ELATION®

PALADIN PANEL

User Manual

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

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

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

DOCUMENT VERSION

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

Date	Document Version	Software Version	DMX Channel Mode	Notes
07/30/19	1.0	1.0.1	RGB - 3/4/8/10/16/80/82/88 HSI - 4/10/38	Initial release
08/19/19	1.1	N/C	No Change	Updated release
08/04/20	1.2	N/C	No Change	Updated beam/field angles
08/21/20	1.4	N/C	No Change	Updated Accessories
10/12/22	1.5	N/C	No Change	Updated Accessories
12/19/25	1.6	N/C	No Change	Updated: General Info, Installation Guidelines, System Menu, Specifications; Added IP65 Rated

CONTENTS

GENERAL INFORMATION

INTRODUCTION

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

COOLING

After usage, the lamp may be switched off, but the fixture should remain connected to power in order to allow the fan time to cool down the fixture.

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.

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 | Fax +31 45 546 85 96 | 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

It is strongly recommended to power the fixture down completely when not in use. Doing so will reduce wear on the fixture due to sustained or extended operational periods, thereby maximizing its operational lifespan.

IP65 RATED

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

NOTE: THIS FIXTURE IS INTENDED FOR TEMPORARY OUTDOOR USE ONLY!

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

NOT suitable for maritime/seaside environment installations. Installing this fixture in a maritime/seaside environment may cause corrosion and/or excessive wear to the interior and/or exterior components of the fixture. Damages and/or performance issues resulting from installation in a maritime/seaside environment will void the manufacturer's warranty, and will NOT be subject to any warranty claims and/or repairs.

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

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

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

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

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

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

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

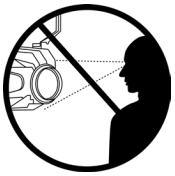
SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee smooth operation, it is important to follow all instructions and guidelines in this manual. Elation Professional is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture and only the original rigging parts included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.

PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.

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

DO NOT PLUG THIS UNIT INTO A DIMMER PACK
NEVER OPEN THIS FIXTURE WHILE IN USE
UNPLUG POWER BEFORE SERVICING FIXTURE
NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT
KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE



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

ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRONICS SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUITS.

MINIMUM DISTANCE TO OBJECTS/SURFACES
MUST BE 1.6 FOOT (0.5 METER)
MINIMUM DISTANCE OF INFLAMMABLE MATERIALS
FROM THE SURFACE 1.6 FEET (0.5 METER)
MAXIMUM AMBIENT OPERATING TEMPERATURE 113°F. (45°C).

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, avoid brute force when installing and/or operating fixture.
- **DO NOT** operate fixture if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the fixture securely with ease.
- **NEVER** force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of similar power rating.
- 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.
- 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 in for service.

MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Frequent cleaning is recommended to insure 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 the external lens surface at least every 20 days with a soft cloth to avoid dirt/debris accumulation.

NEVER use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

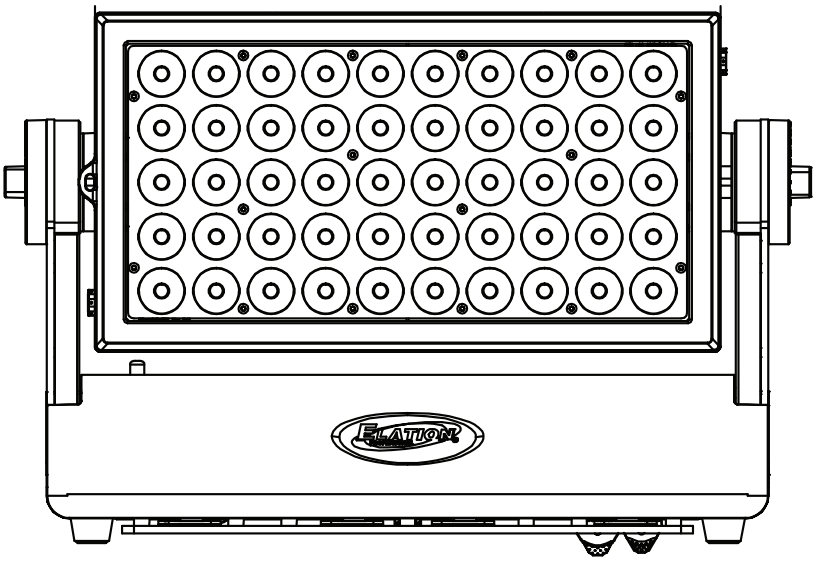
Regular inspections are recommended to insure proper function and extended life. There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation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

Please refer to the following points during routine inspections:

- A detailed electric 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. Lose 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.

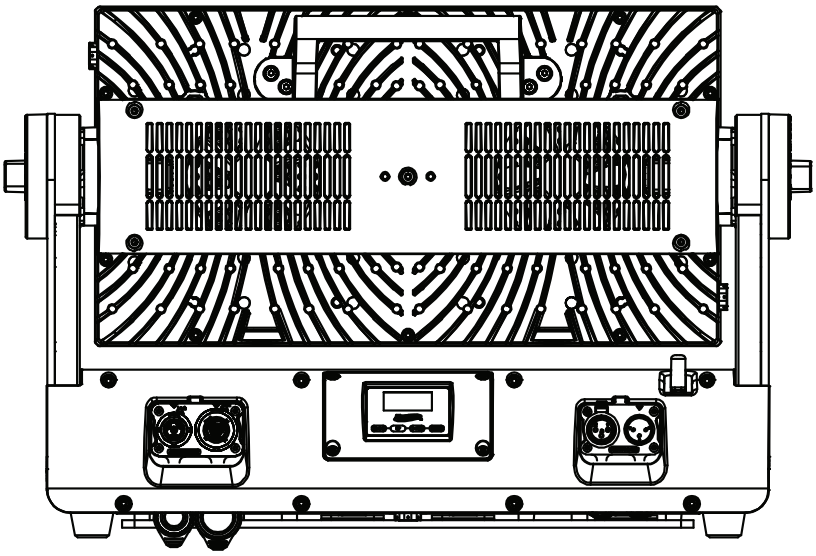
NEVER remove the ground prong from the power cable.

OVERVIEW



FRONT
LED Array
Removable Magnetic Frost Filter

SIDES
Manual Tilt Adjustment Knobs



BACK
Carrying Handle
OLED Control System Menu Display
Mode, Down, Up, Enter Buttons
IP65 Twist Lock Power In/Out
IP65 5pin DMX In/Out
E-FLY Wireless DMX Antenna

BOX CONTENTS
Magnetic Frost Filter
Omega Brackets (x2)
IP65 Twist Lock Power Cable

INSTALLATION GUIDELINES

FLAMMABLE MATERIAL WARNING
Keep fixture minimum 1.6 feet (1.5m) away from flammable materials and/or pyrotechnics.

ELECTRICAL CONNECTIONS
A qualified electrician should be used for all electrical connections and/or installations.

USE CAUTION WHEN POWER LINKING OTHER MODEL FIXTURES, AS THE POWER CONSUMPTION OF OTHER MODEL FIXTURES MAY EXCEED THE MAX POWER OUTPUT ON THIS FIXTURE. CHECK THE SILK SCREEN FOR MAX AMPS.

MINIMUM DISTANCE TO OBJECTS/SURFACES IS 1.6 FEET (0.5 METERS)
MINIMUM DISTANCE TO FLAMMABLE MATERIALS IS 1.6 FEET (0.5 METERS)
MAXIMUM AMBIENT OPERATING TEMPERATURE IS 113° F (45° C)

DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!

Fixture **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

Before rigging/mounting a single fixture or multiple fixtures to any metal truss/structure or placing the fixture(s) on any surface, a professional equipment installer **MUST** be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture(s), clamps, cables, and accessories.

Overhead rigging requires extensive experience, including amongst 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.

Maximum ambient operating temperature is **113°F. (45°C)**

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

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

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

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

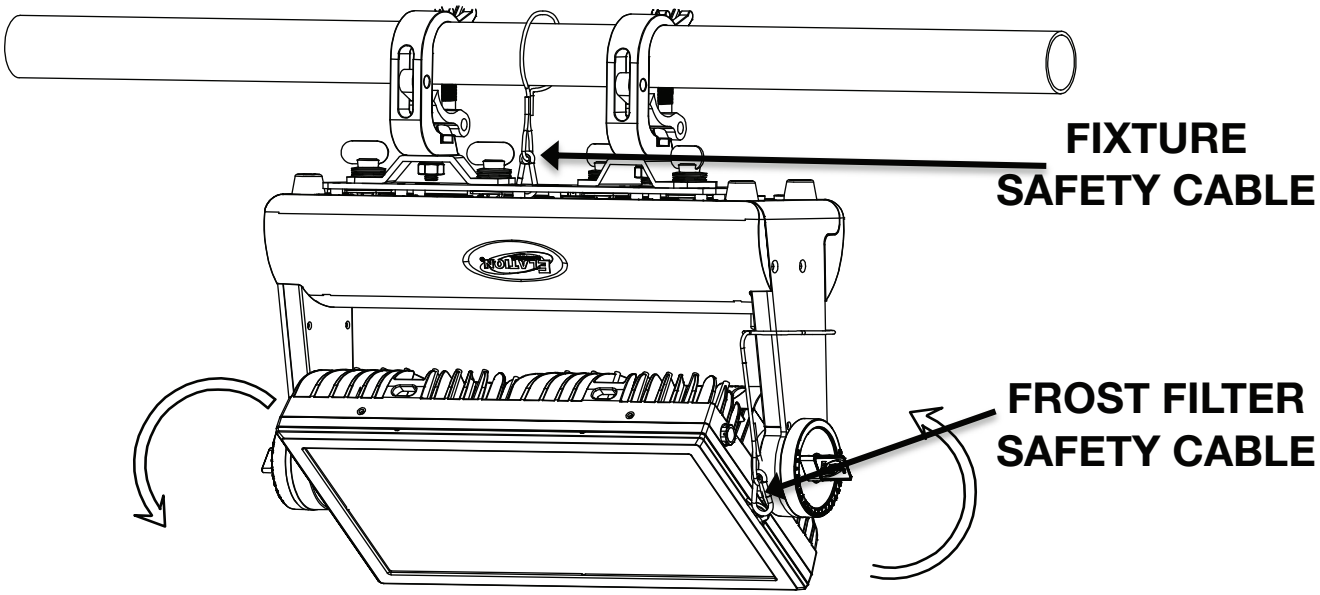
INSTALLATION GUIDELINES

OMEGA BRACKET INSTALLATION

Insert 1 or both Omega Brackets into the matching holes on the bottom of the fixture. 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.

CLAMP INSTALLATION

When mounting fixture to 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 points for a **FIXTURE SAFETY CABLE** and **FROST FILTER SAFETY CABLE.** Be sure to use the designated rigging points for the **FIXTURE** and **FROST FILTER SAFETY CABLES** and never secure a safety cable to a carrying handle.



TILT POSITION ADJUSTMENT

The fixture head tilt position can be manually adjusted by loosening the tilt adjustment knobs on both sides and positioning the head to a desired tilt position.

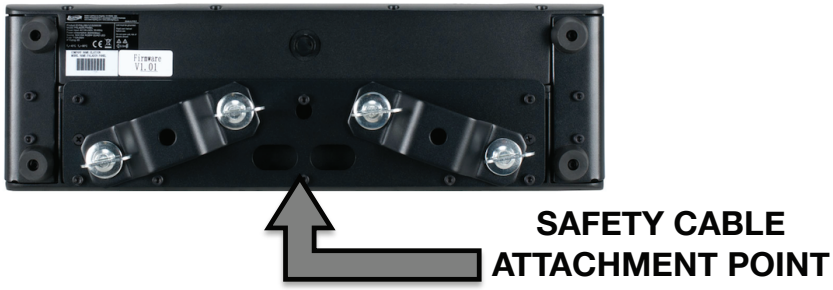
TIGHTEN/SECURE BOTH TILT ADJUSTMENT KNOBS TO PREVENT UNWANTED FIXTURE HEAD MOVEMENT..

INSTALLATION GUIDELINES

RIGGING

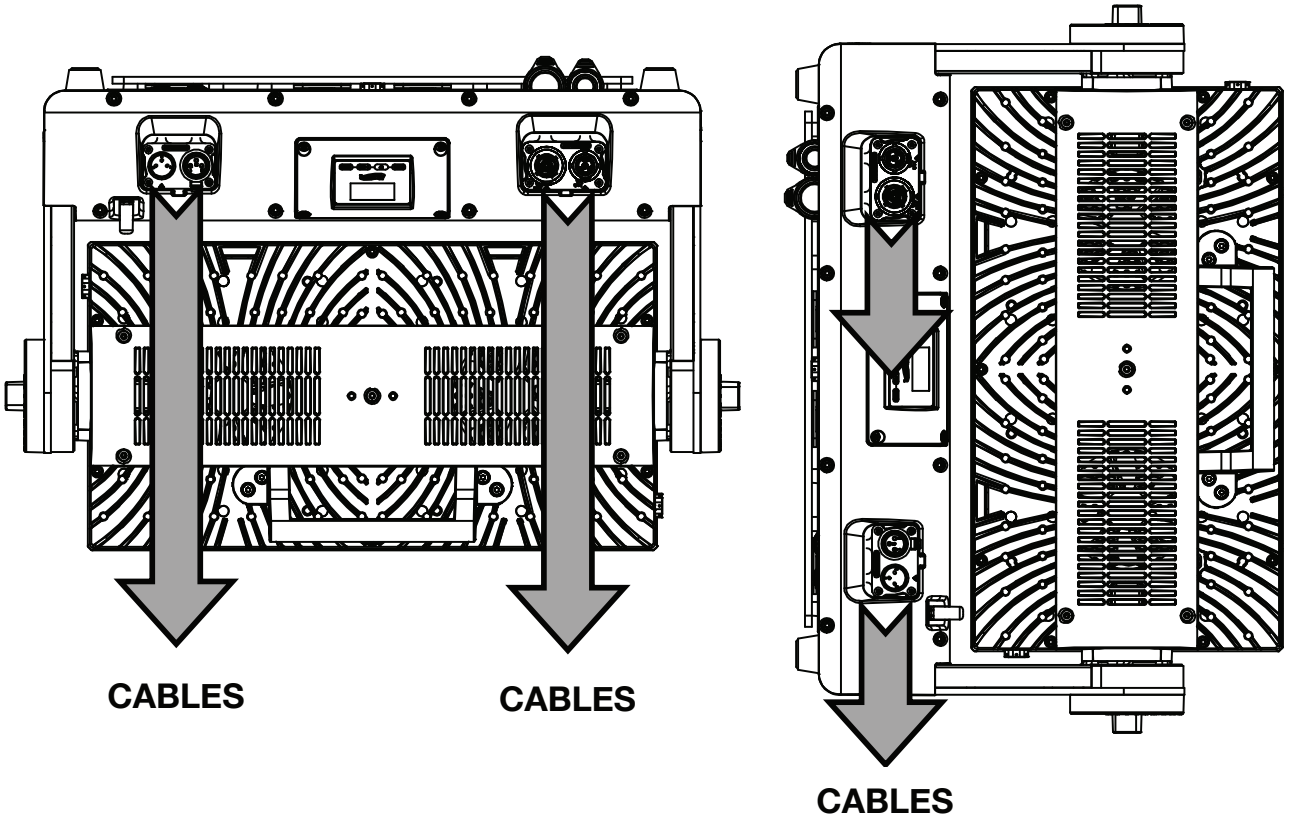
Overhead rigging requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper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

ALWAYS ATTACH AN APPROPRIATELY RATED SAFETY CABLE (NOT INCLUDED) THAT MEETS ALL LOCAL, NATIONAL, AND COUNTRY CODES AND REGULATIONS WHENEVER INSTALLING FIXTURE IN A SUSPENDED ENVIRONMENT!



POWER AND DATA CABLES

TO MAINTAIN THE IP65 RATING INTEGRITY OF THE FIXTURE, ALL CABLES MUST BE RUN TOWARDS THE GROUND TO PREVENT WATER ACCUMULATION AROUND THE CONNECTIONS. (see illustration below)



INSTALLATION GUIDELINES

POWER AND DATA CONNECTIONS

ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT.

TO MAINTAIN IP65 RATING INTEGRITY AND PREVENT WATER FROM ENTERING THE FIXTURE, SEAL ALL UNUSED CONNECTION RUBBER CAPS.

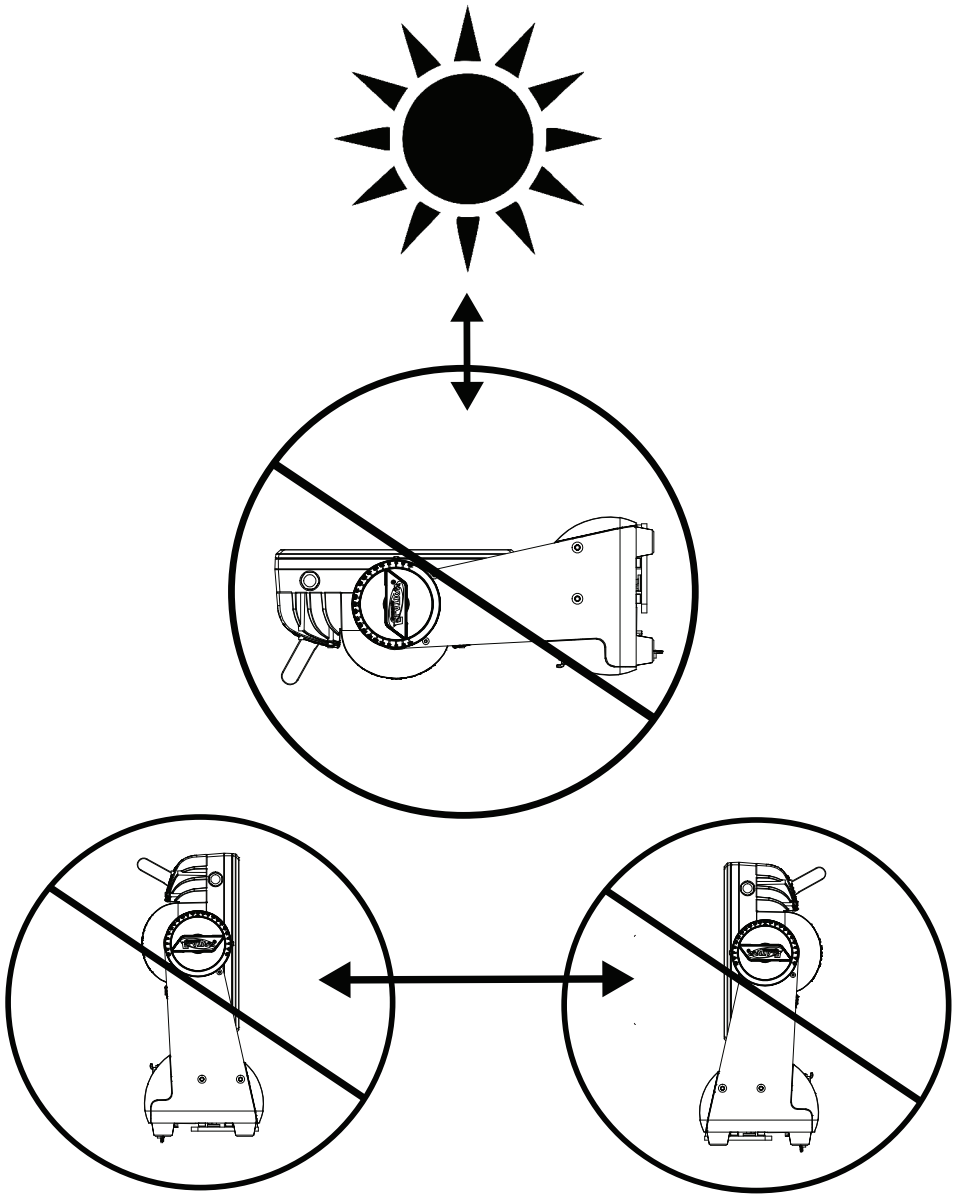
INSTALLATION GUIDELINES

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, lighting moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of ELATION lighting fixtures, can cause severe internal damage including burning to optics, dichroic color filters, glass and metal gobos, prisms, animation wheels, frost filters, iris, shutters, motors, belts, wiring, discharge lamps, and LEDs.

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

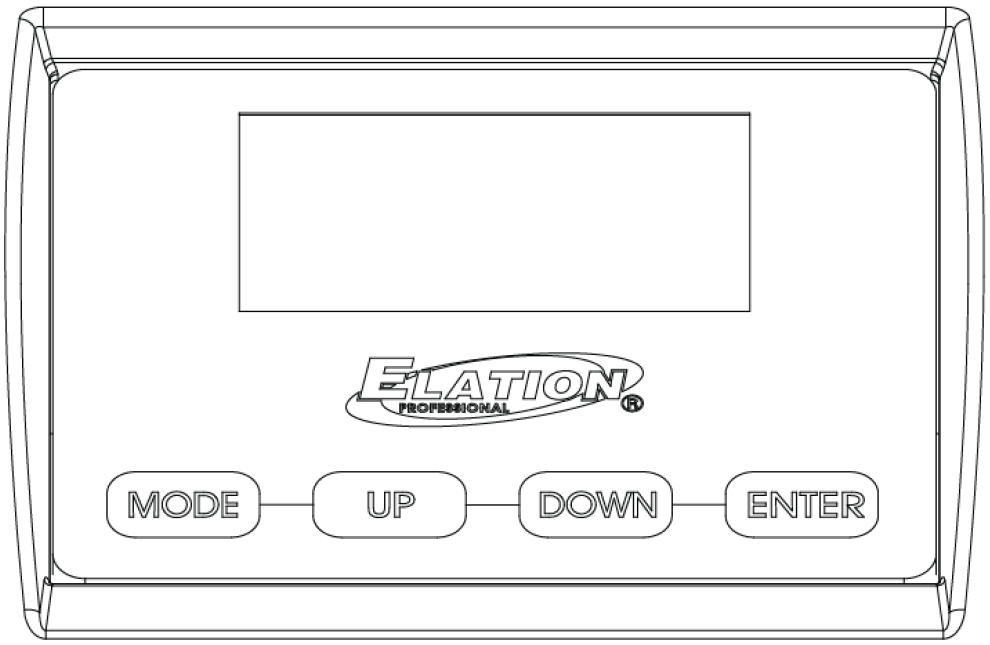
DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING MOVING HEAD FIXTURES, AND LASERS WHILE UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.



SYSTEM MENU

The fixture includes an easy to navigate system menu. The control panel (see image below) located on the front of the fixture, provides access to the main system menu and is where all necessary system adjustments are made to the fixture. During normal operation, pressing **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 **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.

To unlock and access the system menus press and hold the MODE button for 5+ seconds.



DISPLAY KEY LOCK FUNCTIONS (ON / ON1)

When the Key Lock sub menu is set to **ON,** the LCD display will turn OFF and lock after 30 seconds and the display will show LOCKED*****.

Press and hold the **MODE** button for 5+ seconds to unlock and access the system menus.

When Key Lock sub menu is set to **ON1,** the LCD display will turn OFF and lock after 30 seconds the display will show **LOCK*****.**

Follow these steps to unlock and access the system menus:

1. Press MENU, the display shows: **LOCK*****
2. Press UP, then the display will change to: **LOCK****** (one * disappears)
3. Press DOWN, then the display will change to: **LOCK***** (two * disappear)
4. Press UP, then the display will change to: **LOCK**** (three * disappear)
5. Press DOWN, then the display will change to: **LOCK*** (4 * disappear)
6. Press ENTER, then the display will unlock, and system menus can now be accessed.

SYSTEM MENU

ELATION PALADIN PANEL - SYSTEM MENU				
MENU	**OPTIONS / VALUES (default settings in Bold)**			**DESCRIPTION**
Address	Set ADDR	001 - 497		Set DMX Address
Mode	**Extended 16CH**			Set DMX Channel Mode
	Cells 80CH			
	CellsDim 82CH			
	Ext-Cell 88CH			
	HSI 4CH			
	HSI-Ext 10CH			
	HSI-Cell 38CH			
	RGB 3CH			
	8bit 4CH			
	16bit 8CH			
	16bitDim 10CH			
Function	No DMX	**Hold**		Fixture state when no DMX signal
		Black		
		Program		
	LCD Set	Display	**On** / Off	Enable display screensaver
		Key Lock	**On** / On1 / Off	Display lock functions
		Flash	**On** / Off	Display flashes when no DMX signal
		Inverse	On / **Off**	Flip display 180°
	Temp C/F	C / **F**		Set temperature display to C° or F°
	Dim Mode	0.0, **0.1** - 1.0 (increments of 0.1), 1.5, 2.0 - 10.0		Set dimming speed / dim mode
		Standard		
		Stage		
		TV		
		Architec		
		Theatre		
		Stage 2		
	Disp Set	ADDR	ADDR:xxx	Displays current fixture DMX address
		Disp. Ch	All, Strobe, Dimmer, DimFine, DimMode...R10Fine	Displays current DMX values
	Fan	**Auto** / High / Low		Set fan speed
	Flip	**Standard** / Flip1		Set pixel flip
	Dim Curve	**Linear**		Set dimming curve
		Square		
		In Square		
		S-Curve		

SYSTEM MENU

ELATION PALADIN PANEL - SYSTEM MENU					
MENU	**OPTIONS / VALUES (default settings in Bold)**				**DESCRIPTION**
Function (continued)	Frequen	900Hz, 1000Hz, 1100Hz, **1200Hz**, 1300Hz, 1400Hz, 1500Hz, 2500Hz, 4000Hz, 5000Hz, 10KHz, 15KHz, 20KHz, 25KHz			Set LED refresh frequency rate
	FLY_CH	**00** - 14			Set E-Fly wireless channel
	FLY_Swit	**On** / Off			Enable E-Fly wireless
	Defaults	**Cancel** / Reset			Reset factory default settings
Program	Speed	**01** - 99			Program speed
	Color	Static	Strobe 0 - **255**	Static **R**, G, B, RG , GB , RB , RGB, BLACK	Set internal programs
		Chang15	Strobe 0 - **255**		
		Chang30	Strobe 0 - **255**		
		Fade	Strobe 0 - **255**		
	Macros	**0** - 63			Select internal program macros
	Secondry	**Off** / Secondry			Set fixture slave mode
Info	Time Info	Current	XX (H)		Current fixture running time (hours)
		Total	XX (H)		Total fixture operating time (hours)
		Last	XX (H)		Fixture running time after last cleared (hours)
		Password	050 or 060		Password to reset time
		Clear	On / **Off**		Clear fixture running time
	Temp Info	LED Temp XX° F			Displays fixture temperature
	Err Info	Errors			Displays fixture errors
	Model Inf	Paladin Panel			Displays model name
	Software	Vx.xx			Displays software version
Manual	Strobe	**000** - 255			Manual control settings
	Dimmer	**000** - 255			
	Dim Fine	**000** - 255			
	Dim Mode	**000** - 255			
	Red	**000** - 255			
	Green	**000** - 255			
	Blue	**000** - 255			
	White	**000** - 255			

SYSTEM MENU

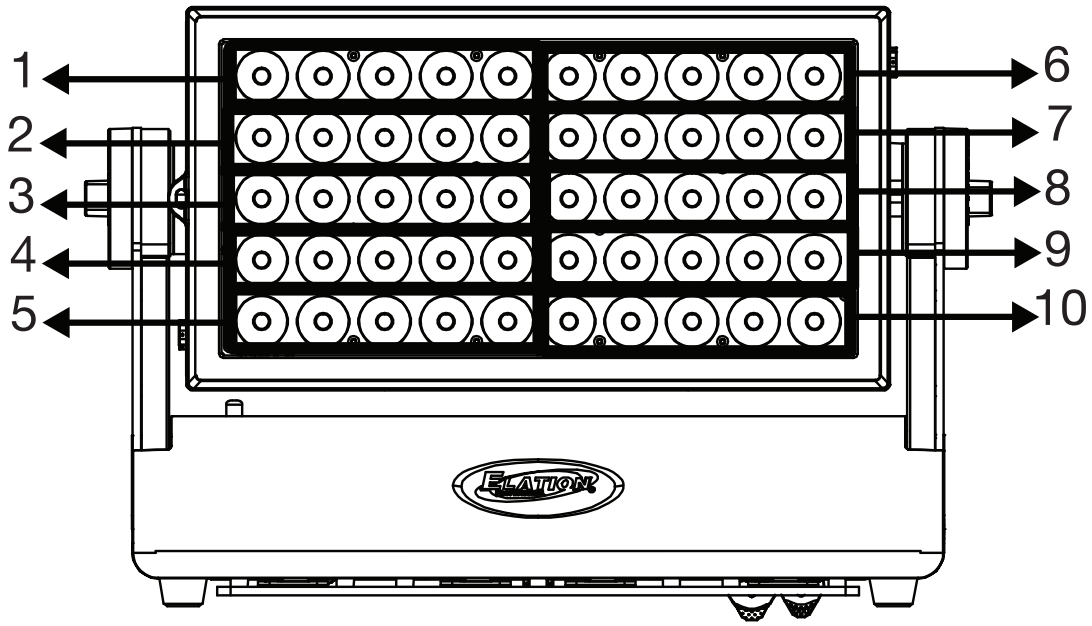
ELATION PALADIN PANEL - SYSTEM MENU			
MENU	**OPTIONS / VALUES (default settings in Bold)**		**DESCRIPTION**
Calibrat	Password	050	Channel data calibration password
	Red1	050 - **255**	Set calibration values
	Green1	050 - **255**	
	Blue1	050 - **255**	
	White1	050 - **255**	
	Red2	050 - **255**	
	Green2	050 - **255**	
	Blue2	050 - **255**	
	White2	050 - **255**	
	Red3	050 - **255**	
	Green3	050 - **255**	
	Blue3	050 - **255**	
	White3	050 - **255**	
	Red4	050 - **255**	
	Green4	050 - **255**	
	Blue4	050 - **255**	
	White4	050 - **255**	
	Red5	050 - **255**	
	Green5	050 - **255**	
	Blue5	050 - **255**	
	White5	050 - **255**	
	Red6	050 - **255**	
	Green6	050 - **255**	
	Blue6	050 - **255**	
	White6	050 - **255**	
	Red7	050 - **255**	
	Green7	050 - **255**	
	Blue7	050 - **255**	
	White7	050 - **255**	
	Red8	050 - **255**	
	Green8	050 - **255**	
	Blue8	050 - **255**	
	White8	050 - **255**	
	Red9	050 - **255**	
	Green9	050 - **255**	
	Blue9	050 - **255**	
	White9	050 - **255**	
	Red10	050 - **255**	
	Green10	050 - **255**	
	Blue10	050 - **255**	
	White10	050 - **255**	

PIXEL ZONE CONTROL

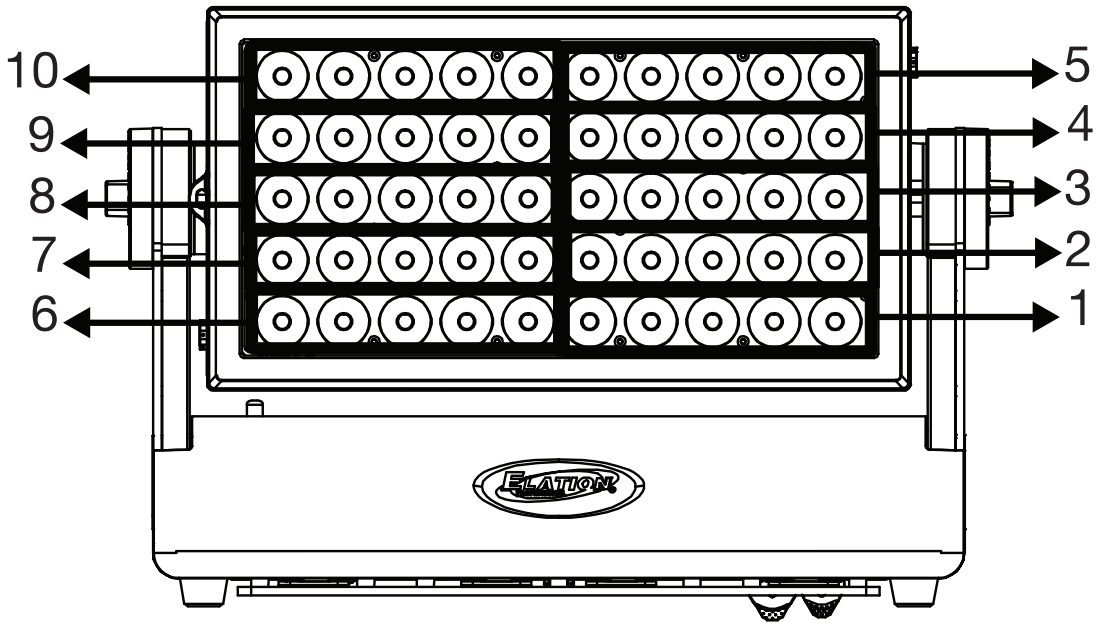
This fixture includes 10-pixel zones, each zone containing 5 LED pixels which can be controlled when specific DMX channel modes are selected. The system menu includes a FLIP setting which flips the pixel zones to support unique fixture mounting scenarios.

NOTE: Pixel zones control varies depending on the DMX Channel and FLIP modes selected and/or the fixture head tilt position. (see diagrams below)

STANDARD



FLIP1



E-FLY WIRELESS DMX SETUP

BEFORE SETTING THE WIRELESS CHANNEL ON ANY E-FLY FIXTURE, MAKE SURE THE CONTROLLING E-FLY WIRELESS DMX TRANSCEIVER DEVICE IS OFF.

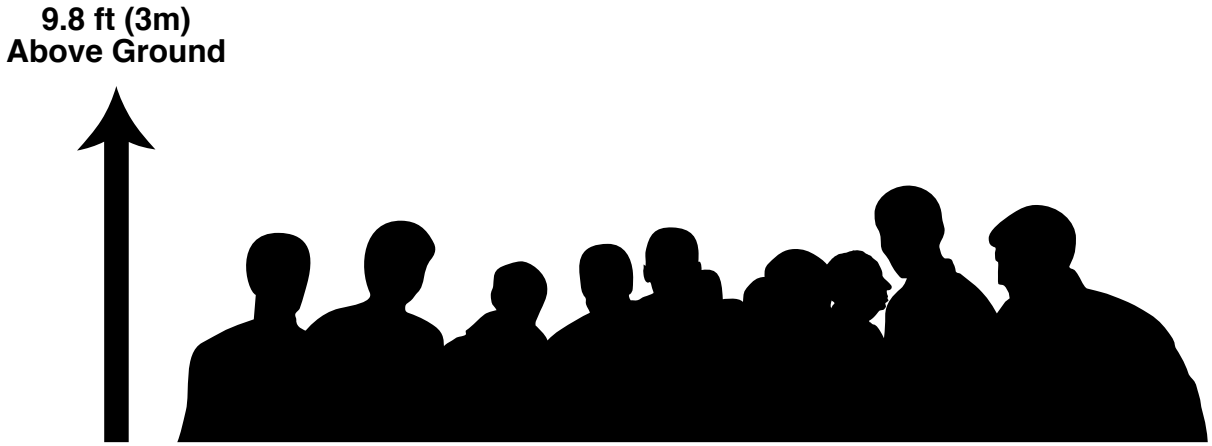
TO CONTROL FIXTURE WITH E-FLY WIRELESS DMX SIGNAL

1. Ensure the controlling **E-FLY** wireless DMX Transceiver device is powered **OFF** and the fixture is powered **OFF** and NO DMX cable is connected to the fixture.
2. Power **ON** fixture and from the OLED control panel navigate to the sub menu **FLY_CH** in the **FUNCTION** main system menu, then set the desired **E-FLY** wireless channel **(00-14)** to the same channel of the controlling **E-FLY** DMX Transceiver device.
3. Navigate to sub menu **FLY_Swit** in the **FUNCTION** main system menu and select **ON.**

   NOTE: Erratic fixture movement may occur if other E-FLY wireless DMX products are in use in the same area and are using the same E-FLY wireless channel. The fixture may immediately start to respond to the DMX wireless signal from another E-FLY wireless DMX Transceiver immediately when E-FLY is enabled. Make sure to know what E-FLY wireless channels are being used in the area where the fixture is being installed
4. Repeat this process for all **E-FLY** compatible fixtures in the **E-FLY** wireless network, making sure all fixtures are assigned the same **E-FLY** wireless channel.
5. After all fixtures in the **E-FLY** wireless network have been set to the same **E-FLY** wireless channel and powered **ON**, now power **ON** the controlling **E-FLY** DMX Transceiver device.
6. Test all fixtures connected to the **E-FLY** wireless network to confirm proper functionality.

E-FLY WIRELESS DMX SETUP

Wireless DMX signal can penetrate walls, glass, metal, and most objects. However, there are many factors that can affect and/or interrupt the wireless DMX signal, one of which is people. Therefore, it is highly recommended to position the wireless antenna a minimum of 9.8 ft. (3m) above audiences and/or above ground level. Careful planning and testing of the selected installation location is critical to ensure optimum and reliable wireless DMX operation.



DMX TRAITS - RGB MODES

ELATION PALADIN PANEL											
RGB 3ch	**8bit 4ch**	**16bit 8ch**	**16bit Dim 10ch**	**Ext 16ch**	**Cells 80ch**	**Cells Dim 82ch**	**Ext Cells 88ch**	**Value**	**Function**	**Def**	**Snap**
				1			1		**Strobe**	50	X
								000 - 031	Closed		
								032 - 063	Open		
								064 - 095	Strobe, slow to fast		
								096 - 127	Open		
								128 - 159	Pulse, slow to fast		
								160 - 191	Open		
								192 - 223	Random, slow to fast		
								224 - 255	Open		
			1	2		1	2		**Master Intensity**	0	
								000 - 255	Closed to open		
			2	3		2	3		**Master Intensity Fine**	0	
								000 - 255	Closed to open		
				4			4		**Dim Modes**	0	X
								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 (default)		
								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		

DMX TRAITS - RGB MODES

ELATION PALADIN PANEL											
RGB 3ch	**8bit 4ch**	**16bit 8ch**	**16bit Dim 10ch**	**Ext 16ch**	**Cells 80ch**	**Cells Dim 82ch**	**Ext Cells 88ch**	**Value**	**Function**	**Def**	**Snap**
				4			4		**Dimmer Delay Time (continued)**	0	X
								139	8.0s		
								140	9.0s		
								141	10s		
								142 - 255	Default		
				5			5		**Control**	0	X
								000 - 019	Idle		
								020 - 024	Program 1		
								025 - 029	Program 2		
								030 - 034	Program 3		
								035 - 039	Program 4		
								040 - 044	Program 5		
								045 - 049	Program 6		
								050 - 054	Program 7		
								055 - 059	Program 8		
								060 - 064	Program 9		
								065 - 069	Program 10		
								070 - 074	Program 11		
								075 - 079	Program 12		
								080 - 100	Idle		
									Refresh Rate (Hz) (Hold 1s)		
								101 - 105	900		
								106 - 110	1000		
								111 - 115	1100		
								116 - 120	1200 (default)		
								121 - 125	1300		
								126 - 130	1400		
								131 - 135	1500		
								136 - 140	2500		
								141 - 145	4000		
								146 - 150	5000		
								151 - 155	10000		
								156 - 160	15000		
								161 - 165	20000		
								166 - 170	25000		
								171 - 200	Idle		

DMX TRAITS - RGB MODES

ELATION PALADIN PANEL											
RGB 3ch	**8bit 4ch**	**16bit 8ch**	**16bit Dim 10ch**	**Ext 16ch**	**Cells 80ch**	**Cells Dim 82ch**	**Ext Cells 88ch**	**Value**	**Function**	**Def**	**Snap**
				5			5		**Dimmer Curves (Hold 3s)**	0	X
								201 - 210	Linear (default)		
								211 - 220	Square		
								221 - 230	Inverse Square		
								231 - 240	S-Curve		
								241 - 255	Idle		
				6			6		**Program Speed**	128	
								000 - 255	Slow to fast		
				7			7		**Program Fade**	128	
								000 - 255	Slow to fast		
				8			8		**Color Macros**	0	X
								000 - 255	Macro1 - Macro 64		
1	1	1	3	9					**Red**		
								000 - 255	0 - 100%		
		2	4	10					**Red Fine**		
								000 - 255	0 - 100%		
2	2	3	5	11					**Green**		
								000 - 255	0 - 100%		
		4	6	12					**Green Fine**		
								000 - 255	0 - 100%		
3	3	5	7	13					**Blue**		
								000 - 255	0 - 100%		
		6	8	14					**Blue Fine**		
								000 - 255	0 - 100%		
	4	7	9	15					**White**		
								000 - 255	0 - 100%		
		8	10	16					**White Fine**		
								000 - 255	0 - 100%		
					1	3	9		**Red1**		
								000 - 255	0 - 100%		
					2	4	10		**Red1 Fine**		
								000 - 255	0 - 100%		
					3	5	11		**Green1**		
								000 - 255	0 - 100%		
					4	6	12		**Green1 Fine**		
								000 - 255	0 - 100%		
					5	7	13		**Blue1**		
								000 - 255	0 - 100%		

DMX TRAITS - RGB MODES

ELATION PALADIN PANEL											
RGB 3ch	8bit 4ch	16bit 8ch	16bit Dim 10ch	Ext 16ch	Cells 80ch	Cells Dim 82ch	Ext Cells 88ch	Value	Function	Def	Snap
					6	8	14		**Blue1 Fine**		
								000 - 255	0 - 100%		
					7	9	15		**White1**		
								000 - 255	0 - 100%		
					8	10	16		**White1 Fine**		
								000 - 255	0 - 100%		
					9	11	17		**Red2**		
								000 - 255	0 - 100%		
					10	12	18		**Red2 Fine**		
								000 - 255	0 - 100%		
					11	13	19		**Green2**		
								000 - 255	0 - 100%		
					12	14	20		**Green2 Fine**		
								000 - 255	0 - 100%		
					13	15	21		**Blue2**		
								000 - 255	0 - 100%		
					14	16	22		**Blue2 Fine**		
								000 - 255	0 - 100%		
					15	17	23		**White2**		
								000 - 255	0 - 100%		
					16	18	24		**White2 Fine**		
								000 - 255	0 - 100%		
					17	19	25		**Red3**		
								000 - 255	0 - 100%		
					18	20	26		**Red3 Fine**		
								000 - 255	0 - 100%		
					19	21	27		**Green3**		
								000 - 255	0 - 100%		
					20	22	28		**Green3 Fine**		
								000 - 255	0 - 100%		
					21	23	29		**Blue3**		
								000 - 255	0 - 100%		
					22	24	30		**Blue3 Fine**		
								000 - 255	0 - 100%		
					23	25	31		**White3**		
								000 - 255	0 - 100%		
					24	26	32		**White3 Fine**		
								000 - 255	0 - 100%		

DMX TRAITS - RGB MODES

ELATION PALADIN PANEL											
RGB 3ch	8bit 4ch	16bit 8ch	16bit Dim 10ch	Ext 16ch	Cells 80ch	Cells Dim 82ch	Ext Cells 88ch	Value	Function	Def	Snap
					25	27	33		**Red4**		
								000 - 255	0 - 100%		
					26	28	34		**Red4 Fine**		
								000 - 255	0 - 100%		
					27	29	35		**Green4**		
								000 - 255	0 - 100%		
					28	30	36		**Green4 Fine**		
								000 - 255	0 - 100%		
					29	31	37		**Blue4**		
								000 - 255	0 - 100%		
					30	32	38		**Blue4 Fine**		
								000 - 255	0 - 100%		
					31	33	39		**White4**		
								000 - 255	0 - 100%		
					32	34	40		**White4 Fine**		
								000 - 255	0 - 100%		
					33	35	41		**Red5**		
								000 - 255	0 - 100%		
					34	36	42		**Red5 Fine**		
								000 - 255	0 - 100%		
					35	37	43		**Green5**		
								000 - 255	0 - 100%		
					36	38	44		**Green5 Fine**		
								000 - 255	0 - 100%		
					37	39	45		**Blue5**		
								000 - 255	0 - 100%		
					38	40	46		**Blue5 Fine**		
								000 - 255	0 - 100%		
					39	41	47		**White5**		
								000 - 255	0 - 100%		
					40	42	48		**White5 Fine**		
								000 - 255	0 - 100%		
					41	43	49		**Red6**		
								000 - 255	0 - 100%		
					42	44	50		**Red6 Fine**		
								000 - 255	0 - 100%		
					43	45	51		**Green6**		
								000 - 255	0 - 100%		

DMX TRAITS - RGB MODES

ELATION PALADIN PANEL											
RGB 3ch	8bit 4ch	16bit 8ch	16bit Dim 10ch	Ext 16ch	Cells 80ch	Cells Dim 82ch	Ext Cells 88ch	Value	Function	Def	Snap
					44	46	52		**Green6 Fine**		
								000 - 255	0 - 100%		
					45	47	53		**Blue6**		
								000 - 255	0 - 100%		
					46	48	54		**Blue6 Fine**		
								000 - 255	0 - 100%		
					47	49	55		**White6**		
								000 - 255	0 - 100%		
					48	50	56		**White6 Fine**		
								000 - 255	0 - 100%		
					49	51	57		**Red7**		
								000 - 255	0 - 100%		
					50	52	58		**Red7 Fine**		
								000 - 255	0 - 100%		
					51	53	59		**Green7**		
								000 - 255	0 - 100%		
					52	54	60		**Green7 Fine**		
								000 - 255	0 - 100%		
					53	55	61		**Blue7**		
								000 - 255	0 - 100%		
					54	56	62		**Blue7 Fine**		
								000 - 255	0 - 100%		
					55	57	63		**White7**		
								000 - 255	0 - 100%		
					56	58	64		**White7 Fine**		
								000 - 255	0 - 100%		
					57	59	65		**Red8**		
								000 - 255	0 - 100%		
					58	60	66		**Red8 Fine**		
								000 - 255	0 - 100%		
					59	61	67		**Green8**		
								000 - 255	0 - 100%		
					60	62	68		**Green8 Fine**		
								000 - 255	0 - 100%		
					61	63	69		**Blue8**		
								000 - 255	0 - 100%		
					62	64	70		**Blue8 Fine**		
								000 - 255	0 - 100%		

DMX TRAITS - RGB MODES

ELATION PALADIN PANEL											
RGB 3ch	8bit 4ch	16bit 8ch	16bit Dim 10ch	Ext 16ch	Cells 80ch	Cells Dim 82ch	Ext Cells 88ch	Value	Function	Def	Snap
					63	65	71		**White8**		
								000 - 255	0 - 100%		
					64	66	72		**White8 Fine**		
								000 - 255	0 - 100%		
					65	67	73		**Red9**		
								000 - 255	0 - 100%		
					66	68	74		**Red9 Fine**		
								000 - 255	0 - 100%		
					67	69	75		**Green9**		
								000 - 255	0 - 100%		
					68	70	76		**Green9 Fine**		
								000 - 255	0 - 100%		
					69	71	77		**Blue9**		
								000 - 255	0 - 100%		
					70	72	78		**Blue9 Fine**		
								000 - 255	0 - 100%		
					71	73	79		**White9**		
								000 - 255	0 - 100%		
					72	74	80		**White9 Fine**		
								000 - 255	0 - 100%		
					73	75	81		**Red10**		
								000 - 255	0 - 100%		
					74	76	82		**Red10 Fine**		
								000 - 255	0 - 100%		
					75	77	83		**Green10**		
								000 - 255	0 - 100%		
					76	78	84		**Green10 Fine**		
								000 - 255	0 - 100%		
					77	79	85		**Blue10**		
								000 - 255	0 - 100%		
					78	80	86		**Blue10 Fine**		
								000 - 255	0 - 100%		
					79	81	87		**White10**		
								000 - 255	0 - 100%		
					80	82	88		**White10 Fine**		
								000 - 255	0 - 100%		

DMX TRAITS - HSI MODES

ELATION PALADIN PANEL						
HSI 4ch	**HSI Ext 10ch**	**HSI Cell 38ch**	**Value**	**Function**	**Def**	**Snap**
	1	1		**Strobe**	50	X
			000 - 031	Closed		
			032 - 063	Open		
			064 - 095	Strobe, slow to fast		
			096 - 127	Open		
			128 - 159	Pulse, slow to fast		
			160 - 191	Open		
			192 - 223	Random, slow to fast		
			224 - 255	Open		
1	2	2		**Master Intensity**	0	
			000 - 255	Closed to open		
2	3	3		**Master Intensity Fine**	0	
			000 - 255	Closed to open		
	4	4		**Dim Modes**	0	X
			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 (default)		
			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		

DMX TRAITS - HSI MODES

ELATION PALADIN PANEL						
HSI 4ch	**HSI Ext 10ch**	**HSI Cell 38ch**	**Value**	**Function**	**Def**	**Snap**
	4	4		**Dimmer Delay Time (continued)**	0	X
			139	8.0s		
			140	9.0s		
			141	10s		
			142 - 255	Default		
	5	5		**Control**	0	X
			000 - 019	Idle		
			020 - 024	Program 1		
			025 - 029	Program 2		
			030 - 034	Program 3		
			035 - 039	Program 4		
			040 - 044	Program 5		
			045 - 049	Program 6		
			050 - 054	Program 7		
			055 - 059	Program 8		
			060 - 064	Program 9		
			065 - 069	Program 10		
			070 - 074	Program 11		
			075 - 079	Program 12		
			080 - 100	Idle		
				Refresh Rate (Hz) (Hold 1s)		
			101 - 105	900		
			106 - 110	1000		
			111 - 115	1100		
			116 - 120	1200 (default)		
			121 - 125	1300		
			126 - 130	1400		
			131 - 135	1500		
			136 - 140	2500		
			141 - 145	4000		
			146 - 150	5000		
			151 - 155	10000		
			156 - 160	15000		
			161 - 165	20000		
			166 - 170	25000		
			171 - 200	Idle		

DMX TRAITS - HSI MODES

ELATION PALADIN PANEL						
HSI 4ch	**HSI Ext 10ch**	**HSI Cell 38ch**	**Value**	**Function**	**Def**	**Snap**
	5	5		**Dimmer Curves (Hold 3s)**	0	X
			201 - 210	Linear (default)		
			211 - 220	Square		
			221 - 230	Inverse Square		
			231 - 240	S-Curve		
			241 - 255	Idle		
	6	6		**Program Speed**	128	
			000 - 255	Slow to fast		
	7	7		**Program Fade**	128	
			000 - 255	Slow to fast		
	8	8		**Color Macros**	0	X
			000 - 255	Macro 1 - Macro 64		
3	9	9		**Hue**	0	
			000 - 255	0 - 100%		
4	10	10		**Saturation**	255	
			000 - 255	0 - 100%		
		11		**Intensity**	255	
			000 - 255	0 - 100%		
		12		**Hue 2**	0	
			000 - 255	0 - 100%		
		13		**Saturation 2**	255	
			000 - 255	0 - 100%		
		14		**Intensity 2**	255	
			000 - 255	0 - 100%		
		15		**Hue 3**	0	
			000 - 255	0 - 100%		
		16		**Saturation 3**	255	
			000 - 255	0 - 100%		
		17		**Intensity 3**	255	
			000 - 255	0 - 100%		
		18		**Hue 4**	0	
			000 - 255	0 - 100%		
		19		**Saturation 4**	255	
			000 - 255	0 - 100%		
		20		**Intensity 4**	255	
			000 - 255	0 - 100%		
		21		**Hue 5**	0	
			000 - 255	0 - 100%		

DMX TRAITS - HSI MODES

ELATION PALADIN PANEL						
HSI 4ch	**HSI Ext 10ch**	**HSI Cell 38ch**	**Value**	**Function**	**Def**	**Snap**
		22		**Saturation 5**	255	
			000 - 255	0 - 100%		
		23		**Intensity 5**	255	
			000 - 255	0 - 100%		
		24		**Hue 6**	0	
			000 - 255	0 - 100%		
		25		**Saturation 6**	255	
			000 - 255	0 - 100%		
		26		**Intensity 6**	255	
			000 - 255	0 - 100%		
		27		**Hue 7**	0	
			000 - 255	0 - 100%		
		28		**Saturation 7**	255	
			000 - 255	0 - 100%		
		29		**Intensity 7**	255	
			000 - 255	0 - 100%		
		30		**Hue 8**	0	
			000 - 255	0 - 100%		
		31		**Saturation 8**	255	
			000 - 255	0 - 100%		
		32		**Intensity 8**	255	
			000 - 255	0 - 100%		
		33		**Hue 9**	0	
			000 - 255	0 - 100%		
		34		**Saturation 9**	255	
			000 - 255	0 - 100%		
		35		**Intensity 9**	255	
			000 - 255	0 - 100%		
		36		**Hue 10**	0	
			000 - 255	0 - 100%		
		37		**Saturation 10**	255	
			000 - 255	0 - 100%		
		38		**Intensity 10**	255	
			000 - 255	0 - 100%		

SPECIFICATIONS

SOURCE

50x 15W RGBW LED Emitters
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

6,000K Color Temperature
20,000 Total Lumen Output
13.5° Beam 24.3° Field Angle (without diffuser)
25.2° Beam 50.1° Field Angle (with diffuser)

CONTROL / CONNECTIONS

11 DMX Channel Modes (88 Total Channels)
5x2 Cell Control
Manual Tilt Adjustment
DMX, RDM Protocol Support
Standalone and Primary/Secondary Operation
4 Button OLED Control Display
Elation's E-FLY™ Internal Wireless DMX Transceiver
IP65 5pin DMX In/Out
IP65 Power In/Out
With Wired Digital Communication Network

SIZE / WEIGHT

Length: 20.9" (531mm)
Width: 5.8" (148mm)
Height: 13.7" (348mm)
Weight 33.0 lbs. (15kg)

ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz
800W Max Power Consumption
5°F to 113°F (-15°C to 45°C)

INCLUDED ITEMS:

PAL285/60°LK- 60° Lens Kit
Locking Power Cable

OPTIONAL ACCESSORIES:

PAL285/100°LK- 100° Lens Kit
PPBD - Barndoor
Sku# 8050000053 108mm PIN TO PIN OMEGA BRACKET

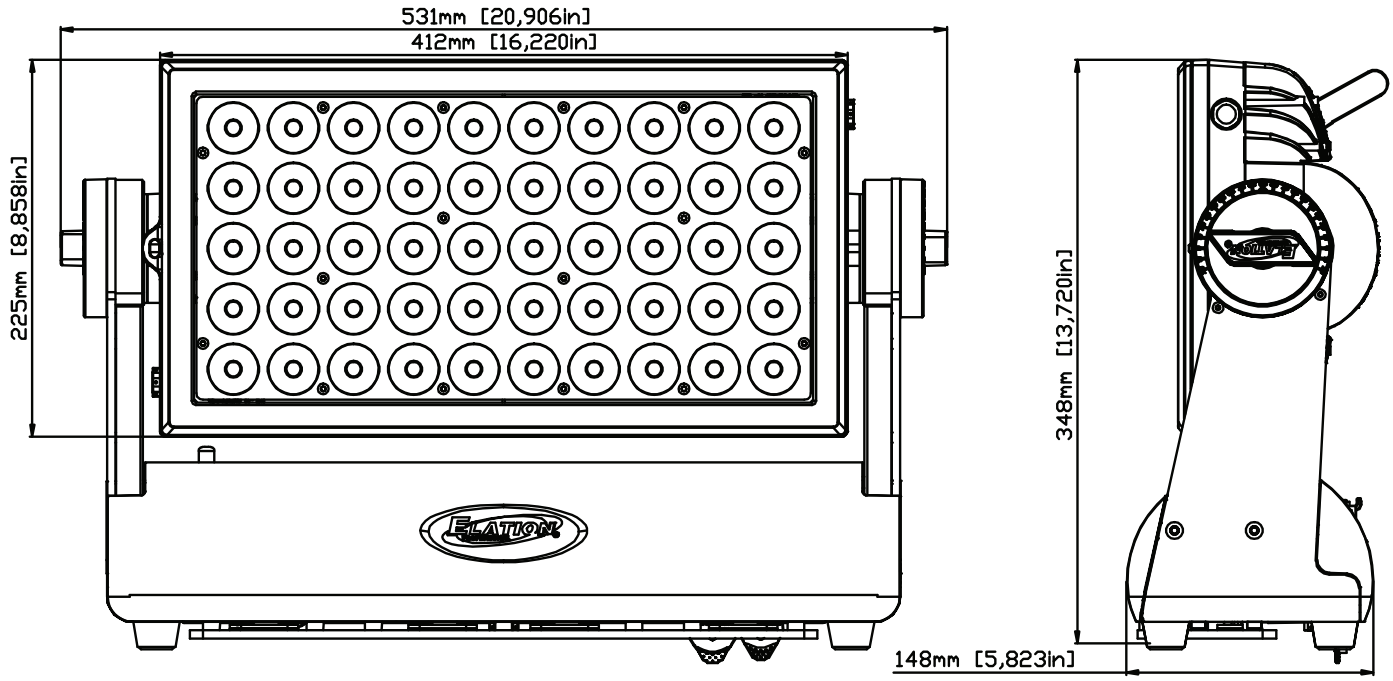
APPROVALS / RATINGS

CE | cETLus | IP65

CE c ETL us LISTED Intertek 4010765 IP65

Specifications and improvements in the design of this unit and this manual are subject to change without notice.

DIMENSIONAL DRAWINGS



OPTIONAL ACCESSORIES

ORDER CODE	ITEM
IP TESTER	IP Fixture Vacuum and Pressure Leak Tester
TRIGGER CLAMP	Heavy Duty Wrap Around Hook Style Clamp
SIP126	5 ft. (1.5m) IP65 Power Link Cable
STR527	5 ft. (1.5m) IP65 5pin XLR Cable
PPBD	Barndoor
PALADIN PANEL SHADER	Shader
PALADIN PANEL FILTER 20°	20° Filter
PALADIN PANEL FILTER 60°	60° Filter
PALADIN PANEL FILTER 100°	100° Filter
PALADIN PANEL FILTER 40X1°	40x1° Filter
PALADIN PANEL FILTER 1X40°	1x40° Filter
PALADIN PANEL FILTER 60X10°	60x10° Filter
PALADIN PANEL FILTER 10X60°	10x60° Filter
	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 determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device and the receiver to electrical outlets on different circuits.
- Consult the dealer or an experienced radio/TV technician for help.

Europe Energy Saving Notice

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 powerwhen not in use. Thank you.