ELATION®

PANEL XL

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	Soft-ware Version	DMX Channel Mode	Notes
09/22/21	1.0	1.07	1/4/7/6/12/48/96/24/ 14/23/58/4/12 Ch	Initial Release
11/03/21	1.1	N/C	No Change	Added Pixel Zones section
12/20/21	1.2	N/C	No Change	Updated Accessory Installation to include Intensifier Lens
02/08/22	1.3	N/C	No Change	Updated Accessories List
04/25/22	1.4	N/C	No Change	Updated Dimensional Drawings and Specifications
08/12/22	1.5	N/C	No Change	Updated FCC Statement
06/07/23	1.6	N/C	No Change	Added Software Update; updated Specifications
07/31/23	1.7	N/C	No Change	Updated thermal specifications
12/10/25	1.8	N/C	No Change	Updated: General Info, Software Updates, Specifications

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
Barndoor Assembly (x1)
Junior Pin (x1)
Power Cable (x1)
Barndoor Safety Cable (x1)

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

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

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

REPLACEMENT PARTS please visit parts.elationlighting.com

LIMITED WARRANTY
For up-to-date warranty information regarding your device, please visit Elation's warranty information page online or scan the QR codes below.

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

EU: https://www.elationlighting.eu/terms_and_conditions

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. 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!**

**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!**

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 serving.
- **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 and do not insert into the fixture securely with ease.
- **NEVER** force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of the same rating.
- **DO NOT** block any air ventilation slots.
- All fan and air inlets must remain clean and never blocked.
- Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.
- 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 fixture from main power source before performing any type of service and/or cleaning procedure.
- Only handle the power cord by the plug end, and never pull out the plug by tugging the wire portion of the cord.
- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.
- Consistent operational breaks will ensure 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. 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.

FIXTURE OVERVIEW

Frame
Lock Tab

Junior Pin
Mount

Frame
Lock Tab

Yoke
Adjustment
Knob

Safety
Cable
Loop

Mounting
Yoke

DMX
In/Out
(5pin)

Fuse

Power
In

Power
Out

Net
In

Net
Out

Service
Port

Control Panel
w/ Encoder
Knobs

Battery
Port

DMX
In/Out
(3pin)
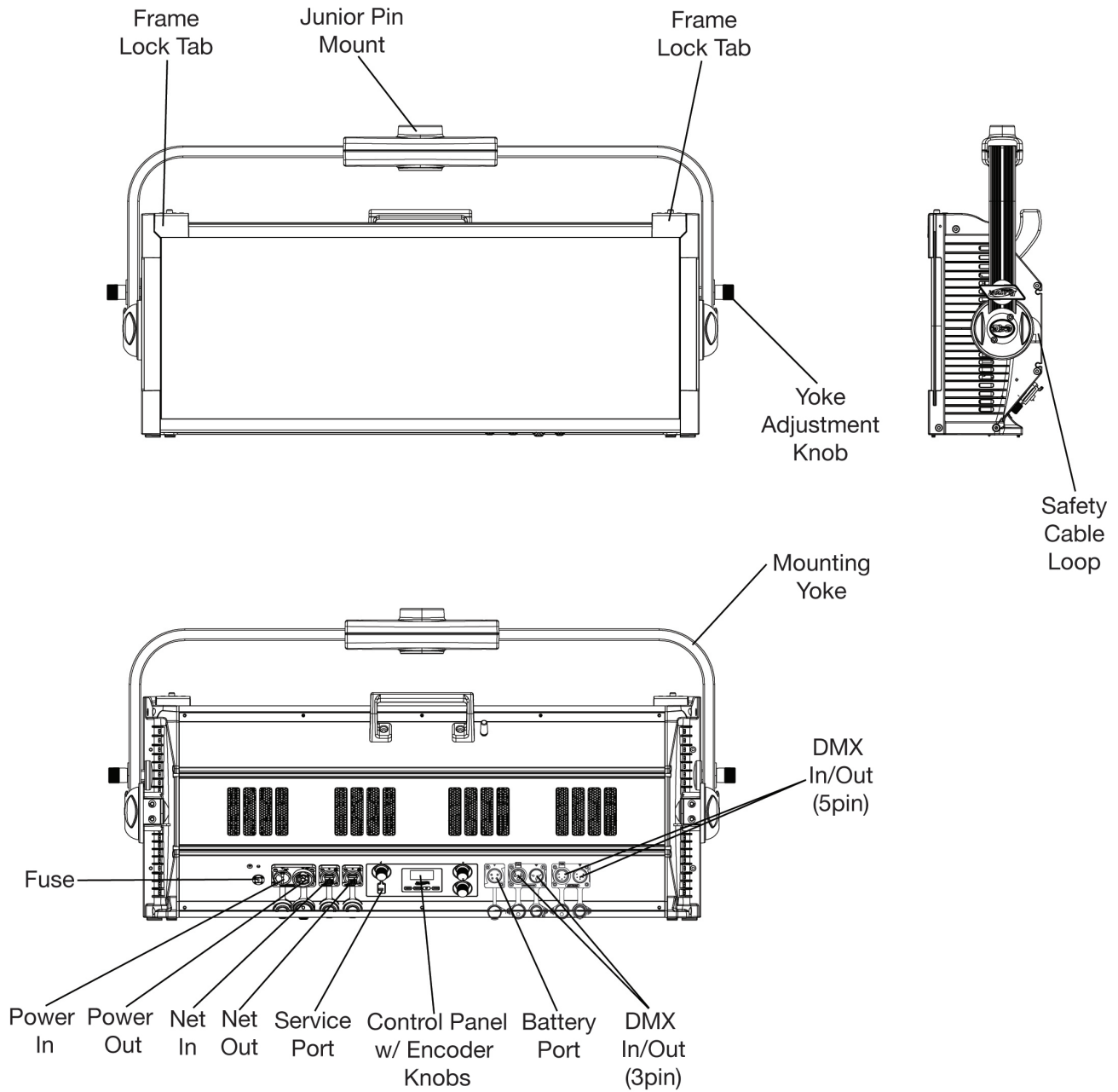
INSTALLATION INSTRUCTIONS

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.

DO NOT PERFORM THE INSTALLATION YOURSELF IF YOU ARE NOT QUALIFIED TO DO SO!

WHEN RUNNING ON 110V POWER, THE UNITS MAY NOT BE LINKED TOGETHER VIA THE POWER INPUT/OUTPUT TERMINALS! EACH UNIT MUST BE INDEPENDENTLY CONNECTED TO A POWER SOURCE!

When running on 240V power, however, up to 4 units may be linked together via the power input/output terminals. Once this values has been reached, a new power outlet must be used to accommodate additional units. All linked units MUST be of the same make and model type. DO NOT MIX UNITS!

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.

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.

FIXTURE INSTALLATION

CLAMP INSTALLATION

A junior pin can be attached to the mounting surface on the fixture's mounting yoke, and this junior pin can then be used as an attachment point for a mounting clamp. Details on junior pin installation can be found in the **Accessory Installation** section of this manual.

The device also features a safety cable loop on mounting yoke hinge nearest to the DMX ports (see the illustration below for reference). 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 junior pin and attach a separate **SAFETY CABLE** of the appropriate safety rating to the safety cable rigging point. In the event that the optional barn doors are installed on this fixture, a secondary SAFETY CABLE is also required to be attached to the barn doors, as shown in the image below. For information on barn door installation, please refer to the **Accessory Installation** section of this manual.

JUNIOR PIN FOR
ATTACHMENT OF
MOUNTING CLAMP

AWAITING TRUSS
MOUNT PICS

BARN DOOR
SAFETY
CABLE LOOP

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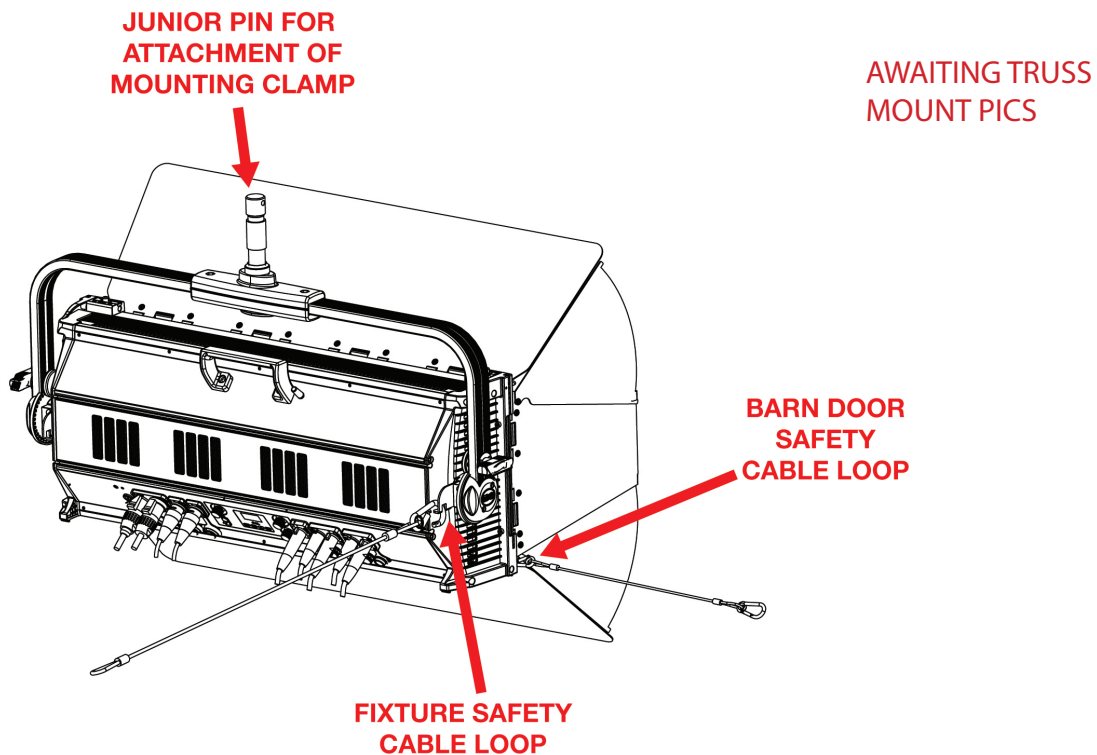
⚠️ **ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.**

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.

ACCESSORY INSTALLATION

JUNIOR PIN INSTALLATION

To install the junior pin to the mounting point on the yoke, orient the junior pin with the notched end facing the yoke mounting point. Align the notch on the junior pin with the matching groove on the yoke mounting point. Then, insert the fastener from the other side of the yoke mounting point, making sure that the fastener goes through both the yoke and the junior pin, and tighten the fastener securely. The junior pin should now be securely installed.

See the picture below for reference:
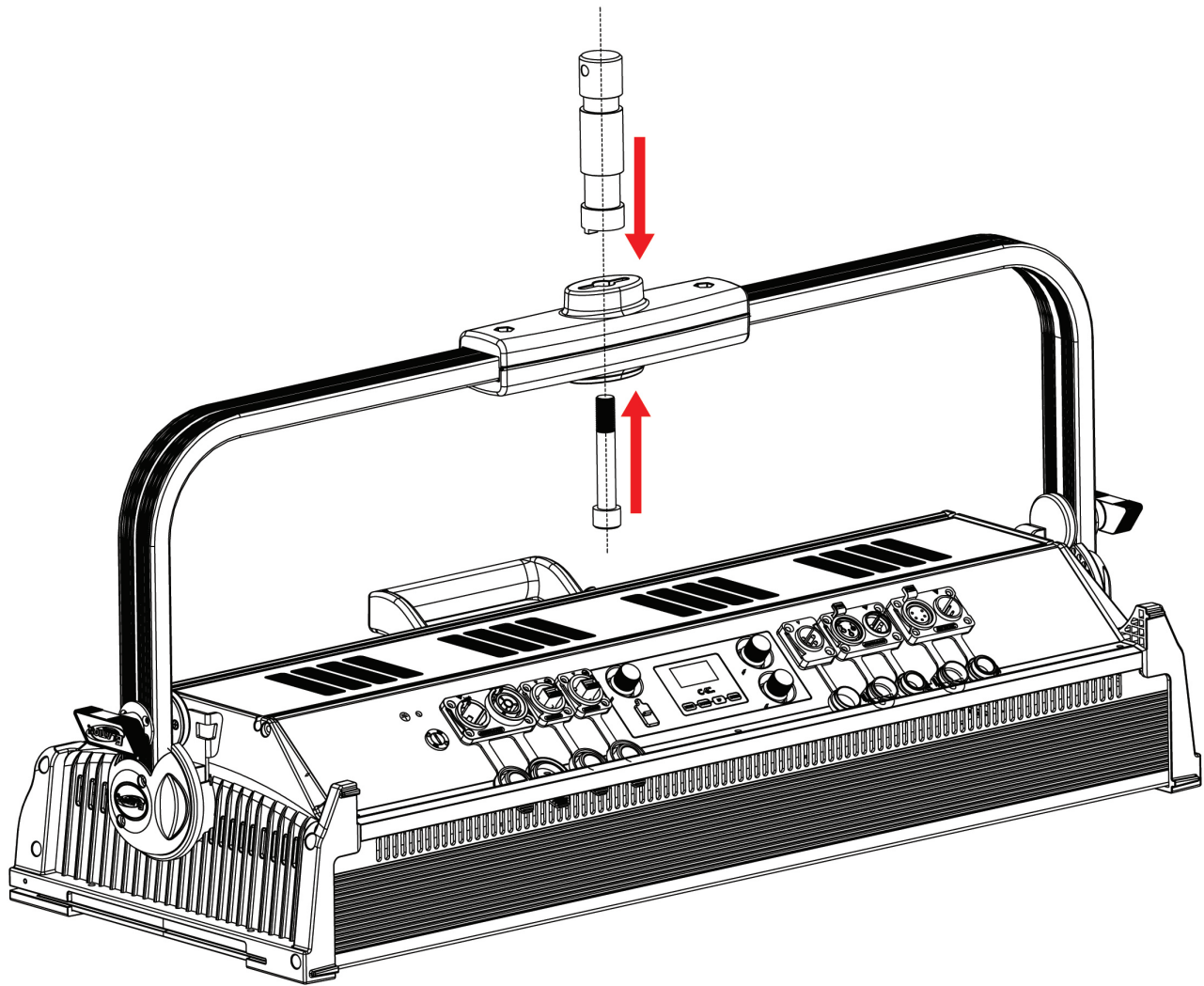
ACCESSORY INSTALLATION

STAND MOUNT INSTALLATION

This device is capable of being stand mounted by following the steps below:
1. Install the Junior Pin, as detailed elsewhere in this section.
2. Lock the mounting bracket in place by tightening both bracket knobs.
3. Insert the Junior Pin into the top of the Tripod Stand. Align the through-hole on the Junior Pin with the holes in the top of the Tripod Stand, then insert the Locking Pin through the hole and fasten in place.
4. If necessary, loosen the bracket knobs, adjust the fixture to the desired position, then tighten the bracket knobs to lock the fixture in place. Use caution to prevent the Tripod Stand from tipping over during adjustment.

See the picture below for reference:
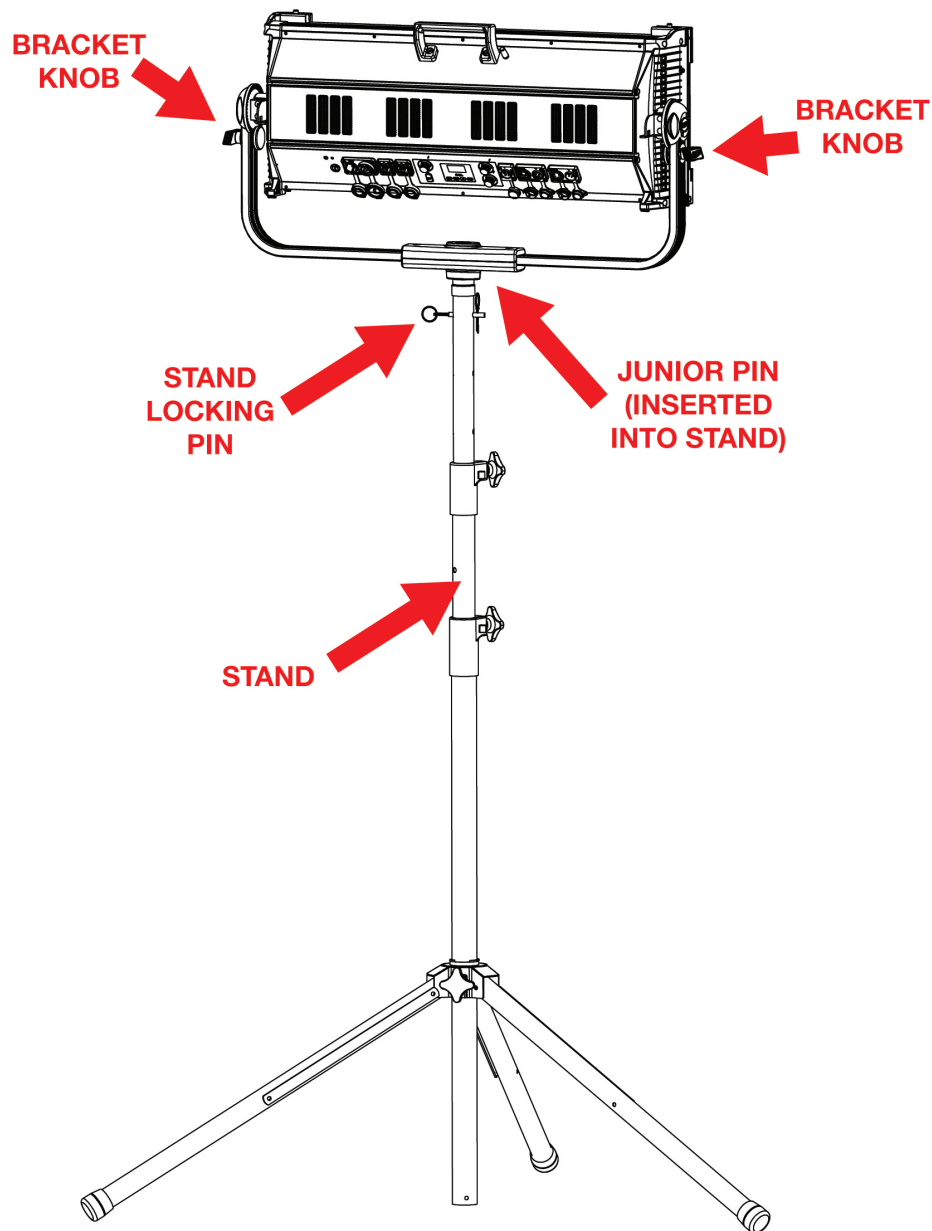
ACCESSORY INSTALLATION

BARN DOOR INSTALLATION

1. Unlock both frame lock tabs using the latches located on each tab (circled in the image below). Flip the top edge of the frame upward.
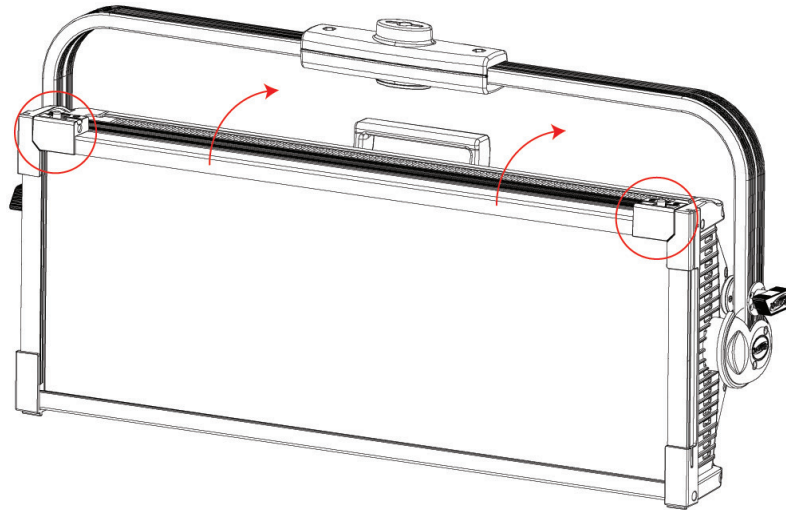
2. Look beneath the frame lock tabs and locate the installation slots on the inner edge of the frame. The slot closest to the front of the device should be vacant. Carefully slide the barndoor into this slot, then flip down the top edge of the frame and lock the frame lock tabs back in place.
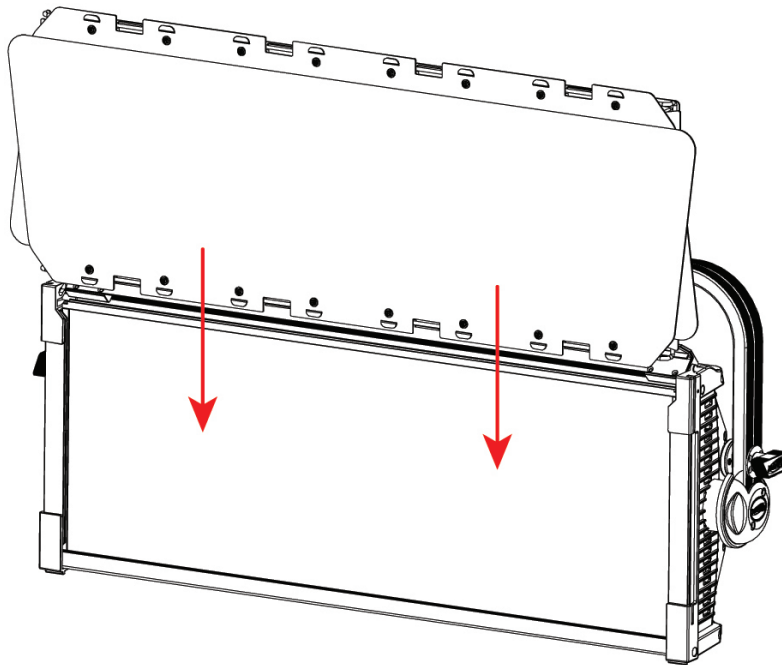
3. With the barndoors locked securely in place, pull on the tabs at the edges of the barndoor flaps to deploy the barndoors. Installation is now complete. **Please note that the barndoor accessory must be installed with its own safety cable! Refer to the diagram in the Fixture Installation section of this manual.**

ACCESSORY INSTALLATION

INTENSIFIER LENS INSTALLATION

1. Unlock both frame lock tabs using the latches located on each tab (circled in the image below). Flip the top edge of the frame upward. Slide the standard lens upward out of its slot.
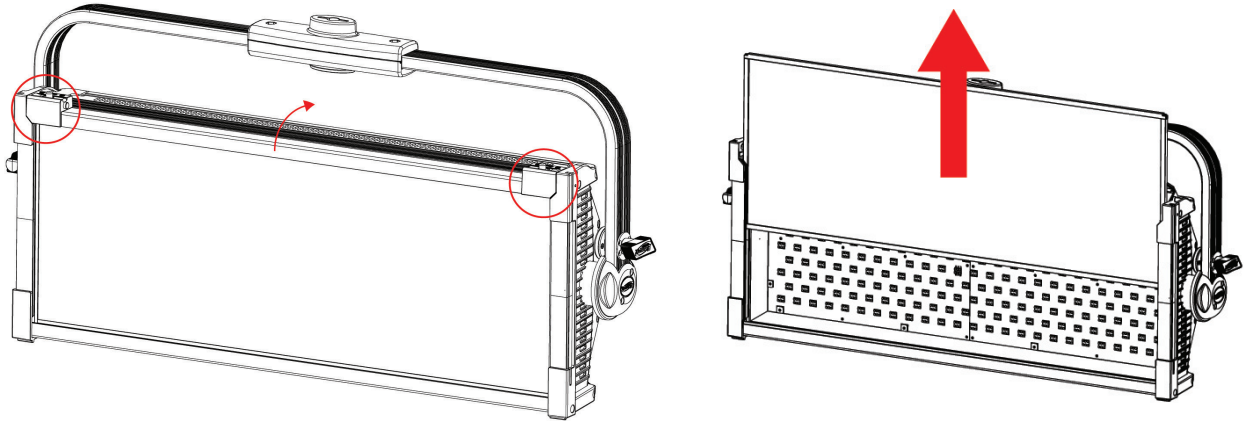
2. Slide the Intensifier Lens into the slot. **Please note that the Intensifier Lens is NOT reversible. The forward-facing side of the Intensifier Lens should have a slight ridge in the lens frame, while the rearward-facing side should have a smooth lens frame.**
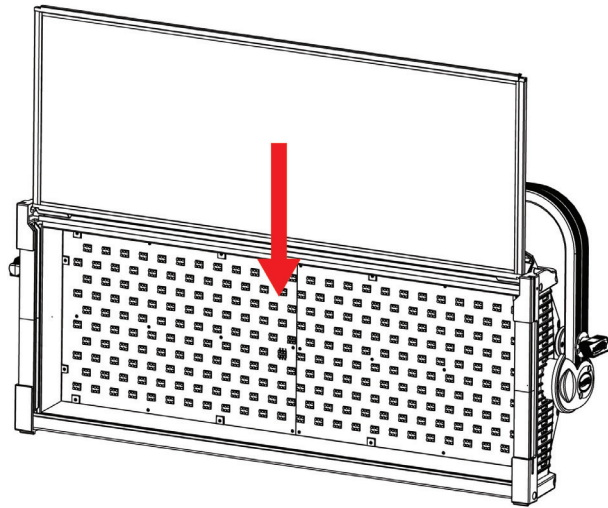
3. Flip the top edge of the fixture frame back down into place, and lock the frame tabs back into place. The installation is now complete.
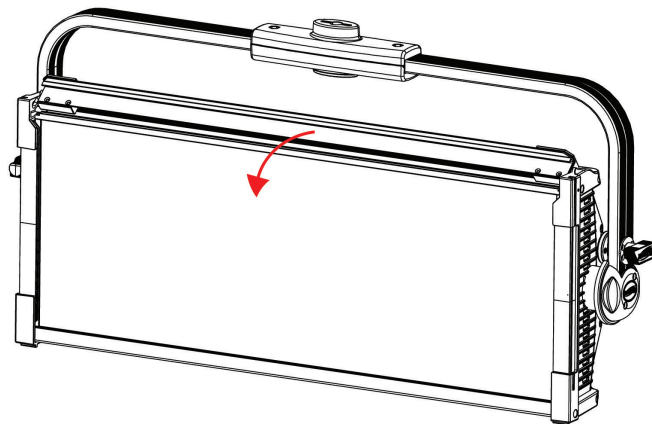
BATTERY CONNECTION

This device is capable of receiving power from a battery pack.

NOTICE: The user is responsible for ensuring compatibility between the device and the battery pack. Always ensure that the output specifications, operating conditions, and connection pinouts of the battery pack match the device requirements.

The device features a 4-pin XLR connector for battery power. The connector is located on the back of the device, next to the DMX In/Out connectors, and is covered with a dust cap. **BE CAREFUL NOT TO CONNECT BATTERY POWER TO ONE OF THE DMX CONNECTORS BY MISTAKE!** The pinout is illustrated below:
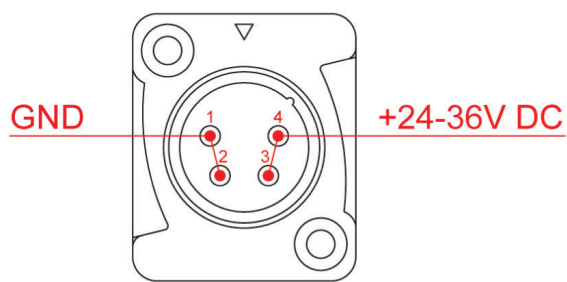
Pin	Assignment
1	GND
2	
3	+24-36V DC
4	

Consult the **Safety Guidelines** section of this user manual, as well as any safety instructions included with your battery pack before use or installation.

The device consumes up to 544W when operating all LEDs at full output, which may require significant battery output to provide the required power. To extend the battery life, it is possible to reduce the LED power by up to to 50% of maximum output using the "LED Power Limit" menu in the Personality section of the system menu. Please refer to the **System Menu** section of this manual for detailed information.

SYSTEM MENU

The fixture includes an easy to navigate system menu. The control panel (see image below) located on the back of the fixture provides access to the main system menu, where all neces-sary system adjustments are made. 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 dif-ferent functions and access the sub-menus with the UP and DOWN buttons. Once you reach a field that requires adjusting, press the ENTER button to activate that field and use the UP and DOWN buttons to adjust the field. Pressing the ENTER button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by pressing the MODE button.

The display screen can be locked by selecting **PERSONALITY > DISPLAY > SCREEN LOCK.** To unlock the display screen, simply press and hold the MODE button for three (3) seconds.
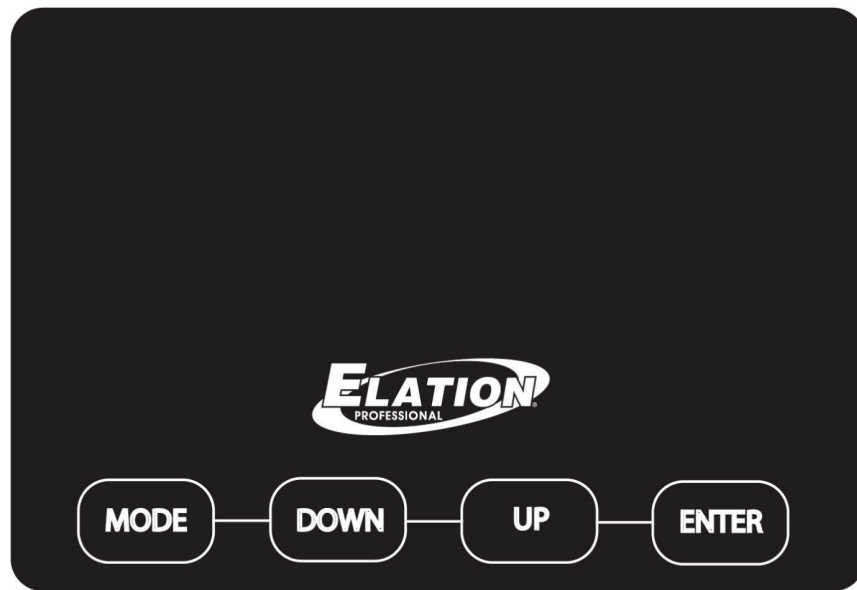
SYSTEM MENU

ELATION KL Panel XL - System Menu			
Supports Software Versions: 1.07			
HOME INTERFACE SHOW	xx CH xxxx ADDR: 001		Displays currently selected DMX mode
ENCODER MODE	Disabled		Select to run fixture in DMX control mode
	Int CCT GRN		Select to run fixture in CCT mode with encoder control
	HSI		Select to run fixture in HSI mode with encoder control
	Int Color Sat		Select to run fixture in Color mode with encoder control
	Manual Control		Select to run fixture in manual control mode with encoder control
DMX SETTINGS	DMX Address	001 - 512	
	DMX Mode	**1Ch Dimmer**	
		4Ch Dimmer Color	
		7Ch Dimmer Color FX	
		6Ch RGBWLC	
		12Ch RGBWLC 16bit	
		48Ch RGBWLC Cells	
		96Ch RGBWLC Cells 16bit	
		24CH RGB Cells	
		14Ch Standard	
		23Ch Extended	
		58Ch Extended Cells	
		4Ch HSI	
		12Ch HSI Ex	
	No DMX Status	**Hold Last**	
		Fade to Black	
		Standalone	
CONTINUED ON NEXT PAGE			

SYSTEM MENU

ELATION KL Panel XL - System Menu			
Supports Software Versions: 1.07			
STANDALONE	Dimmer	**0%** - 100%	
	CCT	**2000K** - 10000K	
	Green Shift	-100% - +100%	**Default = 0%**
	Virtual Color	**Color01** - Color53	
PERSONALITY	Primary	On / **Off**	
	Secondary	On / **Off**	
	Select Signal	**DMX or E-Fly**	
		E-Fly and DMX Out	
	Dim Mode	**Standard**	
		Stage	
		Architectural	
		Theatre	
		Stage 2	
		Dim Speed	0s - 10s	Default = **0.0 s**
	Dim Curves	**Linear**	
		Square	
		Square Inverse	
		S-Curve	
	E-Fly Setting	E-Fly Setting Set Channel	**00** - 14	
		Enable E-Fly	Yes / **No**	
	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	

CONTINUED ON NEXT PAGE

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SYSTEM MENU

ELATION KL Panel XL - System Menu				
Supports Software Versions: 1.07				
PERSONALITY (continued)	Display	Display Screen Delay	10s - 5min (default = **1min**)	Display returns to home screen after 30s of inactivity
		Display Screen Lock	**Off,** 10s - 5min	
		Rotate Display	Yes / **No** / Auto	
	Network	Switch	On / **Off**	
		Universe	**0** - 255	
		IP: **002.000.000.002**		
		Subnet: **255.000.000.000**		
		Protocol	**ArtNet** / Kling-Net	
	Service	Passcode = 050	Calibration	Red: 50 - 255
				Green: 50 - 255
				Blue: 50 - 255
				…
			Update Software (USB Update)	Yes / **No**
			Factory Restore	Yes / **No**
			Edit RDM UID	xxxxxx
INFORMATION	Life Time	xxxxxx hrs		Total fixture run time, not reset-table
	Last Run Time	xxxxxx hrs		Fixture run time, resettable
	Time Reset	Passcode = 038		Reset Last Run Time
	Temperature	Current		
		Max Resettable		
		Reset (passcode = 038)		
	DMX Values	R: xxx		
		G: xxx		
		B: xxx		
		…		
	Product IDs	Max Address		
		RDM UID		
	Error Logs	Fixture Errors		
	Reset Error Log	No / Yes	Passcode = 050	
	Software Verson	Vx.x.x		

MANUAL MODE

ENCODER KNOB DESIGNATIONS

Encoder Knob 1

Encoder Knob 2
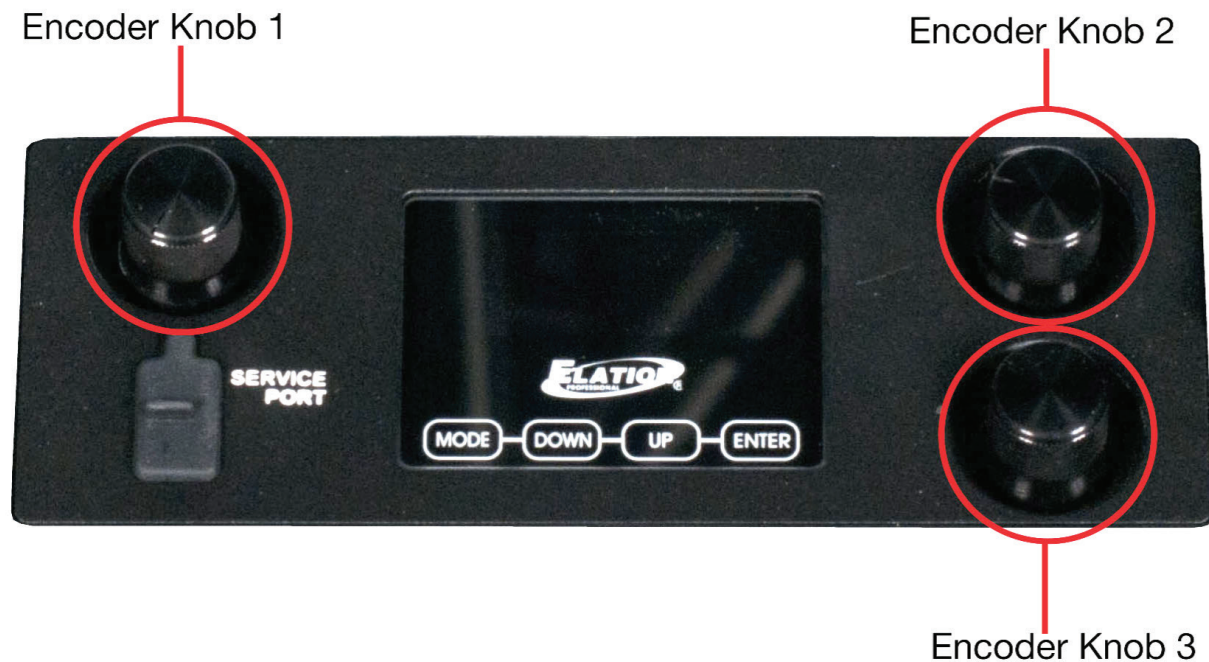
Encoder Knob 3

INT CCT GRN (INTENSITY, COLOR TEMPERATURE, GREEN SHIFT)

Encoder Knob	Parameter	Display	Resolution/ Steps	Default
1	Intensity	Intensity 0 - 100%	1%	0%
2	Color Temperature	CCT 2000 - 10000K	100K	6000K
3	Green Shift	GRN -100% - +100%	1%	Neutral

HSI (HUE, SATURATION, INTENSITY)

Encoder Knob	Parameter	Display	Resolution/ Steps	Default
1	Intensity	Intensity 0 - 100%	1%	0%
2	Hue	Hue 0 - 360°	1°	0°
3	Saturation	Sat 0 - 100%	1%	100%

MANUAL MODE

INT COL SAT (INTENSITY, COLOR, SATURATION)

Encoder Knob	Parameter	Display	Resolution/ Steps	Default
1	Intensity	Intensity 0 - 100%	1%	0%
2	Color	White, Virtual Color 1, 2, 3...	Single Color	White
3	Saturation	Sat 0 - 100%	1%	100%

MANUAL

Encoder Knob	Parameter	Display	Resolution/ Steps	Default
1	Intensity	Intensity 0 - 100%	1%	0%
2	Setting Adjustment	[Setting Name] 0 - 255	1	0
3	Setting Selection	[Setting Name] 0 - 255	Strobe / Red / Green / Blue / White / Lime / Cyan	Strobe

DMX CHANNEL FUNCTIONS AND VALUES

DIMMER MODE (1 CHANNEL)

Chan-nel	Value	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions				
Supports Software Versions: 1.07				
1	000 - 255	**Dimmer,** Intensity 0% to 100%	0	

DIMMER COLOR MODE (4 CHANNELS)

Chan-nel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions				
Supports Software Versions: 1.07				
1	000 - 255	**Dimmer,** Intensity 0% to 100%	0	
2	000 - 255	**Dimmer Fine**	0	
3		**CCT**	0	
	000 - 019	Open		
	020 - 100	CCT 2000K - 10000K, see **Color Temperature Char**t		
	101 - 255	10000K		
4		**Color Wheel**	0	
	000	Open		
	001 - 179	Virtual Swatch Book, see **Virtual Swatch Book Chart**		
		Color Scroll		
	180 - 201	Clockwise, fast to slow		
	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		

DMX CHANNEL FUNCTIONS AND VALUES

DIMMER COLOR FX MODE (7 CHANNELS)

Chan-nel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions			
Supports Software Versions: 1.07			
1	000 - 255	**Dimmer,** Intensity 0% to 100%	0	
2	000 - 255	**Dimmer Fine**	0	
3		**CCT**	0	
	000 - 019	Open		
	020 - 100	CCT 2000K - 10000K, see **Color Temperature Chart**		
	101 - 255	10000K		
4		**Color Wheel**	0	
	000	Open		
	001 - 179	Virtual Swatch Book, see **Virtual Swatch Book Chart**		
		Color Scroll		
	180 - 201	Clockwise, fast to slow		
	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		
5	000 - 255	**FX Selection,** see **FX Table**	0	Snap
6	000 - 255	**FX Adjustment,** see **FX Adjustment Table**	127	Fade
7		**FX Offset**	0	Snap
	000	Idle		
	001 - 035	Fixture Offset, 10 degrees to 350 degrees		
	036	Synchronized		
	037 - 100	No Function		
	101 - 120	Random Fixture Offset		
	121 - 140	Random Pixel Order		
	141 - 255	Random Steps		

DMX CHANNEL FUNCTIONS AND VALUES

RGBWLC MODE (6 CHANNELS)

Elation KL Panel XL DMX Channels / Functions				
Supports Software Versions: 1.07				
Chan-nel	Values	Function	Default	Snap
1	000 - 255	**Red,** 0% to 100%	255	
2	000 - 255	**Green,** 0% to 100%	255	
3	000 - 255	**Blue,** 0% to 100%	255	
4	000 - 255	**White,** 0% to 100%	255	
5	000 - 255	**Lime,** 0% to 100%	255	
6	000 - 255	**Cyan,** 0% to 100%	255	

RGBWLC 16-BIT MODE (12 CHANNELS)

Elation KL Panel XL DMX Channels / Functions				
Supports Software Versions: 1.07				
Chan-nel	Values	Function	Default	Snap
1	000 - 255	**Red,** 0% to 100%	255	
2	000 - 255	**Red Fine,** 0% to 100%	255	
3	000 - 255	**Green,** 0% to 100%	255	
4	000 - 255	**Green Fine,** 0% to 100%	255	
5	000 - 255	**Blue,** 0% to 100%	255	
6	000 - 255	**Blue Fine,** 0% to 100%	255	
7	000 - 255	**White,** 0% to 100%	255	
8	000 - 255	**White Fine,** 0% to 100%	255	
9	000 - 255	**Lime,** 0% to 100%	255	
10	000 - 255	**Lime Fine,** 0% to 100%	255	
11	000 - 255	**Cyan,** 0% to 100%	255	
12	000 - 255	**Cyan Fine,** 0% to 100%	255	

DMX CHANNEL FUNCTIONS AND VALUES

RGBWLC CELLS MODE (48 CHANNELS)

Chan-nel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions
Supports Software Versions: 1.07
1	000 - 255	**Red1,** 0% to 100%	255	
2	000 - 255	**Green1,** 0% to 100%	255	
3	000 - 255	**Blue1,** 0% to 100%	255	
4	000 - 255	**White1,** 0% to 100%	255	
5	000 - 255	**Lime1,** 0% to 100%	255	
6	000 - 255	**Cyan1,** 0% to 100%	255	
7	000 - 255	**Red2,** 0% to 100%	255	
8	000 - 255	**Green2,** 0% to 100%	255	
9	000 - 255	**Blue2,** 0% to 100%	255	
10	000 - 255	**White2,** 0% to 100%	255	
11	000 - 255	**Lime2,** 0% to 100%	255	
12	000 - 255	**Cyan2,** 0% to 100%	255	
13	000 - 255	**Red3,** 0% to 100%	255	
14	000 - 255	**Green3,** 0% to 100%	255	
15	000 - 255	**Blue3,** 0% to 100%	255	
16	000 - 255	**White3,** 0% to 100%	255	
17	000 - 255	**Lime3,** 0% to 100%	255	
18	000 - 255	**Cyan3,** 0% to 100%	255	
19	000 - 255	**Red4,** 0% to 100%	255	
20	000 - 255	**Green4,** 0% to 100%	255	
21	000 - 255	**Blue4,** 0% to 100%	255	
22	000 - 255	**White4,** 0% to 100%	255	
23	000 - 255	**Lime4,** 0% to 100%	255	
24	000 - 255	**Cyan4,** 0% to 100%	255	
25	000 - 255	**Red5,** 0% to 100%	255	
26	000 - 255	**Green5,** 0% to 100%	255	
27	000 - 255	**Blue5,** 0% to 100%	255	
28	000 - 255	**White5,** 0% to 100%	255	
29	000 - 255	**Lime5,** 0% to 100%	255	
30	000 - 255	**Cyan5,** 0% to 100%	255	
31	000 - 255	**Red6,** 0% to 100%	255	
32	000 - 255	**Green6,** 0% to 100%	255	
33	000 - 255	**Blue6,** 0% to 100%	255	
34	000 - 255	**White6,** 0% to 100%	255	

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DMX CHANNEL FUNCTIONS AND VALUES

RGBWLC CELLS MODE (48 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions
Supports Software Versions: 1.07
35	000 - 255	**Lime6,** 0% to 100%	255	
36	000 - 255	**Cyan6,** 0% to 100%	255	
37	000 - 255	**Red7,** 0% to 100%	255	
38	000 - 255	**Green7,** 0% to 100%	255	
39	000 - 255	**Blue7,** 0% to 100%	255	
40	000 - 255	**White7,** 0% to 100%	255	
41	000 - 255	**Lime7,** 0% to 100%	255	
42	000 - 255	**Cyan7,** 0% to 100%	255	
43	000 - 255	**Red8,** 0% to 100%	255	
44	000 - 255	**Green8,** 0% to 100%	255	
45	000 - 255	**Blue8,** 0% to 100%	255	
46	000 - 255	**White8,** 0% to 100%	255	
47	000 - 255	**Lime8,** 0% to 100%	255	
48	000 - 255	**Cyan8,** 0% to 100%	255	

RGBWLC CELLS 16-BIT MODE (96 CHANNELS)

Chan-nel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions
Supports Software Versions: 1.07
1	000 - 255	**Red1,** 0% to 100%	255	
2	000 - 255	**Red1 Fine,** 0% to 100%	255	
3	000 - 255	**Green1,** 0% to 100%	255	
4	000 - 255	**Green1 Fine,** 0% to 100%	255	
5	000 - 255	**Blue1,** 0% to 100%	255	
6	000 - 255	**Blue1 Fine,** 0% to 100%	255	
7	000 - 255	**White1,** 0% to 100%	255	
8	000 - 255	**White1 Fine,** 0% to 100%	255	
9	000 - 255	**Lime1,** 0% to 100%	255	
10	000 - 255	**Lime1 Fine,** 0% to 100%	255	
11	000 - 255	**Cyan1,** 0% to 100%	255	
12	000 - 255	**Cyan1 Fine,** 0% to 100%	255	
13	000 - 255	**Red2,** 0% to 100%	255	
14	000 - 255	**Red2 Fine,** 0% to 100%	255	
15	000 - 255	**Green2,** 0% to 100%	255	

DMX CHANNEL FUNCTIONS AND VALUES

RGBWLC CELLS 16-BIT MODE (96 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
16	000 - 255	**Green2 Fine,** 0% to 100%	255	
17	000 - 255	**Blue2,** 0% to 100%	255	
18	000 - 255	**Blue2 Fine,** 0% to 100%	255	
19	000 - 255	**White2,** 0% to 100%	255	
20	000 - 255	**White2 Fine,** 0% to 100%	255	
21	000 - 255	**Lime2,** 0% to 100%	255	
22	000 - 255	**Lime2 Fine,** 0% to 100%	255	
23	000 - 255	**Cyan2,** 0% to 100%	255	
24	000 - 255	**Cyan2 Fine,** 0% to 100%	255	
25	000 - 255	**Red3,** 0% to 100%	255	
26	000 - 255	**Red3 Fine,** 0% to 100%	255	
27	000 - 255	**Green3,** 0% to 100%	255	
28	000 - 255	**Green3 Fine,** 0% to 100%	255	
29	000 - 255	**Blue3,** 0% to 100%	255	
30	000 - 255	**Blue3 Fine,** 0% to 100%	255	
31	000 - 255	**White3,** 0% to 100%	255	
32	000 - 255	**White3 Fine,** 0% to 100%	255	
33	000 - 255	**Lime3,** 0% to 100%	255	
34	000 - 255	**Lime3 Fine,** 0% to 100%	255	
35	000 - 255	**Cyan3,** 0% to 100%	255	
36	000 - 255	**Cyan3 Fine,** 0% to 100%	255	
37	000 - 255	**Red4,** 0% to 100%	255	
38	000 - 255	**Red4 Fine,** 0% to 100%	255	
39	000 - 255	**Green4,** 0% to 100%	255	
40	000 - 255	**Green4 Fine,** 0% to 100%	255	
41	000 - 255	**Blue4,** 0% to 100%	255	
42	000 - 255	**Blue4 Fine,** 0% to 100%	255	
43	000 - 255	**White4,** 0% to 100%	255	
44	000 - 255	**White4 Fine,** 0% to 100%	255	
45	000 - 255	**Lime4,** 0% to 100%	255	
46	000 - 255	**Lime4 Fine,** 0% to 100%	255	
47	000 - 255	**Cyan4,** 0% to 100%	255	
48	000 - 255	**Cyan4 Fine,** 0% to 100%	255	
49	000 - 255	**Red5,** 0% to 100%	255	

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DMX CHANNEL FUNCTIONS AND VALUES

RGBWLC CELLS 16-BIT MODE (96 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
50	000 - 255	**Red5 Fine,** 0% to 100%	255	
51	000 - 255	**Green5,** 0% to 100%	255	
52	000 - 255	**Green5 Fine,** 0% to 100%	255	
53	000 - 255	**Blue5,** 0% to 100%	255	
54	000 - 255	**Blue5 Fine,** 0% to 100%	255	
55	000 - 255	**White5,** 0% to 100%	255	
56	000 - 255	**White5 Fine,** 0% to 100%	255	
57	000 - 255	**Lime5,** 0% to 100%	255	
58	000 - 255	**Lime5 Fine,** 0% to 100%	255	
59	000 - 255	**Cyan5,** 0% to 100%	255	
60	000 - 255	**Cyan5 Fine,** 0% to 100%	255	
61	000 - 255	**Red6,** 0% to 100%	255	
62	000 - 255	**Red6 Fine,** 0% to 100%	255	
63	000 - 255	**Green6,** 0% to 100%	255	
64	000 - 255	**Green6 Fine,** 0% to 100%	255	
65	000 - 255	**Blue6,** 0% to 100%	255	
66	000 - 255	**Blue6 Fine,** 0% to 100%	255	
67	000 - 255	**White6,** 0% to 100%	255	
68	000 - 255	**White6 Fine,** 0% to 100%	255	
69	000 - 255	**Lime6,** 0% to 100%	255	
70	000 - 255	**Lime6 Fine,** 0% to 100%	255	
71	000 - 255	**Cyan6,** 0% to 100%	255	
72	000 - 255	**Cyan6 Fine,** 0% to 100%	255	
73	000 - 255	**Red7,** 0% to 100%	255	
74	000 - 255	**Red7 Fine,** 0% to 100%	255	
75	000 - 255	**Green7,** 0% to 100%	255	
76	000 - 255	**Green7 Fine,** 0% to 100%	255	
77	000 - 255	**Blue7,** 0% to 100%	255	
78	000 - 255	**Blue7 Fine,** 0% to 100%	255	
79	000 - 255	**White7,** 0% to 100%	255	
80	000 - 255	**White7 Fine,** 0% to 100%	255	
81	000 - 255	**Lime7,** 0% to 100%	255	
82	000 - 255	**Lime7 Fine,** 0% to 100%	255	
83	000 - 255	**Cyan7,** 0% to 100%	255	

DMX CHANNEL FUNCTIONS AND VALUES

RGBWLC CELLS 16-BIT MODE (96 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions				
Supports Software Versions: 1.07				
84	000 - 255	**Cyan7 Fine,** 0% to 100%	255	
85	000 - 255	**Red8,** 0% to 100%	255	
86	000 - 255	**Red8 Fine,** 0% to 100%	255	
87	000 - 255	**Green8,** 0% to 100%	255	
88	000 - 255	**Green8 Fine,** 0% to 100%	255	
89	000 - 255	**Blue8,** 0% to 100%	255	
90	000 - 255	**Blue8 Fine,** 0% to 100%	255	
91	000 - 255	**White8,** 0% to 100%	255	
92	000 - 255	**White8 Fine,** 0% to 100%	255	
93	000 - 255	**Lime8,** 0% to 100%	255	
94	000 - 255	**Lime8 Fine,** 0% to 100%	255	
95	000 - 255	**Cyan8,** 0% to 100%	255	
96	000 - 255	**Cyan8 Fine,** 0% to 100%	255	

RGB CELLS MODE (24 CHANNELS)

Chan-nel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions				
Supports Software Versions: 1.07				
1	000 - 255	**Red1,** 0% to 100%	255	
2	000 - 255	**Green1,** 0% to 100%	255	
3	000 - 255	**Blue1,** 0% to 100%	255	
4	000 - 255	**Red2,** 0% to 100%	255	
5	000 - 255	**Green2,** 0% to 100%	255	
6	000 - 255	**Blue2,** 0% to 100%	255	
7	000 - 255	**Red3,** 0% to 100%	255	
8	000 - 255	**Green3,** 0% to 100%	255	
9	000 - 255	**Blue3,** 0% to 100%	255	
10	000 - 255	**Red4,** 0% to 100%	255	
11	000 - 255	**Green4,** 0% to 100%	255	
12	000 - 255	**Blue4,** 0% to 100%	255	
13	000 - 255	**Red5,** 0% to 100%	255	
14	000 - 255	**Green5,** 0% to 100%	255	
15	000 - 255	**Blue5,** 0% to 100%	255	
16	000 - 255	**Red6,** 0% to 100%	255	

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DMX CHANNEL FUNCTIONS AND VALUES

RGB CELLS MODE (24 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions
Supports Software Versions: 1.07
17	000 - 255	**Green6,** 0% to 100%	255	
18	000 - 255	**Blue6,** 0% to 100%	255	
19	000 - 255	**Red7,** 0% to 100%	255	
20	000 - 255	**Green7,** 0% to 100%	255	
21	000 - 255	**Blue7,** 0% to 100%	255	
22	000 - 255	**Red8,** 0% to 100%	255	
23	000 - 255	**Green8,** 0% to 100%	255	
24	000 - 255	**Blue8,** 0% to 100%	255	

STANDARD MODE (14 CHANNELS)

Chan-nel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions
Supports Software Versions: 1.07
1		**Shutter, Strobe**	50	Snap
	000 - 031	Shutter closed		
	032 - 063	No function (shutter open)		
	064 - 095	Strobe effect, slow to fast		
	096 - 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	000 - 255	**Dimmer,** Intensity 0% to 100%	0	
3	000 - 255	**Dimmer Fine**	0	
4	000 - 255	**Red,** 0% to 100%	255	
5	000 - 255	**Green,** 0% to 100%	255	
6	000 - 255	**Blue,** 0% to 100%	255	
7		**CCT**	0	
	000 - 019	Open		
	020 - 100	CCT, 2000K to 10000K (see **Color Temperature Chart**)		
	101 - 255	10000K		

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DMX CHANNEL FUNCTIONS AND VALUES

STANDARD MODE (14 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
8		**Green Shift**	0	
	000	Idle		
	001 - 127	Full Minus Green to Neutral		
	128	Neutral White		
	129 - 255	Neutral to Full Plus Green		
9		**Color Wheel**	0	
	000	Open		
	001 - 179	Virtual Swatch Book, see **Virtual Swatch Book Chart**		
		Color Scroll		
	180 - 201	Clockwise, fast to slow		
	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		
10		**Dim Modes**	0	Snap
	000 - 020	Standard		
	021 - 040	Stage		
	041 - 060	TV		
	061 - 080	Architectural		
	081 - 100	Theatre		
	101 - 120	Stage 2		
		Dimmer Delay Time		
	121	0s		
	122	0.1s		
	123	0.2s		
	124	0.3s		
	125	0.4s		
	126	0.5s		
	127	0.6s		
	128	0.7s		

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DMX CHANNEL FUNCTIONS AND VALUES

STANDARD MODE (14 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
10		**Dimmer Delay Time (continued)**	0	Snap
	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		
11		**Control**	0	Snap
	000 - 029	Idle		
	030 - 039	Fan Mode Auto		
	040 - 049	Fan Mode Silent		
	050 - 059	Fan Mode High		
	060 - 079	Idle		
	080 - 084	Reset		
	085 - 099	Idle		
	100 - 168	Refresh Rate (Hz), see **Refresh Rate Table**		
	169 - 200	Idle		
	201 - 210	Dimmer Curve Linear (default)		
	211 - 220	Dimmer Curve Square		
	221 - 230	Dimmer Curve Inverse Square		
	231 - 240	Dimmer Curve S-Curve		
	241	Internal Program 1 (Scene 1-8)		
	242	Internal Program 2 (Scene 9-16)		
	243	Internal Program 3 (Scene 17-24)		
	244	Internal Program 4 (Scene 25-32)		
	245	Internal Program 5 (Scene 33-40)		

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DMX CHANNEL FUNCTIONS AND VALUES

STANDARD MODE (14 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
11		**Control (continued)**	0	Snap
	246	Internal Program 6 (Scene 41-48)		
	247	Internal Program 7 (Scene 49-56)		
	248 - 255	Idle		
12	000 - 255	FX Selection, see **FX Table**	0	Snap
13	000 - 255	FX Adjustment, see **FX Adjustment Table**	127	Fade
14		**FX Offset**	0	Snap
	000	Idle		
	001 - 035	Fixture Offset, 10 Degrees to 350 Degrees		
	036	Synchronized		
	037 - 100	No function		
	101 - 120	Random fixture offset		
	121 - 140	Random pixel order		
	141 - 255	Random steps		

EXTENDED MODE (23 CHANNELS)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
1		**Shutter, Strobe**	50	Snap
	000 - 031	Shutter closed		
	032 - 063	No function (shutter open)		
	064 - 095	Strobe effect, slow to fast		
	096 - 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	000 - 255	**Dimmer,** Intensity 0% to 100%	0	
3	000 - 255	**Dimmer Fine**	0	
4	000 - 255	**Red,** 0% to 100%	255	
5	000 - 255	**Red Fine,** 0% to 100%	255	
6	000 - 255	**Green,** 0% to 100%	255	
7	000 - 255	**Green Fine,** 0% to 100%	255	

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DMX CHANNEL FUNCTIONS AND VALUES

EXTENDED MODE (23 CHANNELS) (continued)

Channel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions
Supports Software Versions: 1.07
8	000 - 255	**Blue,** 0% to 100%	255	
9	000 - 255	**Blue Fine,** 0% to 100%	255	
10	000 - 255	**White,** 0% to 100%	255	
11	000 - 255	**White Fine,** 0% to 100%	255	
12	000 - 255	**Lime,** 0% to 100%	255	
13	000 - 255	**Lime Fine,** 0% to 100%	255	
14	000 - 255	**Cyan,** 0% to 100%	255	
15	000 - 255	**Cyan Fine,** 0% to 100%	255	
16		**CCT**	0	
	000 - 019	Idle		
	020 - 100	CCT, 2000K to 10000K (see **Color Temperature Chart**)		
	101 - 255	10000K		
17		**Green Shift**	0	
	000	Idle		
	001 - 127	Full Minus Green to Neutral		
	128	Neutral White		
	129 - 255	Neutral to Full Plus Green		
18		**Color Wheel**	0	
	000	Open		
	001 - 179	Virtual Swatch Book, see **Virtual Swatch Book Chart**		
		Color Scroll		
	180 - 201	Clockwise, fast to slow		
	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		

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DMX CHANNEL FUNCTIONS AND VALUES

EXTENDED MODE (23 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
19		**Dim Modes**	0	Snap
	000 - 020	Standard		
	021 - 040	Stage		
	041 - 060	TV		
	061 - 080	Architectural		
	081 - 100	Theatre		
	101 - 120	Stage 2		
		Dimmer Delay Time		
	121	0s		
	122	0.1s		
	123	0.2s		
	124	0.3s		
	125	0.4s		
	126	0.5s		
	127	0.6s		
	128	0.7s		
	129	0.8s		
	130	0.9s		
	131	1.0s		
	132	1.5s		
	133	2.0s		
	134	3.0s		
	135	4.0s		
	136	5.0s		
	137	6.0s		
	138	7.0s		
	139	8.0s		
	140	9.0s		
	141	10s		
	142 - 255	Idle		
20		**Control**	0	Snap
	000 - 029	Idle		
	030 - 039	Fan Mode Auto		
	040 - 049	Fan Mode Silent		

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DMX CHANNEL FUNCTIONS AND VALUES

EXTENDED MODE (23 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
20		**Control (continued)**	0	Snap
	050 - 059	Fan Mode High		
	060 - 079	Idle		
	080 - 084	Reset		
	085 - 099	Idle		
	100 - 168	Refresh Rate (Hz), see **Refresh Rate Table**		
	169 - 200	Idle		
	201 - 210	Dimmer Curve Linear (default)		
	211 - 220	Dimmer Curve Square		
	221 - 230	Dimmer Curve Inverse Square		
	231 - 240	Dimmer Curve S-Curve		
	241	Internal Program 1 (Scene 1-8)		
	242	Internal Program 2 (Scene 9-16)		
	243	Internal Program 3 (Scene 17-24)		
	244	Internal Program 4 (Scene 25-32)		
	245	Internal Program 5 (Scene 33-40)		
	246	Internal Program 6 (Scene 41-48)		
	247	Internal Program 7 (Scene 49-56)		
	248 - 255	Idle		
21	000 - 255	**FX Selection,** see **FX Table**	0	Snap
22	000 - 255	**FX Adjustment,** see **FX Adjustment Table**	127	Fade
23		**FX Offset**	0	Snap
	000	Idle		
	001 - 035	Fixture Offset, 10 Degrees to 350 Degrees		
	036	Synchronized		
	037 - 100	No function		
	101 - 120	Random Fixture Offset		
	121 - 140	Random Pixel Order		
	141 - 255	Random Steps		

DMX CHANNEL FUNCTIONS AND VALUES

EXTENDED CELLS MODE (58 CHANNELS)

Channel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
1		**Shutter, Strobe**	50	Snap
	000 - 031	Shutter closed		
	032 - 063	No function (shutter open)		
	064 - 095	Strobe effect, slow to fast		
	096 - 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	000 - 255	**Dimmer Intensity,** 0% to 100%	0	
3		**CCT**	0	
	000 - 019	Open		
	020 - 100	CCT, 2000K to 10000K (see **Color Temperature Chart**)		
	101 - 255	10000K		
4		**Green Shift**	0	
	000	Idle		
	001 - 127	Full Minus Green to Neutral		
	128	Neutral White		
	129 - 255	Neutral to Full Plus Green		
5		**Color Wheel**	0	
	000	Open		
	001 - 179	Virtual Swatch Book, see Virtual Swatch Book Table		
		Color Scroll		
	180 - 201	Clockwise, fast to slow		
	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		

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DMX CHANNEL FUNCTIONS AND VALUES

EXTENDED CELLS MODE (58 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
6		**Dim Modes**	0	Snap
	000 - 020	Standard		
	021 - 040	Stage		
	041 - 060	TV		
	061 - 080	Architectural		
	081 - 100	Theatre		
	101 - 120	Stage 2		
		Dimmer Delay Time		
	121	0s		
	122	0.1s		
	123	0.2s		
	124	0.3s		
	125	0.4s		
	126	0.5s		
	127	0.6s		
	128	0.7s		
	129	0.8s		
	130	0.9s		
	131	1.0s		
	132	1.5s		
	133	2.0s		
	134	3.0s		
	135	4.0s		
	136	5.0s		
	137	6.0s		
	138	7.0s		
	139	8.0s		
	140	9.0s		
	141	10s		
	142 - 255	Idle		
7		**Control**	0	Snap
	000 - 029	Idle		
	030 - 039	Fan Mode Auto		
	040 - 049	Fan Mode Silent		

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DMX CHANNEL FUNCTIONS AND VALUES

EXTENDED CELLS MODE (58 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
7		**Control (continued)**	0	Snap
	050 - 059	Fan Mode High		
	060 - 079	Idle		
	080 - 084	Reset		
	085 - 099	Idle		
	100 - 168	Refresh Rate (Hz), see **Refresh Rate Table**		
	169 - 200	Idle		
	201 - 210	Dimmer Curve Linear (default)		
	211 - 220	Dimmer Curve Square		
	221 - 230	Dimmer Curve Inverse Square		
	231 - 240	Dimmer Curve S-Curve		
	241	Internal Program 1 (Scene 1-8)		
	242	Internal Program 2 (Scene 9-16)		
	243	Internal Program 3 (Scene 17-24)		
	244	Internal Program 4 (Scene 25-32)		
	245	Internal Program 5 (Scene 33-40)		
	246	Internal Program 6 (Scene 41-48)		
	247	Internal Program 7 (Scene 49-56)		
	248 - 255	Idle		
8	000 - 255	**FX Selection,** see **FX Table**	0	Snap
9	000 - 255	**FX Adjustment,** see **FX Adjustment Table**	127	Fade
10		**FX Offset**	0	Snap
	000	Idle		
	001 - 035	Fixture Offset, 10 Degrees to 350 Degrees		
	036	Synchronized		
	037 - 100	No function		
	101 - 120	Random Fixture Offset		
	121 - 140	Random Pixel Order		
	141 - 255	Random Steps		
11	000 - 255	**Red1,** 0% to 100%	255	
12	000 - 255	**Green1,** 0% to 100%	255	
13	000 - 255	**Blue1,** 0% to 100%	255	
14	000 - 255	**White1,** 0% to 100%	255	
15	000 - 255	**Lime1,** 0% to 100%	255	

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DMX CHANNEL FUNCTIONS AND VALUES

EXTENDED CELLS MODE (58 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
16	000 - 255	**Cyan1,** 0% to 100%	255	
17	000 - 255	**Red2,** 0% to 100%	255	
18	000 - 255	**Green2,** 0% to 100%	255	
19	000 - 255	**Blue2,** 0% to 100%	255	
20	000 - 255	**White2,** 0% to 100%	255	
21	000 - 255	**Lime2,** 0% to 100%	255	
22	000 - 255	**Cyan2,** 0% to 100%	255	
23	000 - 255	**Red3,** 0% to 100%	255	
24	000 - 255	**Green3,** 0% to 100%	255	
25	000 - 255	**Blue3,** 0% to 100%	255	
26	000 - 255	**White3,** 0% to 100%	255	
27	000 - 255	**Lime3,** 0% to 100%	255	
28	000 - 255	**Cyan3,** 0% to 100%	255	
29	000 - 255	**Red4,** 0% to 100%	255	
30	000 - 255	**Green4,** 0% to 100%	255	
31	000 - 255	**Blue4,** 0% to 100%	255	
32	000 - 255	**White4,** 0% to 100%	255	
33	000 - 255	**Lime4,** 0% to 100%	255	
34	000 - 255	**Cyan4,** 0% to 100%	255	
35	000 - 255	**Red5,** 0% to 100%	255	
36	000 - 255	**Green5,** 0% to 100%	255	
37	000 - 255	**Blue5,** 0% to 100%	255	
38	000 - 255	**White5,** 0% to 100%	255	
39	000 - 255	**Lime5,** 0% to 100%	255	
40	000 - 255	**Cyan5,** 0% to 100%	255	
41	000 - 255	**Red6,** 0% to 100%	255	
42	000 - 255	**Green6,** 0% to 100%	255	
43	000 - 255	**Blue6,** 0% to 100%	255	
44	000 - 255	**White6,** 0% to 100%	255	
45	000 - 255	**Lime6,** 0% to 100%	255	
46	000 - 255	**Cyan6,** 0% to 100%	255	
47	000 - 255	**Red7,** 0% to 100%	255	
48	000 - 255	**Green7,** 0% to 100%	255	
49	000 - 255	**Blue7,** 0% to 100%	255	

DMX CHANNEL FUNCTIONS AND VALUES

EXTENDED CELLS MODE (58 CHANNELS) (continued)

Channel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions				
Supports Software Versions: 1.07				
50	000 - 255	**White7,** 0% to 100%	255	
51	000 - 255	**Lime7,** 0% to 100%	255	
52	000 - 255	**Cyan7,** 0% to 100%	255	
53	000 - 255	**Red8,** 0% to 100%	255	
54	000 - 255	**Green8,** 0% to 100%	255	
55	000 - 255	**Blue8,** 0% to 100%	255	
56	000 - 255	**White8,** 0% to 100%	255	
57	000 - 255	**Lime8,** 0% to 100%	255	
58	000 - 255	**Cyan8,** 0% to 100%	255	

HSI MODE (4 CHANNELS)

Channel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions				
Supports Software Versions: 1.07				
1	000 - 255	**Dimmer Intensity,** 0% to 100%	0	
2	000 - 255	**Dimmer Fine**	0	
3	000 - 255	**Hue,** 0% to 100%	255	
4	000 - 255	**Saturation,** 0% to 100%	255	

HSI EXTENDED MODE (12 CHANNELS)

Channel	Values	Function	Default	Snap
Elation KL Panel XL DMX Channels / Functions				
Supports Software Versions: 1.07				
1		**Shutter, strobe**	50	Snap
	000 - 031	Shutter closed		
	032 - 063	No function (shutter open)		
	064 - 095	Strobe effect, slow to fast		
	096 - 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	000 - 255	**Dimmer Intensity,** 0% to 100%	0	
3	000 - 255	**Dimmer Fine**	0	

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DMX CHANNEL FUNCTIONS AND VALUES

HSI EXTENDED MODE (12 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
4	000 - 255	**Hue,** 0% to 100%	255	
5	000 - 255	**Saturation,** 0% to 100%	255	
6		**CCT**	0	
	000 - 019	Open		
	020 - 100	CCT 2000K - 10000K (see **Color Temperature Table**)		
	101 - 255	10000K		
7		**Color Wheel**	0	
	000	Open		
	001 - 179	Virtual Swatch Book (see **Virtual Swatch Book**)		
		Color Scroll		
	180 - 201	Clockwise, fast to slow		
	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		
8		**Dim Modes**	0	Snap
	000 - 020	Standard		
	021 - 040	Stage		
	041 - 060	TV		
	061 - 080	Architectural		
	081 - 100	Theatre		
	101 - 120	Stage 2		
		Dimmer Delay Time		
	121	0s		
	122	0.1s		
	123	0.2s		
	124	0.3s		
	125	0.4s		
	126	0.5s		
	127	0.6s		
		CONTINUED ON NEXT PAGE		

DMX CHANNEL FUNCTIONS AND VALUES

HSI EXTENDED MODE (12 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Elation KL Panel XL DMX Channels / Functions		
		Supports Software Versions: 1.07		
8		**Dimmer Delay Time (continued)**	0	Snap
	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		
9		**Control**	0	Snap
	000 - 029	Idle		
	030 - 039	Fan Mode Auto		
	040 - 049	Fan Mode Silent		
	050 - 059	Fan Mode High		
	060 - 079	Idle		
	080 - 084	Reset		
	085 - 099	Idle		
	100 - 168	Refresh Rate (see **Refresh Rate Table**)		
	169 - 200	Idle		
	201 - 210	Dimmer Curve Linear (default)		
	211 - 220	Dimmer Curve Square		
	221 - 230	Dimmer Curve Inverse Square		
	231 - 240	Dimmer Curve S-Curve		
	241	Internal Program 1 (Scene 1-8)		
	242	Internal Program 2 (Scene 9-16)		
	243	Internal Program 3 (Scene 17-24)		
	244	Internal Program 4 (Scene 25-32)		
		CONTINUED ON NEXT PAGE		

DMX CHANNEL FUNCTIONS AND VALUES

HSI EXTENDED MODE (12 CHANNELS) (continued)

Chan-nel	Values	Function	Default	Snap
		Control (continued)		
	245	Internal Program 5 (Scene 33-40)		
9	246	Internal Program 6 (Scene 41-48)	0	Snap
	247	Internal Program 7 (Scene 49-56)		
	248 - 255	Idle		
10	000 - 255	**FX Selection** (see **FX Table**)	0	Snap
11	000 - 255	**FX Adjustment,** minimum to maximum (see **FX Adjustment Table**)	127	Fade
		FX Offset		
	000	Idle		
	001 - 035	Fixture Offset, 0 degrees to 350 degrees		
	036	Synchronized		
12	037 - 100	No function	0	Snap
	101 - 120	Random fixture offset		
	121 - 140	Random pixel order		
	141 - 255	Random steps		

Table header (spanning all columns): **Elation KL Panel XL DMX Channels / Functions** — **Supports Software Versions: 1.07**

COLOR TEMPERATURE TABLE

Value	Color Temperature	Value	Color Temperature
20	2000	61	6100
21	2100	62	6200
22	2200	63	6300
23	2300	64	6400
24	2400	65	6500
25	2500	66	6600
26	2600	67	6700
27	2700	68	6800
28	2800	69	6900
29	2900	70	7000
30	3000	71	7100
31	3100	72	7200
32	3200	73	7300
33	3300	74	7400
34	3400	75	7500
35	3500	76	7600
36	3600	77	7700
37	3700	78	7800
38	3800	79	7900
39	3900	80	8000
40	4000	81	8100
41	4100	82	8200
42	4200	83	8300
43	4300	84	8400
44	4400	85	8500
45	4500	86	8600
46	4600	87	8700
47	4700	88	8800
48	4800	89	8900
49	4900	90	9000
50	5000	91	9100
51	5100	92	9200
52	5200	93	9300
53	5300	94	9400
54	5400	95	9500
55	5500	96	9600
56	5600	97	9700
57	5700	98	9800
58	5800	99	9900
59	5900	100	10000
60	6000		

VIRTUAL SWATCH BOOK

Value	Filter Number	Name	Value	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	Millenium 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		Not in Use
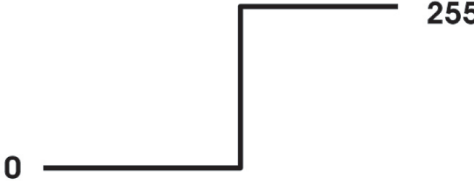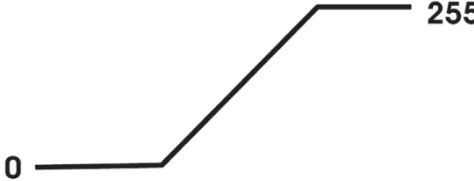
REFRESH RATE TABLE

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

DIMMER MODES

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

LINEAR

SQUARE

INVERSE SQUARE

S-CURVE
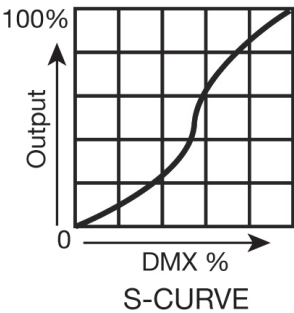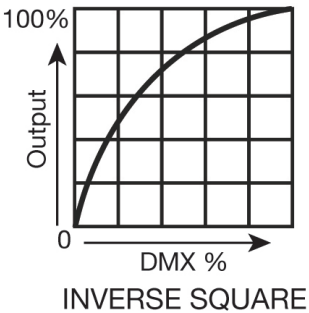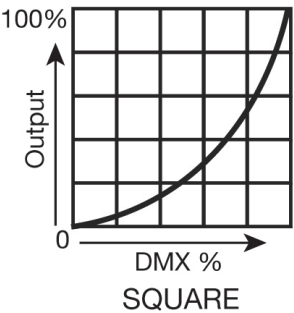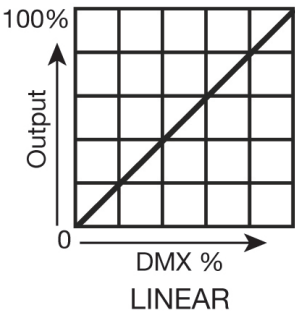
PIXEL ZONES
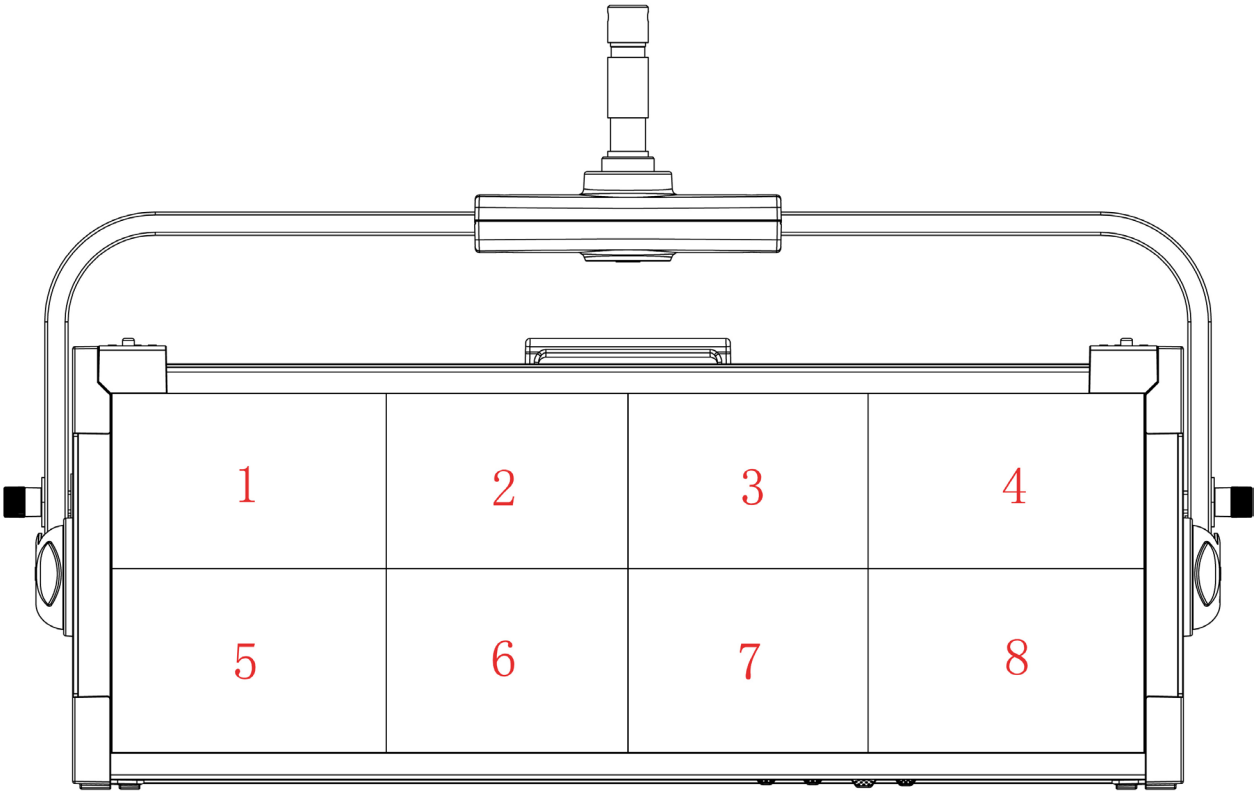
SOFTWARE UPDATES

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.

PERSONALITY – Service Setting – USB Update
To update the fixture software via the UPDATE/SERVICE PORT, follow steps below.

1. Copy fixture software update file from a PC computer to a compatible USB flash drive. Make sure only the fixture software update file is stored on the USB flash drive.
2. Disconnect DMX and E-FLY connections and power the fixture ON.
3. Insert USB flash drive into the UPDATE/SERVICE PORT on the rear connection panel.
4. In the main system menu, navigate to Personality > Service, key in the passcode, and press ENTER.
5. Select the Update Software option, then scroll to YES and press ENTER.
6. Select the software file name on the menu display and press ENTER.
7. Select YES to begin update process and Updating…% will show on the menu display.
8. After file is uploaded, the fixture will check the software which will take some time.
9. The fixture will perform a reset process when the software update process is complete.
10. Remove the USB flash drive and make necessary system menu setting adjustments.

SPECIFICATIONS

SOURCE
6-in-1 (Red, Green, Blue, White, Lime, Cyan) Full Spectrum LED Array
50,000 Hour Average LED Life*
*Test lab conditions. May vary depending on several factors including but not limited to:
Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.

PHOTOMETRIC DATA
Up to 44.000 Total Lumen Output
Diffuser
• Beam Angle 101°
• Field Angle 159.4°
Without Diffuser
• Beam Angle 111°
• Field Angle 155.4°

EFFECTS
Variable CCT 2,000K - 10,000K
Green-Shift Adjustment
4x2 Section Control
Virtual Gel Library
Variable 16-bit Dimming Curve Modes
High Speed Electronic Shutter and Strobe
Remote Adjustable LED Refresh Rate Frequency (900-25kHZ)

CONTROL / CONNECTIONS
12 DMX Channel Modes (1-96 Ch.)
1 or 8 cell control sections
3 Manual Adjustment Encoders
4 Button Control Panel and OLED Menu Display
E-FLY™ Internal Extended Range Wireless DMX Transceiver
Locking 5pin XLR Connector In/Out
Locking 3pin XLR Connector In/Out
Locking IP65 Power Connector In/Out
USB Connection (Firmware Updates, External 5V power for accessories)
4pin XLR External Battery Connection (battery not included)

SIZE / WEIGHT
Length: 33.8" (858.0mm)
Width: 6.1" (155.5mm)
Height: 12.1" (306.3mm)
Height (with yoke): 16.8" (426.8mm)
Weight: 37.9 lbs. (17.2 kg)
Weight: (Junior Pin) 1.02 lbs. (0.46 kg)

ELECTRICAL / THERMAL
AC 100-240V - 50/60Hz
24-36 VDC (battery operation - battery not included)
Max Power Consumption 544W
14°F to 113°F (-10°C to 45°C)
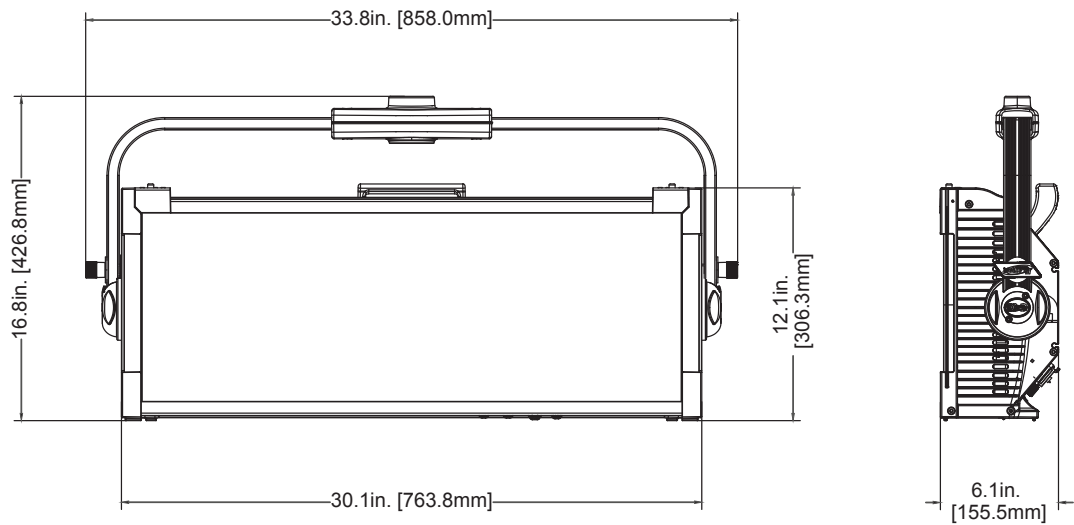BTU/hr (+/- 10%) 1708.2

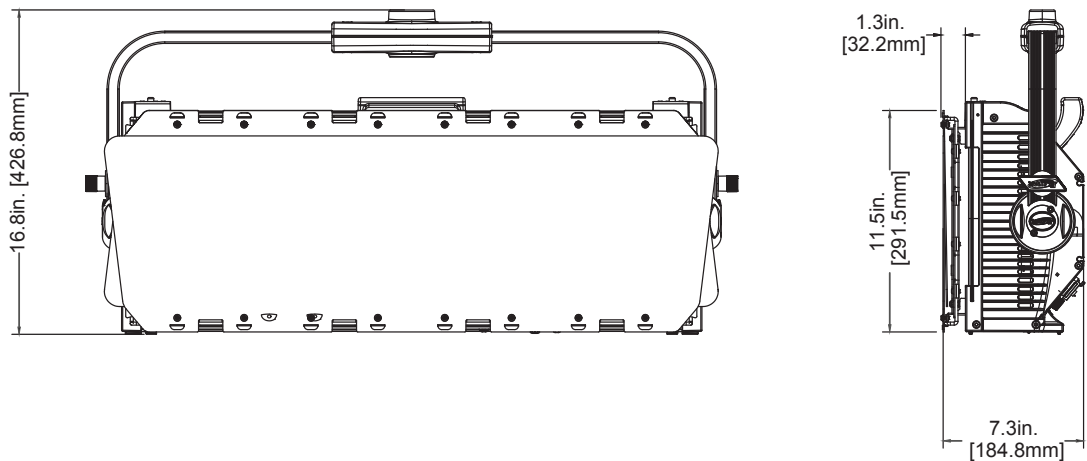**APPROVALS / RATINGS**
CE | cETLus | IP20 | UKCA

CE   ETL Intertek 4010765   IP20   UKCA

Specifications and documentation are subject to change without written notice.

DIMENSIONAL DRAWINGS

FIXTURE ONLY

33.8in. [858.0mm]

16.8in. [426.8mm]

12.1in. [306.3mm]

30.1in. [763.8mm]

6.1in. [155.5mm]

BARNDOOR INSTALLED

16.8in. [426.8mm]

1.3in. [32.2mm]

11.5in. [291.5mm]

7.3in. [184.8mm]

JUNIOR PIN INSTALLED

4.5in. [115.0mm]
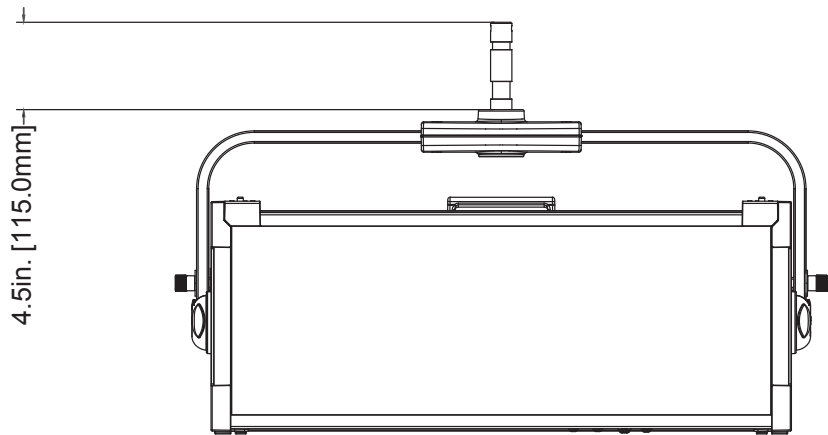
OPTIONAL ACCESSORIES

ORDER CODE	ITEM
KLP103 / 1237000254	KL Panel XL
KLP972	KL Panel XL Intensifier Lens
KLP637	KL Panel XL 40° Snap Grid
KLP651	KL Panel XL Snap Bag

FCC STATEMENT

FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS
Please note that changes or modifications of this product is not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- **NOTE**: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.