



 $\begin{array}{l} PROTEUS \\ RAYZOR BLADE \\ s \\ user manual \end{array}$ 

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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	SoftwareVersion ≥	DMX Channel Modes	Notes
07/27/2022	1.0	1.0.0	28/50/82/106	Initial Release
08/25/2022	1.1	N/C	No Change	Updated RDM, Torque Settings for Screws
09/08/2022	1.2	N/C	No Change	Updated System Menu
10/05/2022	1.3	N/C	No Change	Updated Dims

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### **GENERAL INFORMATION**

#### FOR PROFESSIONAL USE ONLY

#### 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. For professional use only.

#### **IP65 RATED**

An IP rated lighting fixture is one, which is commonly installed in outdoor environments and has been designed with an enclosure that effectively protects the ingress (entry) of external foreign objects such as dust and water. **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 one, which has been designed and tested to protect against the ingress of dust **(6)** and low-pressure water jets from any direction **(5)**.

#### 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**

Omega Brackets (x2) IP65 Rated 5pin DMX Cable IP65 Rated RJ45 DATA Cable (Fixture to Fixture Interconnect Use Only!) IP65 Rated Power Cable

#### **CUSTOMER SUPPORT**

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

ELATION SERVICE USA-Monday-Friday 8:00am to 4:30pm PST 323-582-3322 | Fax 323-832-9142 | support@elationlighting.com

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

**REPLACEMENT PARTS** please visit parts.elationlighting.com

### LIMITED WARRANTY (USA ONLY)

To obtain warranty service, a Return Materials Authorization (RMA) number must first be obtained from ELATION. It is the Customer's responsibility to provide product proof of purchase and serial number by acceptable evidence such as an invoice copy or an approved ELATION Extended Warranty Certificate ("EWC") and any relevant maintenance records at the time warranty service is sought. Failure to provide acceptable evidence of product proof of purchase or EWC and any relevant maintenance records may be cause for denial of warranty service.

Products returned for warranty service must be sent without any accessories (i.e., power, data, and safety cables, brackets, clamps, rigging hardware, frost filters, gel frames, barn doors, lens, hoses, nozzles, rack mounting hardware, etc.), must be boxed using the original and/or suitable packaging materials (double-box and foam) that provides ample product protection for ground and/or air freight transit, and must be shipped freight pre-paid and insured to ELA-TION in Los Angeles, CA or an ELATION Authorized Service Center. The RMA number must be clearly written on the outside of the return box, and a brief description of the problem and the RMA number must be documented and included in the box.

Products returned for warranty service without an RMA number clearly marked on the outside of the package will be refused and returned to the shipper at the Customer's expense. Products returned for warranty service, which are received damaged due to inadequate and/or improper packaging and/or due to damage caused by shipping carrier, may incur additional repair charges before warranty service begins and/or may void this warranty. If any product accessories (included and/or optional) are shipped with the product, ELATION and/or the ELATION Authorized Service Center shall have no liability what so ever for the loss and/or damage to any such accessories, nor the safe return thereof. If the requested warranty repairs or service (including parts replacement) are within the terms of this warranty, ELATION will pay return ground transportation shipping charges to a single designated point within the United States.

### SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. Elation Professional is not responsible for 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 (omega brackets) included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufactures 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 FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURE'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.



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.



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



IF THE FIXTURE IS EXPOSED TO ENVIRONMENTAL TEMPERATURE CHANGES SUCH AS RELOCATION FROM AN OUTDOOR COLD TO AN INDOOR WARM ENVIRONMENT, DO NOT POWER THE FIXTURE ON IMMEDIATELY. INTERNAL CONDENSATION AS A RESULT OF ENVIRONMENTAL TEMPERATURE CHANGE CAN CAUSE INTERNAL FIXTURE DAMAGE. LEAVE THE FIXTURE POWERED OFF UNTIL IT HAS REACHED ROOM TEMPERATURE BEFORE POWERING ON.



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

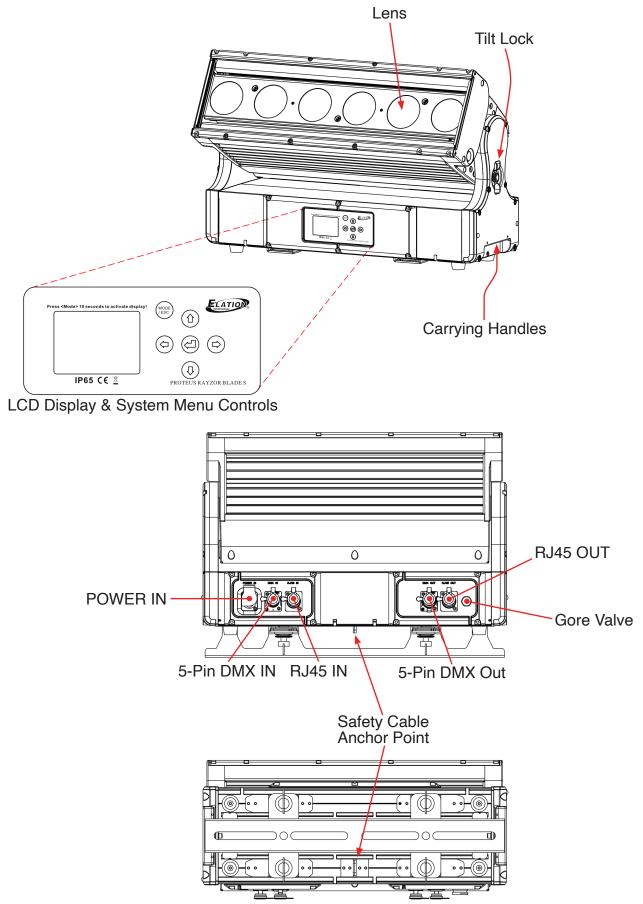


MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 3.2 FEET (1.0 METERS) MAXIMUM TEMP OF EXTERNAL SURFACE 185° F (85°C) MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE 3.2 FEET (1.0 METER)

### SAFETY GUIDELINES

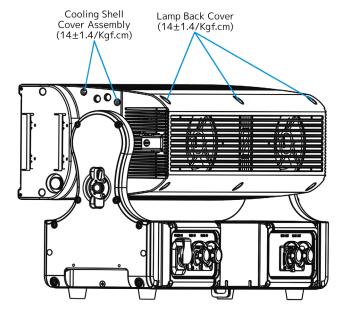
- **DO NOT TOUCH** the fixture housing during operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before serving.
- **DO NOT** shake fixture, avoid brute force when installing and/or operating fixture.
- **DO NOT** operate fixture if the power cord is frayed, 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.
- **DO NOT** block any air ventilation slots.
- All fan and air inlets must remain clean and never blocked.
- 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; never pull the plug out by tugging the wire portion of the cord.
- 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.

### OVERVIEW

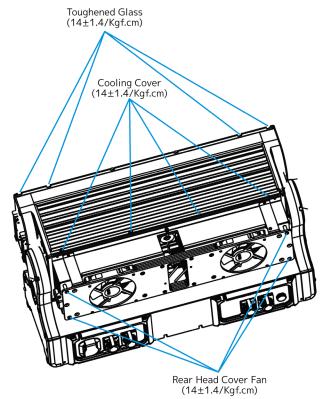


### TORQUE SETTINGS FOR SCREWS

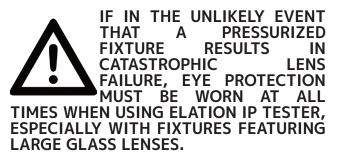
NO.	Name	Torque Settings/kgf.cm
1	Lamp Back Cover 2	7±0.7
2	Cooling Shell Cover Assembly	14±1.4
3	Cooling Cover	14±1.4
4	4 Toughened Glass	
5	Rear Head Cover Fan	14±1.4



CAUTION! DO NOT OVER TORQUE SCREWS AS THIS CAN CAUSE LEAKAGE ISSUES! TO CONFIRM THE IP65 INTEGRITY, TEST FIXTURE USING THE ELATION IP TESTER. CONTACT ELATION SERVICE FOR MORE DETAILS.



Elation Product	Miniı Val		Maxi Val		Steady Time (Hold Time)	Tester	Remarks
	Кра	Psi	Кра	Psi	S		
	-17	-2.5	-13	-1.9	30	Elation IP	Complete Unit
Proteus Rayzor Blade L/S						Tester	Complete Unit
(Same settings both units)	17 00	10	17 00	25	30	Elation IP	
_	12.00	1.9	17.00	2.5	50	Tester	







#### FLAMMABLE MATERIAL WARNING

Keep fixture minimum 3.2 feet (1.0m) away from flammable materials and/or pyrotechnics.

### ELECTRICAL CONNECTIONS

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



### MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 3.2 FOOT (1.0 METERS)



MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE 3.2 FEET (1.0 METER)



MAXIMUM AMBIENT TEMPERATURE 194° F (90°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 the fixture to any metal truss/structure or placing the fixture 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, 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.

Fixture ambient operating temperature range is **4° to 113°F. (-20° to 45°C)** Do not use the fixture under or above this temperature.

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

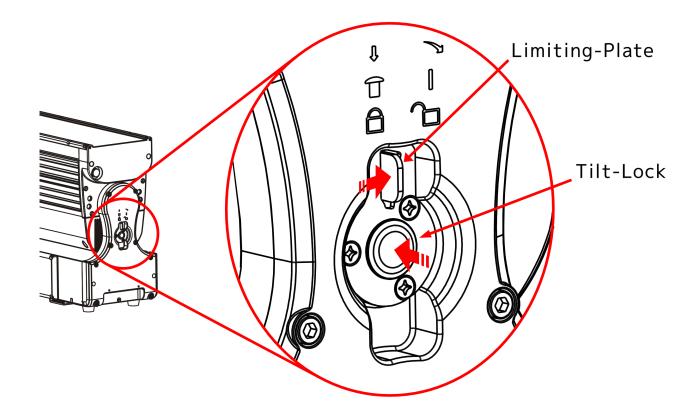
**NEVER** stand directly below the fixture when rigging, removing or servicing.

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

Allow approximately 10 minutes for the fixture to cool down before servicing.

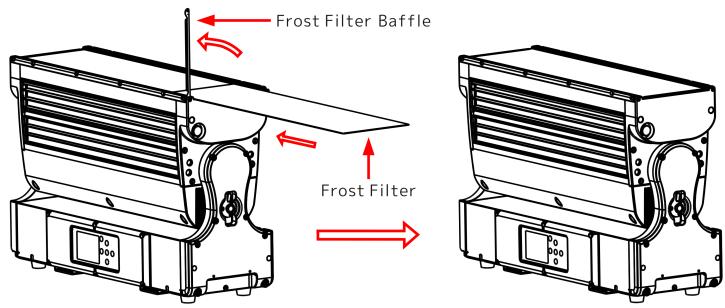
#### TILT-LOCK

To lock, press the Tilt-Lock Button until it clicks. To Unlock, press the Limiting-Plate to the right until the Tilt-Lock button pops up.



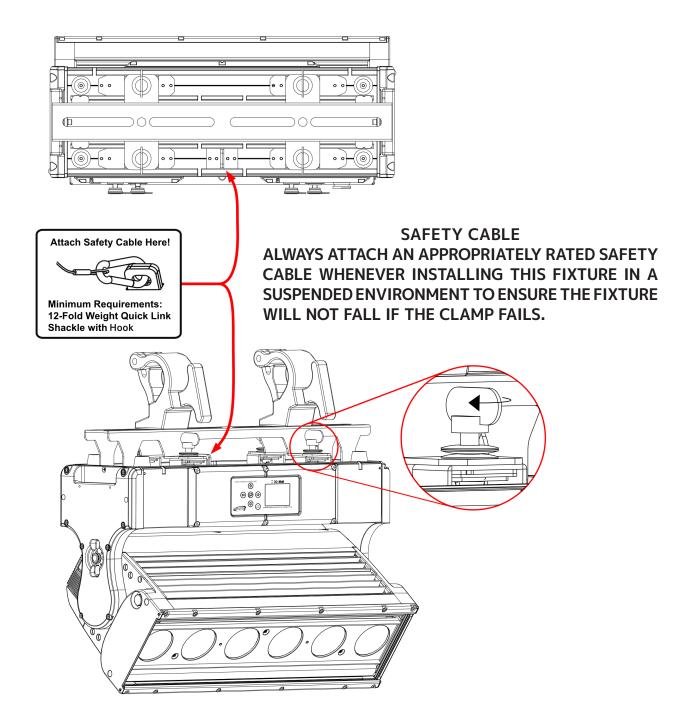
#### **FROST-FILTER**

- 1. Loosen the screws on both sides of the Frost-Filter Baffle and lift it away as shown below.
- Insert the Frost Filter into the slot above the lens glass and slide it in fully.
   Replace the Frost-Filter Baffle and tighten the screws



#### OMEGA BRACKETS WITH CLAMP INSTALLATION

Insert the 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.

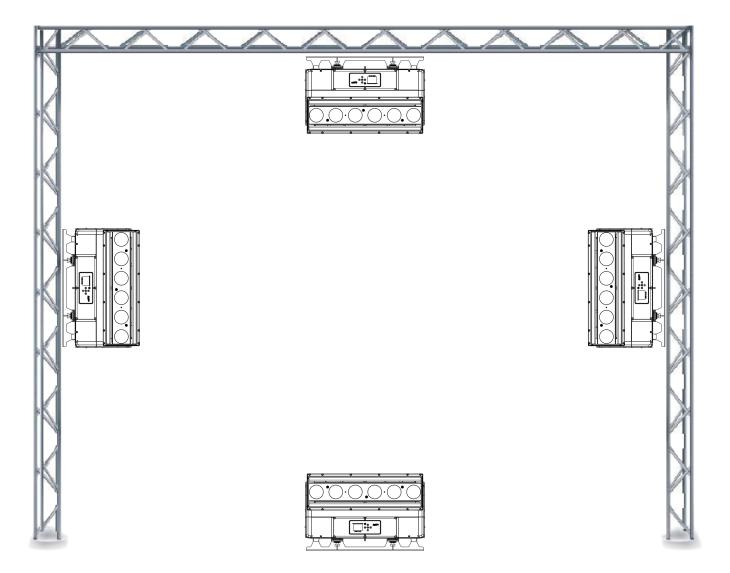


#### MOUNTING THE FIXTURE ON A TRUSS USING CLAMPS WITH OMEGA BRACKETS

When mounting the fixture to a truss, be sure to secure an appropriately rated professional grade rigging clamp to the included **Omega Brackets** using an M10 or M12 screw fitted through the center hole of the **Omega Brackets**. The fixture provides built-in rigging points for a **SAFETY CABLE** (not included). Be sure to only use one of the designated rigging points for the safety cable and never secure a safety cable to a carrying handle.

#### RIGGING

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



#### ART-NET | SACN CONNECTION

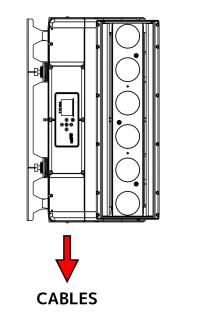
When connecting fixture to a network switch to control multiple devices, a **Gigabit Ethernet Switch** that supports **IGMP (Internet Group Management Protocol)** is required. Using a **Gigabit Ethernet Switch** that does not support **IGMP** can cause erratic behavior of all connected devices to the switch. Click link below for more information about IGMP.

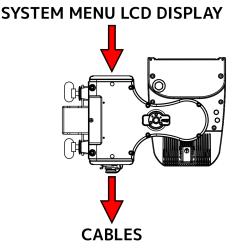
https://en.wikipedia.org/wiki/Internet\_Group\_Management\_Protocol

#### 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.

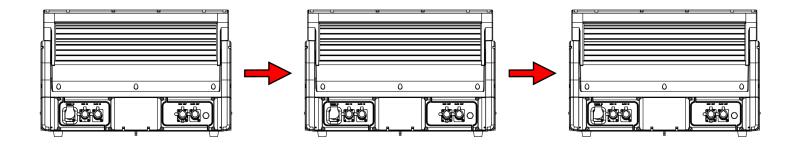




INCLUDED RJ45 DATA CABLE



THE INCLUDED RJ45 DATA CABLE IS FOR FIXTURE TO FIXTURE INTERCONNECTION ONLY! THE RJ45 CABLE CONNECTORS MAY NOT BE COMPATIBLE WITH OTHER RJ45/ETHERCON TYPE CONNECTORS.



POWER AND DATA CABLES

ENSURE ALL CONNECTIONS AND ENDCAPS ARE PROPERLY SEALED WITH DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT. TO MAINTAIN THE IP65 RATING INTEGRITY OF THE FIXTURE AND PREVENT WATER FROM ENTERING THE FIXTURE, SEAL ALL UNUSED CONNECTION RUBBER CAPS.

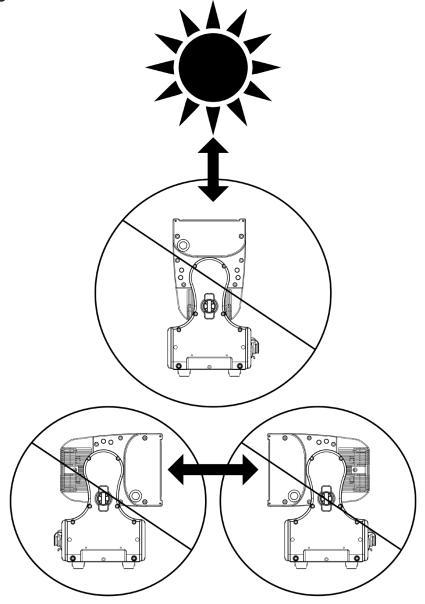
#### POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

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.

Note: See 'DMX Traits: Fixture' table on page 30 under 'Control' for channel values to engage or disengage these functions.



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#### SUN PROTECTION MODE

The fixture incorporates an automatic protection from harmful sunlight, which can damage a fixture's internal components from extended exposure. Fixtures use an internal sensor to determine their physical orientation, then reorient the fixture towards the ground to prevent sunlight from entering the lens.

This automatic feature only works when the fixture is powered. If the fixture is unpowered during setup, it is necessary to manually reorient the lenses away from the sun, and aim them towards the ground. Even a few minutes of sun exposure can cause damage inside the fixture.

The Sun Protection setting is accessed via the "No DMX Status" menu.

The automatic sun protection positioning is activated under the following conditions:

- 1. Power on without DMX signal: the fixture always starts in sun protection mode.
- 2. No DMX Status "Sun Protection": the fixture enters sun protection mode after approximately 3 minutes.
- 3. Remote DMX control: the sun protection position can be **temporarily** activated from the lighting console without the need to create a custom position preset. The fixture senses the correct ground orientation. This means that fixtures already facing the ground may not move their heads.

Hold "Sun Protect Position" for 3s to set the fixture to the sun protection position.

Sun protection status displays as "Sun Protection: Active".

The sun protection position deactivates under the following conditions:

- 1. Connect DMX signal.
- 2. Remote DMX control: Hold "Sun Protection Off" for 3s.

To avoid harsh or jarring movements, the sun protection position always uses a 5-second fade time when it is activated or deactivated.

#### HIBERNATION MODE

To reduce wear on the fixture and its components, this mode disables motors and most electronics. Set the hibernation mode countdown time in the Display Menu: "Status Settings / Personality / Hibernation". Hibernation can be fully disabled.

The hibernation mode activates under the following conditions:

- 1. Loss of DMX: the fixture enters hibernation after the timeout expires. Default is 15 minutes.
- 2. Remote DMX control: Hold "Hibernate Fixture" for 3s

The hibernation mode deactivates under the following conditions:

- 1. Connect DMX Signal
- 2. Remote DMX control: Hold "Hibernate Off" for 3s

The fixture will perform a full calibration cycle, then assume the current DMX status.

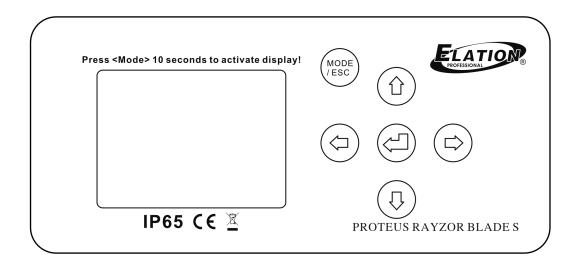
Please note that the Hibernation does not change the PT position of the fixtures, allowing the user to set the desired position and then issue the Hibernate command.

To ensure the fixture is protected from harmful sunrays it is recommended to either leave the "No DMX Status" in "Sun Protection" (so the fixture is already in the correct position after 3 minutes of DMX loss) or set the fixture to a safe Tilt position manually first before hibernation.

Burn and heat damage to the fixture's interior components due to external light sources (sun or other fixtures shining into the lens) is never covered under the manufacturers warranty.

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/ESC** 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**, **DOWN**, **RIGHT**, and **LEFT** 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/ESC** button.

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



		<b>ES</b> (Default Setting		DESCRIPTION
	Set Dmx Address	A001~AXXX		DMX Address Setting
-	Dmx Value	ALL·····		DMX Value Display
Function	Secondary Mode	Secondary1, Secor	ndary2, Secondary3	Secondary Setting
	Auto Program	Primary / Alone		Auto Program
		Current Time	XXXX(Hours)	Power On Running Time
		Total Run Time	XXXX(Hours)	Fixture Running Time
	Time Information	Last Run Time	XXXX(Hours)	Fixture Last Times Clear
		LastRun Password		Timer Password ( <b>038</b> )
		Clear Last Run	ON/OFF	Clear Fixture Last Time
		LED Temperature		Temperature in LED
	Temperature Info	Head Temperature		Temperature in Head
		Base Temperature		Temperature in Base
		Head Humidity	XXX%	Humidity in Fixture
	Humidity Info	Base Humidity	XXX%	Humidity in Base
Information		Ethernet IP	AAA 70	
	Ethernet IP	XXX. XXX. XXX. XX XXX. XXX. XXX. XX	(X (X	Ethernet IP
	Fan Info	HeadFan1: xxxx RI	PM	Fan information
	Software Version	Vx.x.x		Software Version
	Error Info	Error Record 1 Error Record 2		TILT TILT
		Error Record 10		TILT
		Address Via DMX	ON/OFF	Address Via DMX
			Sun Prot	The fixture moves to the suprotection position after minutes
		No DMX Status	Close	The fixture turns off the lig
	Status Settings		Hold	The current fixture state held until power off or DMX resumed
			Auto	The fixture recalls the intern auto program
Personality		Tilt Reverse	ON/ <b>OFF</b>	Tilt Reverse movement
		Zoom Speed	Slow/Fast	Zoom speed mode
		Feedback	ON/OFF	Movement Feedback
		Hibernation	OFF, 01M~99M, <b>15M</b>	Standby Mode
		Password	Password=XXX	Password ( <b>050</b> )
	Service Setting	Clear Err. Info	ON/OFF	Clear Err. Info
	Fans Control	Auto/ High/ Silent	t / Studio / Mute	Fans Control
	Display Setting	Shutoff Time	02~60m <b>05m</b>	Display Shut Off Time
		Display Reverse	OFF/ON/AUTO	Reverse 180 degree
		Key Lock	ON/OFF	LCD Control Panel Key Lock

Standard       Stage         TV       TV         Architectural       Dimmer Mode         Teatre       Stage2         Delay       Os, 0.1s, 0.2s,, 10s         Refresh       1200, 900-1500, 2500, 4000, 5000, 6000, 10000, 10000, 15000, 20000, 25000(Hz)         DimmerCurve       Linear, Square, Inverse Square, S-Curve       DimmerCurve Setting         Reset Default       ON       PassCode=XXX       Restore factory settings         Reset Tilt       Reset Tilt       Reset Tilt       Reset Tilt         Reset All       Reset Tilt       Reset Tilt       Reset Tilt         Reset Tilt       Calibrate Password, Password, Password (011)       Calibrate and adjust the eff         Visit       Calibration       TILT=XXX       Test function         Calibration       TILT=XXX       Test function         Calibration       TILT=XXX       Standard channel mode         User Mode       User Mode       Standard, Pixels, Extended       Standard channel mode         Reset Program       Auto Pro Part 1 = Program 1~10 Program 1       Auto Pro Part 2 = Program 1~10 Program 1         Auto Pro Part 3 = Program 1~10 Program 1       Auto Pro Part 3 = Program 1~10 Program 1       Select Program         Edit Program       Prog 1 : Prog 10       ProgTest	MAIN MENU	OPTION	S / VALUES (Defaul	t Settings in <b>BOLD</b> )	DESCRIPTION	
Parenneit         Initial Status         THLT=XXX         Initial effect position           Select Signal         Art-Net         Select Signal         Select Signal           Select Signal         Art-Net         Select Signal         Select Signal           Klingnet         ON/OFF         Klingnet         Klingnet           Ethernet IP         XXX. XXX. XXX. XXX         Ethernet IP           Set Universe         000-32767         Setting Art-Net Universe           DHCP         ON/OFF         Automatically assign IP addr           Stage         TU         Theatre           Stage2         Dimmer Mode         Treatre           Tot         Theatre         Dimmer Mode           Refresh         1200, 900-1500, 2500, 4000, 5000, 6000         Refresh Frequency Rate Set           DimmerCurve         Linear, Square, Inverse Square, S-Curve         DimmerCurve Setting           Reset Default         ON         PassCode=XXX         Password (011)           Reset Tilt         Reset Function         Reset Function           Reset All         Calibrate Password, Password, Password Password (011)         Calibrate and adjust the efficit os standard/right position           Jater Mode         User Mode         Standard, Pixels, Extended         Standard channel mode RGBW main LED paste		Tama analysis C/E	Celsius			
Initial status       Initial status       Initial effect position         Select Signal       Art-Net       Select Signal         Select Signal       Art-Net       Select Signal         Klingnet       ON/OFF       Klingnet         Ethernet IP       XXX. XXX. XXX. XXX       Ethernet IP         Ether Mask IP       XXX. XXX. XXX. XXX       Ether Mask IP         Set Universe       000~32767       Setting Art-Net Universe         DHCP       ON/OFF       Automatically assign IP addr         Stage       TV       Automatically assign IP addr         Dimmer Mode       Stage       Dimmer Mode         Teatre       Stage2       Dimmer Mode         Refresh       1200, 900-1500, 2500, 4000, 5000, 6000, Refresh Frequency Rate Set         DimmerCurve       Linear, Square, Inverse Square, S-Curve       DimmerCurve Setting         Reset Default       ON       PassCode=XXX       Restore factory settings         Reset Tilt       Reset Function       Reset Function       Reset Function         Reset All       Calibrate Password, Password=XXX       Password (050)       Calibrate and adjust the eff         Calibration       IILT=XXX       Test function       Standard channel mode       Refwresh Channel mode         Juto Pro Part 1 = P		Temperature C/F	Fahrenheit		Temp C/F	
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IREC, CONTROLLER IXX~XX IAUTOMATIC Scenes Recorder		Rec. Controller	XX~XX		Automatic Scenes Recorder	

#### **FUNCTION-Auto Program**

Define fixture mode (**Primary** or **Alone**) for running Auto Programs. Select desired internal programs under "**Select Program**", set the number of steps under "**Edit program**", and edit individual scenes under "**Edit Scenes**".

#### PERSONALITY-Status Settings-Address Via DMX

When ON, define the desired DMX address via an external controller.

NOTE: This process assumes the fixture DMX address is set to 001. If fixture DMX address is not at 001, you must adjust the channel numbers accordingly in order for this feature to work.

For example: if your fixture address is 010, then Channel 1 becomes Channel 10, Channel 2 becomes Channel 11, and Channel 3 becomes Channel 12.

- 1. Connect the fixture to the external controller and power ON.
- 2. Set the DMX value of **Channel 1** on the controller to (7).
- Set the DMX value of Channel 2 on the controller to (7) or (8). When set to (7), the DMX address can be set between (1) and (255). When set to (8), the DMX address can be set between (256) and (511).
- 4. Using **Channel 3** on the controller set the desired DMX address of the fixture.

#### Example 1:

If the desired DMX address is **57**, set **Channel 1** to a value of (7), set **Channel 2** to a value of (7), and then set **Channel 3** to a value of (**57**).

#### Example 2:

If the desired DMX address is **420**, set **Channel 1** to a value of (7), set **Channel 2** to a value of (8), and then set **Channel 3** to a value of (**164**). (256+164=420)

5. After setting **Channel 3** to the desired DMX address value, wait approximately 20 seconds for the fixture to complete the address reset function.

#### PERSONALITY-Service Settings-Password (050)

**NOTE**: The Service Password MUST be entered in order to access the following menus: Clear Err. Info .

#### PERSONALITY-Display Setting-Key Lock

When ON, Control Panel buttons lock automatically after exiting main menu for 15 seconds. To unlock, keep **MODE/ESC** button pressed for 3 seconds.

#### PERSONALITY-Dimmer Curve



#### ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION! NOTE: SAVED WHITE BALANCE IS ERASED AFTER A RESET IS PERFORMED!

This function restores all fixture settings to the factory default settings. The password is 011 and must be entered each time a reset is performed.

#### EFFECT ADJUST-Test Channel

Auto test each individual channel function independently from the DMX control board.

#### **EFFECT ADJUST-Manual Control**

Select and manually test and fine adjust each individual channel function Independently from DMX control board. This function will center PAN and TILT motors and set dimmer to 100%. PAN and TILT functions will still operate if the fixture needs to be positioned to a flat clear surface. With the individual functions, you can focus the light on a flat surface (wall) and perform fine adjustments.

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#### EFFECT ADJUST-Calibration

#### ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION.

This function allows small adjustments to be made to the Pan, Tilt, and Zoom movements to compensate for ware or in the event a sensor has been knocked slightly out of place. Because improper use of this function can result in undesired operation this function has been password protected. The password is 050 and must be entered each time the calibration menu function is entered. Because calibration is an extremely delicate procedure, instructions on performing this action are left out of this manual. For a first-time calibrator, please contact our customer support team for step-by-step instructions.

#### USER MODE SET-Edit User Mode

Create user defined channel orders allowing the fixture to match the channel order of other fixtures on the market for easier operation. A total of three user modes may be configured: User Mode A, User Mode B, and User Mode C.

#### EDIT PROGRAM-Rec. Controller

The fixture features an integrated DMX-recorder by which you can transmit the programmed scenes from your DMX-controller to the moving head. Adjust the desired scene numbers via the encoder (from – to). When you call up the scenes at your controller, they will automatically be transmitted to the moving head.

#### EDIT PROGRAM-Record Controller-Working With Built-In Programs

A Primary unit can send up to 3 different data groups to the Secondary units, i.e. a Primary unit can start 3 different Secondary units, which run 3 different programs. The Primary unit sends the 3 program parts in a continuous loop.



The Secondary unit receives data from the Primary unit according to the group which the Secondary unit was assigned to. If e.g. a Secondary unit is set to "Secondary 1" in the menu "Set to Secondary", the Primary unit sends "Auto Program Part 1" to the Secondary unit. If set to "Secondary 2", the Secondary unit receives "Auto Program Part 2". To start an Auto Program proceed as follows:

- 1. Secondary Setting
- Select "Function Mode".
- Press ENTER to confirm.
- Select "Set to Secondary".
- Press ENTER to confirm.
- Select "Secondary 1", "Secondary 2" or "Secondary 3".
- Press ENTER to confirm.
- Press **MODE/ESC** in order to return to the main menu.
- 2. Automatic Program Run
- Select "Function Mode".
- Press **ENTER** to confirm.
- Select "Auto Program".
- Press ENTER to confirm.
- Select "Primary" or "Alone".
- Press ENTER to confirm.
- Press MODE/ESC in order to return to the main menu.
- 3. Program Selection for Auto Pro Part
- Select "Edit Program".
- Press ENTER to confirm.
- Select "Select Programs".
- Press **ENTER** to confirm.
- Select "Auto Pro Part 1", "Auto Pro Part 2" or "Auto Pro Part 3", and select which Secondary program is to be sent. Selection "Part 1" means, that the Secondary unit runs the same program as the Primary units.
- Press **ENTER** to confirm.
- Press **MODE/ESC** in order to return to the main menu.

#### 4. Program Selection for Edit Program

- Select "Edit Program".
- Press ENTER to confirm.
- Select "Edit Program".
- Press ENTER to confirm.
- Select the desired program to edit specific scenes into a specific program.
- Press ENTER to confirm.
- Press MODE/ESC in order to return to the main menu.
- 5. Automatic Scene Recording
- Select "Edit Program".
- Press **ENTER** to confirm.
- Select "Edit Scenes".
- Press **ENTER** to confirm.
- Select desired scene numbers. A maximum of 250 scenes can be programmed.
- Press **ENTER** to confirm.
- Press **MODE/ESC** in order to return to the main menu.

**EDIT PROGRAM-Record Controller-Working With Built-In Program [continued]** Example:

Program 2 includes scenes: 10, 11, 12, & 13

Program 4 includes scenes: 8, 9, & 10

Program 6 includes scenes: 12, 13, 14, & 15

Auto Pro Part 1 is Program 2

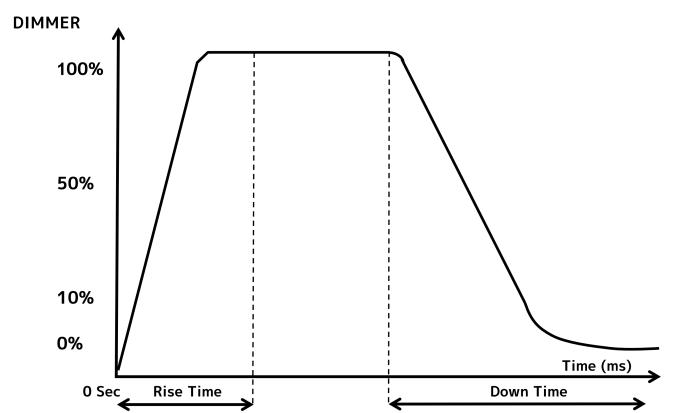
Auto Pro Part 2 is Program 3

Auto Pro Part 3 is Program 6

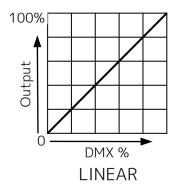
The 3 Secondary groups run the Auto Program in certain time segments.

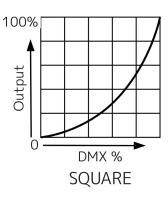
Part	1			
Þ	Scene 10	Scene 11	Scene 12	Scene 13
Part	2			
	Scene 8	Scene 9	Scene 10	Scene 8+
Part	3			
	Scene 12	Scene 13	Scene 14	Scene 15

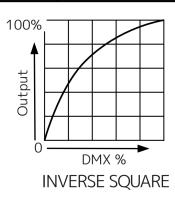
### DIMMER MODE GRAPHS

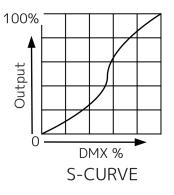


Dimming Curve Ramp Effect	0 sec Fa	ade Time 255	1 sec Fa	ade Time 255
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural-	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660









### PATCHING AND FX PROGRAMMING GUIDE

The Proteus Rayzor Blade S is a versatile fixture that combines three unique fixtures into one chassis. The DMX layout is designed to offer a variety of options for controlling the fixture efficiently, allowing control of many FX with very few channels, or providing full access of all elements for external pixel mappers.

The FX system of the Proteus Rayzor Blades allows many different combinations by changing the curves, offsets, and speed parameters. The RGBW, SparkLED, and StrobeLine systems are separate, and by adjusting color, dimming, and strobe channels, there are endless creative designs possible.

The main fixture contains 6x 60W RGBW cells, while the SparkLED fixture contains 4x2W white LEDs per LED. Two dazzling StrobeLines are added to the edge of the fixture, with 16 elements per side.

For ease of use, the DMX layout is arranged to allow the lighting console to separate the fixture into multiple segments, or parts. It is important to arrange the fixture into the required parts as outline in the DMX table. For simpler programming, the Blade also offers reduced channel modes. However, for easy recall of interesting pixel animations, the fixture contains three independent FX systems for Main, SparkLED, and StrobeLine FX.

#### Fixture Parts

To control the fixture, a console fixture profile must combine parameters into the correct parts, otherwise, programming of the three layers is very difficult. Please use the part names shown in the DMX table. Please use the part names shown in the DMX table.

Main	RGBW Dimmer, Strobe, Pan, Tilt, Main FX Controls, FX Sync
Pixels	Red, Green, Blue, White per cell
StrobeLine	StrobeLine Dimmer, Strobe, Duration, StrobeLine FX Controls
Strobe	StrobeLine Dimmer per pixel
SparkLED	SparkLED Dimmer, Strobe, SparkLED FX Controls
LED	Sparkled Dimmer per pixel

The number of parts depends on the selected DMX mode of the fixture. Depending on console type and application, it may be useful to have all parts as sub fixtures, or create completely separate fixture types for Main, StrobeLine, and SparkLED with their own smaller subset of fixture parts.

#### Strobe and Dimmer Sync

For effective programming, it may be helpful to have dimming and strobing of all parts in perfect sync. This can be accomplished by setting the strobe channel of the SparkLEDs or StrobeLines to DMX value 255. It forces dimming and strobing to follow the parameters of the main fixture.

255	Sync Dim and Strobe with Main
-----	-------------------------------

The highest output strobe of the Proteus Rayzor Blade L is achieved by synchronizing the StrobeLine and RGBW cells. It provides a rare combination of a focused beam, or wide wash with the dazzling white strobing edges of the fixture.

# PATCHING AND FX PROGRAMMING GUIDE

#### FX Concept

Selection and control of integrated FX on the Rayzor Blade are found in the Main, SparkLED and StrobeLine Parts. All FX are available even in the smallest DMX control mode.

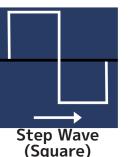
	RGBW FX (see table)
0-255	FX Selection 1 -255
	RGBW FX Speed
0 – 126	Rev Fast → Slow
127 – 128	Stop
129 – 255	Slow → Fast
	SparkLED FX (see table)
0-255	FX Selection 1 -255
	SparkLED FX Speed
0 – 126	Rev Fast → Slow
127 – 128	Stop
129 – 255	Slow → Fast

FX for RGBW, SparkLED and StrobeLine contain a selection channel to recall the desired pattern. The pattern direction and speed is then adjusted using the associated Speed channel. FX can run forward / backward and can also be frozen at any time by using "Stop".

The FX table shows the available patterns which are grouped for easier browsing. The first 10 DMX steps of the FX channel are used to change the type of curve for smooth or stepped FX. Once a curve is selected its used for all FX recalled afterwards. When programming cues for fixtures the user must ensure to change the curve first before selecting the pattern. The fixture defaults to the Sinewave pattern after every power cycle.



Sine Wave





Ramp Up Wave



Ramp Down Wave

In addition to the fx direction and speed a Sync channel allows to offset or randomize the fixtures or FX steps.

	FX Offset
0	Idle
1	Fixture Offset 10 Degree
2	Fixture Offset 20 Degree
3-34	Fixture Offset
35	Fixture Offset 350 Degree
36	Synchronized
3-100	No Function
101–120	Random Fixture Offset
121-140	Random Pixel Order
141-255	Random Steps

### PATCHING AND FX PROGRAMMING GUIDE

A full FX cycle is 360-degrees and the fixture allows offsets in 10 degree increments. Offsetting a fixture by 180 would mean it is exactly halfway ahead through the FX cycle. Through individual offsets or utilizing lighting consoles fan functions the fixture allows a variety of spreads for impactful FX.

Three randomization options are provided:

**Random Fixture Offset**: Every fixture randomly selects any of the 36 offset points. It will then use this until the offset is changed or random offset is selected again.

**Random Pixel Order**: The actual FX steps are randomized. This shuffling of the fixture order is done once, the fixture will use this shuffled order across all FX until changed.

**Random Steps**: Every step is randomly chosen every time, giving the most random looks possible. To reshuffle the randomization set the channel to Idle, then reselect the desired random option.

#### Blade L Strobe Mapping

The fixture offers several ways to map the StrobeLines depending on alignment with Blade S or to change the desired FX mapping across the strobe edge. For perfect match of distances, the L fixture contains 33 cells. The alignment can be selected in the StrobeLine FX channel.

DMX	Pixel	
	Alignment	
250	Full	All elements are used, FX have the same speed from pixel to pixel
251	Full Sync	All elements are used, FX have the same speed across the S and L width
252	Split	The Center Element is disabled, all FX act identical as Blade S in two sections
253	Left	Elements start at the left edge, with a gap at the right
254	Right	Elements start at the right edge, with a gap at the left

The FX system of the Proteus Rayzor Blades allows many different combinations by changing the curves, offsets, and speed parameters. The RGBW, SparkLED, and StrobeLine systems are separate, and by adjusting color, dimming, and strobe channels, there are endless creative designs possible.

FIVTURE	MODE	CHANN					EADE	
FIXTURE CONTROL ART/NAME	STANDARD 28CH	PIXEL 50CH	PIXEL PLUS 82CH	EXTENDED 106CH	VALUE	FUNCTION	FADE STATUS	DEFAUL
	1	1		1		Tilt	Fade	127
					0-255	Movement Tilt Fine		
	2	2		2	0-255	Fine Movement	Fade	127
						СТС	<u> </u>	1
	3	3		3	0-10	Disabled	Face	0
	Ū	Ũ			11–1/1	Color Temperature 2000K to 10000K	Fade Face	
					172-200	Color Wheel		
					0-9	Open	1	
					10-14	Red	]	
						Red Orange	]	
						Light Amber	4	
					25-29	Yellow Amber	-	
					<u>30-34</u> 35-39	Greenish Yellow Light Yellow Green	-	0
						Dark Yellow Green	-	
						Green	1	
						Teal	Snap	
						Cyan		
					60-64	Light Blue		
						Aqua		
					70-74	Dark Aqua Green Blue		
						Light Lavender		
	4					Dark Purple		
MAIN					90-94	Medium Purple		
PLAIN						Mid Rose		
					100-104			
					105-109	Nice Magenta		
		4	4	4		Warm Magenta Light Red		
					120-124			
					125-129	Dark CTB		
					130-134	Light Green		
					135-139	Purple		
						Lighter Purple		
					145-149 150-154	Pink		
					155-154			
					160-164	ITBD	1	
					165-169	TBD	1	
					170-174	TBD	]	
					175-179			
						Color Scroll	-	
					202-207	Clockwise,fast→slow	-	
						IStop Counter-clockwise,slow→ fast	-	
					230-234		1	
						Random Slots	1	
					235-239		1	
					240-244		4	
					245-249	SIOW Open	-	
					240-244 245-249 250-255	Slow		

	MODE	/CHANN				ange without notice		
FIXTURE CONTROL PART/ NAME	STANDARD 28CH	PIXEL 50CH	PIXEL PLUS 82CH	EXTENDED 106CH	VALUE	FUNCTION	FADE STATUS	DEFAULT
	5 6 7	5 6 7	5 6 7	5 6 7	128-159 160-191 192-223	StrobeShutter closedShutter openStrobe (slow $\rightarrow$ fast) 0.289-16.67 HzFast Close, Slow OpenFast Open, Slow ClosePulse EffectsRandom Strobe (slow $\rightarrow$ fast)Shutter openDimmer0 $\rightarrow$ 100%Dimmer FineFine Dimming	Snap Fade Fade	50 0 0
MAIN	8	8	8	8	0-20 21-40 41-60 61-80 81-100 101-120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142-255	Dim Modes           Standard           Stage           TV           Architectural           Theatre           Stage 2           Dimmer Delay Time           Os           0.1s           0.2s           0.3s           0.4s           0.5s           0.6s           0.7s           0.8s           0.9s           1.0s           1.5s           2.0s           3.0s           4.0s           5.0s           6.0s           7.0s           8.0s           9.0s           10s	Snap	0
	9	9	9	9	0-245 246-255	<b>Zoom</b> Zoom Wide → Narrow Overdrive Min → Max	Fade	0
		10	10	10	0-255	Zoom Fine Fine Zoom	Fade	0
		11	11	11	0-225 226-235 236-255	Tilt Speed Max to Min speed Blackout while moving No function	Snap	0

FIXTURE	MODE	/CHANN		1			FADE	
CONTROL PART/ NAME	STANDARD 28CH	PIXEL 50CH	PIXEL PLUS 82CH	EXTENDED 106CH	VALUE	FUNCTION	FADE STATUS	DEFAUL
					0.0	Control		
					<u>0-9</u> 10-19	ldle Pixel Order Normal		
						Pixel Order Inverse		
					40-44	Low Noise -Mute		
					45-49	Low Noise - Studio		
					50-59	Fan Control - Low		
					60-69	Fan Control - High		
						Fan Control - Auto (default)		
						Reset All		
					<u>85-87</u> 88-91	Reset Movement Reset Zoom		
					92-100	Idle		
						Refresh Rate (Hz)		
						900		
					101	910		
					102	920		
					103	930		
					104	940		
					105 106	950 960	_	
					100	970		
					107	980		
	<b>NIN</b> 10 12 12				990			
		10	12	110	1000		0	
MAIN		12		1010				
					112	1020		
					1030			
					114 115	1040 1050	_	
						1060		
						1070		
						1080		
						1090		
						1100		
						1110		
					<u>122</u> 123	1120 1130	_	
						1140		
						1150		
					126	1160		
						1170		
					128	1180		
						1190 1200		
						1200		
						1220		
						1230		
					134	1240		
					135	1250		

	MODE			Features subj	ect to cha	ange without notice		
FIXTURE	MODE	/CHANN	Ĩ					
CONTROL PART/ NAME	STANDARD 28CH	PIXEL 50CH	PIXEL PLUS 82CH	EXTENDED 106CH		FUNCTION	FADE STATUS	DEFAULT
					137 138	1260 1270 1280 1290		
					140 141	1300 1310 1320		
					143 144	1330 1340 1350		
					146 147	1360 1370 1380		
					149 150	1390 1400 1410		
					152 153	1420 1430 1440		
					155 156	1450 1460 1470		
MAIN	10	12	12	12	158 159 160	1480 1490 1500		0
					162 163	2500 4000 5000		
					165 166	6000 10000 15000		
					168 169-192	20000 25000 Idle		
					<u>195-196</u> 197-198	Hibernate Fixture Hibernate Off Sun Protection Position Sun Protection Off		
					201-210 211-220	Dimmer Curve Linear Dimmer Curve Square Dimmer Curve Inverse Square		
					231-240	Dimmer Curve S-Curve (default)		
					250-251 252-253 254-255	Display on		

				Features sub	ject to cha	inge without notice		
	MODE	/CHANN	EL					
FIXTURE CONTROL PART/ NAME	STANDARD 28CH	PIXEL 50CH	PIXEL PLUS 82CH	EXTENDED 106CH	VALUE	FUNCTION	FADE STATUS	DEFAULT
	11	13	13	13		RGBW FX (see table)	Snap	0
		15	15	15		FX Selection 1-255	Зпар	0
						RGBW FX Speed		
	12	14	14	14		Rev Fast → Slow	Fade	160
	12	14	1 1 4	17	127–128		Taue	100
						Slow → Fast		
						FX Offset		
						Idle		
MAIN					1	Fixture Offset 10 Degree		
					2	Fixture Offset 20 Degree		
					3-34	Fixture Offset…		
	13	15	15	15	35	Fixture Offset 350 Degree	Snap	0
					36	Syncronized		
					37-100	No Function	]	
					101-120	Random Fixture Offset	]	
					121-140	Random Pixel Order	]	
					141-255	Random Steps	1	

### DMX TRAITS: RGB PIXEL FX TABLE

				eatures sub	ject to cha	ange without notice	1	
FIXTURE	MODE	<u>/CHANN</u>	1					
CONTROL PART/ NAME	STANDARD 28CH	PIXEL 50CH	PIXEL PLUS 82CH	EXTENDED 106CH	VALUE	FUNCTION	FADE STATUS	DEFAULT
	14	16	16	16	0-255	<b>Red</b> 0 → 100%	Fade	255
MAIN or	15	17	17	17	0-255	<b>Green</b> 0 → 100%	Fade	255
Pixel 1	16	18	18	18	0-255	Blue 0 → 100%	Fade	255
	17	19	19	19	0-255	White 0 → 100%	Fade	255
		20	20	20	0-255	<b>Red 2</b> 0 → 100%	Fade	255
Divel 2		21	21	21	0-255	<b>Green 2</b> 0 → 100%	Fade	255
Pixel 2		22	22	22	0-255	Blue 2 0 → 100%	Fade	255
		23	23	23	0-255	White 2 0 → 100%	Fade	255
		24	24	24	0-255	<b>Red 3</b> 0 → 100%	Fade	255
D: 17		25	25	25	0-255	<b>Green 3</b> 0 → 100%	Fade	255
Pixel 3		26	26	26	0-255	Blue 3 0 → 100%	Fade	255
		27	27	27	0-255	White 3 0 → 100%	Fade	255
		28	28	28		<b>Red 4</b> 0 → 100%	Fade	255
D: 14		29	29	29	0-255	<b>Green 4</b> $0 \rightarrow 100\%$	Fade	255
Pixel 4		30	30	30	0-255	Blue 4 0 → 100%	Fade	255
		31	31	31	0-255	White 4 0 → 100%	Fade	255
		32	32	32	0-255	<b>Red 5</b> 0 → 100%	Fade	255
Pixel 5		33	33	33	0-255	<b>Green 5</b> 0 → 100%	Fade	255
Pixel 5		34	34	34	0-255	Blue 5 0 → 100%	Fade	255
		35	35	35	0-255	White 5 0 → 100%	Fade	255
		36	36	36	0-255	<b>Red 6</b> 0 → 100%	Fade	255
Pixel 6		37	37	37	0-255	<b>Green 6</b> 0 → 100%	Fade	255
FIXEIO		38	38	38	0-255	<b>Blue 6</b> 0 → 100%	Fade	255
		39	39	39	0-255	White 6 0 → 100%	Fade	255

### DMX TRAITS: STROBELINE

	MODE	CHANN				nge without notice		
FIXTURE CONTROL PART/ NAME	STANDARD 28CH	PIXEL 50CH	PIXEL PLUS 82CH	EXTENDED 106CH	VALUE	FUNCTION	FADE STATUS	DEFAULT
						Strobe		[
				40		Shutter closed Shutter open	-	
						Strobe (slow → fast) 0.289 - 16.67 Hz	1	
	18	40	40		96-127	Fast Close, Slow Open	Snap	50
	10	40	40	40	128-159	Fast Open, Slow Close		
					100-191	Pulse Effects Random Strobe ALL (slow → fast)		
					224-254	Random Stobe Pixels (slow → fast)	]	
					255	Sync Dim and Strobe with Main		
	19	41	41	41	0-255	$\frac{Dimmer}{0 \to 100\%}$	Fade	0
StrobeLine		10	42	12	0-233	Dimmer Fine		
	20	42	42	42	0-255	Fine Dimming	Fade	0
	21	43	43	43		Duration	Fade	0
					0-255	7-650ms StrobeLine FX (see table)		
	22	44	44	44	0-249	FX Selection 1 -249	Snap	0
					250-255	Idle		
						StrobeLine FX Speed		
	23	45	45	45	<u>0 – 126</u> 127 – 128	Rev Fast → Slow	Fade	160
					127 - 128	Slow → Fast		
Strobe 1			46	46	200	Dimmer 1	Fada	255
Strobe 1			40	40	0-255	0 → 100%	Fade	255
Strobe 2			47	47	0-255	Dimmer 2	Fade	255
					0-255	0 → 100% Dimmer <b>3</b>		
Strobe 3			48	48	0-255	0 → 100%	Fade	255
Strobe 4			49	49		Dimmer 4	Fade	255
Strobe 4			+7	+ 7	0-255	0 → 100%	1 ade	255
Strobe 5			50	50	0-255	$\begin{array}{l} \text{Dimmer 5} \\ 0 \rightarrow 100\% \end{array}$	Fade	255
<u> </u>			<b></b>	<b>E</b> 4		Dimmer 6		055
Strobe 6			51	51		0 → 100%	Fade	255
Strobe 7			52	52		Dimmer 7	Fade	255
					0-255	0 → 100% Dimmer 8		
Strobe 8			53	53	0-255	0 → 100%	Fade	255
Strobe 9			54	54		Dimmer 9	Fade	255
						0 → 100% Dimmer 10		
Strobe 10			55	55		$0 \rightarrow 100\%$	Fade	255
Strobe 11			56	56		Dimmer 11	Fade	255
Strobe II			50	50	0-255	0 → 100%	Гаце	200
Strobe 12			57	57	0.055	Dimmer 12	Fade	255
			_		0-255	0 → 100% Dimmer 13		
Strobe 13			58	58	0-255	$0 \rightarrow 100\%$	Fade	255
Strobe 14			59	59		Dimmer 14	Fade	255
Strobe 14			79	79	0-255	0 → 100%	raue	200
Strobe 15			60	60	0-255	Dimmer 15 0 → 100%	Fade	255
			1	1			1	
Strobe 32			77	77		Dimmer 32	Fade	255
Strobe 52					0-255	0 → 100%		255

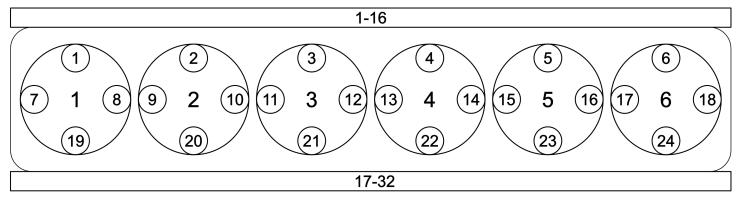
### DMX TRAITS: SPARKLED

	MODE	CHANN	EL					
FIXTURE CONTROL PART/ NAME	STANDARD 28CH	PIXEL 50CH	PIXEL PLUS 82CH	EXTENDED 106CH	VALUE	FUNCTION	FADE STATUS	DEFAULT
	24	46	78	78	64-95 96-127 128-159 160-191 192-222	Strobe Shutter closed Shutter open Strobe (slow → fast) 0.289-16.67 Hz Fast Close, Slow Open Fast Open, Slow Close Pulse Effects Random Strobe ALL (slow → fast) Random Stobe Pixels (slow → fast)	Snap	50
SparkLED	25	47	79	79	255	Sync Dim and Strobe with Main Dimmer	Fade	0
	26	48	80	80		$0 \rightarrow 100\%$ Dimmer Fine	Fade	0
	20	49	81	81		Fine Dimming <b>SparkLED FX</b> (see table)	Snap	0
						FX Selection 1 -255 <b>SparkLED FX Speed</b> Rev Fast → Slow	-	
	28	50	82	82	127–128	Stop Slow → Fast	- Fade	160
LED 1				83	0-255	$\begin{array}{c} \text{Dimmer 1} \\ 0 \rightarrow 100\% \end{array}$	Fade	255
LED 2				84	0-255	$\frac{\text{Dimmer 2}}{0 \rightarrow 100\%}$	Fade	255
LED 3				85		<b>Dimmer 3</b> 0 → 100%	Fade	255
LED 4				86	0-255	$\begin{array}{c} \text{Dimmer 4} \\ 0 \rightarrow 100\% \end{array}$	Fade	255
LED 5				87	0-255	<b>Dimmer 5</b> 0 → 100%	Fade	255
LED 6				88	0-255	$\begin{array}{l} \text{Dimmer 6} \\ 0 \rightarrow 100\% \end{array}$	Fade	255
LED 7				89	0-255	<b>Dimmer 7</b> 0 → 100%	Fade	255
LED 8				90	0-255	<b>Dimmer 8</b> 0 → 100%	Fade	255
LED 9				91	0-255	Dimmer 9 0 → 100%	Fade	255
LED 10				92		<b>Dimmer 10</b> 0 → 100%	Fade	255
LED 11				93	0-255	<b>Dimmer 11</b> 0 → 100%	Fade	255
LED 12				94	0-255	<b>Dimmer 12</b> 0 → 100%	Fade	255
LED 13				95		$\begin{array}{l} \text{Dimmer 13} \\ 0 \rightarrow 100\% \end{array}$	Fade	255
LED 14				96	0-255	<b>Dimmer 14</b> 0 → 100%	Fade	255
LED 15				97		<b>Dimmer 15</b> 0 → 100%	Fade	255
LED 24				106	0-255	Dimmer 24 0 → 100%	Fade	255

## DMX TRAITS: COLOR TEMPERATURE

Color emperature	DMX	Color Temperature	DMX	Color Temperature	DMX
2000	11	4700	65	7400	119
2050	12	4750	66	7450	120
2100	13	4800	67	7500	121
2150	14	4850	68	7550	122
2200	15	4900	69	7600	123
2250	16	4950	70	7650	124
2300	17	5000	71	7700	125
2350	18	5050	72	7750	126
2400	19	5100	73	7800	127
2450	20	5150	74	7850	128
2500	20	5200	75	7900	120
2550	22	5250	76	7950	130
2600	23	5300	77	8000	130
2650	24	5350	78	8050	132
2700	25	5400	79	8100	132
2750	26	5450	80	8150	134
2800	20	5500	<u> </u>	8200	134
2850	27	5550	81	8250	135
2850					
2900	<u>29</u> 30	<u> </u>	<u>83</u> 84	8300 8350	137
					138
3000	31	5700	85	8400	139
3050	32	5750	86	8450	140
3100	33	5800	87	8500	141
3150	34	5850	88	8550	142
3200	35	5900	89	8600	143
3250	36	5950	90	8650	144
3300	37	6000	91	8700	145
3350	38	6050	92	8750	146
3400	39	6100	93	8800	147
3450	40	6150	94	8850	148
3500	41	6200	95	8900	149
3550	42	6250	96	8950	150
3600	43	6300	97	9000	151
3650	44	6350	98	9050	152
3700	45	6400	99	9100	153
3750	46	6450	100	9150	154
3800	47	6500	101	9200	155
3850	48	6550	102	9250	156
3900	49	6600	103	9300	157
3950	50	6650	104	9350	158
4000	51	6700	105	9400	159
4050	52	6750	106	9450	160
4100	53	6800	107	9500	161
4150	54	6850	108	9550	162
4200	55	6900	109	9600	163
4250	56	6950	110	9650	164
4300	57	7000	111	9700	165
4350	58	7050	112	9750	166
4400	59	7100	113	9800	167
4450	60	7150	114	9850	168
4500	61	7200	115	9900	169
4550	62	7250	116	9950	170
4600	63	7300	117	10000	171
4650	64	7350	118		

### PIXEL LAYOUTS



**SparkLEDs** Row 1: 1-6 Row 2: 7-18 Row 3: 19-24

**StrobeLine** Row 1: 1-16 Row 2: 17-32

								Sp	arkL	EDs								
um	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Column	7	1+19	8	9	2+20	10	11	3+21	12	13	4+22	14	15	5+23	16	17	6+24	18
		<u> </u>		<u>.</u>	· · · · · ·						· · · · · ·							
Lenses		1			2			3			4			5			6	
Len	1	+7+8 +1	9	2.	+9+10 +2	!0	3-	+11+12 +	21	4-	+13+14 +	22	5+	-15+16 +	23	6-	+17+18 +2	24

	Strobelines															
Column	1+17	2+18	3+19	4+20	5+21	6+22	7+23	8+24	9+25	10+26	11+27	12+28	13+29	14+30	15+31	16+32
Quarters	1-8	9-16	17-24	25-32												
Pixel Orde Pixel Orde																

RGE	3 W	ΡΙΧ	EL FX T	ABLE	
<u> </u>		J			
Sir	ne Wav	/e	Step Wave (Square)	Sawtooth Wave	Ramp Up Ramp Down Wave Wave
				res subject to change wi	
TYPE	SLOT	DMX	NAME	FX ADJUSTMENT	NOTES/STEPS
	1	1	Sinewave-Cross (default)		In and Out fade start at the same time
	2	2	Sinewave-Full		In fade completes, then out fade completes
_	3	3	Sawtooth-Cross		In and Out fade start at the same time
Waveform	4	4	Sawtooth-Full		In fade completes, then out fade completes
efo	5	5	Ramp Up		
ave	6	6	Ramp Down		
Ň	7	7	Steps		
	8	8			
	9	9			
	10	10			
	11	11	Single	Reverse, Stop, Forward	1,2,3,4,5,6
	12	12	Single Bounce	Reverse, Stop, Forward	1,2,3,4,5,6,5,4,3,2
	13	13	2 Pixels	Reverse, Stop, Forward	Any two random pixels per step
	14	14	3 Pixels	Reverse, Stop, Forward	Any three randiom pixels per step
	15	15	1,2,3 pixels	Reverse, Stop, Forward	Pick randomly 1, then 2, then 3 pixels
	16	16			
	17	17			
	18	18			
	19	19			
	20	20	Alternate SparkLED	Reverse, Stop, Forward	Alternate evenly (tick/tock/tick/tock) between RGBW Pixel at Full and SparkLEDs @Full. Keep all colors strobes, intensities as set by DMX.
	21	21	Burst SparkLED	Reverse, Stop, Forward	Toggles between RGBW Pixel at Full (long on) and SparkLEDs @Full (short flash). Keep all colors strobes, intensities as set by DMX.
Intensity	22	22	Alternate SparkLED 2	Reverse, Stop, Forward	Strobes between RGBW Pixel at Full (short, then off) and SparkLEDs @Full (short, then off). Keep all colors strobes, intensities as set by DMX.
Inte	23	23	Burst RGBW	Reverse, Stop, Forward	Toggles between RGBW Pixel at Full (short flash) and SparkLEDs @Full (long on). Keep all colors strobes, intensities as set by DMX.
	24	24	Lens/SparkLED alternate	Reverse, Stop, Forward	Random Lens @ Full, then different Random Strobe section of 4pixels @ Full. Keep all colors strobes, intensities as set by DMX.
	25	25	Alternate StrobeLED	Reverse, Stop, Forward	Alternate evenly (tick/tock/tick/tock) between RGBW Pixel at Full and Strobeline @Full. Keep all colors strobes, intensities as set by DMX.
	26	26	Burst StrobeLED	Reverse, Stop, Forward	Toggles between RGBW Pixel at Full (long on) and Strobeline @Full (short flash). Keep all colors strobes, intensities as set by DMX.
	27	27	Alternate StrobeLED 2	Reverse, Stop, Forward	Strobes between RGBW Pixel at Full (short, then off) and Strobelines @Full (short, then off). Keep all colors strobes, intensities as set by DMX.
	28	28	Burst RGBW	Reverse, Stop, Forward	Toggles between RGBW Pixel at Full (short flash) and Strobelines @Full (long on). Keep all colors strobes, intensities as set by DMX.
	29 30	29 30			

	Features subject to change without notice           TYPE   SLOT   DMY           NAME         EX AD USTMENT         NOTES (STEPS)									
TYPE	SLOT	DMX	NAME	FX ADJUSTMENT	NOTES/STEPS					
	31	31								
	32	32								
	33	33								
	34	34								
	35	35								
	36	36								
	37	37								
	38	38								
	39	39								
	40	40								
	41	41								
	42	42								
	43	43								
	44	44								
	45	45								
	46	46								
	47	47								
	48	48								
	49	49								
	50	50								
	51	51								
t<	52	52								
Intensity	53	53								
te	54	54								
<u> </u>	55	55								
	56	56								
	57	57								
	58	58								
	59	59								
	60	60								
	61	61								
	62	62								
	63	63								
	64	64								
	65	65								
	66	66								
	67	67								
	68	68								
	69	69								
	70	70								
	70	70								
	71	71								
	73	73								
	74	74								
	75	75								

TYPE	SLOT	DMX	NAME	FX ADJUSTMENT	NOTES/STEPS
	76	76			
	77	77			
	78	78			
	79	79			
	80	80			
	81	81			
	85	85			
	86	86			
	87	87			
tγ	88	88			
Intensity	89	89			
Ite	90	90			I
<u> </u>	91	91			
	92	92			
	93	93			
	94	94			
	95	95			
	96	96			
	97	97			
	98	98			
	99	99			
	100	100			
	101	101	RGBW Cells	Reverse, Stop, Forward	Every Pixel Randomly picks a Red, Green, Blue or White on every step
	102	102	RGBWCMY Cells	Reverse, Stop, Forward	Every Pixel Randomly picks a Red, Green, Blue, White, Cyan, Magenta, Yellow on every step
	103	103	Color Wheel Cells	Reverse, Stop, Forward	Every Pixel Randomly picks a color from the color wheel on every step
	104	104	Red White Cells	Reverse, Stop, Forward	Every Cell Randomly picks White or Red on every Step
	105	105	•	Reverse, Stop, Forward	Every Cell Randomly picks White or Green on every Step
	106	-	Blue White Cells	Reverse, Stop, Forward	Every Cell Randomly picks White or Blue on every Step
	107	107	Red Green Cells	Reverse, Stop, Forward	Every Cell Randomly picks Red or Green on every Step
	108		Red Blue Cells	Reverse, Stop, Forward	Every Cell Randomly picks Red or Blue on every Step
	109	i	Blue Green Cells	,	Every Cell Randomly picks Blue or Green on every Step
	110			Reverse, Stop, Forward	RGBW @ Full randomly is set to one cell at a time over the currently mixed color RGBW @ Full flashes once over the current mixed color of
,	111	111	White Flash	Reverse, Stop, Forward	all Cells
Color	112	112	Red Flash	Reverse, Stop, Forward	Red @ Full flashes once over the current mixed color on all Cells
0	113	113	Green Flash	Reverse, Stop, Forward	Green @ Full flashes once over the current mixed color c all Cells
	114	114	Blue Flash	Reverse, Stop, Forward	Blue @ Full flashes once over the current mixed color on all Cells
	115	115	Color Wheel Flash	Reverse, Stop, Forward	Current Color Wheel Color @ Full flashes once over the current mixed color on all Cells
	116	116	Alternate Color	Reverse, Stop, Forward	Alternates between mixed color and Color Wheel Color on all cells
	117	117			
	118	118			
	119	119			
	120	120			
	121	121			
	123	123			
	124	124			
	125	125			

TYPE	SLOT	DMX	NAME	ures subject to change w FX ADJUSTMENT	NOTES/STEPS
	126	126			
	127	127			
	128	128			
	129	129			
	130	130			
	131	131			
	132	132			
	133	133			
	134	134			
	135	135			
	136	136			
	137 138	137 138			
	130	130			
	140	140			
	141	141			
	142	142			
	143	143			
	144	144			
	145	145			
	146	146			
	147	147			
ง	148 149	148 149			
Colors	149	150			
ŭ	151	151			
	152	152			
	153	153			
	154	154			
	155	155			
	156	156			
	157	157			
	158	158			
	159	159			
	160	160			
	161	161			
	162	162			
	163	163			
	164	164			
	165	165			
	166	166			
	167	167			
	168	168			
	169	169			
	170	170			

ГҮРЕ	SLOT	DMX	NAME	ures subject to change w FX ADJUSTMENT	NOTES/STEPS
	171	171			
	172	172			
	173	173			
	174	174			
	175	175			
	176	176			
	177	177			
	178	178			
	179	179			
	180	180			
	181	181			
	182	182			
	183	183			
	184	184			
	185	185			
	186	186			
	187	187			
	188	188			
	189	189			
	191	191			
	192	192			
	193	193			
Ś	194 195	194			
lor		195			
Colors	196	196			
	197 198	197			
		198 199			
	199 200	200			
	200	200			
	201	201			
	202	202			
	203	203			
	204	204			
	205	205			
	200	200			
	207	207			
	208	208			
	209	209			
	210	210			
	211	211			
	212	212			
	213	213			
	214	214			
	215	215			
	210	210		+	
	217	217			
	210	210			
	219	219		+	
	220	220		1	1

43

	-		Featu	ires subject to change w	/ithout notice
TYPE		DMX	NAME	FX ADJUSTMENT	NOTES/STEPS
	221	221			
	222	222			
	223	223			
	224	224			
	225	225			
	226	226		-	
	220	227			
	228	228			
	229	229			
	230	230			
	231	231			
	232	232			
	233	233			
	234	234			
	235	235			
	236	236			
Colors	237	237			
	238	238			
	239	239			
	240	240			
	241	241			
	242	242			
	243	243			
	244	244			
	245	245			
	246 247	246 247			
	247				
	248	248 249		1	
	249	249			
	250	250			
	252	252			
	252	252			
	255	255			
	255	255			
	255	255		1	

SΡΑ	<b>N</b> RK	LEC	) FX TAB	SLE		
Sin		J	Step Wave	Sawtooth	Ramp Up	Ramp Down
5			(Square)	Wave	Wave	Ŵave
TYPE	SLOT	DMX	NAME	res subject to change wi	NOTES/ST	FDS
1116	1	Ì	Sinewave-Cross			
	1	1	(default)		In and Out fade start at t	he same time
	2	2	Sinewave-Full		In fade completes, then ou	It fade completes
E	3	3	Sawtooth-Cross		In and Out fade start at t	
ori	4	4	Sawtooth-Full		In fade completes, then ou	it fade completes
efe	5	5	Ramp Up			
Waveform	6	6	Ramp Down			
$\geq$	7	7	Steps			
	8	8				
	9	9				
	10	10				
	11	11	Starfield	Reverse, Stop, Forward	Pixels randomly go on and off	with random lengths
				· · ·	of on and off times	-
	12	12	1 Pixel	Reverse, Stop, Forward	Random 1 Pixel per step	
	13	13	2 Pixels	Reverse, Stop, Forward	Random 2 Pixel per step	
	14	14	3 Pixels	Reverse, Stop, Forward	Random 3 Pixel per step	
	15	15	4 pixels	Reverse, Stop, Forward	Random 4 Pixel per step	
	16	16	5 pixels	Reverse, Stop, Forward	Random 5 Pixel per step	
	17	17	7 pixels	Reverse, Stop, Forward	Random 7 Pixel per step	
	18	18	8 pixels	Reverse, Stop, Forward	Random 8 Pixel per step	
	19	19	Single Row	Reverse, Stop, Forward	One single row per step	
	20	20	Single Column	Reverse, Stop, Forward	Single column per step	
	21	21	Build Cells	Reverse, Stop, Forward	Add 1 cell per step	
	22	22	Pixel Ring Chase	Reverse, Stop, Forward	In every RGBW lens one Sparl Lens 1, Sparkled 1, 8, 19, 7 a 2, 2,10, 20, 9	
ID FX	23	23	Pixel Row Chase	Reverse, Stop, Forward	In every RGBW pixel one Spar Lens 1, Sparkled 1, 3+4, 8 at 2, 2, 5+6, 10	t the same time Lens
SparkLED	24	24	Pixel Ring Chase 2	Reverse, Stop, Forward	For one RGBW pixel after and SparkLeds per step, e.g. Lens Lens 2, 2, 6, 10, 5 etc	1, 1, 4, 8, 3, then
S	25	25	Center Out	Reverse, Stop, Forward	Turn on all Sparkleds in Lens the center out to the edge	•
	26	26	Fireworks	Reverse, Stop, Forward	Replicate an exploding firewo	rk rocket
	27	27	Ring	Reverse, Stop, Forward		
	28	28	Row	Reverse, Stop, Forward		
	29	29	Snake	Reverse, Stop, Forward		
	30	30				
	31	31				
	32	32				
	33	33				
	34	34	1	1	1	
	35	35			1	
	36	36	+	1		
				1		
	37	37		1	1	
	38	38	1	1	1	

			Featur	es subject to change wi FX ADJUSTMENT	thout notice
TYPE		DMX	NAME	FX ADJUSTMENT	NOTES/STEPS
	39	39			
	40	40			
	41	41			
	42	42			
	43	43			
	44	44			
	45	45			
	46	46			
	47	47	 		
	48	48			
	40	40			
	50	50			
	51	51			
	52	52			
	53	53			
	54	54			
	55	55			
	56	56			
	57	57			
	58	58			
	59	59			
	60	60			
	61	61			
×	62	62			
L L	63	63			
	64	64			
SparkLED FX	65	65			
pai	66	66			
S	67	67			
	68	68			
	69	69			
	70	70			
	71	71			
	72	72			
	73	73			
	74	74			
	75	75			
	76	76			
	77	77			
	78	78			
	79	79			
	80	80			
	81	81			
	82	82			
	83	83			
	84	84			
	85	85			
	86	86			
	87	87			
	88	88			1
	89	89			1
	90	90			
					•

			Feat	tures subject to change w	
TYPE		DMX	NAME	FX ADJUSTMENT	NOTES/STEPS
	91	91			
10	92	92			
ŝuŝ	93	93			
SparkLED Lens Combos	94	94			
႐ူရီ	95	95			
Ξg	96	96			
ΧΩ	97	97			
)al	98	98			
S	99	99			
	100	100			
	101	101 102	Single	Reverse, Stop, Forward	1, 2, 3, 4, 5, 6 1, 2, 3, 4, 5, 6, 5, 4, 3, 2
	102 103	102	Single Bounce Fill Row	Reverse, Stop, Forward Reverse, Stop, Forward	1, 1+2, 1+2+3, 1+2+3+4, 1+2+3+4+5, 1+2+3+4+5+6, 1+2+3+4+5, 1+2+3+4, 1+2+3, 1+2, 1
	104	104	2 Pixels	Reverse, Stop, Forward	Any two random pixels per step
	105	105	3 Pixels	Reverse, Stop, Forward	Any three random pixels per step
	105		4 Pixels	Reverse, Stop, Forward	Any four randiom pixels per step
	100	100	1,2,3 pixels	Reverse, Stop, Forward	Pick randomly 1, then 2, then 3 pixels
				neverse, stop, rorward	
	108	108			
Σ.	109	109			
turn on together)	110	110			
ť	111	111			
ge	112	112			
to	113	113			
Ľ	114	114			
0	115	115			
rn	116	116			
tu	117	117			
#					
S	118	118			
en	119	119			
	120	120			
he	121	121			
, t	122	122			
.=	123	123			
SparkLED in the lens #					
ćL	124	124			
ark	125	125			
ba	126	126			
	127	127			
al	127	128			
) s					
ů,	129	129			
Full Lens Patterns (all	130	130			
att	131	131			
P	132	132	1		
รเ					
le.	133	133			
1	134	134			
n	135	135			
щ	136	136		1	1
	137	137			
	138	138			
	139	139			
	140	140			
	141	141	İ	1	1
	142	142		1	
	142	142			
	144	144			
	145	145			

YPF	SLOT	DMX	NAME	stures subject to change v FX ADJUSTMENT	NOTES/STEPS
I I E	146	146			
	147	147			
	148	148			
	149	149			
	150	150			
	151		Out	disabled	1+6
	152	152	Mid	disabled	2+5
	153	153	Center	disabled	3+4
	154		Set 1	disabled	1+4
	155		Set 2	disabled	2+5
	156		Set 3	disabled	3+6
	157	157			
	158	158			
_	159	159			
er	160		Block 2-1	disabled	1+2
th	161		Block 2-2	disabled	3+4
turn on together)	162	162	Block 2-3	disabled	5+6
to	163	163			
uo	164	164			
Ľ,	165	165			
iur	166		Block 3-1	disabled	1+2+3
<del>+</del>	167		Block 3-2	disabled	4+5+6
S	168	168			
e	169	169			
e	170	170			
ţ	171	171			
<u> </u>	172	172			
Ð	173	173			
Ţ	174	174			
ar	175	175	1		
SparkLED in the lens	176	176			
(all	177	177	İ		
	178	178			
tterns	179	179			
fe	180	180			
	181	181			
S D	182	182			
Full Lens Pa	183	183			
<u>ت</u>	184	184			
In	185	185			
	186	186			
	187	187			
	188	188			
	189	189			
	191	191			
	192	192			
	193	193			
	194	194			
	195	195			
	196	196			
	197	197			
	198	198			
	199	199			
	200	200			

YPE	SLOT	DMX	NAME	tures subject to change without	NOTES/STEPS
176	201	201	Row 1	disabled	NUTES/STEPS
	201	201	Row 2	disabled	
	202	202	Row 3	disabled	
	203	203	Column 1	disabled	
	205	205	Column 2	disabled	
	206	206	Column 3	disabled	
	207	207	Column 4	disabled	
	208	208	Column 5	disabled	
	209	209	Column 6	disabled	
	210	210	Column 7	disabled	
	211	211	Column 8	disabled	
	212	212	Column 9	disabled	
	213	213	Column 10	disabled	
	214	214	Column 11	disabled	
	215	215	Column 12	disabled	
	216	216	Column 13	disabled	
	217	217	Column 14	disabled	
	218	218	Column 15	disabled	
	219	219	Column 16	disabled	
	220	220	Column 17	disabled	
	221	221	Column 18	disabled	
	222	222			
	223	223			
	224	224			
	225	225			
c	225	226			
Sparkled Pattern	220	220			
ţ					
Pa	228	228			
þ	229	229			
kle	230	230			
ar	231	231			
Sp	232	232			
	233	233	İ		
	234	234			
	235	235			
	236	236			
	230	230			
	238	238			
	239	239		<u> </u>	
	240	240	Lens 1	disabled	
	241	241	Lens 2	disabled	
	242	242	Lens 3	disabled	
	243	243	Lens 4	disabled	
	244	244	Lens 5	disabled	
	245	245	Lens 6	disabled	
	246	246			
	247	247			
	248	248			
	249	249		1	
	250	250			
	251	251			
	252	252			
	253	253			
	254	254			
	255	255			

	Wave	2	Step Wave		
	SLOT		(Square)	Sawtooth Wave res subject to change wi	Ramp Up Wave Wave Wave
		DMX		<b>FX ADJUSTMENT</b>	NOTES/STEPS
m -	1		Sinewave-Cross		
E -	1	1	(default)		In and Out fade start at the same time
<u>ا</u> ۲	2	2	Sinewave-Full		In fade completes, then out fade completes
	3	3	Sawtooth-Cross		In and Out fade start at the same time
	4	4	Sawtooth-Full		In fade completes, then out fade completes
,et	5	5	Ramp Up		
, a∖	6	6	Ramp Down		
<pre>&gt;  </pre>	7	7	Steps		
⊢	8	8			
F	9	9			4
	10	10			
	11	11	Starfield	Reverse, Stop, Forward	Pixels randomly go on and off with random lengths of on and off times
	12	12	Inverse Starfield	Reverse, Stop, Forward	Pixels randomly go on and off with random lengths of on and off times
	13	13 14	1 Pixel		Random 1 Pixel per step
F	14 15		2 Pixels 3 Pixels		Random 2 Pixel per step Random 3 Pixel per step
H	16	16	4 pixels		Random 4 Pixel per step
	17	17	5 pixels		Random 5 Pixel per step
F	18	18	7 pixels		Random 7 Pixel per step
F	19		8 pixels		Random 8 Pixel per step
F	20		Single Row		One single row per step
F	21	21	Single Column		
F	22		Mirror	Reverse, Stop, Forward	
ː ː ː	23	23	Mirror Circle	Reverse, Stop, Forward	
StrobeLineFX	24	24	Knight Rider	Reverse, Stop, Forward	
1 1	25		Marque	Reverse, Stop, Forward	1
a	26		Center Out	Reverse, Stop, Forward	
2	27		Fireworks		Replicate an exploding firework rocket
t	28		Ring	Reverse, Stop, Forward	
	29	29	Row	Reverse, Stop, Forward	
Г	30	30			
F	31	31			
F	32	32	İ		1
F	33	33			1
⊢	34	34			1
F	35	35			1
⊢	36	36			+
⊢					
⊢	37	37			
F	38	38			<u> </u>
Ļ	39	39			
	40	40			

TYPE	SLOT	DMX	NAME	ures subject to change w FX ADJUSTMENT	NOTES/STEPS
	41	41			
	42	42			
	43	43			
	44	44			
	45	45			
	46	46			
	47	47			
	48	48			
	49	49			
	50	50			
	51	51			
	52	52			
	53	53			
	54	54			
	55	55			
	56	56			
	57	57			
	58	58			
	59	59			
	60	60			
	61	61			
	62	62			
	63	63			
×	64	64			
StrobeLineFX	65	65			
.Ľ	66	66			
oel	67	67			
<u>ro</u>	68	68			
St	69	69			
	70	70			
	71	71			
	72	72			
	73	73			
	74	74			
	75	75			
	75	75			
	76	76			
	77	77			
	78	78			
	78	78			
		<u> </u>			
	80	80			1
	81	81			
	82	82			
	83	83			
	84	84			
	85	85			
	86	86			
	87	87			
	88	88			
	89	89			
	90	90			

SLOT	DMX	NAME	FX ADJUSTMENT	NOTES/STEPS
91	91	<u> </u>		
92	92			
93	93			
94	94			
95	95			
97	97			
98	98			
99	99			
100	100			
101			Reverse, Stop, Forward	
	102			Top Row chases first, then bottom row
103			Reverse, Stop, Forward	
104	104	1/4 Top/Bottom	Reverse, Stop, Forward	
105	105	1/8		
106			Reverse, Stop, Forward	
107			Reverse, Stop, Forward	
108		Fill Row		
109	109	1/4 Bounce	Reverse, Stop, Forward	
110	110	1/4 Bounce Single	Reverse, Stop, Forward	
111	111			
112	112			
113	113			
114	114			
115	115			
116				
	119			
	122			
	124			
127				
			l	
				1
			l	1
			l	
	91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115	919192929393949495959696979798989999100100101101102102103103104104105105106106107107108108109109110110111111112112113113114114115115116116117117118118119119120120121122123123124124125125126126127127128128129130130130131131132132133134134134135135136136137137138138139139140140141141142142143143	91       91         92       92         93       93         94       94         95       95         96       96         97       97         98       98         99       99         100       100         101       101         102       102         103       1/4         104       1/4         105       105         106       1/8         106       1/8         106       1/8         106       1/4         107       107         108       18         109       1/4         101       110         111       111         112       112         113       113         114       114         115       116         116       116         117       117         118       118         119       119         120       120         121       121         122       122         123       125	91       91         92       92         93       93         94       94         95       95         96       96         97       97         98       98         99       99         100       100         101       101         102       102         Single Top/Bottom       Reverse, Stop, Forward         103       103         104       104         105       1/8         Reverse, Stop, Forward         105       1/8         Reverse, Stop, Forward         106       106         107       Single Bounce         Reverse, Stop, Forward         108       108         109       1/4 Bounce         Reverse, Stop, Forward         100       1/4 Bounce         111       111         112       112         113       113         114       114         115       115         116       116         117       117         118       118         119       119

YPE	SLOT	DMX	NAME	ures subject to change w FX ADJUSTMENT	NOTES/STEPS
	146	146			
	147	147			
	148	148			
	149	149			
	150	150			
	151	151			
	152	152			
	153	153			
	154	154			
	155	155			
	146	146			
	147	147			
	148	148			
	149	149			
	150	150			
	151	151			
	152	152			
	153	153			
	154	154		İ	
	155	155			
	156	156			
	157	157			
	157	158			
	158	158			
<u> </u>	160	160			
StrobeLineFX	161	161			
ne	162	162			
Ľ.	163	163			
q	164	164			
tro	165	165			
Ņ	166	166			
	167	167			
	168	168			
	169	169			
	170	170			
	170	170			
	172			1	
	173	172 173			
	174	174			
	175	175			
	176	176			
	177	177		1	
	178	178		1	1
	179	179		1	
	180	180		1	1
	181	181		1	1
	182	182		1	1
	183	183		İ	
	184	184			
	185	185		1	
	186	186		İ	1
	187	187			
	188	188		İ	
	189	189		1	
	190	190		1	
				•	

TYPE	SLOT	DMX	NAME	tures subject to change v FX ADJUSTMENT	NOTES/STEPS
	191	191			
	192	192			
×	193	193	İ		
StrobeLineFX	194	194			
.5	195	195			
le	196	196	İ		
õ	197	197			
S	198	198			
•	199	199			
	200	200	İ		
	201	201	Row 1	disabled	
	202	202	Row 2	disabled	
	202	203	Quarter 1	disabled	
	203	204	Quarter 2	disabled	
	204	205	Quarter 3	disabled	
	205		Quarter 4	disabled	
	200	200	Column 1	disabled	
	208	208	Column 2	disabled	
	209	209	Column 3	disabled	
	210	210	Column 4	disabled	
	210	210	Column 5	disabled	
	212	212	Column 6	disabled	
	212	212	Column 7	disabled	
	213		Column 8	disabled	
L	214	214	Column 9	disabled	
te	215	215	Column 10	disabled	
Pattern	210	217	Column 11	disabled	
	217	217	Column 12	disabled	
ne	218	210	Column 13	disabled	
eli	220	219	Column 14	disabled	
Strobeline	220	220	Column 15	disabled	
ť	222	222	Column 16	disabled	
01	222	222	Lens 1	disabled	Strobe LEDs above and below the lens
	223		Lens 2	disabled	Strobe LEDs above and below the lens
	225	225	Lens 3	disabled	Strobe LEDs above and below the lens
	225		Lens 4	disabled	Strobe LEDs above and below the lens
	220		Lens 5	disabled	Strobe LEDs above and below the lens
	228	228	Lens 6	disabled	Strobe LEDs above and below the lens
	229	229			
	230	230	1		
	231	231	1	1	
	232	232	1		
	233	233	1		
	234	234	1	1	1
	235	235		1	
	236	236	1		
			1	I	

			Featu	ures subject to change wi	ithout notice
TYPE	SLOT	DMX	NAME	FX ADJUSTMENT	NOTES/STEPS
	237	237			
	238	238			
	239	239			
	240	240			
	241	241			
2	242	242			
er	243	243			
Pattern	244	244			
L L	245	245			
ne	246	246			
Strobeline	247	247			
q	248	248			
ţ,	249	249			
	250	250			
	251	251			
	252	252			
	253	253			
	254	254			
	255	255			

### REMOTE DEVICE MANAGEMENT (RDM)

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

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

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

### FIXTURE RDM INFORMATION:

RDM Code	Device ID	Device Model ID	Personality ID
0x68E	Open	1678	Open

**Please be aware that not all RDM devices support all RDM features**, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

The following parameters are accessible in RDM on this device:

Sensor Definition
Sensor Value
Device Model Description
Manufacturer Label
Device Label
DMX Personality
DMX Personality Description
Device Hours
Tilt Invert
Display Invert

## ERROR CODES

When power is applied, the unit will automatically enter a "**Reset/Test**" mode. This mode brings all the internal motors to a home position. If there is an internal problem with one or more of the motors an error code will flash in the display in the form of "**XXer**" were as XX will represent a function number. For example, when the display shows "**OEr**" it means there is some type of error with the Pan motor. If there are multiple errors during the start-up process they will all flash in the display. For example: if the fixtures has errors on **Channel 1**, **2**, and **5** all at the same time, you will see the error message "**O1Er**", "**O2Er**", and "**O5Er**" flash repeated 5 times.

If an error does occur during the initial start-up procedure the fixture will self-generate a second reset signal and try to realign all the motors and correct the errors. If the error persists after a second attempt a third attempt will be made. If after a third attempt all the errors have not been corrected the fixture will make the following determinations:

- **3 or More Errors**: The fixture cannot function properly with three or more errors therefore the fixture will place itself in a stand-by mode until subsequent repairs can be made.
- Less Than 3 Errors: The fixture has less than 3 errors; therefore, most other functions will work properly. The fixture will attempt to operate normally until the errors can be correct by a technician. The errors in question will remain flashing in the display as a reminder of internal errors.

	Error Codes subject to change without notice
ERROR CODES	DESCRIPTION
TILT Er	Movement is not located in the default position after the reset. This message will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a motor failure (defective motor or a defective motor IC drive on the main PCB). This error may also be displayed if the head/yoke was blocked during TILT Er a reset function.
Zoom Er	Movement is not located in the default position after the reset. This message will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed, or magnet is missing) or there is a motor failure (defective motor or a defective motor IC drive on the main PCB).

# 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 an authorized 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.

### FIXTURE DISASSEMBLY

The following points should be observed after performing any maintenance procedure that requires disassembly of the unit:

- After the unit has been reassembled, open the valve, and allow the light to run for approximately 2 hours to dry out any moisture that has been trapped inside the fixture. The process should continue until indicated humidity drops below 15% for the head and 30% for the base.
- Once this has been achieved, the light can be switched off, but the unit should remain connected to power so that the cooling fan can cool down the unit. Please note that allowing cool down time should ALWAYS be done after lamp operation.
- Some units may require partial disassembly in order to gain access to the valve. Please contact Elation service for information regarding the location and access procedure for the valve on your specific unit model.

# SPECIFICATIONS

### SOURCE

(6) 60W Osram RGBW LEDs
(24) 2W White SparkLED<sup>™</sup>
(128) 1W Strobe LED
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

6,000 Total Lumen Output (RGBW) CRI 80 Zoom Range 6°-45° Colortemperature SparkLED 4000K Colortemperature Strobe Line 6500K

### EFFECTS

Motorized Zoom Linear Color Temperature Presets (2700-8000K) RGBW Color Mixing and Pixel Control White SparkLED Lens Effect Dual White Strobe Lines (64 pixels per side) Color Presets and Macros Electronic Strobe and Variable Dimming Curves 16-bit Dimming

### **CONTROL / CONNECTIONS**

3 DMX Channel Modes (27/50/106 channels) Pixel controlled Wash, SparkLED and Strobe LED 210° Tilt Movement DMX Adjustable Refresh Rate (900 -25000 Hz) (6) Button Touch Panel Full Color 180° Reversible LCD Menu Display RDM Support IP65 5pin XLR DMX In/Out IP65 RJ45 Ethernet In/Out (Art-Net, sACN) IP65 Locking Power Cable In

### SIZE / WEIGHT

Length: 8.5 in (216.8mm) Width (Base): 19.8 in (504.0mm) Width (Head): 19.3 in (491.0mm) Height (head up): 13.2 in (335.8mm) Height (head 90 degree): 11.3in (288.0mm) Weight: 39.46lbs. (17.9kg)

### **ELECTRICAL / THERMAL**

AC 100-240V 50/60Hz 650W Max Power Consumption

### **APPROVALS / RATINGS**

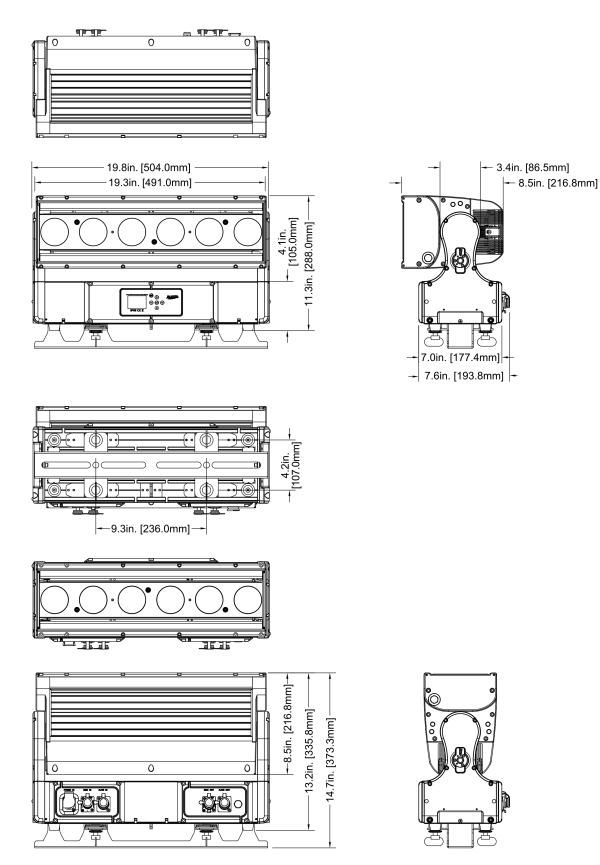
CE | cETLus | IP65



Specifications and documentation subject to change without notice.

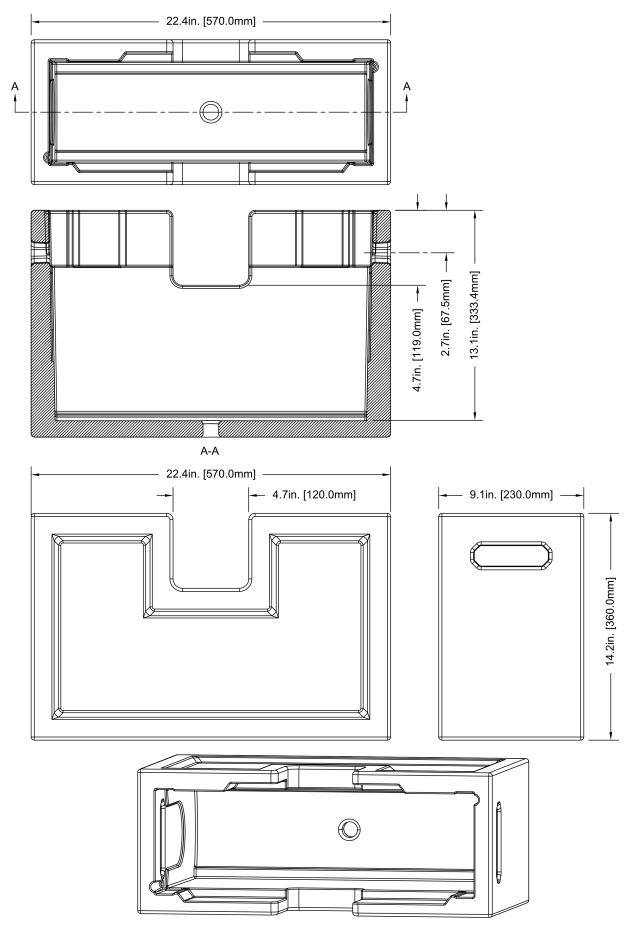
### DIMENSIONS-FIXTURE

\*Drawings not to scale. Specifications and improvements in the design of this unit and this manual are subject to change without notice.



### DIMENSIONS-FIL

\*Drawings not to scale. Specifications and improvements in the design of this unit and this manual are subject to change without notice.



### OPTIONAL ACCESSORIES

ORDER CODE	ITEM
TRIGGER CLAMP	Heavy Duty Wrap Around Hook Style Clamp
SIP126	5 ft. (1.5m) IP65 Power Link Cable
AC5PDMX5PRO	5 ft. (1.5m) 5pin PRO DMX Cable
	Additional Cable Lengths Available

### FCC STATEMENT

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

### FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be deter- mined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- •ncrease the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

