ELATION®

KL CYC 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
10/18/2023	1.0	1.0.1A	1ch, 4ch, 4ch, 4ch, 11ch, 12ch, 13ch, 16ch, 19ch, 20ch, 31ch, 32ch, 56ch	Initial Release
03/14/2024	1.1	N/C	No Change	Updated Dimensional Drawings, Specifications
05/09/2024	1.2	1.04	No Change	Updated System Menu, DMX Traits
09/26/2024	1.3	N/C	No Change	Updated Specifications
01/13/2025	1.4	N/C	No Change	Updated Specifications
05/05/2025	1.5	N/C	No Change	Updated DMX Traits
12/15/2025	1.6	N/C	No Change	Updated General Info, Installation Guidelines

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 professional use only.**

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
2x Omega Brackets
1x Lens
1x Adjustable Glare Shield
IP65 Locking Power Cable

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
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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

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.

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, AS 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!
NEVER OPERATE THIS UNIT WITH THE CASING REMOVED!
DISCONNECT POWER BEFORE PERFORMING MAINTENANCE!
NEVER TOUCH DURING OPERATION, AS FIXTURE SURFACES MAY BE HOT!
KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!
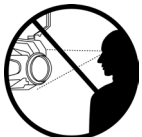
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!

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

THIS FIXTURE IS IP20 RATED, AND HAS BEEN DESIGNED AND TESTED TO PROTECT AGAINST THE INGRESS OF SOLIDS AS SMALL AS THE SIZE OF AN ADULT FINGER (APPROXIMATELY 12.5MM), BUT IS NOT PROTECTED AGAINST LIQUID INTRUSION OF ANY KIND.

SAFETY GUIDELINES

DO NOT TOUCH the fixture housing during operation.

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

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

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

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

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

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

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

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

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

OVERVIEW

Barndoor

Sliding Control
Panel Cover

Safety Cable
Anchor Point

Omega Bracket
Mounting Holes

Adjustable
Glare Shield
and Locking
Thumb Screws

Barndoor

Fuse:
T6.3A/250V

DMX In

DMX Out

Lens Filter Slot
& Sliding Lock

Power In:
AC100-240 50/60Hz

Net In

Net Out

Power Out:
AC100-240 9A

Alignment Magnets

OVERVIEW

Alignment Magnets:
S for South, N for North
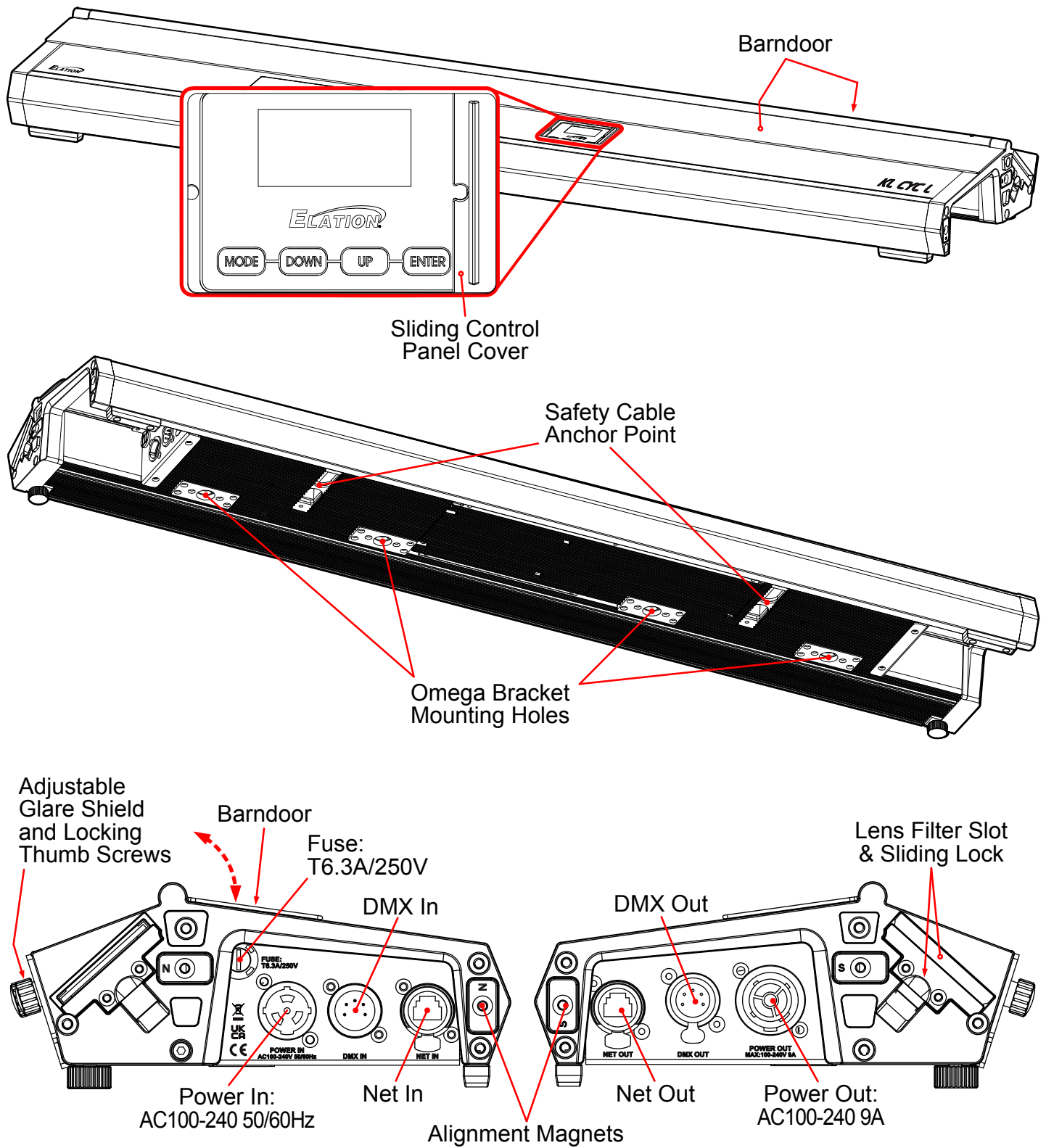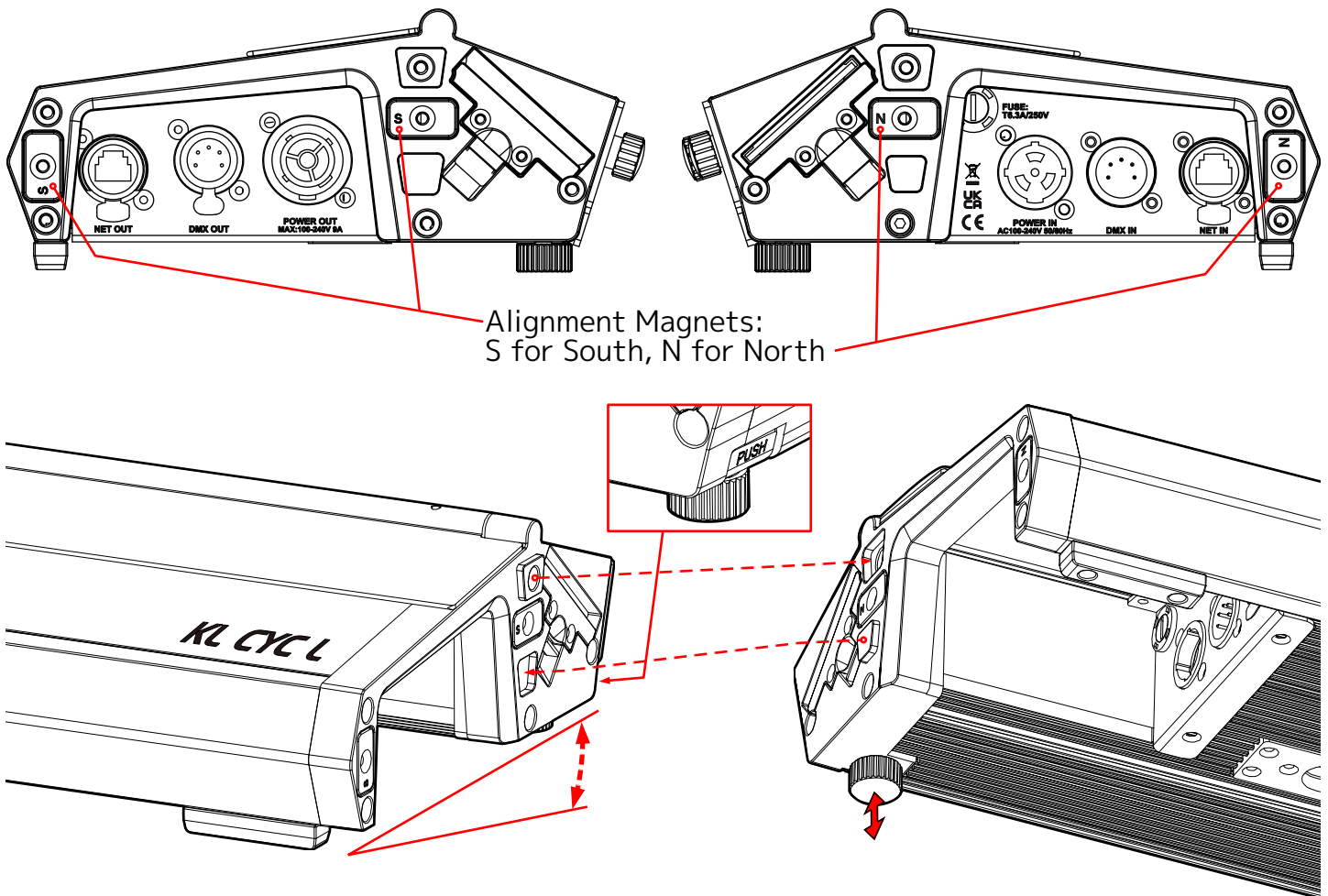
The corollary alignment features of the fixture, magnets, projections, and cavities, are designed to interlock when placed adjacent to each other with the same orientation. The front of the fixture can be raised or lowered to match these interlocking features, or to adjust the projection height of the fixture.

To adjust the fixture's height, follow these steps:
1. Lift the fixture slightly off the surface.
2. Locate the push-button positioned above the front foot.
3. Depress the push-button. This action will cause the foot to lower.
4. Once the foot reaches the desired height, release the button. The foot will lock in place at the selected height.
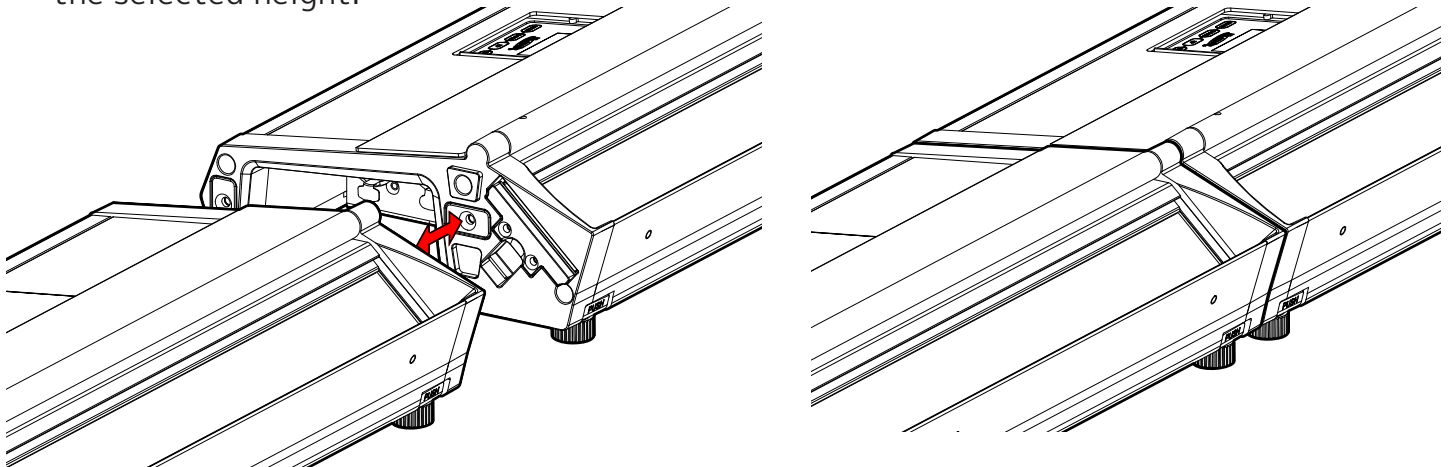
With the heights of adjacent fixtures adjusted to a matching height, orient the alignment features and move them together to allow their magnets to connect them and maintain their relative positions.

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.

INDOOR USE ONLY! THIS DEVICE IS NOT INTENDED FOR OUTDOOR USAGE, OR EXPOSURE TO RAIN OR MOISTURE! USE OF THIS DEVICE OUTDOORS VOIDS YOUR MANUFACTURER'S WARRANTY!

DO NOT PERFORM THE INSTALLATION YOURSELF 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.

Maximum fixture ambient operating temperature is **113°F (45°C).** Do not operate this fixture when ambient temperature exceeds this rating.

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

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

INSTALLATION GUIDELINES

RIGGING

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

OMEGA BRACKETS WITH CLAMP INSTALLATION

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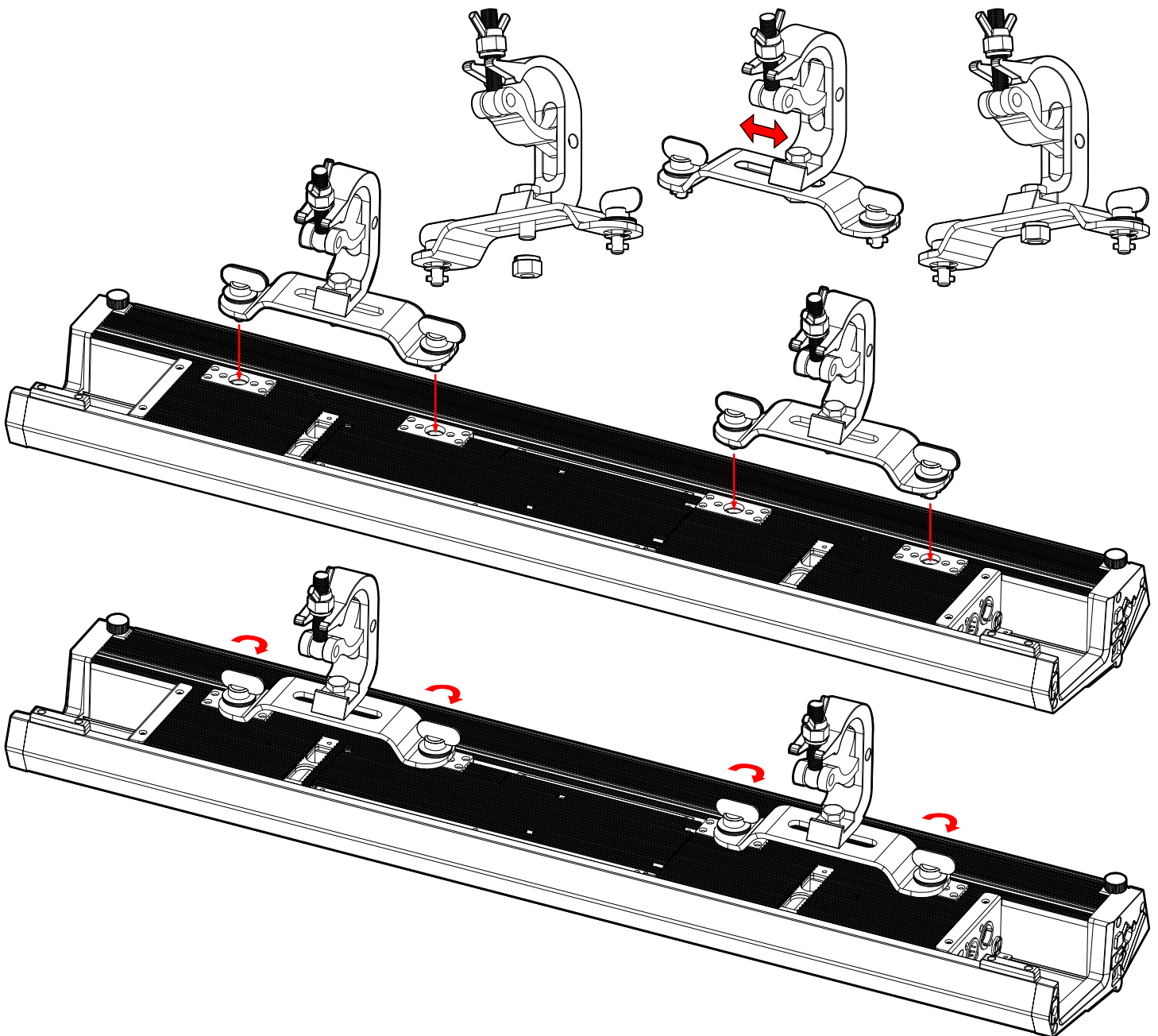
INSTALLATION GUIDELINES

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 included **Omega Brackets** using an M10 screw fitted through the center hole of the **Omega Brackets**. The fixture provides a built-in rigging point for a **SAFETY CABLE** (not included). Be sure to only use one of the designated rigging points for the safety cable and never secure a safety cable to a carrying handle.
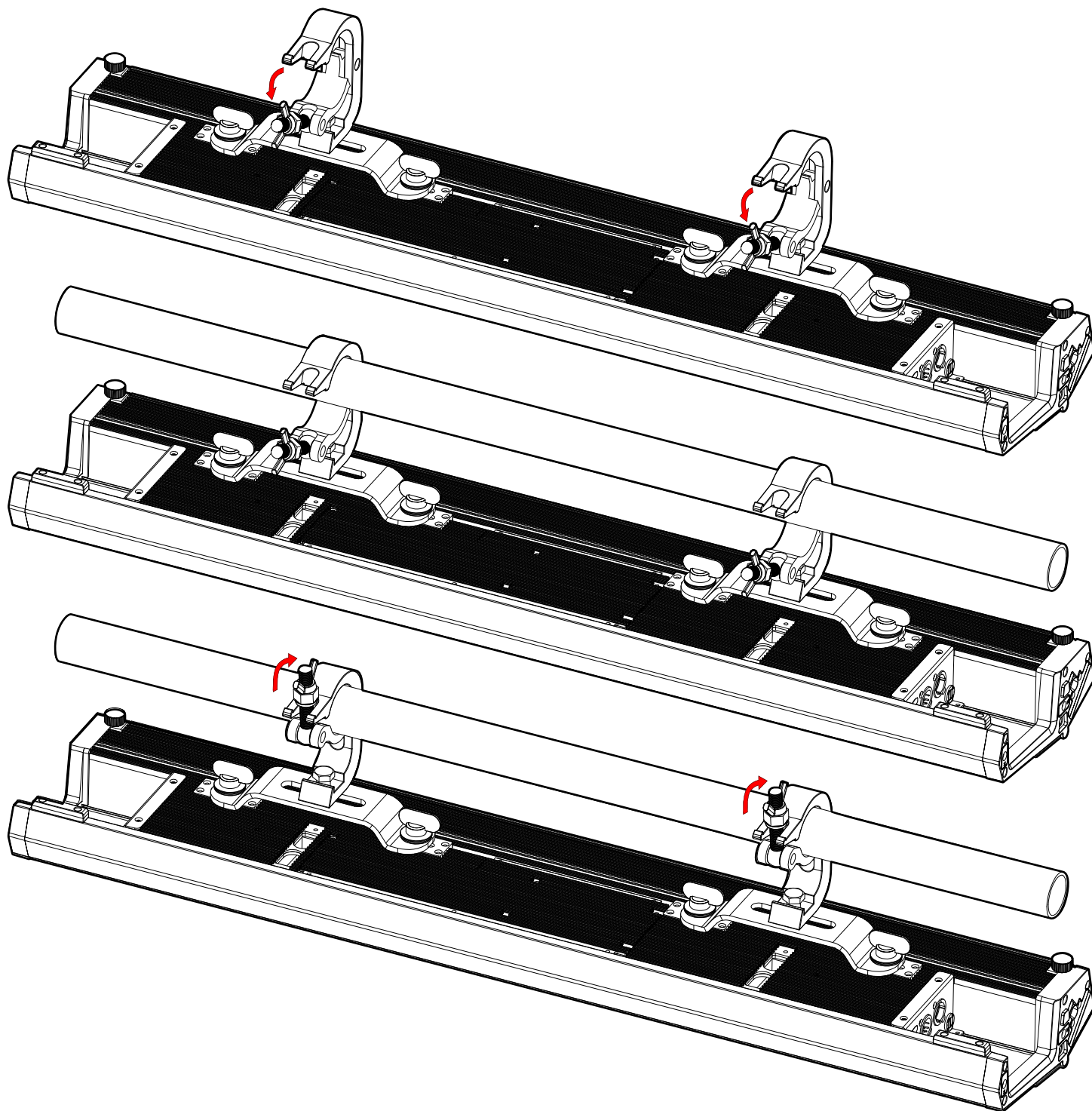
INSTALLATION GUIDELINES

Please note that the designated safety cable rigging point is the only safe location to attach a safety cable! Never attach a safety cable to the mounting clamp bracket!
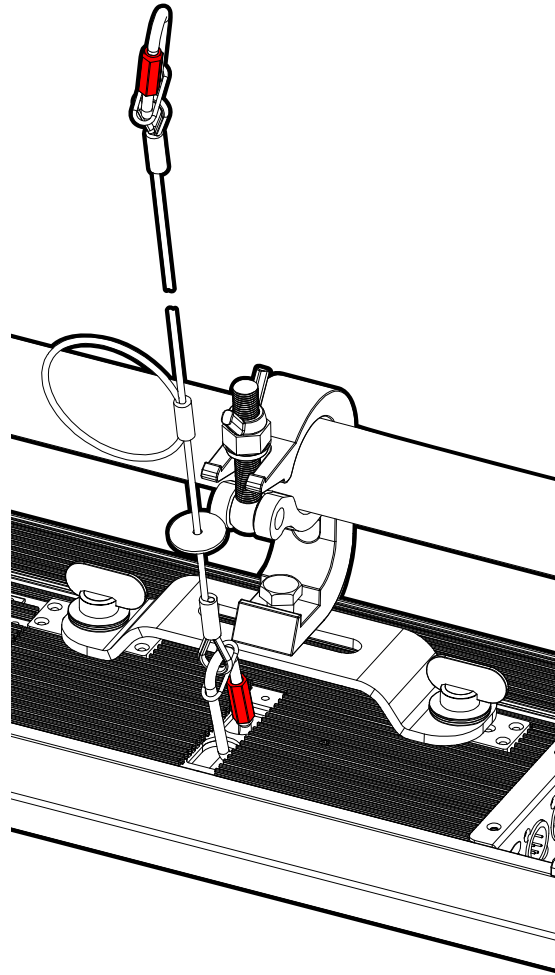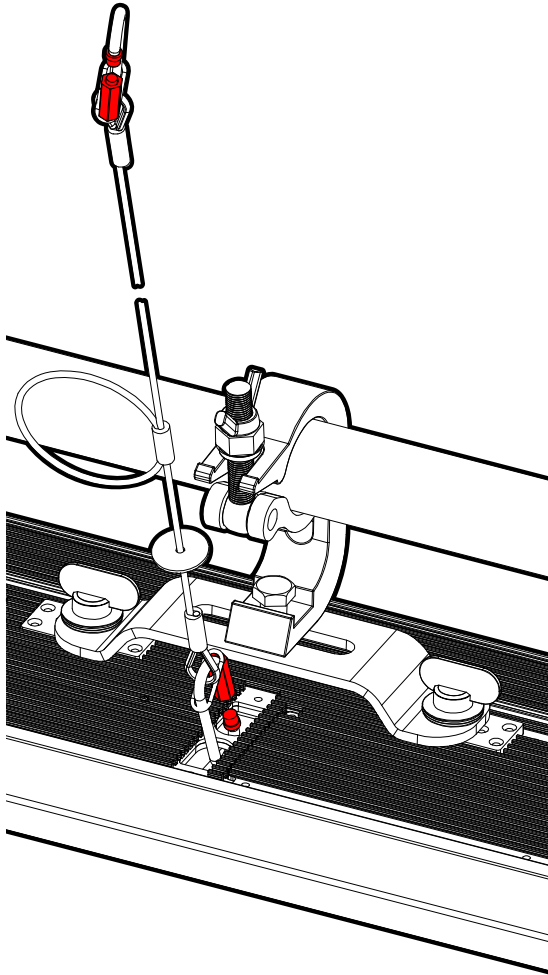
INSTALLATION GUIDELINES

RIGGING

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

The Elation KL CYC L can be truss mounted in all positions.
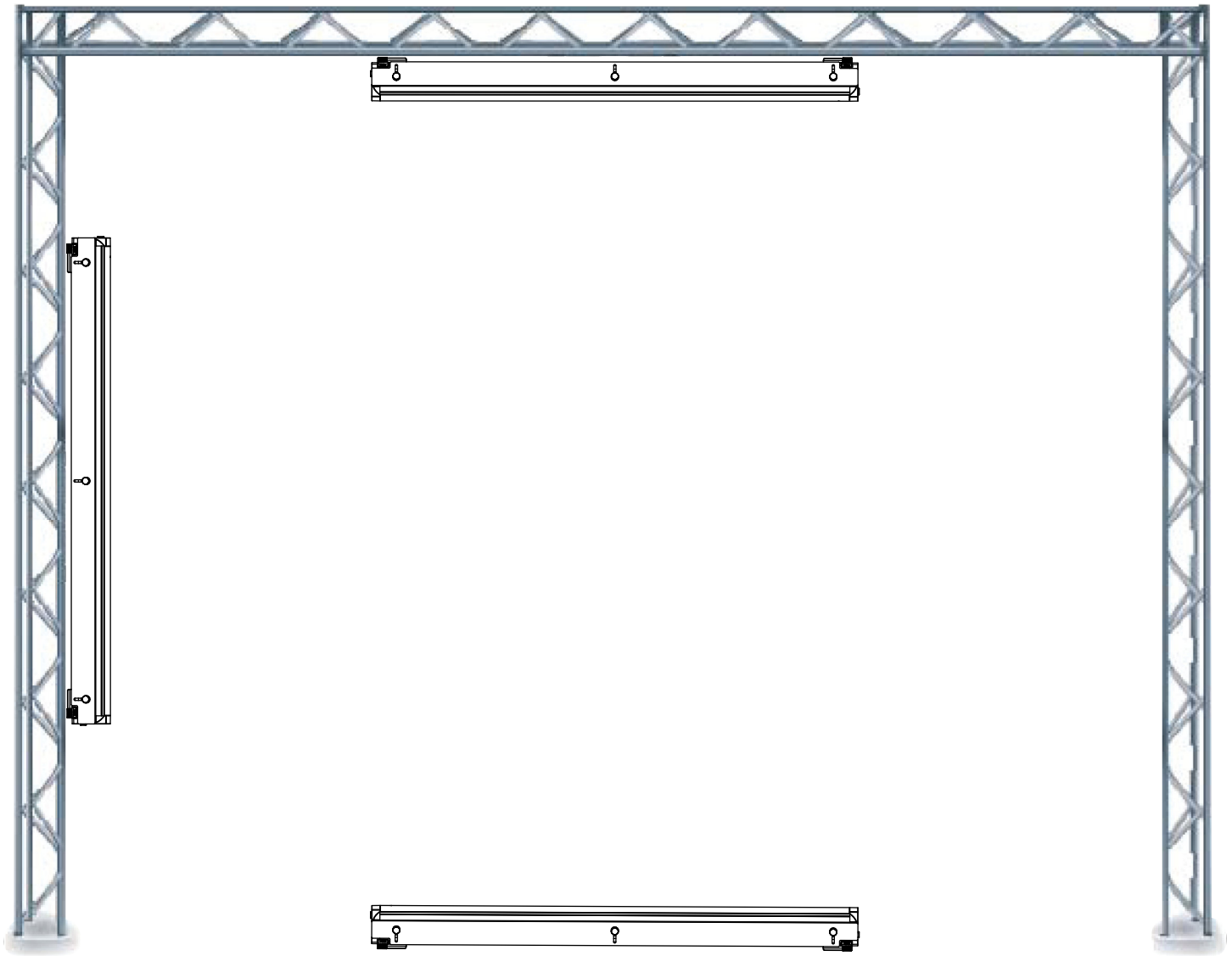
FALLING FIXTURES CAN CAUSE SEVERE INJURY OR SERIOUS EQUIPMENT DAMAGE! FOR THIS REASON, FIXTURES SHOULD BE INSTALLED AND INSPECTED ONLY BY QUALIFIED PERSONNEL. DO NOT INSTALL THE UNIT IF YOU LACK THE QUALIFICATIONS TO DO SO, OR IF YOU HAVE DOUBTS ABOUT THE SAFETY AND SECURITY OF THE INSTALLATION SETUP 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.

ACCESSORY INSTALLATION: LENS

Unlock Lens Filter Slot

Insert Lens into Lens Filter Slot

Re-lock Lens Filter Slot
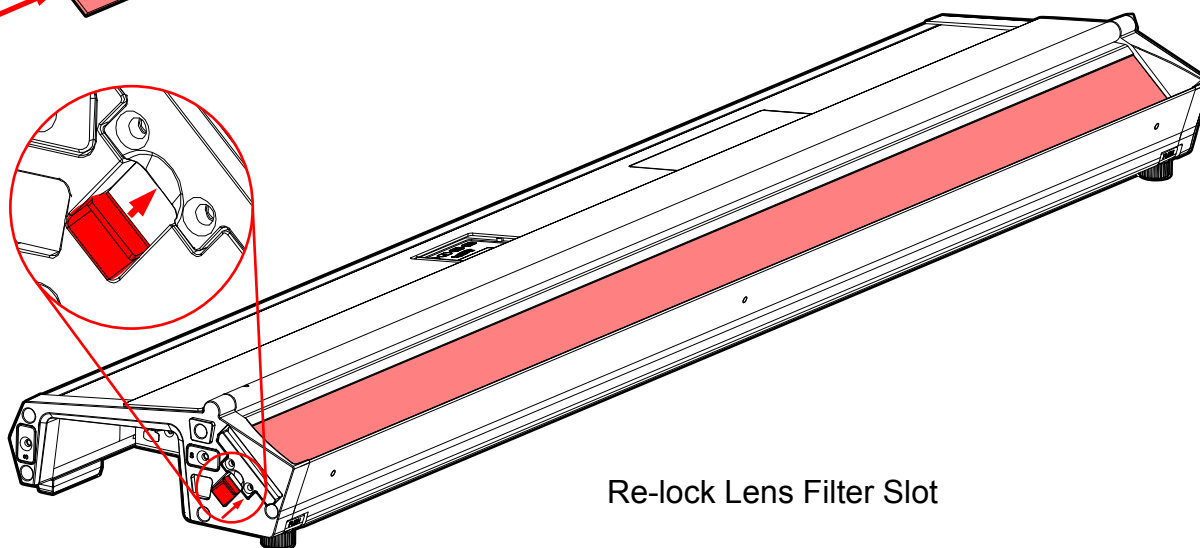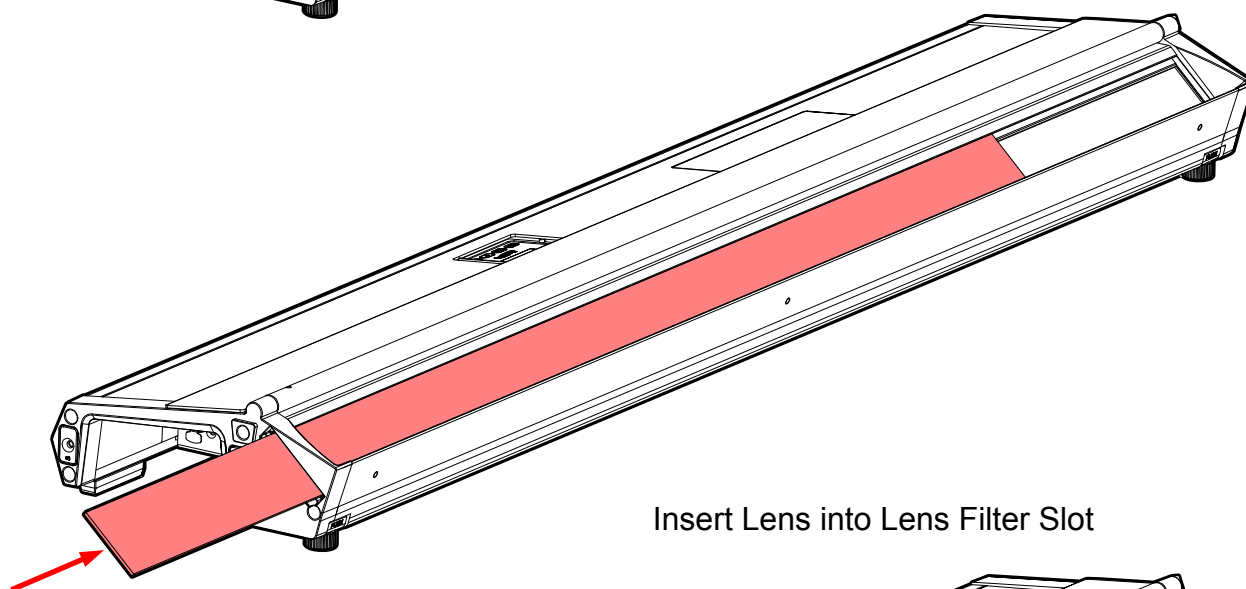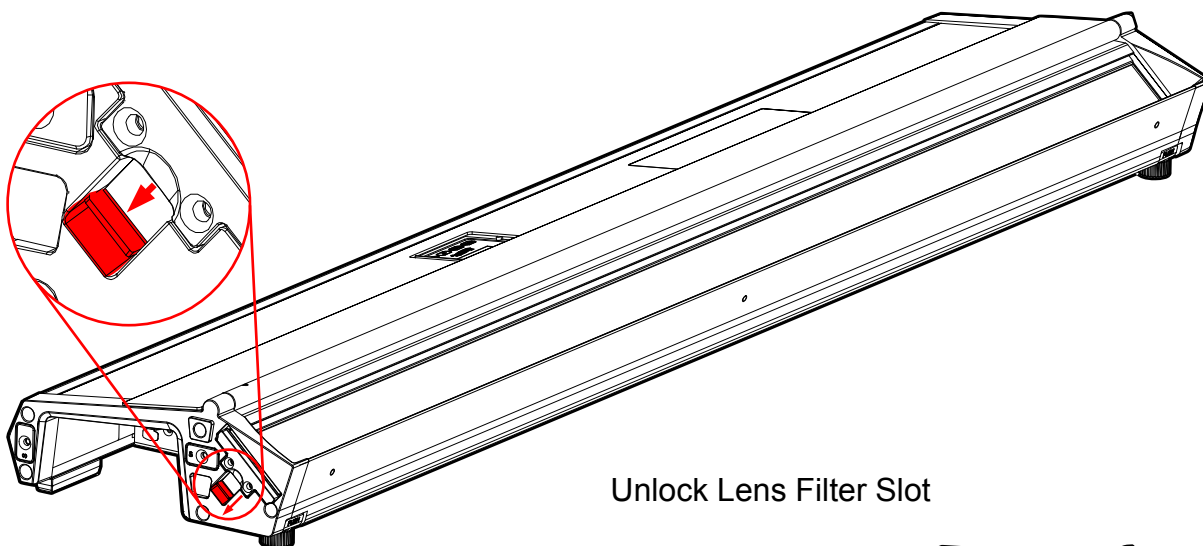
ACCESSORY OPERATION: ADJUSTABLE GLARE SHIELD

Untighten 3x Thumb Screws, and position the Glare Shield to the desired height.

Tighten 3x Thumb Screws
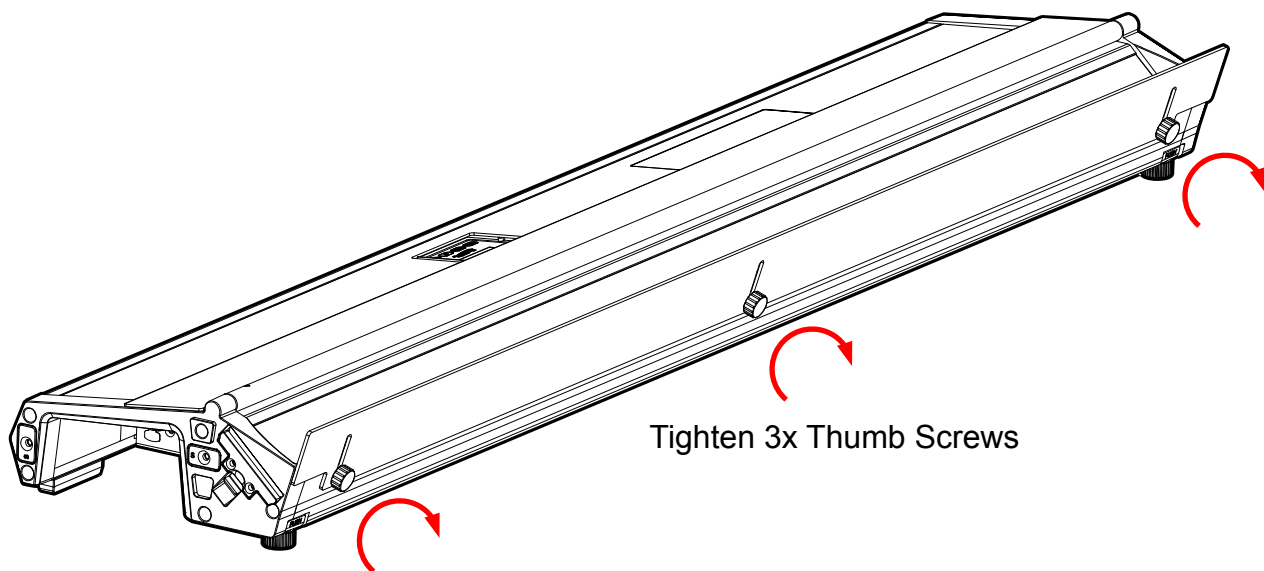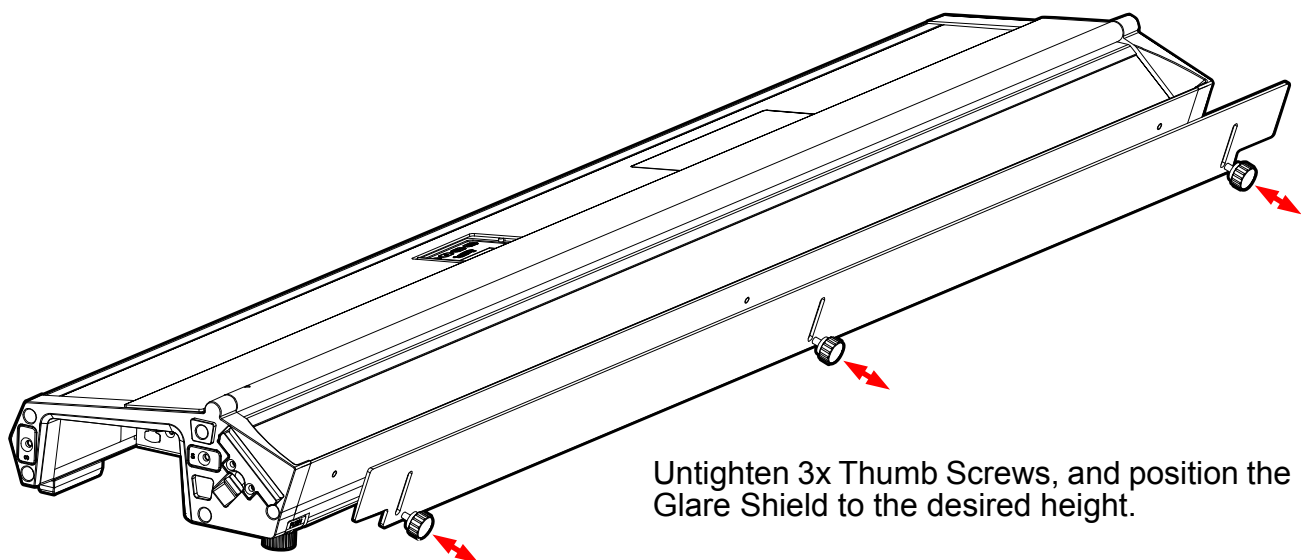
REMOTE DEVICE MANAGEMENT (RDM)

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

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, allowing the DMX systems of the device to be managed, modified, and monitored remotely (hence, remote device management). This protocol is ideal for fixtures installed in locations that are not easily accessible.

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

FIXTURE RDM INFORMATION:

RDM Code	Device ID	Device Model ID	Personality ID
0x22A6	0000-FFFF	0X004C	1CH Dimmer 4CH RGB 4CH CCT 4CH HSI 12CH HSI Extended 11CH CMY 16CH CMY Extended **13CH Standard** 20CH Extended 19CH Standard 2 Zone 32CH Extended 2 Zone 31CH Standard 4 Zone 56CH Extended 4 Zone

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	[0x0405] Device Power Cycles
[0x0200] Sensor Definition	[0x0500] Display Invert
[0x0201] Sensor Value	[0x0603] Realtime Clock
[0x0080] Device Model Description	[0x0122] Default Slot Value
[0x0081] Manufacturer Label	[0x00B0] Language
[0x0082] Device Label	[0x00A0] Language Capabilities
[0x00E0] DMX Personality	[0x00C2] Boot Software Version Label
[0x00E1] DMX Personality Description	[0x00C1] Boot Software Version ID
[0x0400] Device Hours	[0x0070] Product Detail ID List
[0x0015] Comms Status	[0x0030] Status Messages
[0x0031] Status ID Description	[0x0000] Undefined PID [0x1100, (4352)]
[0x0032] Clear Status ID	

SYSTEM MENU

The fixture includes an easy to navigate system menu. The control panel display located on the top of the fixture 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.

NOTE: To access the LCD Menu Control Display via the internal battery, press and hold the **MODE/ESC** button for 10 seconds. The LCD Menu Control Display will shut **OFF** automatically about 1 minute from the last button press.

NOTE: The unit comes with a battery so that the menu options can be changed or setup without the need to plug the unit into power.
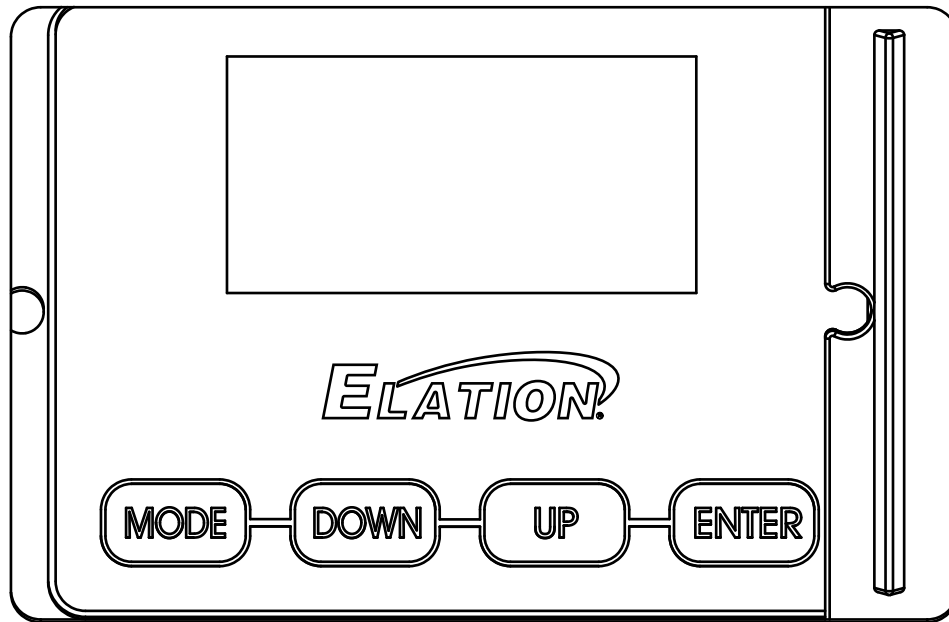
⚠ **AN ELATION C-LOADER II CAN ALSO BE USED TO UPDATE THE FIXTURE TO THE LATEST SOFTWARE. To order this device, please contact Elation Support for further details.**

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
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SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		
DMX	DMX Address	**001** - 512	
	DMX Mode	1CH Dimmer	
		4CH RGB	
		4CH CCT	
		4CH HSI	
		12CH HSI Extended	
		11CH CMY	
		16CH CMY Extended	
		13CH Standard	
		20CH Extended	
		19CH Standard 2 Zone	
		32CH Extended 2 Zone	
		31CH Standard 4 Zone	
		56CH Extended 4 Zone	
	No DMX Status	**Hold Last**	
		Fade to Black	
		EdgeLite	
		Standalone	
	Protocol	Select Signal	**DMX** / Art-Net / sACN / Aria In-DMX Out / DMX In - Aria Out
		Universe	1
		IP Address	2.x.x.x
		Subnet Mask	**255.0.0.0**
		Ethernet DMX Out	**Off**/On
	Aria	Aria Channel	**0**-14
Control	Manual Control	Dimmer	000% - **100%**
		CCT	2400K - 8500 (Default = **6000K**)
		Green Shift	-100% ~ +100% (Default = **0**)
		Virtual Color	See **Color Macros**
	Primary	On / **Off**	
	Secondary	On / **Off**	
	Self Test	All	
		Dimmer	
		Color	
Settings	EdgeLight Options	Control	**DMX** / Always On / Disabled
		Default Intensity	1-10% (Default = **3%**)
		Color	**Blue**/Red
	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, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz (Default = **1200 Hz**)	
	LED Power Limit	50%	
		60%	
		70%	
		80%	
		90%	
		100%	
	Display	Screen Delay	10s - 5min (Default = **1 min**)
		Screen Lock	**Off**, 10s - 5 min
		Rotate Display	Yes / **No** / Auto
	Reset Defaults	Yes / No	

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)		
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)	Update Firmware	On / Off	
	Calibration	Red 000 - 255	
		Green 000 - 255	
		Blue 000 - 255	
		Mint 000 - 255	
		Amber 000 - 255	
	Reset Last Run	Yes / No	
	Reset Error Logs	Yes / No	

CYCLORAMA EDGELIGHT FEATURE

With the understanding and intention that the KL CYC FC can excel in a footlight or foot ramp application, we aimed to integrate additional functions to enhance the fixture's capabilities and offer a distinctive safety feature. As a result, we developed what we term 'EdgeLight.'

The EdgeLight feature allows either the Red or Blue LEDs to emit a dim glow when the main output of the fixture is turned off or set to '0%.' This provides an indication of the stage or performance area's edge. The behavior of this function, along with the color and intensity of the LEDs, can be fully controlled by the user in multiple ways, ensuring that the effect doesn't detract from the performance or event, from the audience's perspective.

By default, the intensity of EdgeLight is governed by the DMX signal. To utilize EdgeLight, the fixture must be configured to a DMX mode that incorporates the 'EdgeLight Level' control channel. When using DMX control, users can activate or deactivate the effect and adjust the intensity level to suit their needs or preferences. The initial Blue color can also be changed to Red using the fixture's DMX control channel.
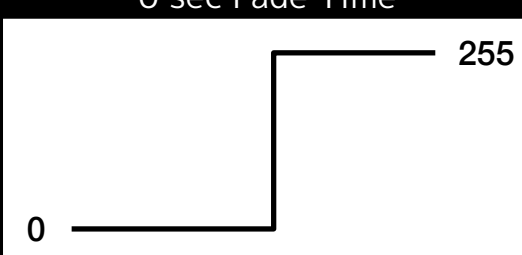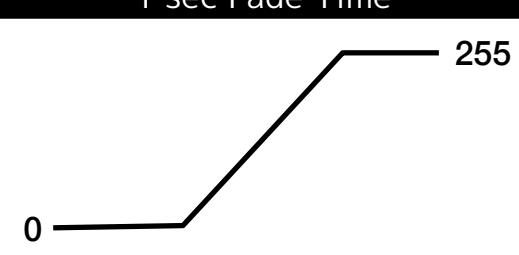
When the 'Control' setting is switched to 'Always On' through the fixture's menu or DMX control channel, the EdgeLight feature will automatically fade in whenever the main output of the fixture is set to '0%.' In this mode, the EdgeLight's color and intensity will be retrieved from the 'Default Intensity' and 'Color' settings in the menu. These settings cannot be altered by the 'EdgeLight Level' channel, provided it's present in the selected DMX mode. If desired, the default or recalled 'Color' of the effect can still be modified in the fixture's DMX control channel. Once the main output of the fixture rises above '0%', the effect will deactivate.

Changing the 'Control' setting to 'Disabled' renders the feature inaccessible.

Moreover, the EdgeLight function can be chosen to be reinstated in case the fixture loses the DMX signal. If the 'EdgeLight' option is selected within the 'No DMX Status' menu section, the fixture will recall the default EdgeLight menu settings after 3 seconds without a DMX signal. This mode will persist until a DMX signal is detected, at which point the EdgeLight will fade out and restore the current state set by DMX.

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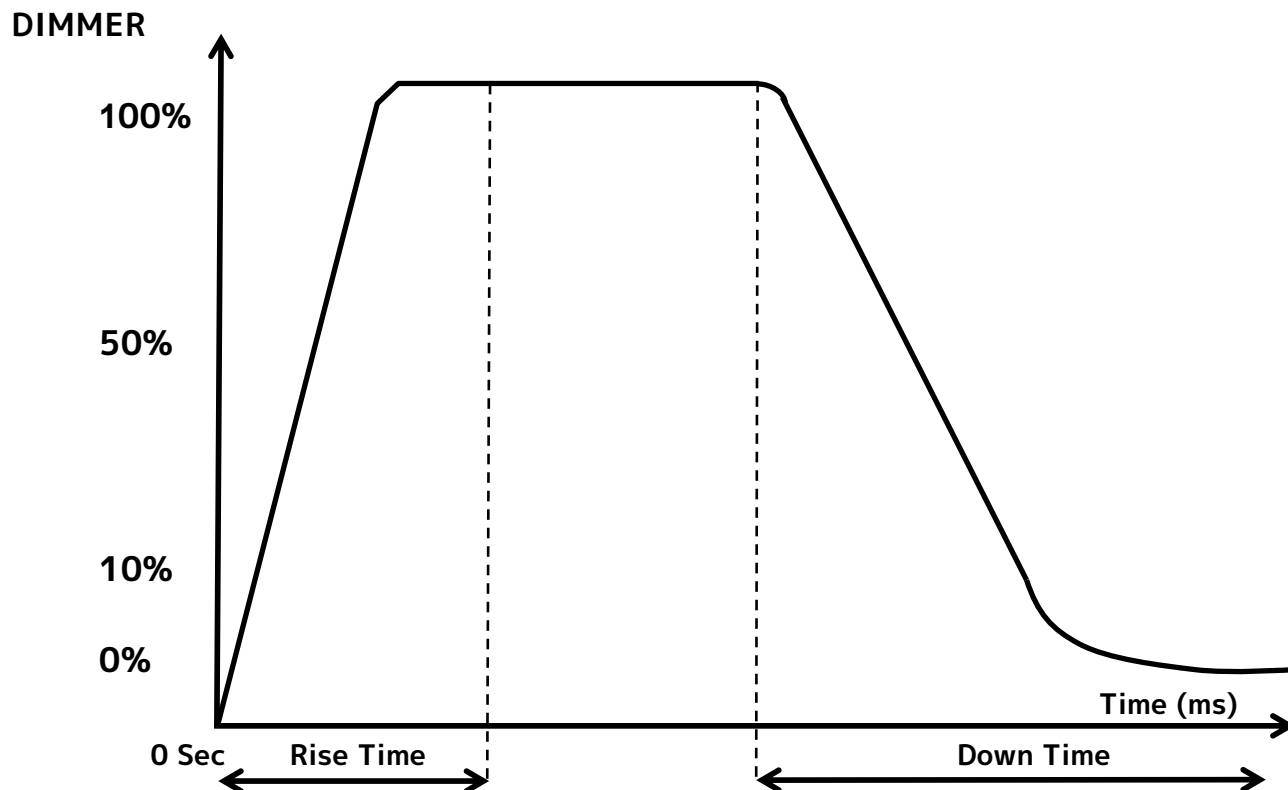
	0 sec Fade Time		1 sec Fade Time	
Dimming Curve **Ramp Effect**				
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660
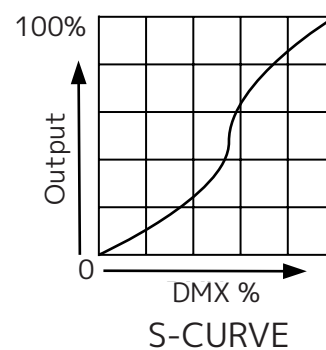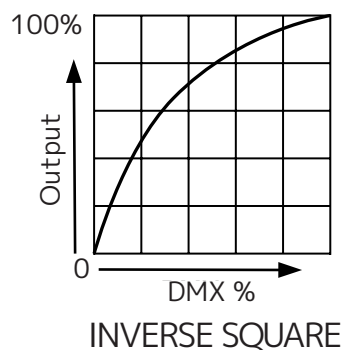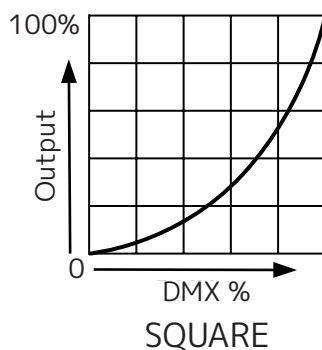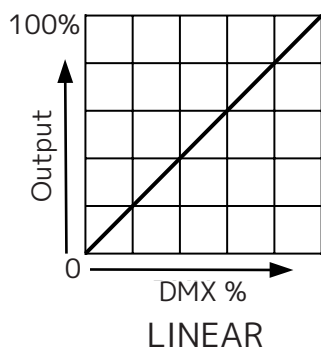
LINEAR

SQUARE

INVERSE SQUARE

S-CURVE

DMX TRAITS

Dimmer 1Ch.	RGB 4Ch.	CCT 4Ch.	HSI 4Ch.	HSI EXT. 12Ch.	CMY 11Ch.	CMY EXT. 16Ch.	Std. 13Ch.	Ext. 20Ch.	Std. 2 Zone 19Ch.	Ext. 2 Zone 32Ch.	Std. 4 Zone 31Ch.	Ext. 4 Zone 56Ch.	DMX Values	Function	Snap	Default Value
1	1	1	1	1	1	1	1	1	1	1	1	1	0-255	**Dimmer** Intensity 0 → 100%		0
		2	2	2	2	2	2	2	2	2	2	2	0-255	**Dimmer Fine** Fine Adjustment		0
				3	3	3	3	3	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)		
	2						4	4	4	4	4	4	0-255	**Red** 0 → 100%		0
								5		5		5	0-255	**Red Fine** Fine Adjustment		0
	3						5	6	5	6	5	6	0-255	**Green** 0 → 100%		0
								7		7		7	0-255	**Green Fine** Fine Adjustment		0
	4						6	8	6	8	6	8	0-255	**Blue** 0 → 100%		0
								9		9		9	0-255	**Blue Fine** Fine Adjustment		0
							7	10	7	10	7	10	0-255	**Mint** 0 → 100%		0
								11		11		11	0-255	**Mint Fine** Fine Adjustment		0
							8	12	8	12	8	12	0-255	**Amber** 0 → 100%		0
								13		13		13	0-255	**Amber Fine** Fine Adjustment		0
									9	14	9	14	0-255	**Red 2** 0 → 100%		0
										15		15	0-255	**Red Fine 2** Fine Adjustment		0
									10	16	10	16	0-255	**Green 2** 0 → 100%		0
										17		17	0-255	**Green Fine 2** Fine Adjustment		0
									11	18	11	18	0-255	**Blue 2** 0 → 100%		0
										19		19	0-255	**Blue Fine 2** Fine Adjustment		0
									12	20	12	20	0-255	**Mint 2** 0 → 100%		0
										21		21	0-255	**Mint Fine 2** Fine Adjustment		0
									13	22	13	22	0-255	**Amber 2** 0 → 100%		0
										23		23	0-255	**Amber Fine 2** Fine Adjustment		0
											14	24	0-255	**Red 3** 0 → 100%		0
												25	0-255	**Red Fine 3** Fine Adjustment		0

DMX TRAITS

Dimmer 1Ch.	RGB 4Ch.	CCT 4Ch.	HSI 4Ch.	HSI EXT. 12Ch.	CMY 11Ch.	CMY EXT. 16Ch.	Std. 13Ch.	Ext. 20Ch.	Std. 2 Zone 19Ch.	Ext. 2 Zone 32Ch.	Std. 4 Zone 31Ch.	Ext. 4 Zone 56Ch.	DMX Values	Function	Snap	Default Value
											15	26	0-255	**Green 3** 0 → 100%		0
												27	0-255	**Green Fine 3** Fine Adjustment		0
											16	28	0-255	**Blue 3** 0 → 100%		0
												29	0-255	**Blue Fine 3** Fine Adjustment		0
											17	30	0-255	**Mint 3** 0 → 100%		0
												31	0-255	**Mint Fine 3** Fine Adjustment		0
											18	32	0-255	**Amber 3** 0 → 100%		0
												33	0-255	**Amber Fine 3** Fine Adjustment		0
											19	34	0-255	**Red 4** 0 → 100%		0
												35	0-255	**Red Fine 4** Fine Adjustment		0
											20	36	0-255	**Green 4** 0 → 100%		0
												37	0-255	**Green Fine 4** Fine Adjustment		0
											21	38	0-255	**Blue 4** 0 → 100%		0
												39	0-255	**Blue Fine 4** Fine Adjustment		0
											22	40	0-255	**Mint 4** 0 → 100%		0
												41	0-255	**Mint Fine 4** Fine Adjustment		0
											23	42	0-255	**Amber 4** 0 → 100%		0
												43	0-255	**Amber Fine 4** 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
			3	4									0-255	**Hue** 0 → 360°		255
			4	5									0-255	**Saturation** 0 → 100%		255

DMX TRAITS

Dimmer 1Ch.	RGB 4Ch.	CCT 4Ch.	HSI 4Ch.	HSI EXT. 12Ch.	CMY 11Ch.	CMY EXT. 16Ch.	Std. 13Ch.	Ext. 20Ch.	Std. 2 Zone 19Ch.	Ext. 2 Zone 32Ch.	Std. 4 Zone 31Ch.	Ext. 4 Zone 56Ch.	DMX Values	Function	Snap	Default Value
		3		6	7	10	9	14	14	24	24	44		**Variable CCT**		0
													0-23	Open		
													24-85	2400K → 8500K (See Sheet)		
													86-255	8500K		
									15	25	25	45		**Variable CCT 2**		0
													0-23	Open		
													24-85	2400K → 8500K (See Sheet)		
													86-255	8500K		
											26	46		**Variable CCT 3**		0
													0-23	Open		
													24-85	2400K → 8500K (See Sheet)		
													86-255	8500K		
											27	47		**Variable CCT 4**		0
													0-23	Open		
													24-85	2400K → 8500K (See Sheet)		
													86-255	8500K		
				7	8	11	10	15	16	26	28	48		**CCT Cross Fade**		0
													0	CCT		
													1-254	No Function		
													255	Color Mix		
				8	9	12	11	16	17	27	29	49		**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		
													250-255	Open		
		4		9		13		17		28		50		**Green Shift**		0
													0	Idle		
													1-127	Full Minus Green to Neutral		
													128	Neutral White		
													129-255	Neutral to Full Plus Green		
										29		51		**Green Shift 2**		0
													0	Idle		
													1-127	Full Minus Green to Neutral		
													128	Neutral White		
													129-255	Neutral to Full Plus Green		
												52		**Green Shift 3**		0
													0	Idle		
													1-127	Full Minus Green to Neutral		
													128	Neutral White		
													129-255	Neutral to Full Plus Green		
												53		**Green Shift 4**		0
													0	Idle		
													1-127	Full Minus Green to Neutral		
													128	Neutral White		
													129-255	Neutral to Full Plus Green		
				10	10	14	12	18	18	30	30	54		**EdgeLight Level**		0
													0-10	Off		
													11-20	Default		
													21-255	Intensity Min → Max		

DMX TRAITS

Dimmer 1Ch.	RGB 4Ch.	CCT 4Ch.	HSI 4Ch.	HSI EXT. 12Ch.	CMY 11Ch.	CMY EXT. 16Ch.	Std. 13Ch.	Ext. 20Ch.	Std. 2 Zone 19Ch.	Ext. 2 Zone 32Ch.	Std. 4 Zone 31Ch.	Ext. 4 Zone 56Ch.	DMX Values	Function	Snap	Default Value
														Dim Modes		
													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		
				11		15		19		31		55	127	0.6s	X	0
													128	0.7s		
													129	0.8s		
													130	0.9s		
													131	1.0s		
													132	1.5s		
													133	2.0s		
													134	3.0s		
													135	4.0s		
													136	5.0s		
													137	6.0s		
													138	7.0s		
													139	8.0s		
													140	9.0s		
													141	10s		
													142-255	Idle		
														Control		
													0-69	Idle		
														EdgeLite Control		
													70-74	Disabled		
													75-79	Always ON		
													80-84	DMX		
													85-94	Red		
													95-99	Blue		
														Refresh Rate (Hz)		
													100	900		
													101	910		
													102	920		
													103	930		
													104	940		
													105	950		
				12	11	16	13	20	19	32	31	56	106	960	X	0
													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		

DMX TRAITS

Dimmer 1Ch.	RGB 4Ch.	CCT 4Ch.	HSI 4Ch.	HSI EXT. 12Ch.	CMY 11Ch.	CMY EXT. 16Ch.	Std. 13Ch.	Ext. 20Ch.	Std. 2 Zone 19Ch.	Ext. 2 Zone 32Ch.	Std. 4 Zone 31Ch.	Ext. 4 Zone 56Ch.	DMX Values	Function	Snap	Default Value
													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		
													137	1270		
													138	1280		
													139	1290		
													140	1300		
													141	1310		
													142	1320		
													143	1330		
													144	1340		
													145	1350		
													146	1360		
													147	1370		
				12	11	16	13	20	19	32	31	56	148	1380	X	0
													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		

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 GEL SWATCH BOOK COLOR

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

ERROR CODES

Error Codes subject to change without notice	
ERROR CODES	**DESCRIPTION**
Temp Error	This message appears when there is a heating error.
Init Error	This message appears when there is an initial startup error.

PIXEL GROUPING
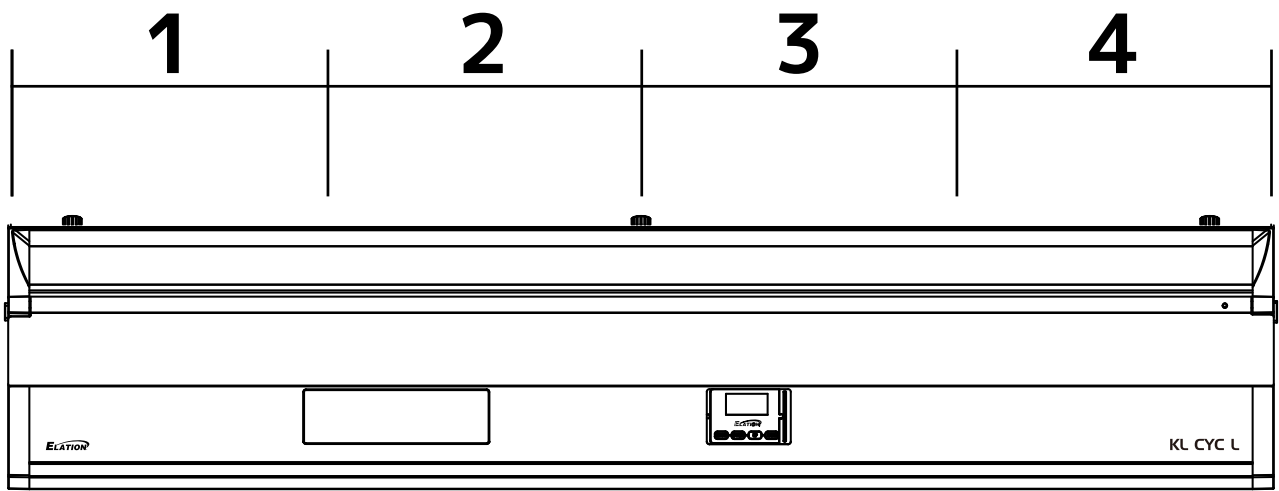
MAINTENANCE GUIDELINES

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 ensure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all 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.

NEVER remove the ground prong from the power cable.

SPECIFICATIONS

SOURCE
180W RGBMA LED Array
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
Total Lumen Output
9,249 (Integrating Sphere)
8,606 (Goniometer)
CRI 96.5
TLCI 88
Filter
Beam Angle: 40° x 90°
Field Angle: 85° x 160°
No Filter
Beam Angle: 25° x 75°
Field Angle: 80° x 125°

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

COLOR
RGBMA Color Array
Up to Four Control Segments
CMY, RGB Emulation
Variable CCT 2,400K - 8,500K
Green/Magenta Shift
Virtual Gel Swatch Book

CONTROL / CONNECTIONS
11 DMX Channel Modes (1ch, 4ch, 4ch, 4ch, 11ch, 12ch, 13ch, 16ch, 19ch, 20ch, 31ch, 32ch, 56ch)
4 Button Control Panel, LED Display
RDM (Remote Device Management)
5pin DMX In/Out
RJ45 Locking Ethernet In/Out
IP65 Locking Power Cable In/Out

SIZE / WEIGHT
Length: 37.9" (962mm)
Width: 8.1" (206.3mm)
Height: 3.4" (85.2mm)
Weight: 16lb (7.3kg)

ELECTRICAL / THERMAL
AC 100-240V - 50/60Hz
196W Max Power Consumption
Power Thru Capacity: 12A (6 units @ 110V; 14 units @ 240V)
5°F to 113°F (-15°C to 45°C)
BTU/hr (+/- 10%): 668.36

INCLUDED ITEMS
2x Omega Bracket
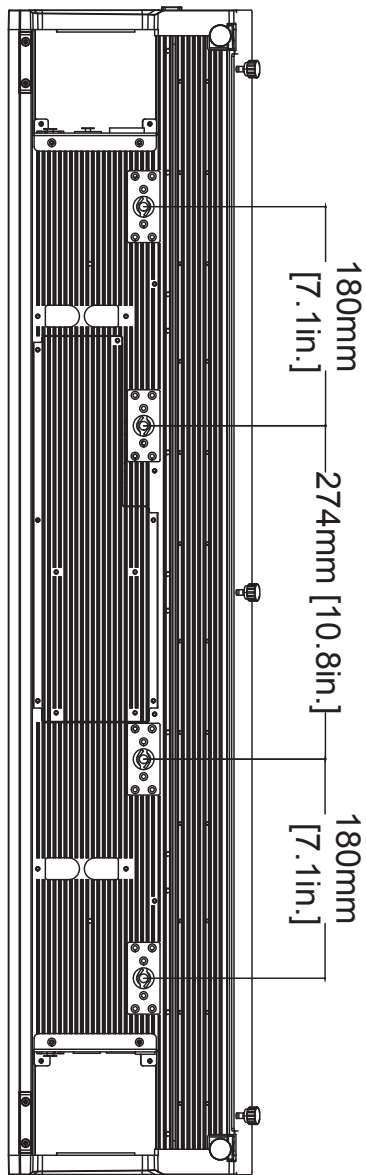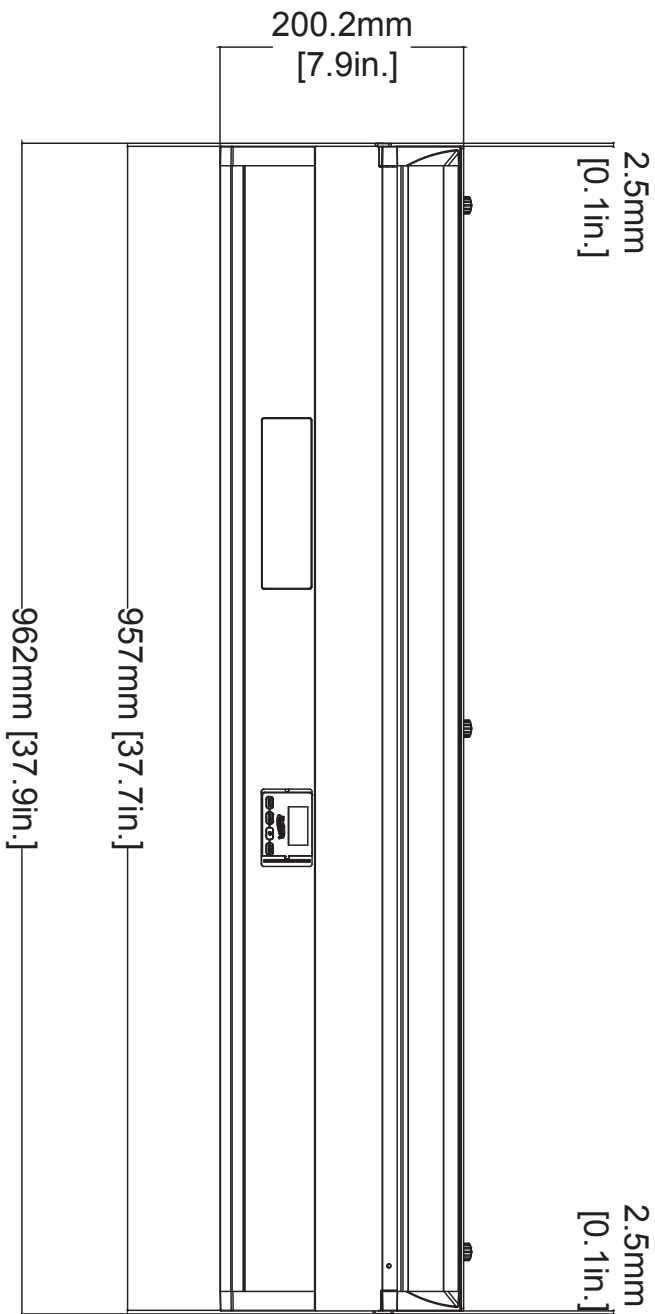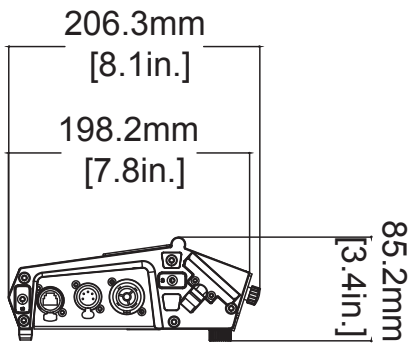1x Frost Filter
1x Barndoor
IP65 Locking Power Cable

APPROVALS / RATINGS
CE | cETLus | FCC | UKCA

Specifications and documentation subject to change without notice.

DIMENSIONAL DRAWINGS

Drawings not to scale.

206.3mm
[8.1in.]

198.2mm
[7.8in.]

85.2mm
[3.4in.]

180mm
[7.1in.]

274mm [10.8in.]

180mm
[7.1in.]

200.2mm
[7.9in.]

2.5mm
[0.1in.]

962mm [37.9in.]

957mm [37.7in.]

2.5mm
[0.1in.]

OPTIONAL ACCESSORIES

ORDER CODE		ITEM
US	**EU**	
KLC013	1237000281	Elation KL CYC L
TRIGGER CLAMP	1741000032	Heavy Duty Wrap Around Hook Style Clamp
PDJ010	1621000162	10" Power and DMX Interconnect Cable, for KL CYC
		Additional Cable Lengths Available

FCC STATEMENT

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

FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

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