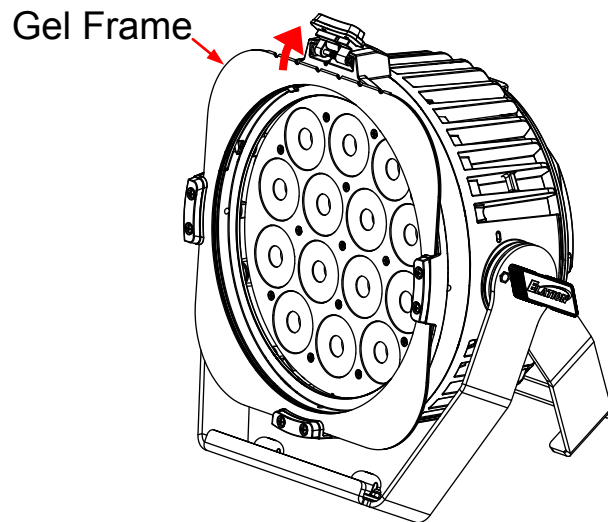


4. Return the retaining clip to the original position.

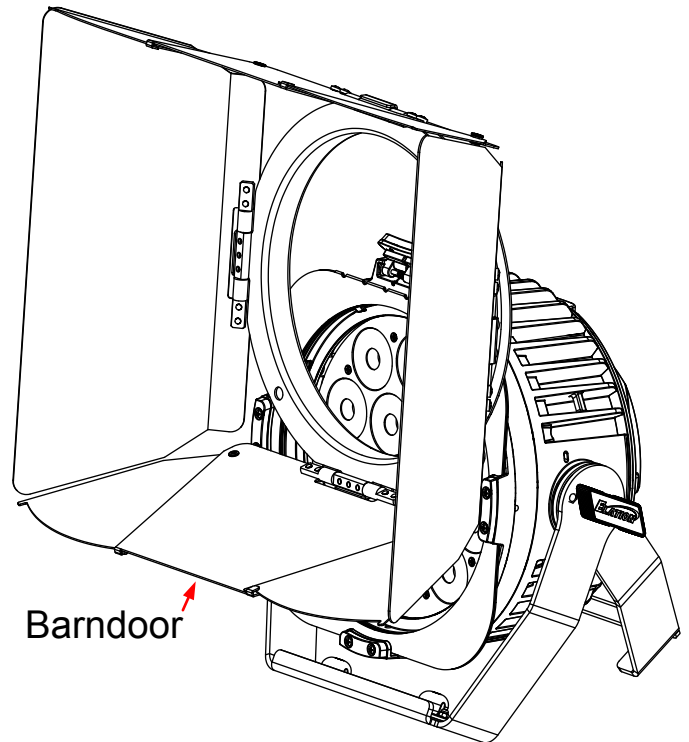


ACCESSORY INSTALLATION - BARNDOOR

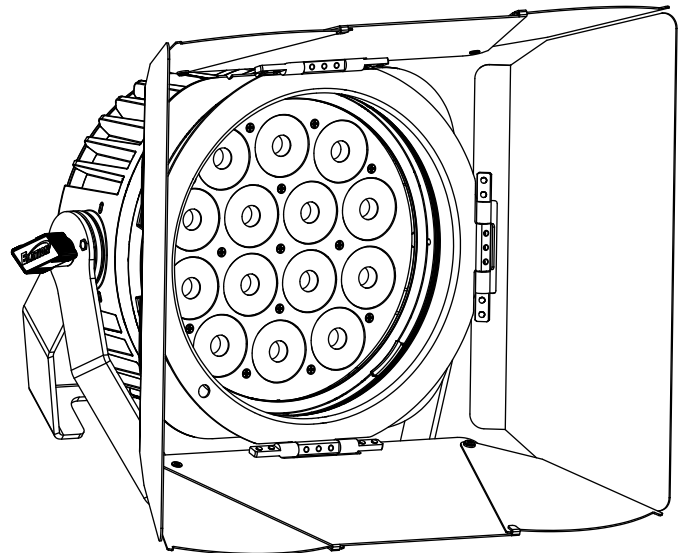
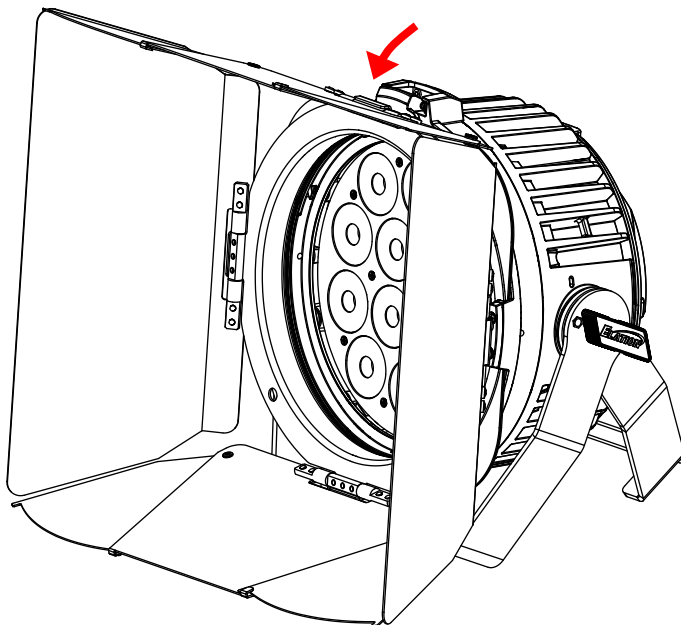
1. Flip open the retaining clip located near the top of the lens.



2. Slide the barndoor into place in front of the Gel Frame.



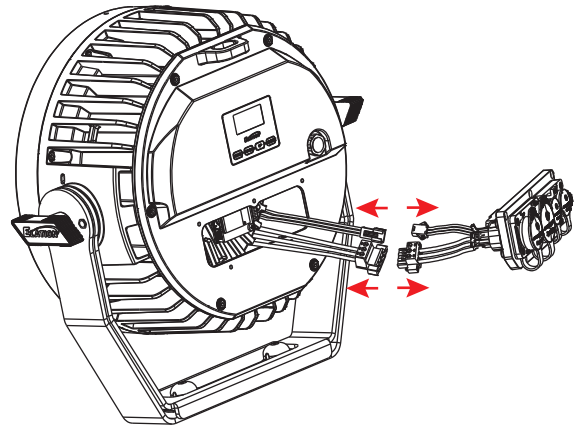
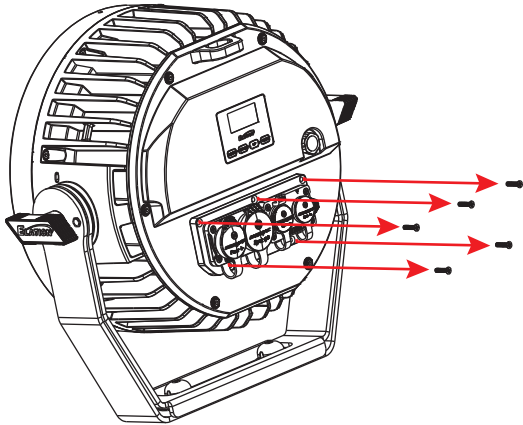
3. Return the retaining clip to the original position to lock the barndoor in place.



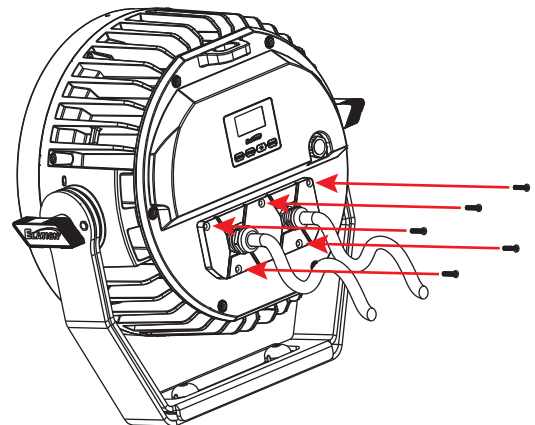
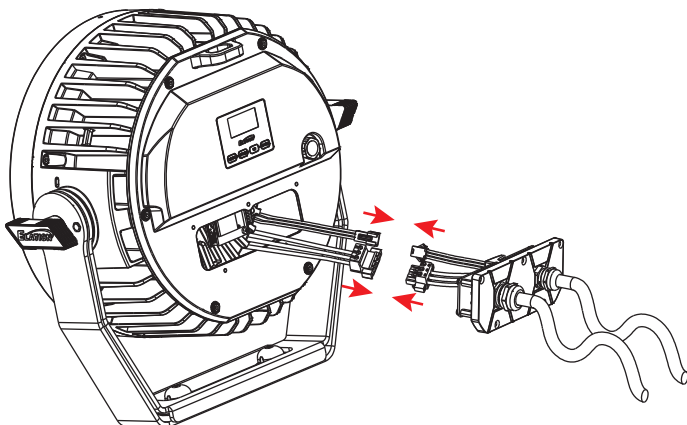
ACCESSORY INSTALLATION - HARDWIRE PLATE

Please note: The images below depict the 2-wire hardwire plate, but the installation procedure is identical for the 4-wire hardwire plate.

1. Remove the five (5) screws on the power/data port panel.
2. Carefully disconnect the electrical connectors for the data/power port panel, then remove the panel.



3. Connect the electrical connectors for the hardwire plate.
4. Secure the hardwire plate with the provided fasteners, and torque to: **3.1 - 4.0 lb-in (3.6 - 4.6 kg-cm).**



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, and allows 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:

Device ID	Device Model ID	RDM Code	Personality ID
30	52	0000-FFFF	22A6

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:

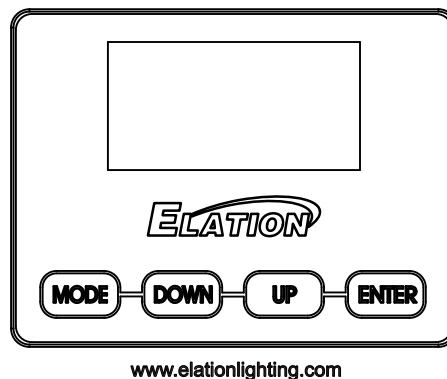
[0x0122] Default Slot Value	[0x0400] Device Hours
[0x00C2] Boot Software Version Label	[0x0015] Comms Status
[0x00C1] Boot Software Version ID	[0x0031] Status ID Description
[0x0070] Product Detail ID List	[0x0032] Clear Status ID
[0x0030] Status Messages	[0x0401] Lamp Hours
[0x0011] Proxied Device Count	[0x0402] Lamp Strikes
[0x0200] Sensor Definition	[0x0403] Lamp State
[0x0201] Sensor Value	[0x0404] Lamp Mode
[0x0080] Device Model Description	[0x0405] Device Power Cycles
[0x0081] Manufacturer Label	[0x0500] Display Invert
[0x0082] Device Label	[0x0501] Display Level
[0x00E0] DMX Personality	[0x0603] Realtime Clock
[0x00E1] DMX Personality Description	[0x1010] Power State

SYSTEM MENU

The fixture includes an easy to navigate system menu. The control panel display is located on the rear panel of the fixture (see image below) and provides access to the main system menu, where all necessary system adjustments are made to the fixture. During normal operation, pressing the MODE 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 DOWN and UP buttons. Once you reach a field that requires adjusting, press the ENTER button to activate that field and use the DOWN and UP buttons to adjust the field. Pressing the ENTER button once more will confirm the setting. Exit the main menu at any time without making any adjustments by pressing the MODE button.

The display screen will shut OFF automatically after 30 seconds of inactivity. To turn the display back on, press UP, DOWN, UP, DOWN, ENTER.

SIX+PAR L



PLEASE NOTE: For units installed in an outdoor setting, the display screen and control panel may interpret a raindrop as a command input and change the fixture's setting (phantom touch) if the display screen is not locked. **The default setting for this unit is to have the display screen unlocked (Settings > Display > Screen Lock > Off).** Therefore, to avoid unintentional command inputs, the Screen Lock setting should be configured so that the screen and control will lock after the selected period of inactivity.



AN ELATION C-LOADER II CAN ALSO BE USED TO UPDATE THE FIXTURE TO THE LATEST SOFTWARE. To order this device, please contact Elation Support for further details.

Detailed instructions can be found online at www.elationlighting.com.

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

SYSTEM MENU

MAIN MENU		OPTIONS / VALUES (Default Settings in BOLD)	
DMX	DMX Address	001 - 512	
	DMX Mode	1CH Dimmer	
		3CH RGB	
		9CH RGB Extended	
		6CH Color	
		9CH Color & Dimmer	
		11CH CMY	
		14CH CMY Extended	
		14CH Standard	
		20CH Extended	
		SixPar Emulation (See Emulated DMX Traits on page 28)	6 Channel
			7 Channel
			8 Channel
			12 Channel
	No DMX Status	Hold Last	
		Fade to Black	
		Standalone	
	Protocol	Select Signal	DMX / Aria In - DMX Out / DMX In - Aria Out
	Aria	Enable Aria	Off / On
		Frequency	2.4GHz / Sub Gig - US / Sub Gig - EU
		2.4GHz Chan	00 - 15
		Sub Gig Chan	00 - 09
		Enable Mesh	Off / On
		Enable Bluetooth	Off / On
Control	Manual Control	Dimmer 0-255	000% - 100%
		Red 0-255	0 - 255
		Green 0-255	0 - 255
		Blue 0-255	0 - 255
		Lime 0-255	0 - 255
		Amber 0-255	0 - 255
		UV 0-255	0 - 255
		CCT	2400K - 8500K (Default = 6000K).
		Green Shift	-100% ~ +100% (Default = 0)
		Virtual Color	See Color Macros
	Primary	On / Off	
	Secondary	On / Off	
	Self Test	All	
		Dimmer	
		Color	

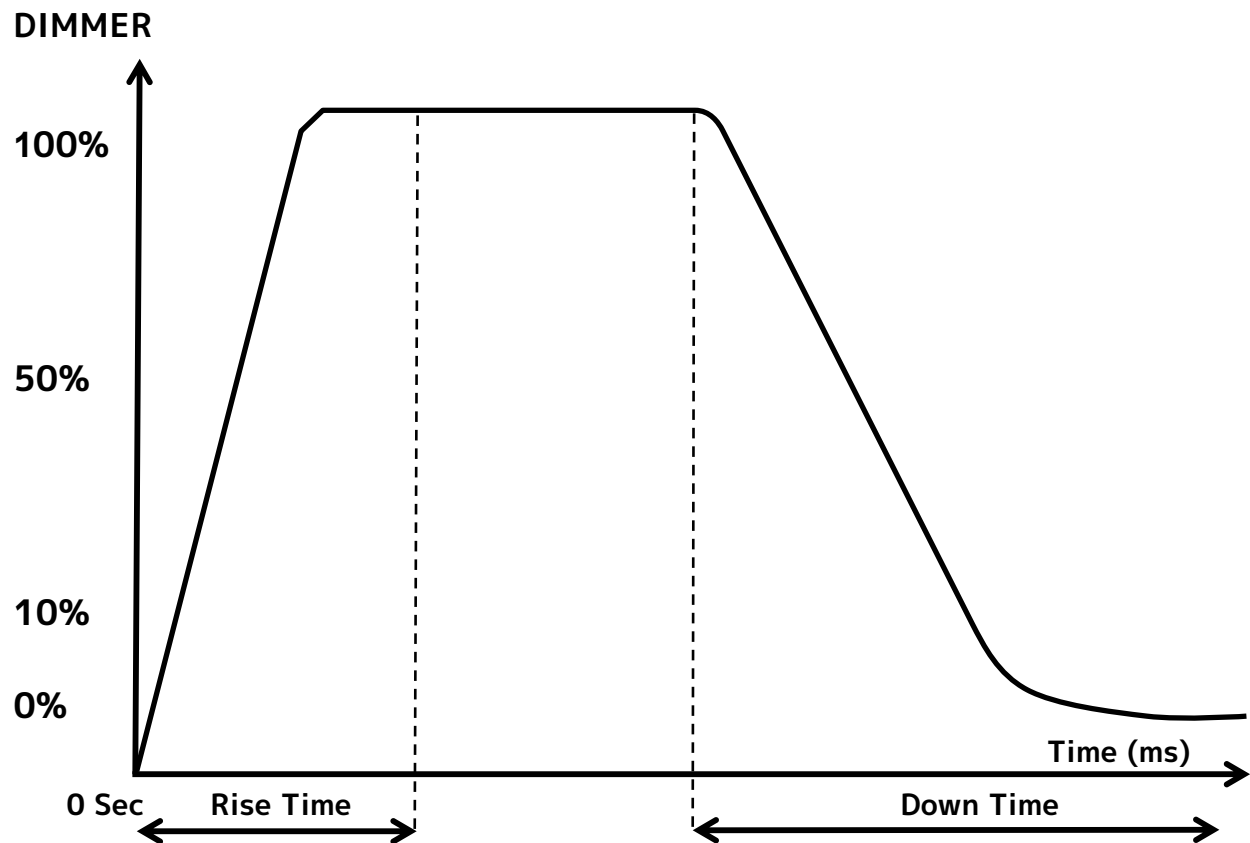
SYSTEM MENU

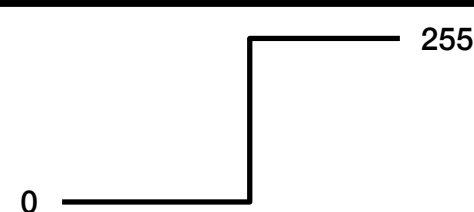
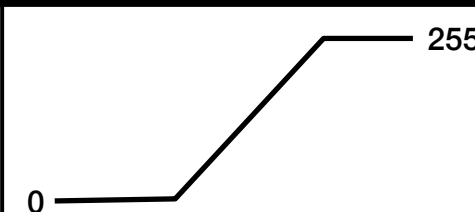
MAIN MENU		OPTIONS / VALUES (Default Settings in BOLD)	
Settings	Dim Modes	Standard , Stage, TV, Architectural, Theatre, Stage 2	
		Dim Speed	0s - 10s (Default = 0.1s)
	Dim Curves	Linear, Square, Square Inverse, S-Curve	
	LED Refresh Rate	900Hz - 1500Hz (1200Hz), 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz	
	LED Power Limit	50%, 60%, 70%, 80%, 90%, 100%	
	Display	Screen Delay	10s - 5min (Default = 1 min)
		Screen Lock	Off, 10s - 5 min, Key Lock
		Rotate Display	Yes / No / Auto
	Reset Defaults	Yes / No	
Information	Time	Current Run Time	
		Total Run Time	
		Last Run Time	
	Temperature	Current	
		Max Resettable	
	DMX Values	Red	
		Green	
		...	
	Product IDs	RDM UID	
	Error Logs	Fixture Errors	
	Software Version	Vx.x	
Service (Passcode= 050)	Aria Activation	On / Off	
	Calibration	Red 000 - 255	
		Green 000 - 255	
		Blue 000 - 255	
		Lime 000 - 255	
		Amber 000 - 255	
		UV 000 - 255	
	Reset Last Run	Yes / No	
	Reset Error Logs	Yes / No	

NOTE ON EMULATION DMX TRAITS (see page 28)

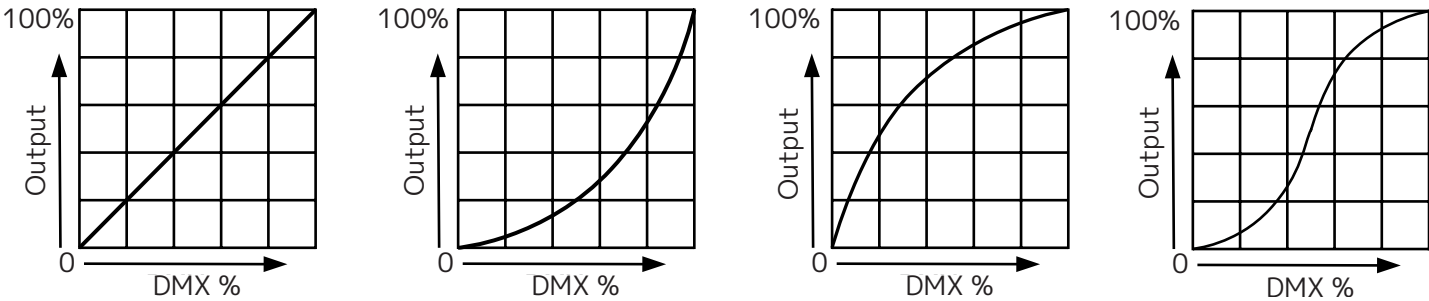
To ensure the SIX+ PAR L can be integrated seamlessly alongside original SixPar fixtures, great care has been taken to ensure that the new LED array colors match the original. A unique SixPar Emulation DMX mode has been developed, so that the new fixtures can be controlled with the same DMX mapping as the original. The color mixing has also been calibrated to virtually emulate the White LED included in the SixPar array and an output limit master setting has been added so your new lights don't overpower any older fixtures in the rig.

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 TRAITS (1, 3, 9, 6, 9)

DIMMER 1CH, RGB 3CH, RGB EXTENDED 9CH, COLOR 6CH, & COLOR & DIMMER 9CH

Dim. 1CH	RGB 3CH	RGB Ext. 9CH	Color 6CH	Color & Dim. 9CH	DMX Values	Function	Snap	Default Value
1		1		1	0-255	Dimmer Intensity 0 → 100%		0
		2		2	0-255	Dimmer Fine Fine Intensity Control		0
		3		3		Shutter/Strobe		50
					0-31	Shutter closed		
					32-63	No function (shutter open)		
					64-95	Strobe effect slow to fast		
					96-127	No function (shutter open)		
					128-159	Pulse-effect in sequences		
					160-191	No function (shutter open)		
					192-223	Random strobe effect slow to fast		
					224-255	No function (shutter open)		
	1	4	1	4	0-255	Red 0 → 100%		0
		5			0-255	Red Fine Fine Adjustment		0
	2	6	2	5	0-255	Green 0 → 100%		0
		7			0-255	Green Fine Fine Adjustment		0
	3	8	3	6	0-255	Blue 0 → 100%		0
		9			0-255	Blue Fine Fine Adjustment		0
			4	7	0-255	Lime 0 → 100%		0
					0-255	Lime Fine Fine Adjustment		0
			5	8	0-255	Amber 0 → 100%		0
					0-255	Amber Fine Fine Adjustment		0
			6	9	0-255	UV 0 → 100%		0

DMX TRAITS (11, 14, 14, 20)

CMY 11CH	CMY Ext. 14CH	Std. 14CH	Ext. 20CH	DMX Values	Function	Snap	Default Value
1	1	1	1	0-255	Dimmer Intensity 0 → 100%		0
2	2	2	2	0-255	Dimmer Fine Fine Intensity Control		0
3	3	3	3		Shutter/Strobe		50
				0-31	Shutter closed		
				32-63	No function (shutter open)		
				64-95	Strobe effect slow to fast		
				96-127	No function (shutter open)		
				128-159	Pulse-effect in sequences		
				160-191	No function (shutter open)		
				192-223	Random strobe effect slow to fast		
				224-255	No function (shutter open)		
		4	4	0-255	Red 0 → 100%		0
			5	0-255	Red Fine Fine Adjustment		0
		5	6	0-255	Green 0 → 100%		0
			7	0-255	Green Fine Fine Adjustment		0
		6	8	0-255	Blue 0 → 100%		0
			9	0-255	Blue Fine Fine Adjustment		0
		7	10	0-255	Lime 0 → 100%		0
			11	0-255	Lime Fine Fine Adjustment		0
		8	12	0-255	Amber 0 → 100%		0
			13	0-255	Amber Fine Fine Adjustment		0
		9	14	0-255	UV 0 → 100%		0
			15	0-255	UV Fine Fine Adjustment		0
4	4			0-255	Cyan 0 → 100%		0
	5			0-255	Cyan Fine Fine Adjustment		0
5	6			0-255	Magenta 0 → 100%		0
	7			0-255	Magenta Fine Fine Adjustment		0
6	8			0-255	Yellow 0 → 100%		0
	9			0-255	Yellow Fine Fine Adjustment		0

DMX TRAITS (11, 14, 14, 20)

CMY 11CH	CMY Ext. 14CH	Std. 14CH	Ext. 20CH	DMX Values	Function	Snap	Default Value
7	10	10	16		Variable CCT		0
				0-23	Open		
				24-85	2400K → 8500K (See Sheet)		
				86-255	8500K		
8	11	11	17		CCT Cross Fade	X	0
				0	CCT		
				255	Color Mix		
9	12	12	18		Color		0
				0	Open		
				1-179	Virtual Swatch Book (See Table)		
					Color Scroll		
				180-201	Clockwise Fast → Slow		
				202-207	Stop		
				208-229	Counter-clockwise Slow → Fast		
				230-234	Open		
					Random Slots		
				235-239	Fast		
				240-244	Medium		
				245-249	Slow		
10	13	13	19		Dim Modes	X	0
				0-20	Standard		
				21-40	Stage		
				41-60	TV		
				61-80	Architectural		
				81-100	Theatre		
				101-120	Stage 2		
					Dimmer Delay 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		
				141-255	Idle		

DMX TRAITS (11, 14, 14, 20)

CMY 11CH	CMY Ext. 14CH	Std. 14CH	Ext. 20CH	DMX Values	Function	Snap	Default Value
11	14	14	20		Control	X	0
				0-99	Idle		
					Refresh Rate (Hz)		
				100	900		
				101	910		
				102	920		
				103	930		
				104	940		
				105	950		
				106	960		
				107	970		
				108	980		
				109	990		
				110	1000		
				111	1010		
				112	1020		
				113	1030		
				114	1040		
				115	1050		
				116	1060		
				117	1070		
				118	1080		
				119	1090		
				120	1100		
				121	1110		
				122	1120		
				123	1130		
				124	1140		
				125	1150		
				126	1160		
				127	1170		
				128	1180		
				129	1190		
				130	1200		
				131	1210		
				132	1220		
				133	1230		
				134	1240		
				135	1250		
				136	1260		

DMX TRAITS (11, 14, 14, 20)

CMY 11CH	CMY Ext. 14CH	Std. 14CH	Ext. 20CH	DMX Values	Function	Snap	Default Value
11	14	14	20	137	1270	X	0
				138	1280		
				139	1290		
				140	1300		
				141	1310		
				142	1320		
				143	1330		
				144	1340		
				145	1350		
				146	1360		
				147	1370		
				148	1380		
				149	1390		
				150	1400		
				151	1410		
				152	1420		
				153	1430		
				154	1440		
				155	1450		
				156	1460		
				157	1470		
				158	1480		
				159	1490		
				160	1500		
				161	2500		
				162	4000		
				163	5000		
				164	6000		
				165	10000		
				166	15000		
				167	20000		
				168	25000		
				169-200	Idle		
					Dimmer Curves		
				201-210	Dimmer Curve: Linear (Default)		
				211-220	Dimmer Curve: Square		
				221-230	Dimmer Curve: Inverse Square		
				231-240	Dimmer Curve: S-Curve		
				241-255	Idle		

EMULATION DMX TRAITS (6, 7, 8, 12)

6 ch	7 CH	8 CH	12 CH	Value	Function	Snap	Default Value
1	1	1	1	0-255	Red 0 → 100%		0
2	2	2	2	0-255	Green 0 → 100%		0
3	3	3	3	0-255	Blue 0 → 100%		0
4	4	4	4	0-255	White 0 → 100%		0
5	5	5	5	0-255	Amber 0 → 100%		0
6	6	6	6	0-255	UV 0 → 100%		0
	7	7	7	0-255	Master Dimmer Intensity 0 → 100%		0
		8	8		Shutter/Strobe		0
				0-31	Shutter Open		
				32-95	Strobe effect slow to fast		
				96-127	No function (shutter open)		
				128-159	Pulse-effect in sequences		
				160-191	No function (shutter open)		
				192-223	Random strobe effect slow to fast		
				224-255	No function (shutter open)		
			9		Color Macros		0
				0-3	OFF		
				4-7	RED		
				8-11	GREEN		
				12-15	BLUE		
				16-19	WHITE		
				20-23	AMBER		
				24-27	UV		
				28-31	RED + GREEN		
				32-35	RED + BLUE		
				36-39	RED + WHITE		
				40-43	RED + AMBER		
				44-47	RED + UV		
				48-51	GREEN + BLUE		
				52-55	GREEN + WHITE		
				56-59	GREEN + AMBER		
				60-63	GREEN + UV		
				64-67	BLUE + WHITE		
				68-71	BLUE + AMBER		
				72-75	BLUE + UV		
				76-79	WHITE + AMBER		
				80-83	WHITE + UV		
				84-87	AMBER + UV		
				88-91	RED + GREEN + BLUE		
				92-95	RED + GREEN + WHITE		
				96-99	RED + GREEN + AMBER		
				100-103	RED + GREEN + UV		
				104-107	RED + BLUE + WHITE		
				108-111	RED + BLUE + AMBER		
				112-115	RED + BLUE + UV		
				116-119	RED + WHITE + AMBER		
				120-123	RED + WHITE + UV		

EMULATION DMX TRAITS (6, 7, 8, 12)

6 ch	7 CH	8 CH	12 CH	Value	Function	Snap	Default Value
			9	124-127	RED + AMBER + UV	X	0
				128-131	GREEN + BLUE + WHITE		
				132-135	GREEN + BLUE + AMBER		
				136-139	GREEN + BLUE + UV		
				140-143	GREEN + WHITE + AMBER		
				144-147	GREEN + WHITE + UV		
				148-151	GREEN + AMBER + UV		
				152-155	BLUE + WHITE + AMBER		
				156-159	BLUE + WHITE + UV		
				160-163	BLUE + AMBER + UV		
				164-167	WHITE + AMBER + UV		
				168-171	RED + GREEN + BLUE + WHITE		
				172-175	RED + GREEN + BLUE + AMBER		
				176-179	RED + GREEN + BLUE + UV		
				180-183	RED + GREEN + WHITE + AMBER		
				184-187	RED + GREEN + WHITE + UV		
				188-191	RED + GREEN + AMBER + UV		
				192-195	RED + BLUE + WHITE + AMBER		
				196-199	RED + BLUE + WHITE + UV		
				200-203	RED + BLUE + AMBER + UV		
				204-207	RED + WHITE + AMBER + UV		
				208-211	GREEN + BLUE + WHITE + AMBER		
				212-215	GREEN + BLUE + WHITE + UV		
				216-219	GREEN + BLUE + AMBER + UV		
				220-223	GREEN + WHITE + AMBER + UV		
				224-227	BLUE + WHITE + AMBER + UV		
				228-231	RED + GREEN + BLUE + WHITE + AMBER		
				232-235	RED + GREEN + BLUE + WHITE + UV		
				236-239	RED + GREEN + BLUE + AMBER + UV		
				240-243	RED + GREEN + WHITE + AMBER + UV		
				244-247	RED + BLUE + WHITE + AMBER + UV		
				248-251	GREEN + BLUE + WHITE + AMBER + UV		
				252-255	RED + GREEN + BLUE + WHITE + AMBER + UV		
			10		Color Chase Macros	X	0
				0-20	No Function		
				21-40	30 Color Chase		
				41-60	6 Color Chase		
				61-80	Color Fade Chase		
				81-255	No Function		
			11	0-255	Color Chase Macro Speed		
					Color Chase Speed Slow to Fast		
			12		Dimming Modes	X	0
				0-20	Standard		
				21-40	Stage		
				41-60	TV		
				61-80	Architectural		
				81-100	Theatre		
				101-255	No Function		

COLOR TEMPERATURE

DMX VALUE	COLOR TEMPERATURE (K)	DMX VALUE	COLOR TEMPERATURE (K)
24	2400	63	6300
25	2500	64	6400
26	2600	65	6500
27	2700	66	6600
28	2800	67	6700
29	2900	68	6800
30	3000	69	6900
31	3100	70	7000
32	3200	71	7100
33	3300	72	7200
34	3400	73	7300
35	3500	74	7400
36	3600	75	7500
37	3700	76	7600
38	3800	77	7700
39	3900	78	7800
40	4000	79	7900
41	4100	80	8000
42	4200	81	8100
43	4300	82	8200
44	4400	83	8300
45	4500	84	8400
46	4600	85	8500
47	4700		
48	4800		
49	4900		
50	5000		
51	5100		
52	5200		
53	5300		
54	5400		
55	5500		
56	5600		
57	5700		
58	5800		
59	5900		
60	6000		
61	6100		
62	6200		

VIRTUAL COLORS

VALUE	FILTER #	COLOR	VALUE	FILTER #	COLOR
1	7	Pale Yellow	31	126	Mauve
2	103	Straw	32	49	Medium Purple
3	151	Gold Tint	33	58	Lavender
4	100	Spring Yellow	34	199	Palace Blue
5	10	Medium Yellow	35	119	Dark Blue
6	101	Yellow	36	132	Medium Blue
7	104	Deep Amber	37	120	Deep Blue
8	15	Deep Straw	38	165	Daylight Blue
9	179	Loving Amber	39	161	Slate Blue
10	21	Gold Amber	40	118	Light Blue
11	105	Orange	41	68	Sky Blue
12	158	Deep Orange	42	143	Pale Navy Blue
13	22	Dark Amber	43	131	Marine Blue
14	778	Millennium Gold	44	115	Peacock Blue
15	135	Deep Golden Amber	45	172	Lagoon Blue
16	24	Scarlet	46	116	Medium Blue Green
17	106	Primary Red	47	90	Dark Yellow Green
18	26	Bright Red	48	139	Primary Green
19	27	Medium Red	49	122	Fern Green
20	19	Fire	50	89	Moss Green
21	157	Pink	51	124	Dark Green
22	36	Medium Pink	52	88	Lime Green
23	111	Dark Pink	53	138	Pale Green
24	128	Bright Pink	54	203	Quarter CT Blue
25	148	Bright Rose	55	202	Half CT Blue
26	332	Special Rose Pink	56	201	FULL CT Blue
27	793	Vanity Fair	57	200	Double CT Blue
28	113	Magenta	58	206	Quarter CT Orange
29	46	Dark Magenta	59	205	Half CT Orange
30	48	Rose Purple	60	204	FULL CT Orange

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 periodically 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 an authorized Elation dealer.

Please refer to the following points during routine inspections:

- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, 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.

SPECIFICATIONS

SOURCE

(14) x 20W RGBLA+ UV LEDs
30,000 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

7300 Total Lumen Output
CRI - 91.7

EFFECTS

Electronic Dimmer and Strobe
Variable 16-bit Dimming Modes and Curves

COLOR

RGBLA+ UV Color Array
CMY Emulation
Variable CCT 2400K - 8500K
Virtual Gel Swatch Book

CONTROL / CONNECTIONS

9 DMX Channel Modes (1ch, 3ch, 9ch, 6ch, 9ch, 11ch, 14ch, 14ch, 20ch)
4 SixPar Emulation DMX Channel Modes (6ch, 7ch, 8ch, 12ch)
Manual and DMX Controlled Dimmer and Color
4 Button Control Panel, LED Display
Aria x2 Wireless Device Management
RDM (Remote Device Management)
5pin DMX and IP65 Locking Power Cable In/Out

SIZE / WEIGHT

Length: 10.2" (260mm)
Width: 13.5" (342mm)
Vertical Height: 9.7" (246.5mm)
Weight: 15.7lbs. (7.1kg)

ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz
165W Max Power Consumption
Power Thru Capacity: 10A (6 units @ 110V, 14 units @ 240V)
5°F to 113°F (-15°C to 45°C)
BTU/hr (+/- 10%) 562.65

INCLUDED ITEMS

MFL (20°) Lens
Safety Cable
IP65 Locking Power Cable

OPTIONAL ITEMS

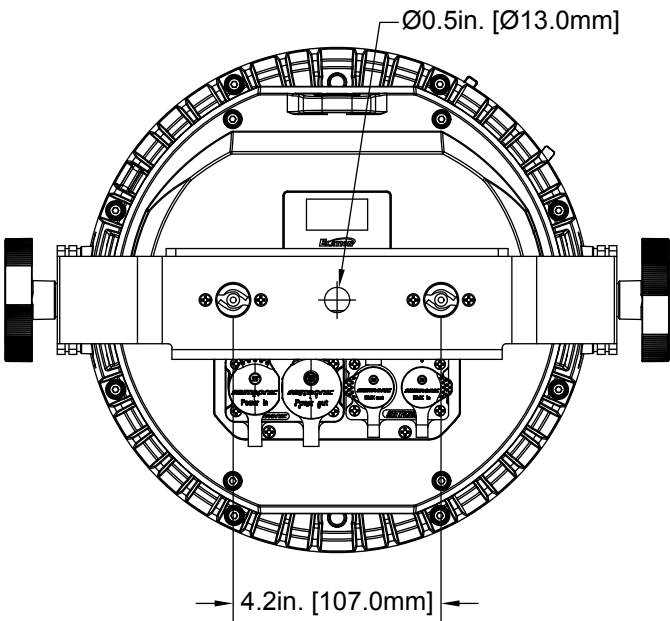
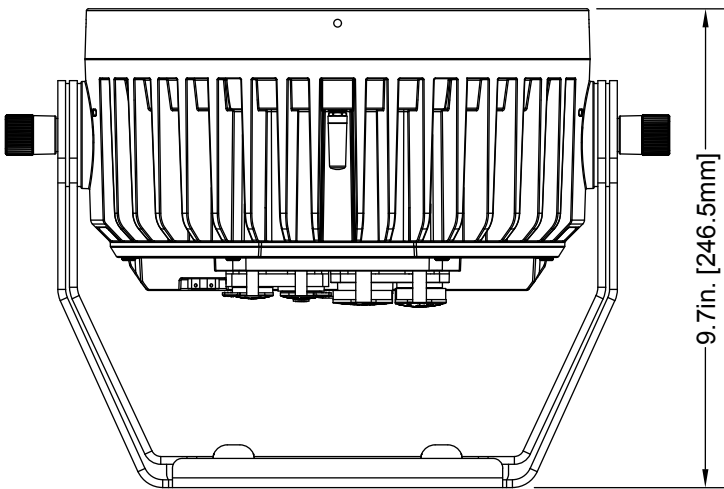
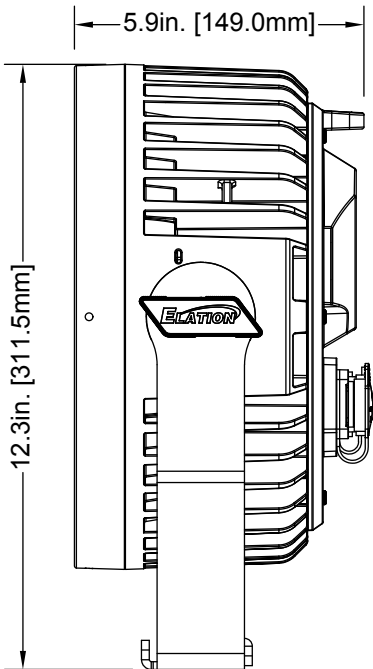
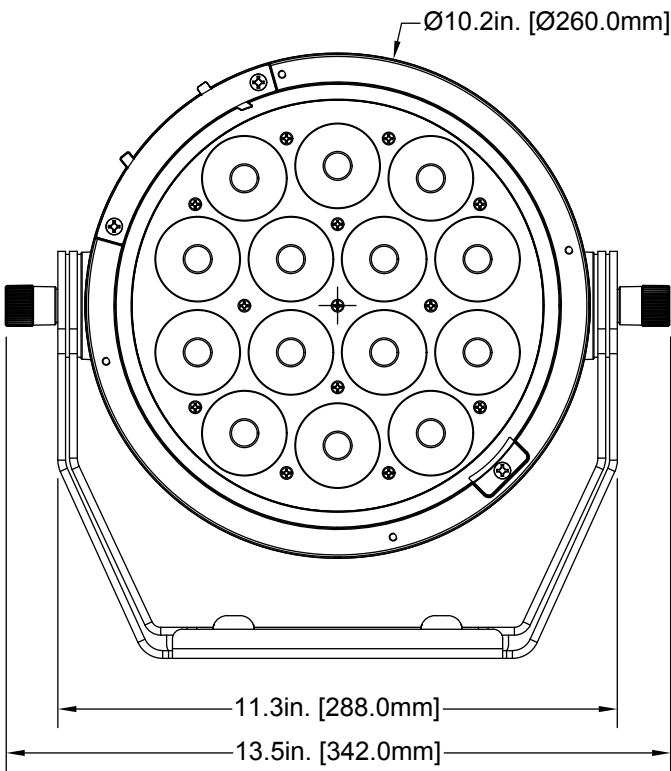
60° Lens (SIX+L WFL)
100° Lens (SIX+L XFL)
1°x 40° Lens (SIX+L L140)
10°x 60° Lens (SIX+L L1060)
Gel Frame & Holder Kit (SIX+L GFK)
10" Black Barndoor (BD0810)
4 Wire Hardwire Installation Plate (HWP404)
2 Wire Hardwire Installation Plate (HWP202)
8050000053 - Omega Bracket
10' Tour Link 5-pin DMX Cable (TOU027)
10' IP65 Locking Power Extension Cable (SIP139)

APPROVALS / RATINGS

CE | cETLus | IP65 | FCC | UKCA

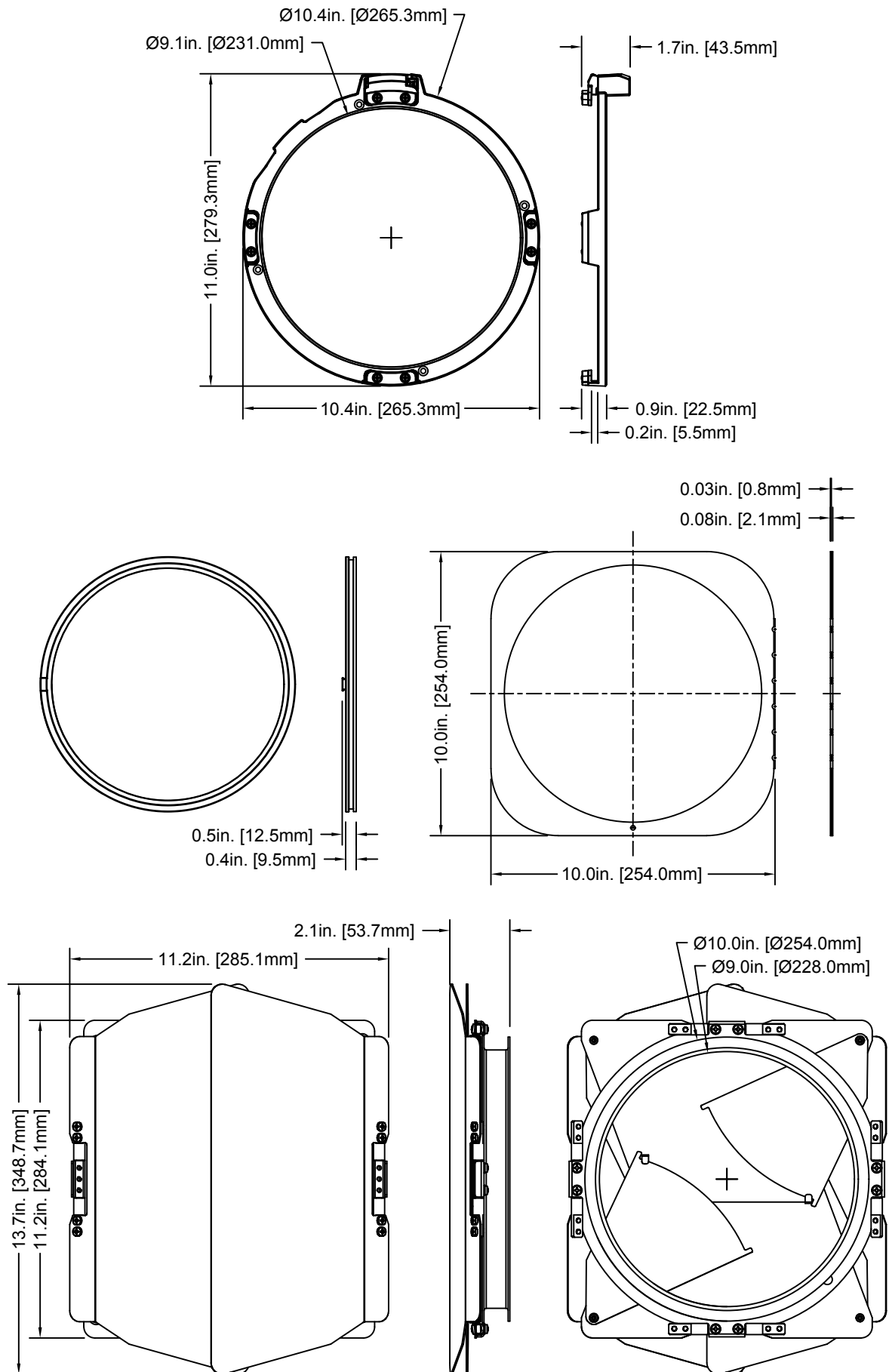
DIMENSIONAL DRAWINGS

Drawings not to scale



DIMENSIONAL DRAWINGS

Drawings not to scale



ORDERING INFORMATION

SKU US/EU		ITEM DESCRIPTION
SIX213	1237000276	SIX+ PAR L
SIX+L WFL	1223200100	60° lens
SIX+L XFL	1223200101	100° Lens
SIX+L L1060	1223200098	10°x60° Lens
SIX+L L140	1223200099	1°x40° Lens
SIX+L GFK	1621000163	Gel Frame Holder & Bumper
BD0810	1236100196	10" Black Barndoor
HWP414	1236300117	4 Wire Hardwire Installation Plate
HWP212	1236300118	2 Wire Hardwire Installation Plate

ERROR CODES

CODE	ERROR
TEMP	Temperature Error



FCC STATEMENT

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

FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

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

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

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

