ELATION
PROFESSIONAL

PAR FC/WH
User Manual

Elation Professional USA | 6122 S. Eastern Ave. | Los Angeles, CA. 90040
323-582-3322 | 323-832-9142 fax | www.elationlighting.com | info@elationlighting.com

Elation Professional B.V. | Junostraat 2 | 6468 EW Kerkrade, The Netherlands
+31 45 546 85 66 | +31 45 546 85 96 fax | www.elationlighting.eu | info@elationlighting.eu

Elation Professional Mexico | AV Santa Ana 30 | Parque Industrial Lerma, Lerma, Mexico 52000
+52 (728) 282-7070

DOCUMENT VERSION

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

Date	Document Version	Software Version	DMX Channel Mode	Notes
07/19/21	1.0	1.03	1/6/11/18/9/14	Initial Release
07/23/21	2.0	N/C	No Change	Updated Specifications and Dimensional Drawings.
07/27/21	3.0	N/C	No Change	Update Dimensional Drawing and Specifications
08/24/22	4.0	N/C	No Change	Updated RDM Parameters & Codes
11/21/22	5.0	N/C	No Change	Updated Specifications
12/16/22	6.0	N/C	No Change	Added CE & UKCA approval to Specifications
04/10/23	7.0	N/C	No Change	Added KL logo, updated specifications.
07/10/23	8.0	N/C	No Change	Corrected Fan Control and Low Noise Operation
09/26/23	9.0	N/C	No Change	Updated RDM Parameters

CONTENTS

GENERAL INFORMATION

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

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

BOX CONTENTS
Gel Frame (x1)
Lenses (x4): 11°, 22°, 30°, 52°
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 | Fax 323-832-9142 | support@elationlighting.com

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

REPLACEMENT PARTS please visit parts.elationlighting.com

⚠ **IMPORTANT NOTICE!**

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

LIMITED WARRANTY (USA ONLY)

A. Elation Professional hereby warrants, to the original purchaser, Elation Professional products to be free of manufacturing defects in material and workmanship for a period of two years (730 days), and Elation Professional product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days), from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Elation Professional factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional shall have no liability what so ever for loss and/or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Elation Professional concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional factory unless prior written authorization was issued to purchaser by Elation Professional; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.

D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Elation Professional will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.

E. Elation Professional reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.

G. This warranty is the only written warranty applicable to Elation Professional products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

WARRANTY RETURNS

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

SAFETY GUIDELINES

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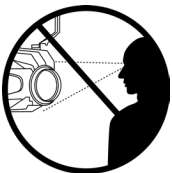
NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!

FOR USE IN INDOOR OR DRY LOCATIONS ONLY!
DO NOT EXPOSE TO RAIN AND/OR MOISTURE!

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

For Your Own Personal Safety, Please Read and Understand This Manual Completely Before You Attempt To Install Or Operate This Unit!

- **IP20 Rating: Fixture is protected against intrusion by solids measuring roughly 12.5mm in size or larger, such as human fingers. THE FIXTURE IS NOT PROTECTED AGAINST LIQUIDS OR MOISTURE OF ANY KIND!**
- Do not touch the fixture housing during operation, as it may be hot.
- Do not shake the fixture, and avoid using brute force when installing and/or operating.
- Use only the original packaging and materials to transport or ship the fixture for service. Make sure to retain the original packaging for this purpose.
- Be sure that the local power outlet matches the required voltage for the device.
- Do not open up the device for any reason. There are no user serviceable parts inside.
- Disconnect the device's main power when left unused for long periods of time.
- Never connect this device to a dimmer pack.
- Do not attempt to operate this device if it has been damaged in any way.
- Never operate this device with the cover removed.
- Do not attempt to operate this device if the power cord has been frayed or broken.
- Never force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace immediately with a new cord of the same power rating.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Only handle the power cord by the plug end. Never disconnect the plug by tugging on the wire portion of the power cord.
- Disconnect from main power before making any type of connection.
- Never block the air ventilation slots. Always be sure to mount this device in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Always mount this unit in a safe and stable matter.
- Please route your power cord out of the way of foot traffic. Power cords should be routed so they are not likely to be walked on or pinched by items placed upon or against them.
- Before performing any servicing, turn off and disconnect the device from power and allow at least 15 minutes for the device to cool.
- Consistent operational breaks will ensure that this fixture will function properly for many years.
- The device should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged.
  - B. Objects have fallen on, or liquid has been spilled into, the device.
  - C. The device has been immersed in liquid or exposed to moisture.
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

Keep all flammable materials away from this fixture!

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.

OVERVIEW

Adjustable Mounting Bracket

Safety Cable Attachment Point

Accessory Attachment Clip

Bracket Adjustment Knob

Display Screen

Volume Adjustment Knob

MODE — ENTER — UP — DOWN

www.elationlighting.com

DMX IN   DMX IN   DMX OUT   DMX OUT

FUSE: T5A/250V

POWER IN
AC100-240V 50/60Hz

POWER OUT
MAX:100-240V 8A

SERVICE PORT
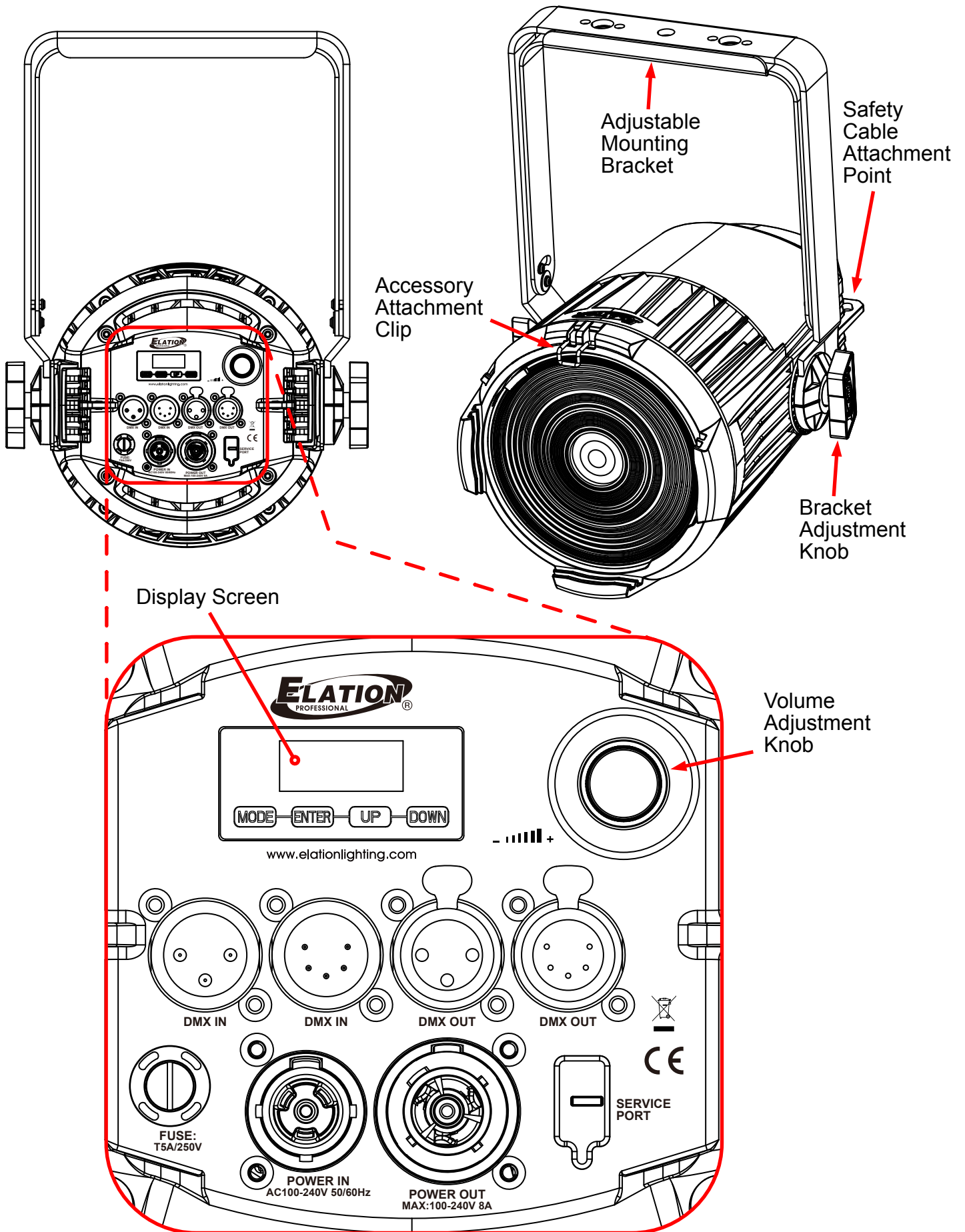
INSTALLATION: FIXTURE

⚠️ **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 serving.

INSTALLATION: FIXTURE

CLAMP INSTALLATION

This device features a mounting clamp attachment point built into the mounting bracket, as well as two safety cable attachment points located on the rear face of the fixture on either side of the control panel (see the illustration below). When mounting the fixture to a truss or any other suspended or overhead installation, be sure to secure an appropriately rated clamp (not included) to the clamp attachment point and attach a separate SAFETY CABLE of the appropriate safety rating to the safety cable rigging point.
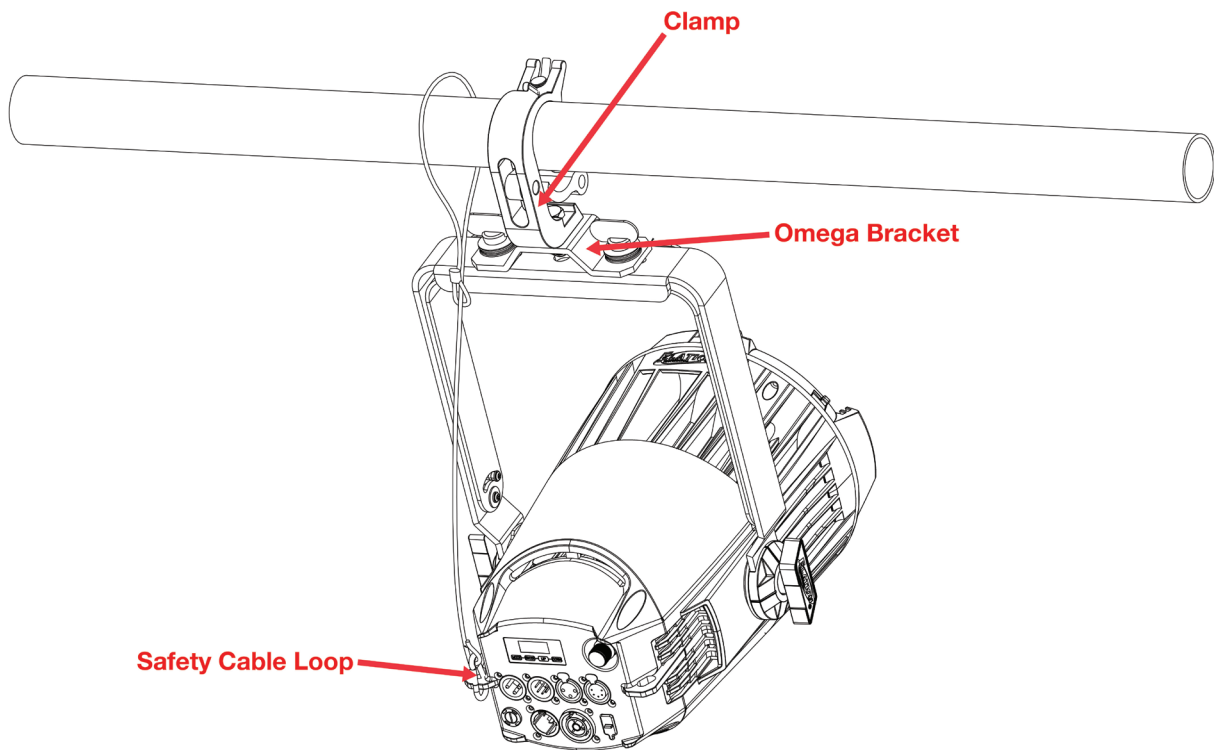
⚠ **ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.**

RIGGING

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

INSTALLATION GUIDELINES

FIXTURE INSTALLATION

The Elation KL PAR FC 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. Never use the carrying handles for secondary attachment.

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

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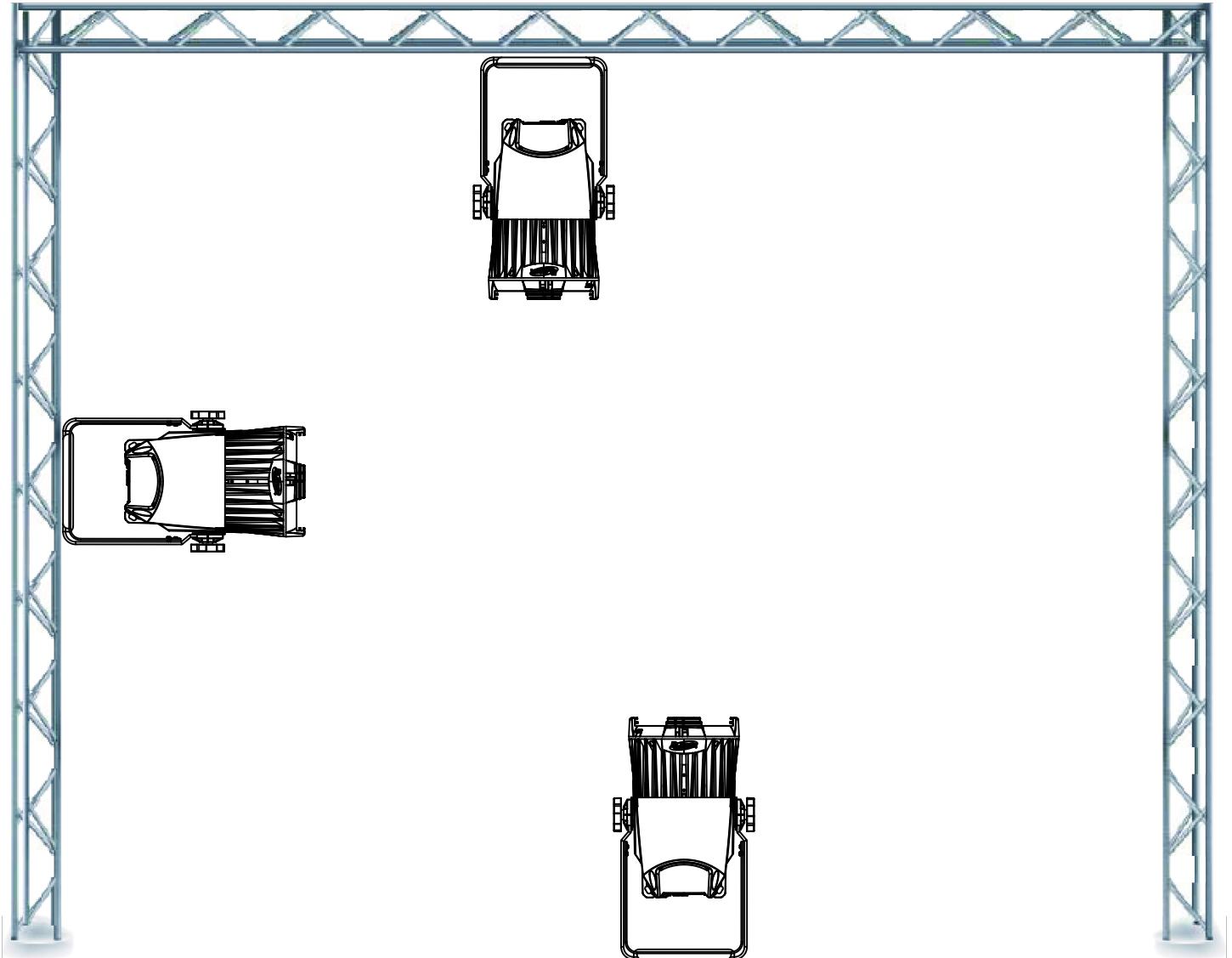
INSTALLATION GUIDELINES

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.

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.
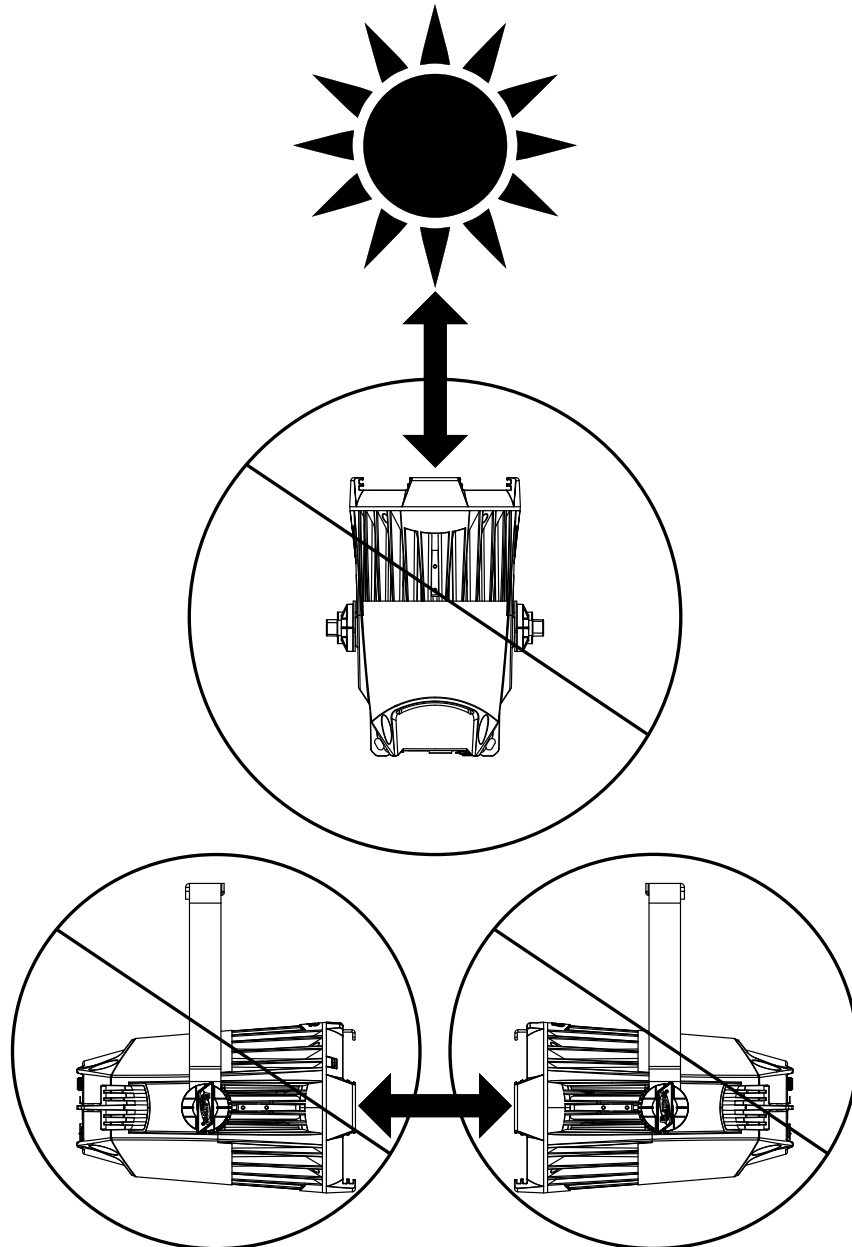
ACCESSORY INSTALLATION

LENS INSTALLATION

1. Flip the retaining clip located near the top of the lens.
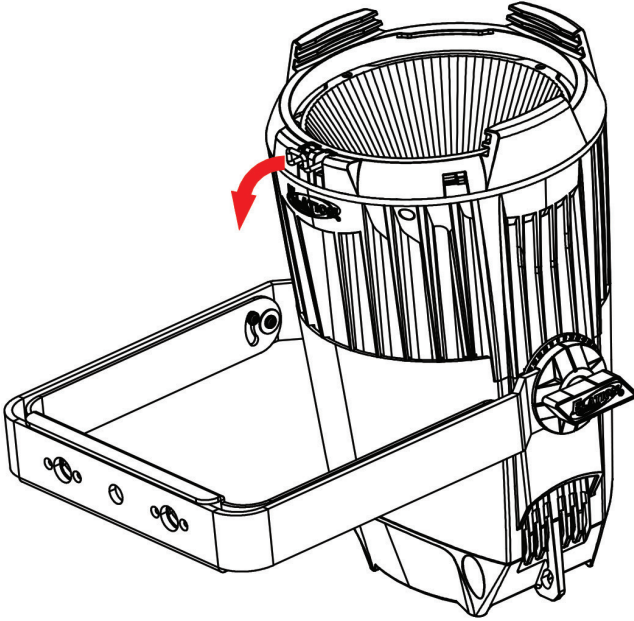
2. Push the latch towards the location of the retaining clip. Hold the latch in this position.
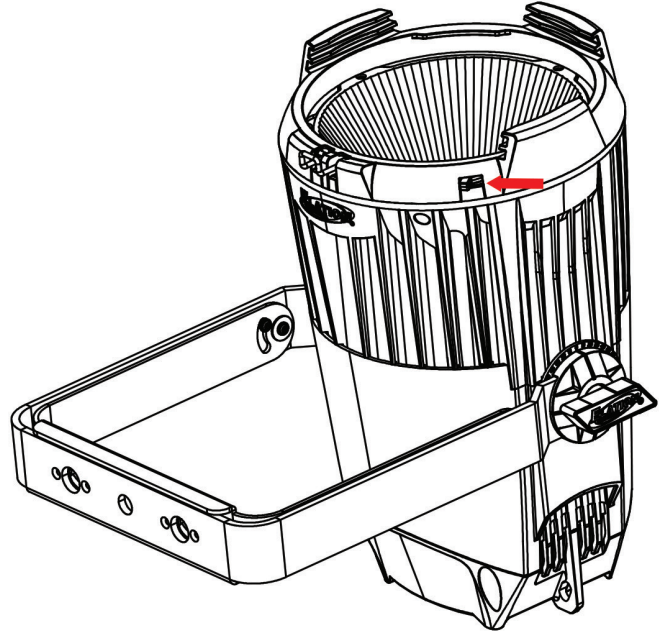
3. While holding the latch in place, slide the desired lens into place. Then release the latch. It will automatically move back into the locked position when released.
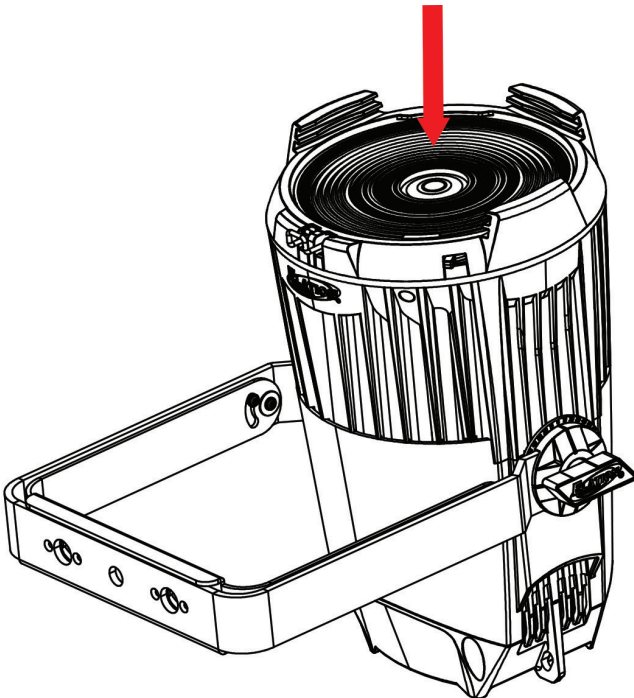
4. Return the retaining clip to the original position.
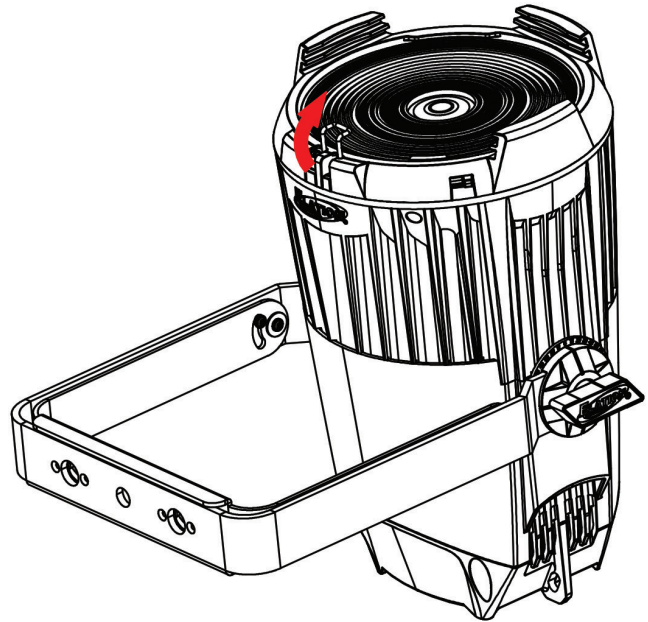
ACCESSORY INSTALLATION

BARNDOOR INSTALLATION

1. Flip the retaining clip located near the top of the lens.
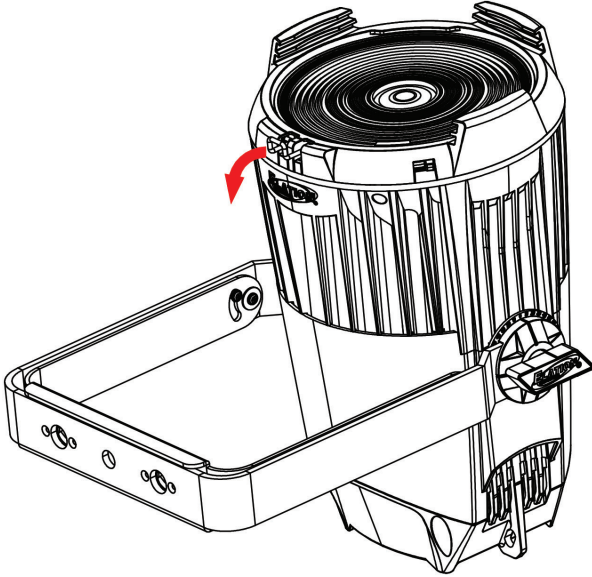
2. Slide the barn door into place in one of the vacant accessory slots on the front of the fixture.
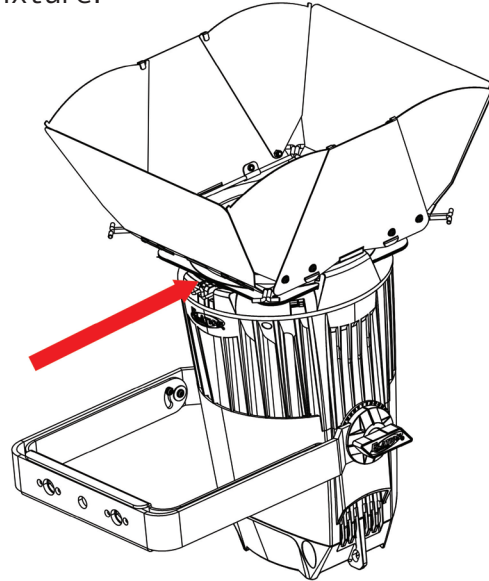
3. Return the retaining clip to the original position to lock the barndoor in place.
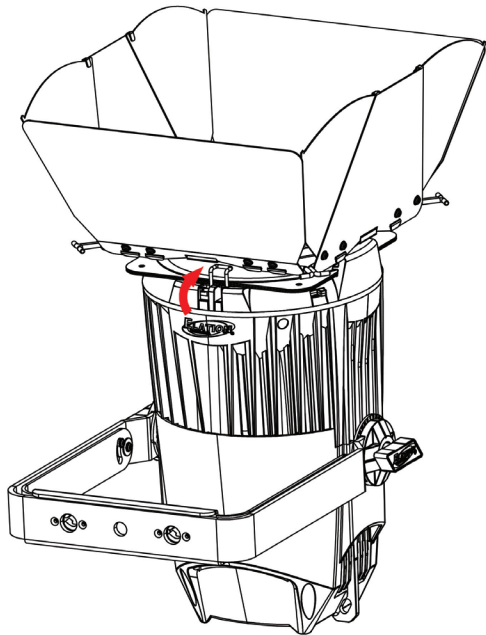
CONTROL PANEL

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 and hold the MODE button for 3 seconds.
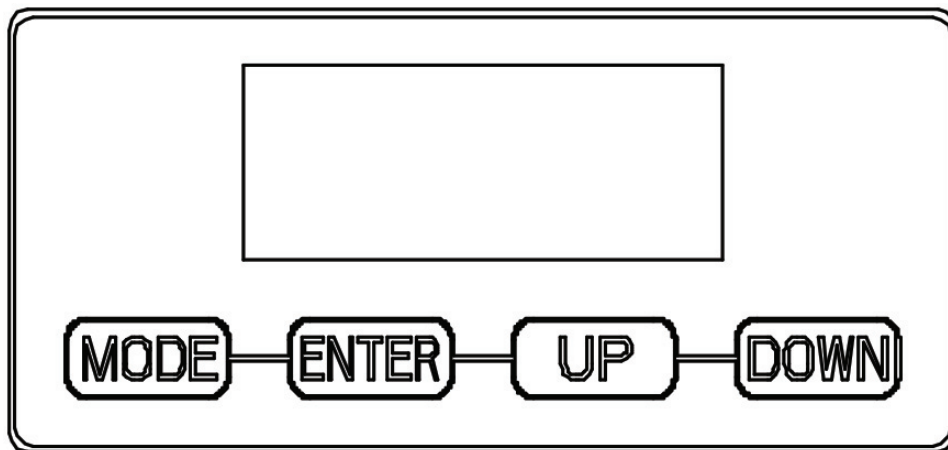
A USB FLASH DRIVE CAN BE USED TO UPDATE THE FIXTURE TO THE LATEST SOFTWARE. Using a USB Flash Drive loaded with the latest software, insert it into the USB Service Port, then navigate to PERSONALITY/SERVICE, enter the passcode (050), and select UPDATE SOFTWARE. A copy of the latest software can be obtained by contacting Elation Support.

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.

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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
0000-FFF	001E	0X22A6	001 DIMMER 01CH 002 DIMMER COLOR 06CH 003 STANDARD 11CH 004 EXTENDED 18CH 005 CMY 09CH 006 CMY EXTENDED 14CH

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	[0x0032] Clear Status ID	[0x0603] Realtime Clock
[0x0200] Sensor Definition	[0x0401] Lamp Hours	[0x1010] Power State
[0x0201] Sensor Value	[0x0402] Lamp Strikes	[0x1031] Preset Playback
[0x0080] Device Model Description	[0x0403] Lamp State	[0x0122] Default Slot Value
[0x0081] Manufacturer Label	[0x0404] Lamp Mode	[0x00B0] Language
[0x0082] Device Label	[0x0405] Device Power Cycles	[0x00A0] Language Capabilities
[0x0015] Comms Status	[0x0500] Display Invert	[0x0030] Status Messages
[0x0031] Status ID Description	[0x0501] Display Level	[0x1001] Reset Device

SYSTEM MENU

ELATION KL PAR FC			
Supports Software Versions: 1.03			
ENCODER MODE	Disabled	For use when running fixture in DMX mode	
	Dimmer	For use when running fixture in dimmer mode	
	Int CCT Grn	For use when running fixture in CCT mode with encoder control	
	Int Color Sat	For use when running fixture in color mode with encoder control	
	Manual Control	For use when running fixture in manual control mode with encoder control	
DMX SETTINGS	DMX Address	**001** - 512	
	DMX Mode	**1CH Dimmer**	
		6CH Dimmer Color	
		11CH Standard	
		18CH Extended	
		9CH CMY	
		14CH CMY Ex	
	No DMX Status	**Hold Last**	
		Fade to Black	
		Standalone	
STANDALONE	Dimmer	000% - **100%**	
	CCT	2400K - 8500K (Default = **6000K**).	
	Green Shift	-100% ~ +100% (Default = **0**)	
	Virtual Color	See **Color Macros**	
PERSONALITY	Primary	On / **Off**	
	Secondary	On / **Off**	
	Dim Modes	Standard	
		Stage	
		TV	
		Architectural	
		Theatre	
		Stage 2	
		Dim Speed	0s - 10s (Default = **0.1s**)
	Dim Curves	**Linear**	
		Square	
		Square Inverse	
		S-Curve	

SYSTEM MENU

ELATION KL PAR FC			
Supports Software Versions: 1.03			
PERSONALITY	LED Refresh Rate	900Hz - 1500Hz, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz (Default = **1200 Hz**)	
	LED Power Limit	50%	
		60%	
		70%	
		80%	
		90%	
		100%	
	Fan Mode	**Auto**	
		Silent	
		High	
	Display	Screen Delay	10s - 5min (Default = **1 min**)
		Screen Lock	**Off**, 10s - 5 min
		Rotate Display	Yes / **No** / Auto
	Service (Passcode = 050)	Calibration	Red 000 - 255
			Green 000 - 255
			Blue 000 - 255
			Mint 000 - 255
			Amber 000 - 255
		Update Software	On / **Off**
		Factory Restore	Yes / **No**
		Edit RDM UID	
INFORMATION	Life Time		
	Last Run Time		
	Time Reset	Passcode = 038	
	Temperature	Current	
		Max Resettable	
		Reset	Passcode = 038
	DMX Values	Red	
		Green	
		...	
	Product IDs	RDM UID	
	Error Logs	Fixture Errors	
		Reset Error Log	Yes / **No** (Passcode = 050)
	Software Version		

ENCODER FUNCTION

When the device has been set to Encoder mode, the lighting display can be adjusted using the knob located beside the display screen on the back of the device.

To enter Encoder mode, select the ENCODER MODE option from the main system menu, as described in the System Menu section of this manual. Then use the UP and DOWN buttons to scroll through the different modes. Each mode is represented by one of the tables below. Press ENTER to select the mode that is currently dispalyed.

Once an Encoder Mode has been selected, press the knob to cycle through the available Parameter options. When the desired Parameter is displayed on the screen, simple turn the knob to adjust the value of that Parameter.

DIMMER MODE			
PARAMETER	VALUE	RESOLUTION	DEFAULT
Intensity	Intensity 0-100%	1%	0%

INT CCT GRN MODE			
PARAMETER	VALUE	RESOLUTION	DEFAULT
Intensity	Intensity 0-100%	1%	0%
Color Temperature	CCT 2400 - 8500K	100K	6000K
Green Shift	GRN -100% to +100%	1%	Neutral

INT COLOR SAT MODE			
PARAMETER	VALUE	RESOLUTION	DEFAULT
Intensity	Intensity 0-100%	1%	0%
Color	Virtual Color 1, 2, 3, 4...	Single Color	
Saturation	Sat 0 - 100%	1%	100%

MANUAL CONTROL MODE			
PARAMETER	VALUE	RESOLUTION	DEFAULT
Intensity	Intensity 0-100%	1%	100%
Strobe	Strobe 0-255	1	0
Red	Red 0-255	1	0
Green	Green 0-255	1	0
Blue	Blue 0-255	1	0
Mint	Mint 0-255	1	0
Amber	Amber 0-255	1	0

FAN CONTROL AND LOW NOISE OPERATION

The KL PAR FC is a high-performance fixture suited for multiple applications. For noise critical environments such as Theater, Opera, or Orchestral Halls, it offers various fan operation modes which remove unwanted noise distractions for the audience and performers. Fan Modes can be changed remotely via the DMX control channel, allowing the fixture to offer high output or whisper-silent operation at a moment's notice. All Fan Modes smoothly transition over a

Auto (Default) – Fans only run at the speeds needed to keep the LED engine within a safe temperature range, and ensures optimal performance of the fixture. They will turn off if possible; for example, when the fixture is dimmed to a low intensity. Fans sense the ambient and fixture temperature and will, at all times, try to keep noise levels at a minimum. The fixture output will only be reduced when the LED engine cannot be cooled to its safe operating range due to a high ambient temperature.
NOTE: This mode is recommended for daily operation.

Low - 75-80% max output, fans run at low speed.

High – Fan speeds are increased throughout the fixture for the most efficient cooling. This mode will increase wear on the fans and should only be utilized in exceptional circumstances. Fans will always run, even if the fixture is dimmed. Fixture output is kept at 100% unless the LED engine temperature reaches an unsafe temperature, at which point the fixture will reduce power carefully to ensure continued safe operation. This mode is only required in very high ambient temperatures when automatic fan speed adjustments are not desired.

DMX CHANNEL FUNCTIONS

Dimmer 1CH	Dimmer Color 6CH	Standard 11CH	Extended 18CH	CMY 9CH	CMY Extended 14CH	DMX Values	Function
ELATION KL PAR FC						
Supports Software Versions: 1.03						
1	1	1	1	1	1	000 - 255	**Dimmer,** 0% to 100%
	2	2	2	2	2	000 - 255	**Dimmer Fine**
							Strobe
						000 - 031	Shutter closed
						032 - 063	No function (shutter open)
						064 - 095	Strobe effect, slow to fast
3	3	3	3	3	3	096 - 127	No function (shutter open)
						128 - 159	Pulse effect (in sequence)
						160 - 191	No function (shutter open)
						192 - 223	Random strobe effect, slow to fast
						224 - 255	No function (shutter open)
				4	4	000 - 255	**Cyan,** 0% - 100%
					5	000 - 255	**Cyan Fine**
				5	6	000 - 255	**Magenta,** 0% - 100%
					7	000 - 255	**Magenta Fine**
				6	8	000 - 255	**Yellow,** 0% - 100%
					9	000 - 255	**Yellow Fine**
		4	4			000 - 255	**Red,** 0% - 100%
			5			000 - 255	**Red Fine**
		5	6			000 - 255	**Green,** 0% - 100%
			7			000 - 255	**Green Fine**
		6	8			000 - 255	**Blue,** 0% - 100%
			9			000 - 255	**Blue Fine**
		7	10			000 - 255	**Mint,** 0% - 100%
			11			000 - 255	**Mint Fine**
		8	12			000 - 255	**Amber,** 0% - 100%
			13			000 - 255	**Amber Fine**

DMX CHANNEL FUNCTIONS

Dimmer 1CH	Dimmer Color 6CH	Standard 11CH	Extended 18CH	CMY 9CH	CMY Extended 14CH	DMX Values	Function
ELATION KL PAR FC						
Supports Software Versions: **1.03**						
							CTO
						000 - 023	Open
4	9	14	7	10		024 - 085	CTO 2400K - 8500K (see **Color Temperature Table**)
						086 - 255	8500K
							Color Wheel
						000	Open
						001 - 179	Virtual Swatch Book (see **Virtual Swatch Book Table**)
							Color Scroll
						180 - 201	Clockwise, fast to slow
5	10	15	8	11		202 - 207	Stop
						208 - 229	Counter-clockwise, slow to fast
						230 - 234	Open
							Random Slots
						235 - 239	Fast
						240 - 244	Medium
						245 - 249	Slow
						250 - 255	Open
							Green Shift
						000	Idle
		16		12		001 - 127	Full Minus Green to Neutral
						128	Neutral White
						129 - 255	Neutral to Full Plus Green
							Dim Modes
						000 - 020	Standard
						021 - 040	Stage
		17		13		041 - 060	TV
						061 - 080	Architectural
						081 - 100	Theatre
						101 - 120	Stage 2

DMX CHANNEL FUNCTIONS

ELATION KL PAR FC							
Supports Software Versions: 1.03							
Dimmer 1CH	Dimmer Color 6CH	Standard 11CH	Extended 18CH	CMY 9CH	CMY Extended 14CH	DMX Values	Function
							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
			17		**13**	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
							Control
						000 - 029	Idle
						030 - 039	Fan Mode Auto
6	11	18	9	14		040 - 049	Fan Mode Silent
						050 - 059	Fan Mode High
						060 - 099	Idle

DMX CHANNEL FUNCTIONS

Dimmer 1CH	Dimmer Color 6CH	Stan-dard 11CH	Extend-ed 18CH	CMY 9CH	CMY Extend-ed 14CH	DMX Values	Function
							ELATION KL PAR FC
							Supports Software Versions: 1.03
							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
6	11	18	9	14		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

DMX CHANNEL FUNCTIONS

ELATION KL PAR FC							
Supports Software Versions: 1.03							
Dimmer 1CH	Dimmer Color 6CH	Standard 11CH	Extended 18CH	CMY 9CH	CMY Extended 14CH	DMX Values	Function
	6	11	18	9	14		**Refresh Rate (Hz)** (continued)
						132	1220
						133	1230
						134	1240
						135	1250
						136	1260
						137	1270
						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

DMX CHANNEL FUNCTIONS

ELATION KL PAR FC							
Supports Software Versions: 1.03							
Dimmer 1CH	Dimmer Color 6CH	Stan-dard 11CH	Extend-ed 18CH	CMY 9CH	CMY Extend-ed 14CH	DMX Values	Function
							Refresh Rate (Hz) (continued)
						163	5000
						164	6000
						165	10000
						166	15000
						167	20000
						168	25000
						169 - 200	Idle
	6	11	18	9	14	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

DIMMER MODES & CURVES

DIMMER
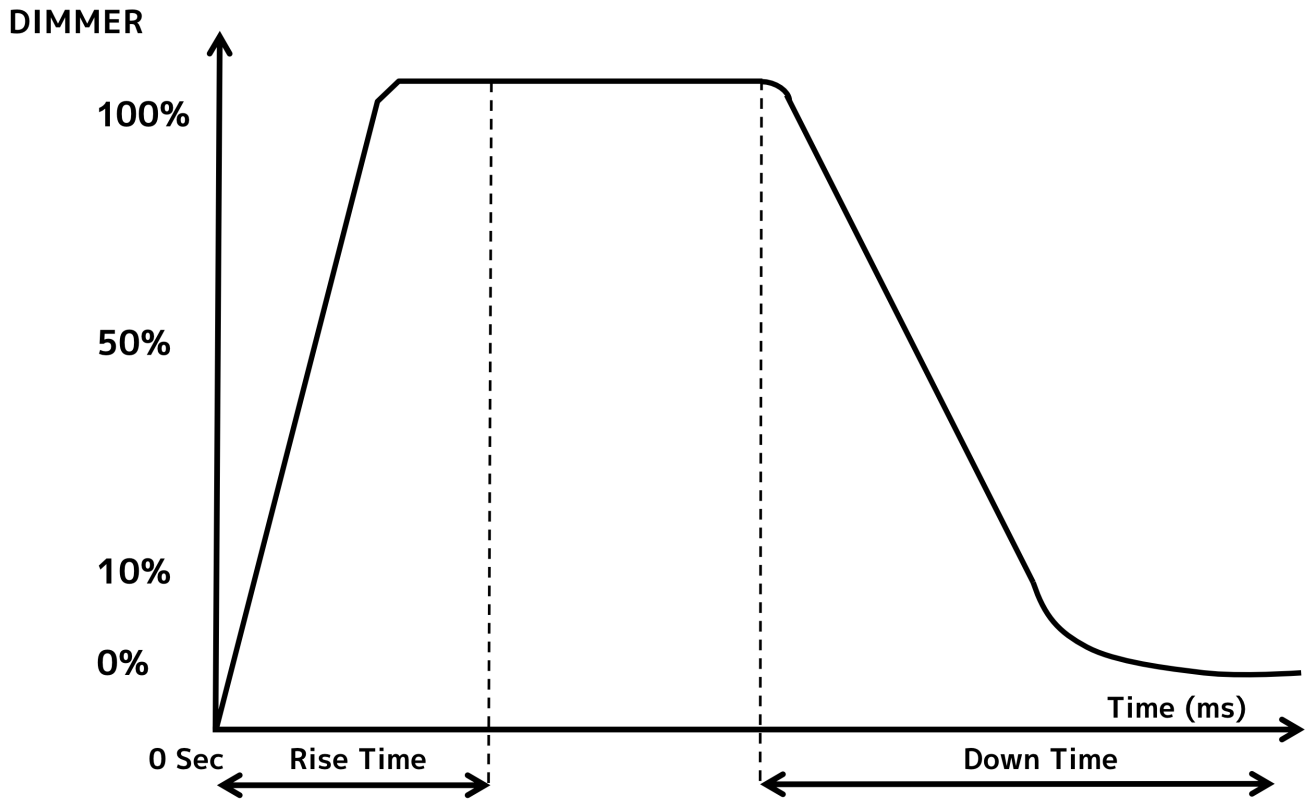
	0 sec Fade Time		1 sec Fade Time	
Dimming Curve Ramp Effect	(graph)	255	(graph)	255
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660

LINEAR

SQUARE

INVERSE SQUARE

S-CURVE
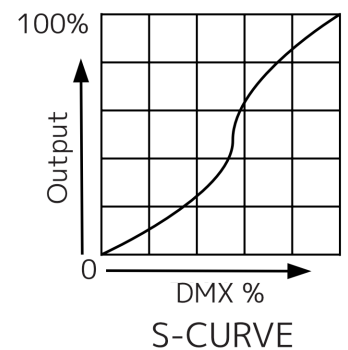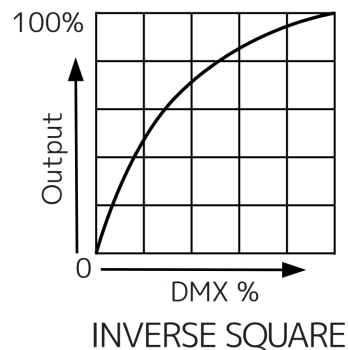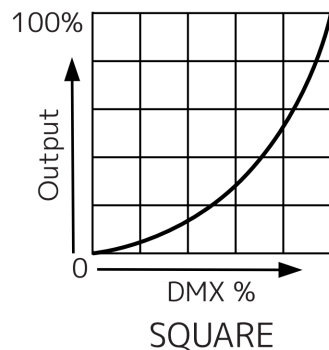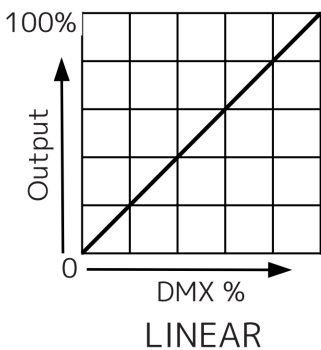
COLOR TEMPERATURE CHART

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		

COLOR MACROS CHART

DMX Values	Filter Number	Name	DMX Values	Filter Number	Name
1	7	Pale Yellow	28	113	Magenta
2	103	Straw	29	46	Dark Magenta
3	151	Gold Tint	30	48	Rose Purple
4	100	Spring Yellow	31	126	Mauve
5	10	Medium Yellow	32	49	Medium Purple
6	101	Yellow	33	58	Lavender
7	104	Deep Amber	34	199	Palace Blue
8	15	Deep Straw	35	119	Dark Blue
9	179	Loving Amber	36	132	Medium Blue
10	21	Gold Amber	37	120	Deep Blue
11	105	Orange	38	165	Daylight Blue
12	158	Deep Orange	39	161	Slate Blue
13	22	Dark Amber	40	118	Light Blue
14	778	Millennium Gold	41	68	Sky Blue
15	135	Deep Golden Amber	42	143	Pale Navy Blue
16	24	Scarlet	43	131	Marine Blue
17	106	Primary Red	44	115	Peacock Blue
18	26	Bright Red	45	172	Lagoon Blue
19	27	Medium Red	46	116	Medium Blue Green
20	19	Fire	47	90	Dark Yellow Green
21	157	Pink	48	139	Primary Green
22	36	Medium Pink	49	122	Fern Green
23	111	Dark Pink	50	89	Moss Green
24	128	Bright Pink	51	124	Dark Green
25	148	Bright Rose	52	88	Lime Green
26	332	Special Rose Pink	53	138	Pale Green
27	793	Vanity Fair	54-179		No function

DIMENSIONAL DRAWINGS

Ø0.51in. [Ø13.0mm]

4.17in. [106.0mm]

10.87in. [276.0mm]
9.76in. [248.0mm]

11.22in. [285.0mm]
15.49in. [393.5mm]

Ø8.54in. [Ø217.0mm]

7.52in. [191.0mm]
13.94in. [354.0mm]

18.74in. [476.0mm]
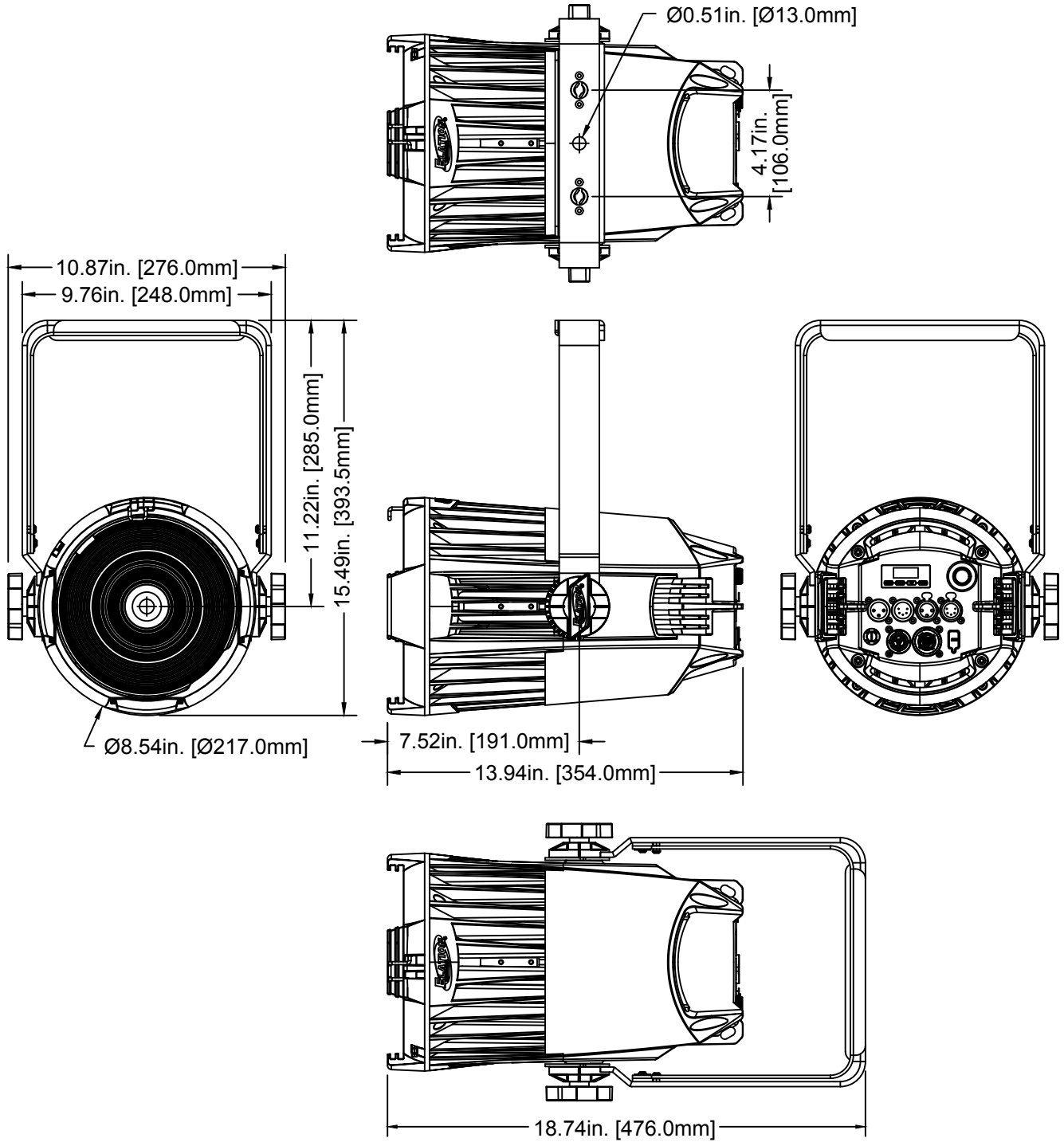
SPECIFICATIONS

SOURCE
280W 6500K RGBMA LED Engine
50,000 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
11.000 Total Lumen Output
CRI 92
TLCI 95

INCLUDED LENSES
VNSP (11°)
NSP (22°)
MFL (30°)
WFL (52°)

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

COLOR
RGBMA Color Array
CMY Emulation
Variable CCT 2400K - 8500K
Green/Magenta Shift
Virtual Gel Swatch Book

CONTROL / CONNECTIONS
6 DMX Channel Modes (1, 6, 11, 18, 9, 14)
Manual and DMX Controlled Dimmer and Color
Single Rotary Dial
4 Button Control Panel, LED Display
RDM (Remote Device Management)
3/5pin DMX and IP65 Locking Power Cable In/Out

SIZE / WEIGHT
Length: 10.85" (276mm)
Width: 13.94" (354mm)
Vertical Height: 15.49" (393mm)
Weight: 16.27 lbs. (7.38kg)

ELECTRICAL / THERMAL
AC 100-240V - 50/60Hz
284W Max Power Consumption
5°F to 113°F (-15°C to 45°C)
BTU/hr (+/- 10%) 891.76

INCLUDED ITEMS
7.5" Gel Frame
4 Lenses (11°, 22°, 30°, 52°)
IP65 Locking Power Cable

OPTIONAL ITEMS
7.5" Barndoors
XWFL (90°) Lens
Glass Lens
#8050000053 (Omega Bracket)

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

Specifications and documentation subject to change without notice.

ORDERING INFORMATION

SKU US/EU	ITEM DESCRIPTION
KLP500 / 1236100142	KL PAR FC
KLP555 / PENDING	KL PAR FC WH
KLP959 / 1236100143	7.5" Barndoors
KLP988 / 1236100145	Glass Lens
KLP987 / 1236100144	XWFL Lens
8050000053	Omega Bracket

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 deter- mined 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.
* •ncrease 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!