



KL FRESNEL 6 CW PO

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 check www.elationlighting.com for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	Software Version	DMX Channels	Notes
06/26/2020	1.0	1.03	1/2/3/4/5 ch.	Initial Release
10/26/2022	1.1	1.04	No change	Added RDM; updated Installation Instructions, System Menu, Encoder Knob, 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.

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 that 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

Rotating Barn Doors (x1)
Junior Pin (x1)
Gel Frame (x1)
Locking 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

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REPLACEMENT PARTS - please visit parts.elationlighting.com

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

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 war-ranty 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 packag-ing 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 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 prod-uct 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 manu-factured.
- 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 war-ranties made by Elation Professional in connection with this product, including warranties of mer-chantability or fitness, are limited in duration to the warranty periods set forth above. And no war-ranties, 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 accompanied by 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 an R.A. number clearly marked on the out-side of the package will be refused and returned at customer's expense. You may obtain an R.A. number by contacting customer support.

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 injuries 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, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.



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!



DO NOT EXPOSE THIS UNIT TO RAIN AND/OR MOISTURE! THIS FIXTURE IS INTENDED FOR USE IN DRY, INDOOR ENVIRONMENTS ONLY!

SAFETY GUIDELINES

- DO NOT TOUCH the fixture housing during operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before servicing.
- DO NOT expose the fixture to rain or moisture, or spill liquids into or onto the fixture! The fixture is intended for use in dry, indoor environments only!
- DO NOT shake fixture, and avoid using brute force when installing and/or operating the fixture.
- DO NOT operate the fixture if the power cord is frayed, crimped, damaged, and/or if any
 of the power cord connectors are damaged and do not plug 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 the same power rating.
- DO NOT block any air ventilation slots.
- All fan and air inlets must remain clean and never blocked.
- Leave approx. 6" (15cm) between the fixture and other devices or a wall in order to allow for proper cooling.
- When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always install fixture with an appropriately rated safety cable.
- Always disconnect the fixture from the main power source before performing any type of service and/or cleaning procedure.
- Only handle the power cord by the plug end. Never pull out the plug by tugging on 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. This 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.

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. Periodically clean the external lens surface with a soft cloth to avoid dirt/debris accumulation. **NEVER** use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

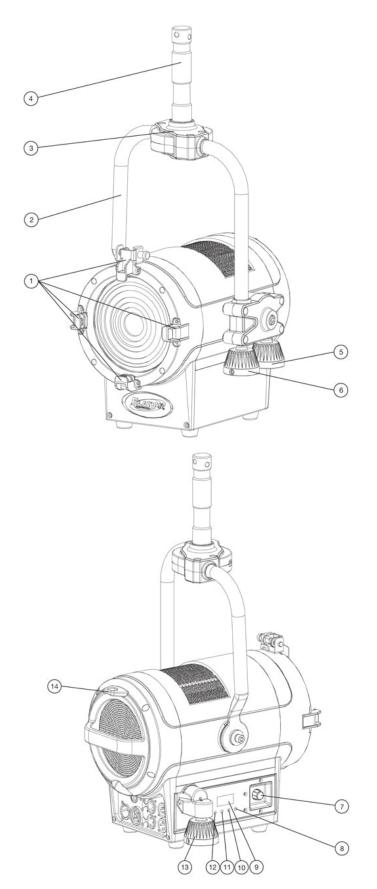
Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation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

Please refer to the following points during routine inspections:

- A detailed 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 or moisture 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.

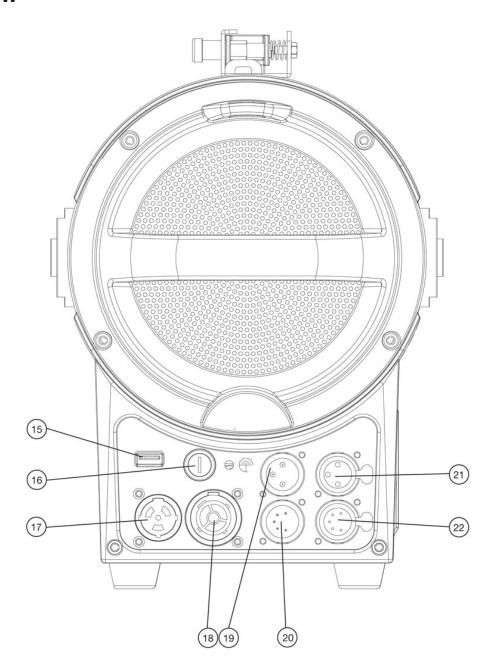
OVERVIEW



- 1. Barn Door Installation Slots
- 2.
- Mounting Yoke
 Clamp Mounting Point
 Junior Pin (installed)
 Tilt Adjustment Knob 3.
- 5.
- Pan Adjustment Knob

- Dimmer Adjustment Knob 7.
- Enter Button 8.
- Display Screen
- 10. Down Button
- 11. Up Button
- 12. Mode Button
- 13. Zoom Adjustment Knob14. Safety Cable Rigging Point

OVERVIEW



- 15. Service Port
- 16. Fuse T3A / 250V
- 17. Power In
- 18. Power Out

- 19. 3-pin DMX In 20. 5-pin DMX In 21. 3-pin DMX Out 22. 5-pin DMX Out

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. CHECK SILK SCREEN FOR MAX AMPS.



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.

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

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

NEVER stand directly below the fixture(s) when rigging, removing, or servicing.

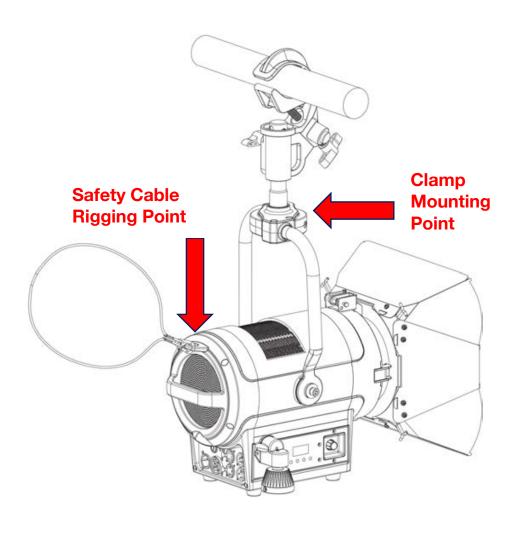
Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable that meets all local, national, and country codes and regulations.

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

INSTALLATION GUIDELINES

CLAMP INSTALLATION

This fixture includes an adjustable mounting yoke with an integrated clamp mounting point, as well as an additional safety cable rigging point attached to the body of the fixture (see the illustration below). When mounting this fixture to truss, be sure to secure an appropriately rated clamp (not included) to the clamp mounting point on the yoke and attach a separate SAFETY CABLE of the appropriate rating (not included) to the safety cable rigging point on the fixture.





SAFETY CABLE:

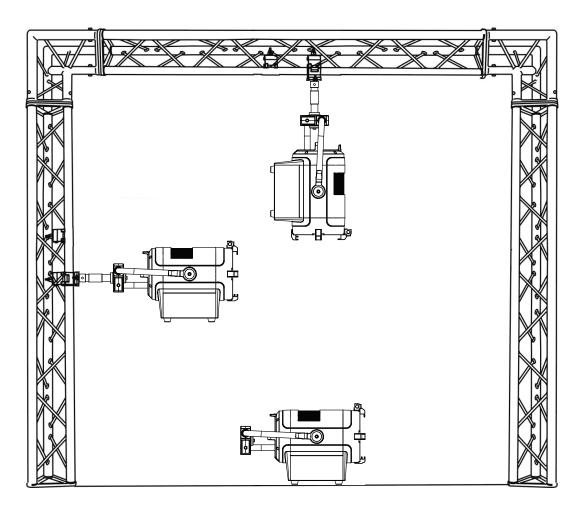
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

INSTALLATION GUIDELINES

RIGGING

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

The fixture is fully operational in the following positions: hanging from a horizontal truss, suspended sideways from a vertical truss, or standing upright on a flat, level surface. See the illustration below for reference.



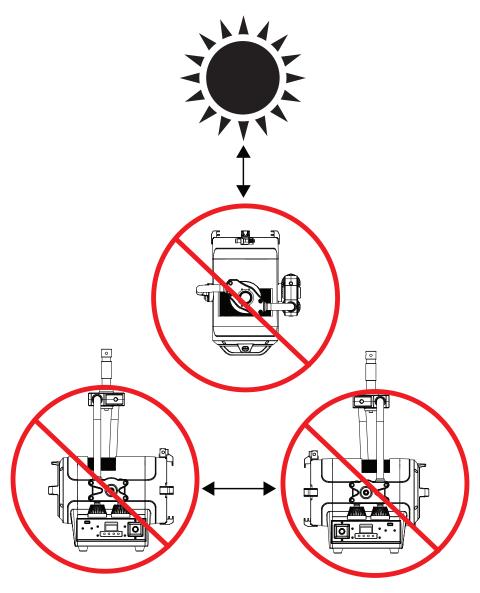
INSTALLATION INSTRUCTIONS

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, lighting and 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 of 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, but rather 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 reduce the risk of potential damage. Contact Elation Service for more details.

DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING OR MOVING HEAD FIXTURES, AND LASERS DURING UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.

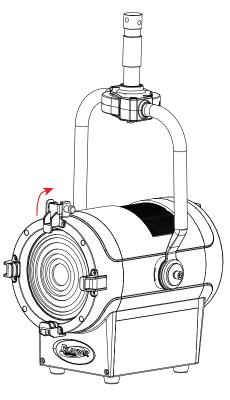


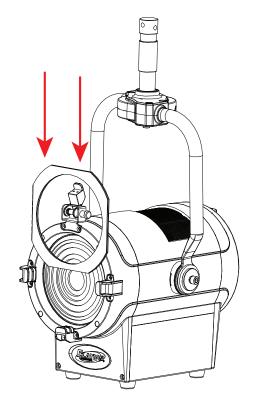
ACCESSORY INSTALLATION

GEL FRAME

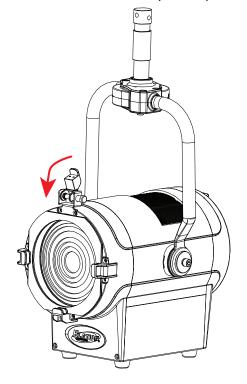
This fixture includes a removable gel frame, which can be installed by following the steps shown below.

- 1. Release the lock on the lens frame latch, and flip the latch upward.
- 2. Slide the gel frame into place in the slot in front of the fixture lens.





3. Flip the lens frame latch back down, making sure it clicks securely into place.



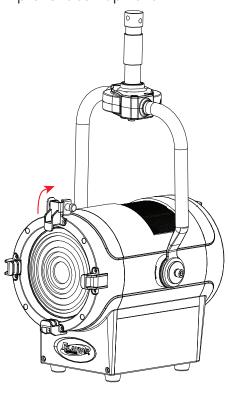
ACCESSORY INSTALLATION

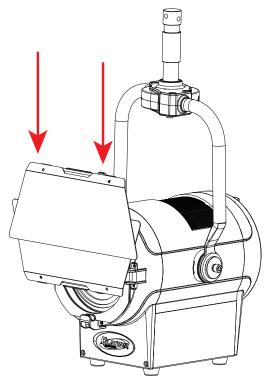
BARNDOORS

This fixture includes removable set of barndoors, which can be installed by following the steps shown below.

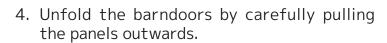
1. Release the lock on the lens frame latch, and flip the latch upward.

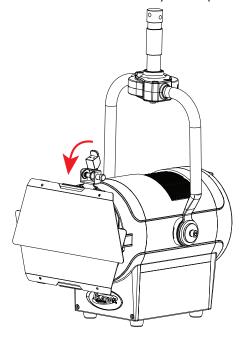


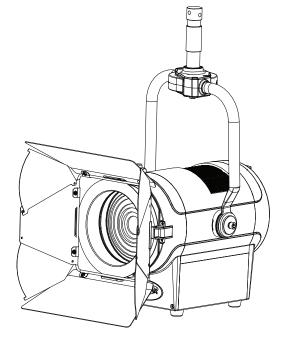




3. Flip the lens frame latch back down, making sure it clicks securely into place.







REMOTE DEVICE MANAGEMENT (RDM)

NOTE: In order for RDM to work properly, RDM enabled equipment must be used throughout the entire system, including DMX data splitters and wireless systems.

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, allowing the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is not easily accessible.

With RDM, the DMX512 system becomes bi-directional, allowing a compatible RDM enabled controller to send out a signal to devices on the wire, as well as allowing the fixture to respond (known as a GET command). The controller can then use its SET command to modify settings that would typically have to be changed or viewed directly via the unit's display screen, including the DMX Address, DMX Channel Mode, and Temperature Sensors.

FIXTURE RDM INFORMATION:

RDM Code	Device ID	Device Model ID	Personality ID
			001 Dimmer
			002 16Bot
22A6	0000-FFFF	1035	003 3Ch
			004 Standard
			005 Extended

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.

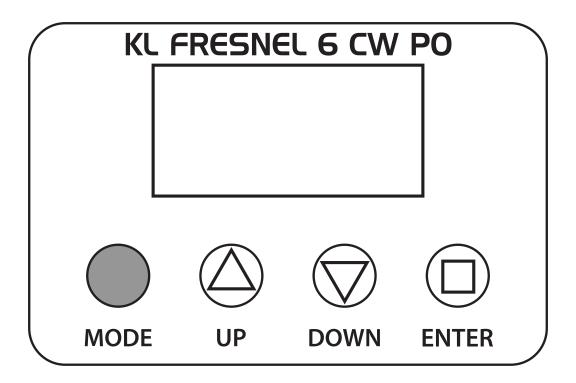
The following parameters are available on this device:

Sensor Definition	Pan Tilt Swap
Sensor Value	Display Invert
Device Model Description	Display Level
Manufacturer Label	Real Time Clock
Device Label	Power State
DMX Personality	Preset Playback
DMX Personality Description	Default Slot Value
Device Hours	Language
Comms Status	Language Capabilities
Status ID Description	Boot Software Version Label
Clear Status ID	Boot Software Version ID
Lamp Hours	Product Detail ID List
Lamp On Mode	Status Messages
Device Power Cycles	Reset Device

CONTROL PANEL

The fixture includes an easy to navigate system menu. The control panel (see image below) located on the side of the fixture provides access to the main system menu, where all necessary system adjustments can be made. During normal operation, pressing the MODE button once will access the fixture's main menu. From 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, then 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 MODE button.

The display screen will automatically turn off after 30 seconds of inactivity.



SYSTEM MENU

ELATION KL FRESNEL 6 CW PO SYSTEM MENU

Supports Software Versions: 1.04

Features subject to change without notice.
Rotation direction (clockwise/counter-clockwise) and control of effects depend on head orientation and pan/tilt settings.

MAIN MENU	SUB MENU	OPTIONS / VALUES		DESCRIPTION
ADDRESS	Address: xxx	001 - 511		Set DMX address
	Dimmer			
	Dimmer 16bit			
USER MODE	3CH			
	Standard	,		
	Extended	,		
	Status	Lost DMX		
		Display	On / Off	30s screen saver setting
		Key Lock	On / Off	Display menu button lock
	LCD Set	Flash	On / Off	Display flashes when no signal is detected
		Invert	On / Off	Flip screen display 180 deg
	Temp C / F	C / F	<u>'</u>	Set temperature units
	·	Standard		
		Stage		
	Dim Mode	TV		
		Architec		
		Theatre		
		Stage 2		
		0.0s		
UNCTION		0.1s		
-UNCTION				
		10s		
		ADDR		
	Disp Set	Disp Ch		
		Secondry		
			Auto	
	Fan Set	LED Fan	High	
			Low	
		Linear		
	D: C	Square		
	Dim Curve	Inv Square		
		S Curve		
	Frequen	Hz, 1400 Hz, 15	z, 1100 Hz, 1200 Hz, 1300 00 Hz, 2500 Hz, 4000 Hz, z, 15 KHz, 20 KHz, 25 KHz	

CONTINUED ON NEXT PAGE

SYSTEM MENU

MAIN MENU	SUB MENU	OPTIONS / VAL	.UES	DESCRIPTION
FUNCTION	USB Data	On / Off		Power on USB port to update device
(continued)	Primary	On / Off	'	Primary mode switch
	DFSE	On / Off		Reset to default settings
		Current		Current run time (hours)
		Total		Fixture total run time (hours)
	Time Info	Last		Run time since last cleared (hours)
INFO		Clear	On / Off	Password = 050/60
	Temp Info	LED Temp xxx C / xxx F		
	Err Info	None,	*	
	Model Inf	KL F6 CW PO		
	Software	Vx.xx		
TECT	Man Ctrl	Dimmer	000 - 255	
TEST	Man Ctrl	Strobe	000 - 255	

FAN CONTROL

The KL Fresnel 6 CW PO 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 brief period, preventing unwanted attraction to the fixture.

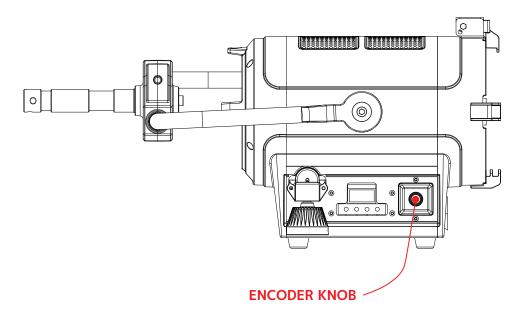
Auto (Default) – Fans only run at the speeds needed to keep the LED engine within a safe temperature range, and ensures optimal performance of the fixture. They will turn off if possible; for example, when the fixture is dimmed to a low intensity. Fans sense the ambient and fixture temperature and will, 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.

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.

Low - For very critical noise environments, the fixture offers two additional Low Noise Modes for silent operation. The fixture output will be reduced, yet due to the extremely high luminous flux, the fixture still offers outstanding performance. All parameters of the fixture operate more quietly with reduced fan speeds. Almost all fixture fans are turned off, and only run when absolutely necessary. The fixture LED power output is reduced to 50%.

ENCODER KNOB



This device features an encoder knob located on the side panel beside the display screen, as shown in the illustration above.

This knob allows the user to quickly enter Manual Dimmer Mode by pressing on the knob. The dimming can then be adjusted by turning the knob. To exit Manual Dimmer Mode, use the display screen control buttons to navigate to "User Mode" in the main system menu, and change the user mode to another mode.

Additionally, the user can press and hold the encoder knob for 10 seconds to activate full output for 1 minute. This feature can be used to aid in aiming and/or positioning the fixture, and overrides any DMX-controlled operations.

DMX TRAITS

ELATION KL FRESNEL 6 CW PO DMX CHANNEL TRAITS

Supports Software Versions: 1.04

Features subject to change without notice.
Rotation direction (clockwise/counter-clockwise) and control of effects depends on head orientation and pan/tilt settings.

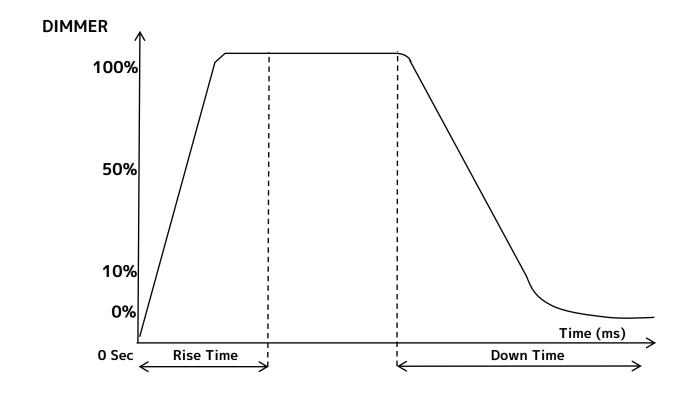
CHANNEL				DAAY		
Dimmer	Dimmer 16bit	3СН	Standard	Extended	DMX VALUES	FUNCTION
1	1	1	1	1	000 - 255	Dimmer Intensity, 0% to 100%
	2		2	2	000 - 255	Dimmer Intensity Fine
						Strobe
					000 - 031	LED Off
					032 - 063	LED On
					064 - 095	Strobe Effect, slow to fast
		2	3	3	096 - 127	LED On
					128 - 159	Pulse Effect, slow to fast
					160 - 191	LED On
					192 - 223	Random Strobe Effect, slow to fast
					224 - 255	LED On
			ĺ			Dimmer Modes
					000 - 020	Standard
					021 - 040	Stage
					041 - 060	TV
					061 - 080	Architectural
					081 - 100	Theatre
					101 - 120	Stage 2
						Dimmer Delay Time
					121	0.0s
					122	0.1s
		3	4		123	0.2s
		5	4	4	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

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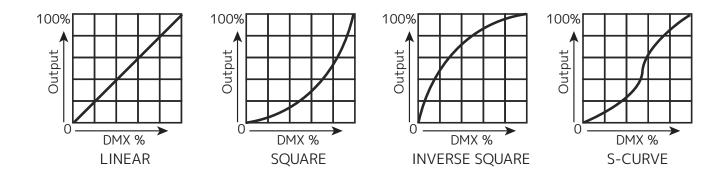
DMX TRAITS

		CHANNEL			DMV													
Dimmer	Dimmer 16bit	3СН	Standard	Extended	DMX VALUES	FUNCTION												
					Dimmer Delay Time (continued)													
					135	4.0s												
					136	5.0s												
					137	6.0s												
		3	4	4	138	7.0s												
					139	8.0s												
					140	9.0s												
					141	10.0s												
					142 - 255	Default												
						Control (hold for 3s)												
					000 - 100	Idle												
						Refresh Rate												
					101 - 105	900 Hz												
					106 - 110	1000 Hz												
					111 - 115	1100 Hz												
					116 - 120	1200 Hz (default)												
																	121 - 125	1300 Hz
															126 - 130	1400 Hz		
					131 - 135	1500 Hz												
					136 - 140	2500 Hz												
				5	141 - 145	4000 Hz												
				3	146 - 150	5000 Hz												
					151 - 155	10,000 Hz												
					156 - 160	15,000 Hz												
					161 - 165	20,000 Hz												
						25,000 Hz												
				171 - 200	Idle													
					Dimmer Curves													
					201 - 210	Linear (default)												
					211 - 220	Square												
						Inverse Square												
					231 - 240	S-Curve												
					241 - 255	Idle												

DIMMER CURVES



Dimming Curve Ramp Effect		de Time 255	1 sec Fade Time 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



SOFTWARE UPDATES



ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION!
NOTE ALL MENU SETTINGS BEFORE UPDATING SOFTWARE!
FIXTURE SOFTWARE CAN NOT BE DOWNGRADED!
DOWNLOAD FIXTURE SOFTWARE TO PC ONLY! (NO MAC SUPPORT)
PLEASE CONTACT ELATION SERVICE FOR FURTHER INFORMATION.

ELATION C-LOADER

An Elation C-Loader can be used to update the fixture to the latest software. Please visit the C-Loader product page at the Elation web site and download the product manual for step by step instructions.

https://www.elationlighting.com/c-loader-software-uploader

To order the C-Loader uploader and the updated software for your fixture, please contact Elation support for details.

STANDARD SERVICE PORT METHOD

- 1. Copy the updated software onto a USB memory stick.
- 2. Reset the fixture(s), then insert the USB memory stick directly into the service port of the fixture.
- 3. In the main menu, navigate to "Personality", then press ENTER.
- 4. Navigate to the "Service" sub-menu, then press ENTER.
- 5. Key in "050" for the password, then press ENTER again.
- 6. Scroll to the "Yes" option, and press ENTER.
- 7. Scroll to the desired software file and press ENTER.
- 8. Select "On" and press ENTER again. The software should now begin copying.

Note: Do NOT interrupt this process, and do NOT remove the USB memory stick until the update has been completed and the fixture has automatically reset and returned to the default menu. Failure to follow these guidelines may render your fixture inoperable.

AUTOMATIC SERVICE PORT METHOD - This method can be used when updating software for a single fixture. Does NOT work for updating multiple linked fixtures.

- 1. Copy updated software onto a USB memory stick.
- 2. Switch off power on the fixture, then plug the USB memory stick into the service port.
- 3. Power the fixture on. The data on the memory stick should automatically be detected.
- 4. Use the UP and DOWN buttons to select the desired software file and press ENTER.
- 5. Select "On" and press ENTER. The software should now begin copying.

Note: Do NOT interrupt this process, and do NOT remove the USB memory stick until the update has been completed and the fixture has automatically reset and returned to the default menu. Failure to follow these guidelines may render your fixture inoperable.

SPECIFICATIONS

SOURCE

150W Cool White LED Engine, 5,600K, 97CRI

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

8,500+ Total Lumen Output 9,269 LUX 861 FC @ 9.8' (3m) (Min. Zoom) 2,334 LUX 217 FC @ 9.8' (3m) (Max. Zoom) Zoom Range 16° - 39° Beam Angle 16.1° - 38° Field Angle 39.1° - 53.9°

EFFECTS

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

COLOR

5,600K Cool White LED

CONTROL / CONNECTIONS

Manual and DMX Controlled Dimmer and Shutter Dimmer and Zoom Rotary Dials (5) DMX Channel Modes (1 / 2 / 3 / 4 / 5) 4 Button Control Panel LCD Menu Display RDM (Remote Device Management) 3/5pin DMX and IP65 Locking Power Cable In/Out With Wired Digital Communication Network

SIZE / WEIGHT

Length: 13.5" (344mm) Width: 10.75" (273mm)

Vertical Height: 15.47" (393mm)

Weight: 18.5 lbs. (8.4kg)

ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz 180W Max Power Consumption 5°F to 113°F (-15°C to 45°C)

Power Linking: 6Pcs @ 110V / 14Pcs @ 240V

APPROVALS / RATINGS

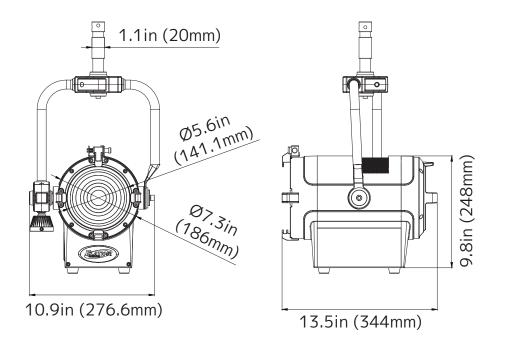
CE I cETLus I IP30

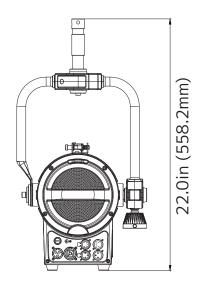


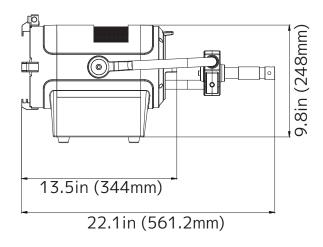


DIMENSIONAL DRAWINGS

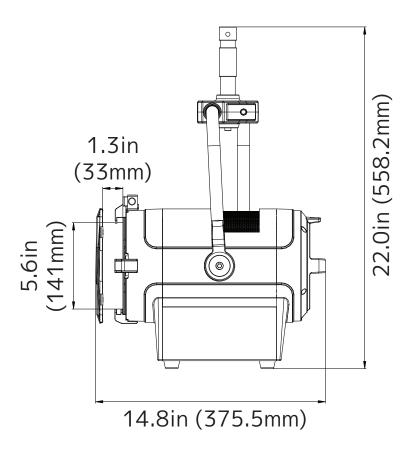
FIXTURE WITH JUNIOR PIN INSTALLED







DIMENSIONAL DRAWINGS BARN DOOR AND JUNIOR PIN INSTALLED



ERROR CODES

When the unit is powered on, it will automatically enter a "Reset/Test" mode, in which the unit runs a brief self-evaluation. If an internal problem is detected, an error code will flash in the be displayed. These codes are listed in the table below.

ERROR CODES Error codes are subject to change without any prior written notice.			
ERROR CODE DESCRIPTION			
Temp error Error with LED temperature.			