



 $\begin{array}{c} PROTEUS^{^{TM}} \\ RAYZOR\ BLADE\ L \\ user\ manual \end{array}$

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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. Document SoftwareVersion ≥ **DMX Channel Modes** Date Notes Version 07/27/2022 1.0 1.0.0 28/76/140/188 Initial Release Updated Torque Settings, N/C 09/08/2022 1.1 No Change RDM, and System Menu 10/06/2022 1.2 N/C No Change Updated Specifications Updated DMX Traits, 01/31/2023 1.3 N/C No Change Specifications Updated IP65 notice, Error 02/15/2023 1.4 N/C No Change Codes, & Specifications 08/18/2023 1.5 N/C Updated IP65 Notice No Change 10/06/2023 1.6 N/C No Change Added Shielded Cable note

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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

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

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).

Maritime/Coastal Environment Installations: A coastal environment is seaside adjacent, and caustic to electronics through exposure to atomized salt-water and humidity, whereas maritime is anywhere within 5-miles of a coastal environment.

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.

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.

LIMITED WARRANTY (USA ONLY)

- A. Elation Professional hereby warrants, to the original purchaser, Elation Professional products to be free of manufacturing defects in material and workmanship for a period of two years (730 days), and Elation Professional product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days), from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, send the product only to the Elation Professional factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional shall have no liability what so ever for loss and/or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Elation Professional concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional factory unless prior written authorization was issued to purchaser by Elation Professional; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.
- D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Elation Professional will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.
- E. Elation Professional reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.
- G. This warranty is the only written warranty applicable to Elation Professional products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

WARRANTY RETURNS

All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. Elation Professional is not responsible for 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!

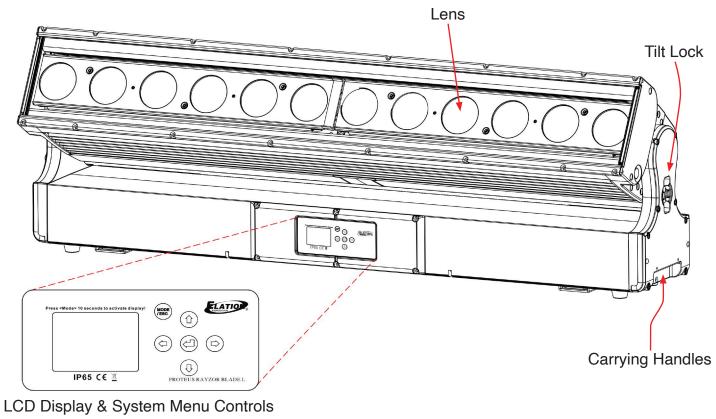


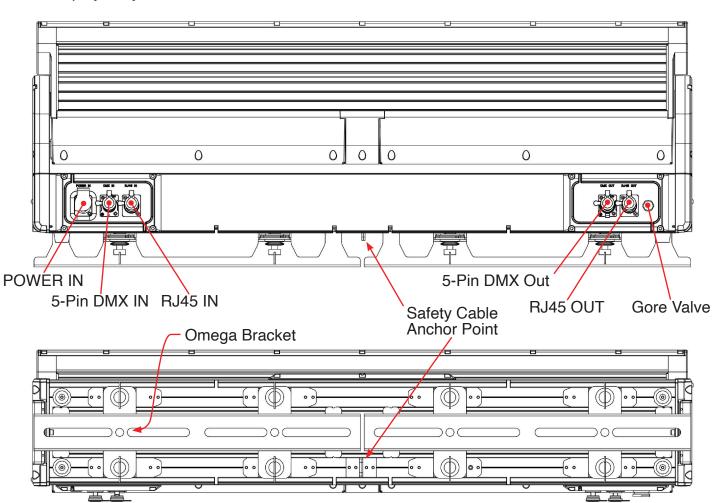
MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 1.6 FEET (0.5 METERS) MAXIMUM TEMP OF EXTERNAL SURFACE 185° F (85°C) MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE 1.6 FEET (0.5 METER)

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



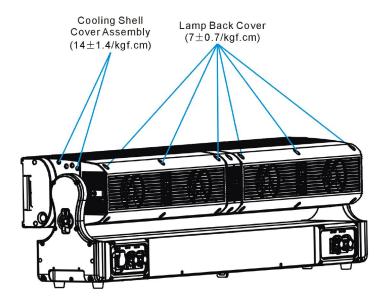


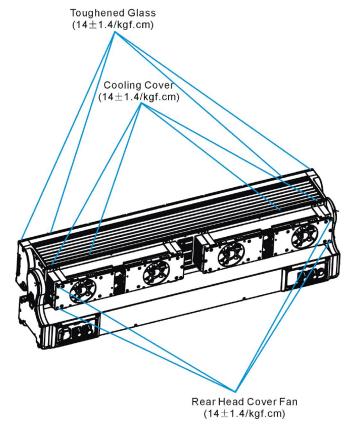
TORQUE SETTINGS FOR SCREWS

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	Toughened Glass	14±1.4
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.





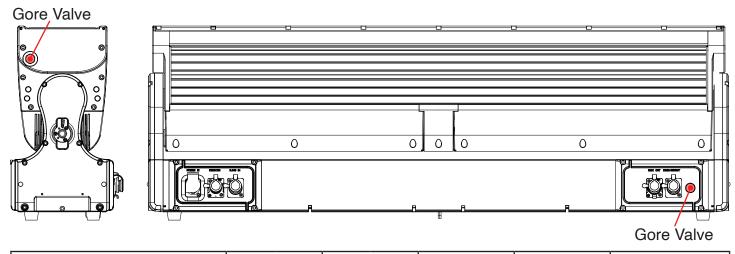
IP TEST PARAMETERS

Following any repair or maintenance procedure that requires disassembly of the fixture, use Elation's IP Tester to confirm the IP integrity of the fixture. The air valve is located on the back panel next to the display screen, as shown in the diagram below. Please contact Elation Service for information regarding the Elation IP Tester, or visit the product information page online at: https://www.elationlighting.com/ip-tester



CAUTION! THE USE OF PROTECTIVE GLOVES AND SAFETY GOGGLES IS STRONGLY RECOMMENDED WHILE PERFORMING THE IP PRESSURE TEST! AVOID PLACING YOUR FACE, EYES, HANDS, ETC IN PROXIMITY TO THE LENS OF THE FIXTURE WHILE PERFORMING THE TEST!

DE-HUMIDIFICATION: IP65 fixtures operating in high-humidity environments may experience residual fogging or condensation. Such fogging will not affect the fixture, and can be removed using the following procedure: position the unit with the air valve pointing upwards, then open the air valve and run the unit for 1-2 hours after reaching operating temperature. Then, while the fixture is still hot, re-install the air valve and allow the unit to cool down. Please note: this procedure should be performed in a dry, climate-controlled environment. Avoid additional fogging by drying the fixture completely before placing into a road case.



Elation Product	Minii Val		Maxi Val		Steady Time (Hold Time)	Tester	Remarks
	Kpa	Psi	Kpa	Psi	S		
Proteus Rayzor Blade L/S	-17	-2.5		-1.9	30	Elation IP Tester	Complete Unit
(Same settings both units)	13.00	1.9	17.00	2.5	30	Elation IP Tester	





FLAMMABLE MATERIAL WARNING

Keep fixture minimum 5.0 feet (1.5m) away from flammable materials and/or pyrotechnics.



ELECTRICAL CONNECTIONS

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



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.

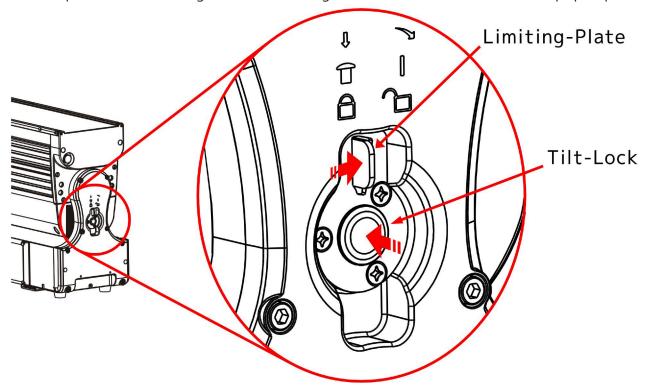
NEVER stand directly below the fixture when rigging, removing or servicing.

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.

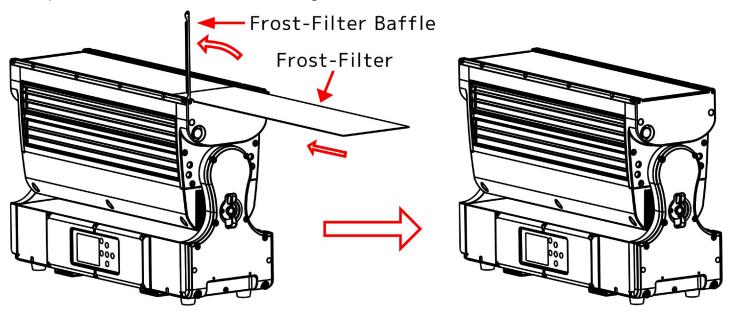
TILT-LOCK

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.



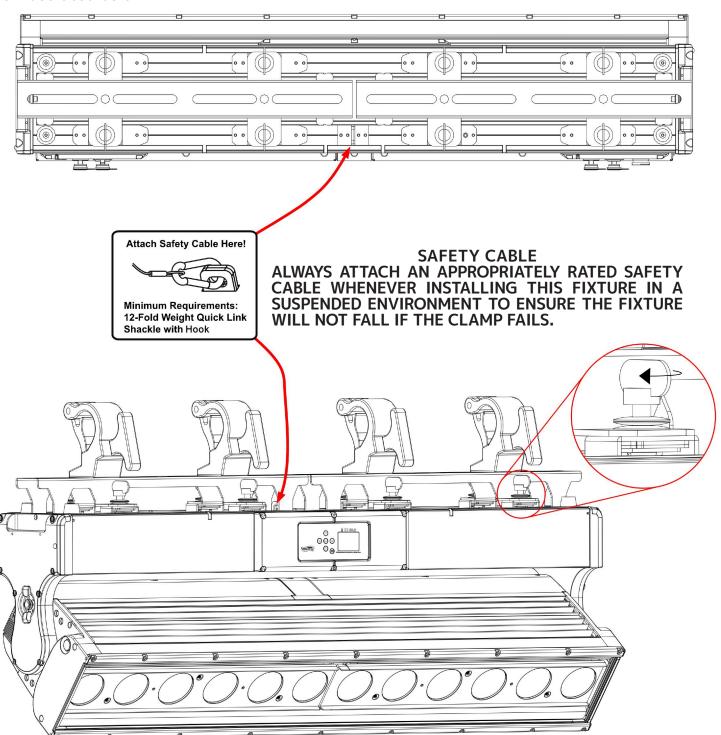
FROST-FILTER

- 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.

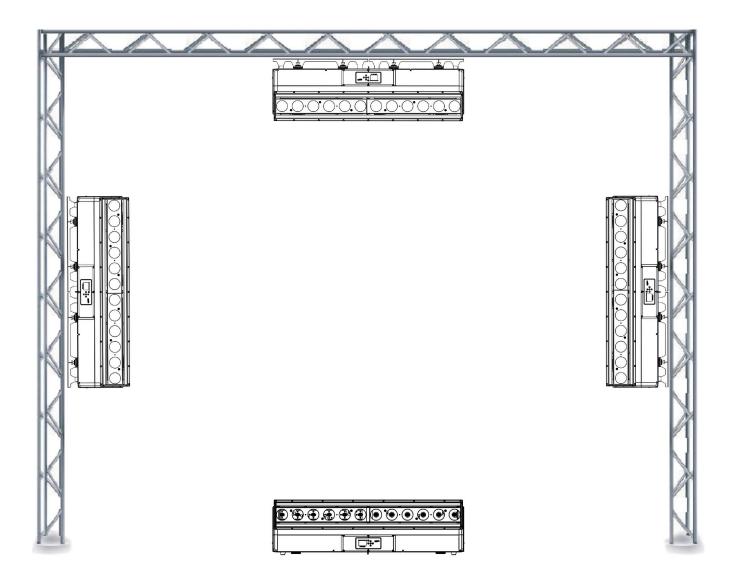


MOUNTING THE FIXTURE ON A TRUSS USING CLAMPS WITH OMEGA BRACKETS

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

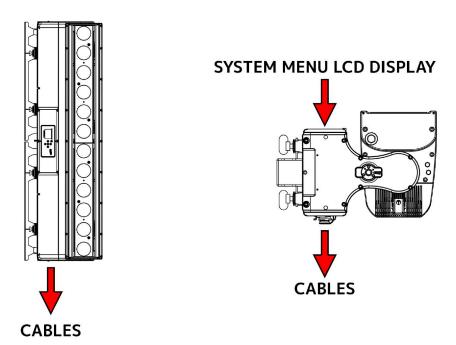
When connecting fixture to a network switch to control multiple devices, a **Gigabit Ethernet Switch** that supports **IGMP** (Internet Group Management Protocol) is required. Using a **Gigabit Ethernet Switch** that does not support **IGMP** can cause erratic behavior of all connected devices to the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



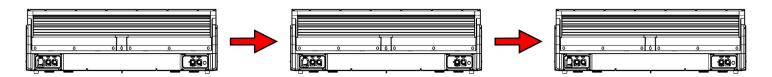
INCLUDED RJ45 DATA CABLE



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.



DO NOT USE SHIELDED CABLES TO CONNECT UNITS AS THESE CONNECTIONS CAN CREATE GROUND LOOPS WHICH MAY CORRUPT DATA TRANSFER.



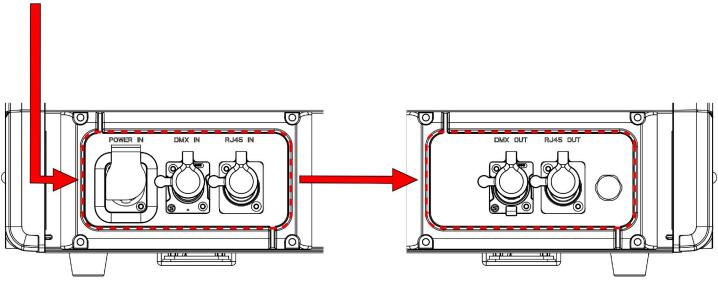
POWER AND DATA CABLES



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.



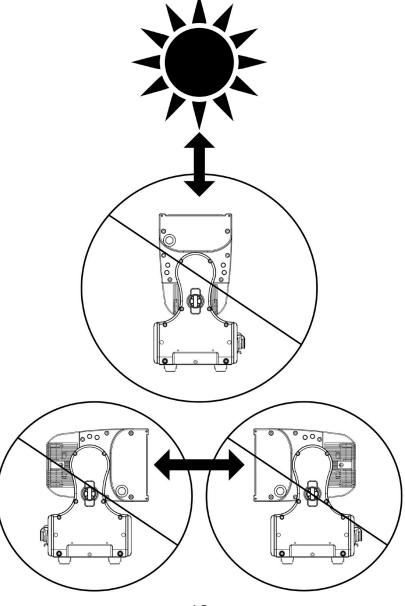
POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

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.



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.

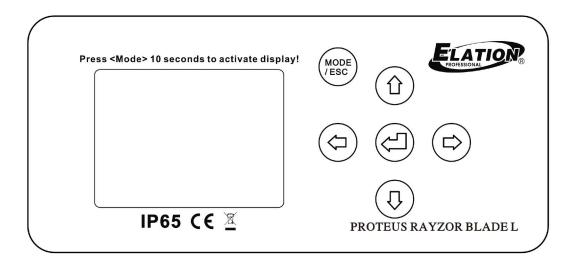
Please note that the Hibernation does not change the PT position of the fixtures, allowing the user to set the desired position and then issue the Hibernate command.

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.



		FI ATION PROT	EUS RAYZOR BLADE L	
MAIN MENU	OPTIONS / VALUE	S (Default Setting		DESCRIPTION
		A001~AXXX	3 III 3023)	DMX Address Setting
İ	Dmx Value	ALL·····		DMX Value Display
Function F	Secondary Mode		ndary2, Secondary3	Secondary Setting
	Auto Program	Primary / Alone	idai y2, secondai ys	Auto Program
	7 de o i rogi am	Current Time	XXXX(Hours)	Power On Running Time
		Total Run Time	XXXX(Hours)	Fixture Running Time
	Time Information		XXXX(Hours)	Fixture Last Times Clear
		LastRun Password		Timer Password 038
		Clear Last Run	ON/ OFF	Clear Fixture Last Time
İ		LED Temperature	l .	Temperature in LED
	Temperature Info	Head Temperature		Temperature in Base
		Base Temperature		Temperature in Fixture
		Head Humidity	XXX%	Humidity in Fixture
	Humidity Info	Base Humidity	XXX%	Humidity in Base
Information -	Ethernet IP	Ethernet IP XXX. XXX. XXX. XX XXX. XXX. XXX. XX	X	Ethernet IP
	Fan Info	HeadFan1: xxxx RF	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 sun protection position after 3 minutes
			Close	The fixture turns off the light output
			Hold	The current fixture state is held until power off or DMX is resumed
	S S		Auto	The fixture recalls the internal auto program
	Status Settings	Tilt Reverse	ON/ OFF	Tilt Reverse movement
		Zoom Speed	Slow/Fast	Zoom speed mode
			Align Center	
Personality			Align Left	
		Pixel Mapping	Align Left S	
		Fixer Mapping	Align Right	
			Align Right S	
			Fill Mode	
		Feedback	ON/OFF	Movement Feedback
		Hibernation	OFF, 01M~99M, 15M	Standby Mode
	Service Setting	Password	Password=XXX	Password (050)
	Jei vice Jettilly	Clear Err. Info	ON/ OFF	Clear Err. Info
[Fans Control	Auto / High/ Silen	t / Studio / Mute	Fans Control
		Shutoff Time	02~60m, Default = 05m	Display Shut Off Time
	Display Setting	Display Reverse	OFF/ON/AUTO	Reverse 180 degree
		Key Lock	ON/OFF	LCD Control Panel Key Lock
		· ·	ED ON NEXT PAGE	

-	OPTIONS Temperature C/F	Celsius (Default	Settings in BOLD)	DESCRIPTION	
-	Temperature C/F	Colcius			
-	remperature C/T			Temp C/F	
		Fahrenheit		Temp C/T	
	Initial Status	TILT=XXX		Initial effect position	
		DMX Only			
	Select Signal	Art-Net		Select Signal	
	_	sACN			
	Klingnet	ON/ OFF		Klingnet	
[Ethernet IP	XXX. XXX. XXX. XX	(X	Ethernet IP	
	Ether Mask IP	XXX. XXX. XXX. XX	(X	Ether Mask IP	
	Set Universe	000~32767		Setting Art-Net Universe	
.	DHCP	ON/ OFF		Automatically assign IP address	
Personality		Standard		, , ,	
		Stage			
		TV		1	
	Dimmer Mode	Architectural		Dimmer Mode	
		Theatre			
		Stage2			
		Delay 0s, 0.1s, 0.2	es,, 10s	1	
	Refresh		2500, 4000, 5000, 6000,	Refresh Frequency Rate Sett	
	DimmerCurve		verse Square, S-Curve	DimmerCurve Setting	
		ON	PassCode=XXX	Restore factory settings Password (011)	
	ResetDef	Off	•		
	Reset All	•			
Reset Function	Reset Tilt		Reset Function		
runction	Reset Others				
	Test Channel	TILT		Test function	
	Manual Control	TILT=XXX		Manual Control function	
Effect Adjust	Calibration	Calibrate Passwor TILT=XXX :	d	Password (050) Calibrate and adjust the effecto standard/right position	
User Mode	User Mode	Standard, Pixels,	Pixel Plus, Extended	Standard channel mode RGBW main LED pattern Extended channel mode	
		Auto Pro Part 1 =	Program 1 ~ 10 Program 1		
	Select Program	Auto Pro Part 2 =	Program 1 ~ 10 Program 1	Select Programs To Be Run	
		Auto Pro Part 3 =	Program 1 ~ 10 Program 1		
			ProgTest	Testing Program	
	Edit Program	Prog 1 : Prog 10	Step 01 = SCxxx	Program In Loop	
Edit Program			Step 64 = SCxxx	Save and Exit	
	Edit Scenes	Edit Scene 001 to Edit Scene 250	Tilt, - Fade Time- - Scene Time- Input By Out	Save and Automatically Retur Manual Scenes Edit	
ŀ	Rec. Controller	XX~XX	1	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).
- 3. 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.



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.

Auto Pro Auto Pro Auto Pro Auto Pro Auto Pro Auto Pro Auto Pro Auto Pro Auto Pro Auto Pro Auto Pro Auto Pro Part 1 Part 2 Part 3 Part 1 Part 2 Part 3

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:

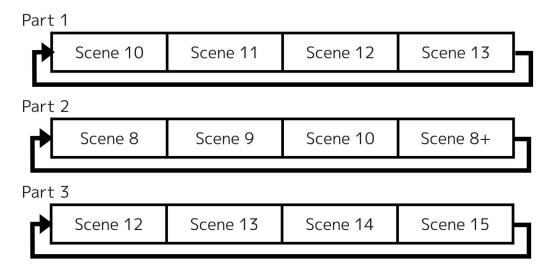
Program 2 includes scenes: 10, 11, 12, & 13

Program 4 includes scenes: 8, 9, & 10

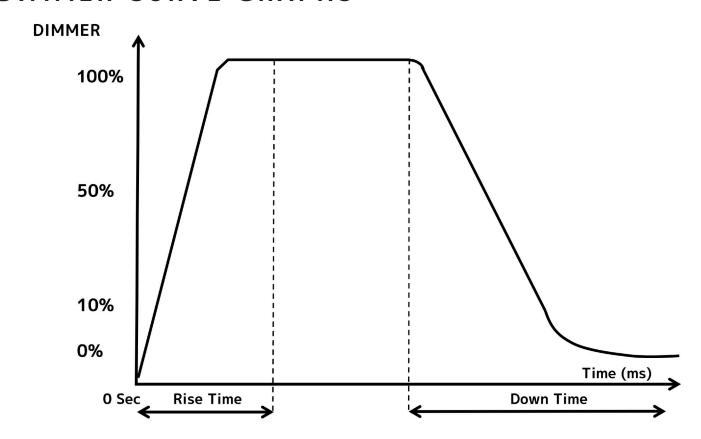
Program 6 includes scenes: 12, 13, 14, & 15

Auto Pro Part 1 is Program 2 Auto Pro Part 2 is Program 3 Auto Pro Part 3 is Program 6

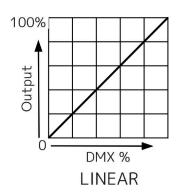
The 3 Secondary groups run the Auto Program in certain time segments.

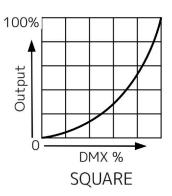


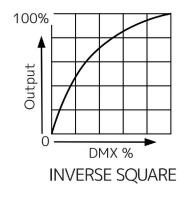
DIMMER CURVE GRAPHS

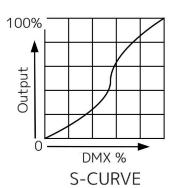


	0 sec Fa	ide Time	1 sec Fa	ade Time
Dimming Curve Ramp Effect	0 —	255	。	255
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural-	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660









PATCHING AND FX PROGRAMMING GUIDE

The Proteus Rayzor Blade L 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 12x 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 33 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 outlined 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.

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	C D' LCI L'ILM'
155	Sync Dim and Strong with Main
233	Sync Dim and Strobe with Main

The highest output strobe of the Proteus Rayzor Blade S 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

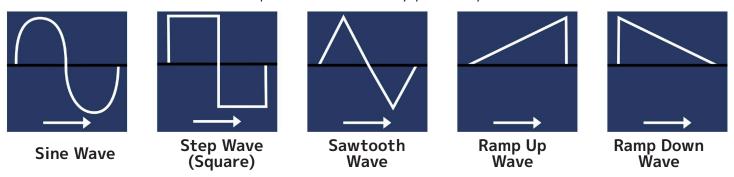
FX Concept

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.



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		The Center Element is disabled, all FX act identical as Blade S in two sections
253		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.

	MODE	/CHANN				ange without notice		
FIXTURE CONTROL PART/NAME	STANDARD		PIXEL PLUS CH140	EXTENDED 188CH	VALUE	FUNCTION	FADE STATUS	DEFAULT
	1	1	1	1	0-255	Tilt Movement	Fade	127
		1	1	2	0-233	Tilt Fine	Голо	127
	2	2	2	2	0-255	Fine Movement	Face	127
					0- 10	CTC Disabled		
	3	3	3	3	11-171	Color Temperature 2000k to 10000k in		
					172-255	100k steps (see table)		
			<u> </u>		172 233	Color Wheel		
					0-9	Open		
						Red Red Orange		
						Red Orange Light Amber		
						Yellow Amber		
						Greenish Yellow		
	İ	İ	İ		35-39	Light Yellow Green		İ
					40-44	Dark Yellow Green		
						Green		
						Teal Cyan		
						Light Blue		
						Agua		
					70-74	Dark Agua		
					75-79	Green Blue		
						Light Lavender		
					85-89 90-94	Dark Purple Medium Purple		
MAIN						Mid Rose		
					100-104	Mauve	Snap	0
					105-109	Nice Magenta	Shap	
	4	4	4	4	110-114	Warm Magenta		
						Light Red		
					120-124	Dark CTB		
						Light Green		
					135-139	Purple		
	İ	İ	İ		140-144	Lighter Purple		İ
					145-149			
					150-154 155-159			
					160-164			
					165-169			
					170-174			
					175-179			
					100.001	Color Scroll		
					180-201 202-207	Clockwise,fast→slow		
						Stop Counter-clockwise,slow→ fast		
					230-234	Open		
				Random Slots				
					235-239	Fast		
					240-244			
					245-249			
	I .		l .	l	250-255	i Open		

	MODE	<u>CHANN</u>					FARE	
FIXTURE CONTROL PART/NAM	STANDARD 28CH	PIXEL 76CH	PIXEL PLUS CH140	EXTENDED 188CH	VALUE	FUNCTION	FADE STATUS	DEFAULT
	5	5	5	5	128-159 160-191	Strobe Shutter closed Shutter open Strobe (slow → fast) Fast Close, Slow Open Fast Open, Slow Close Pulse Effects	Snap	50
						Random Strobe (slow → fast) Shutter open Dimmer		
	6	6	6	6	0-255	0 → 100%	Fade	0
	7	7	7	7	0-255	Dimmer Fine Fine Dimming Dim Modes	Fade	0
MAIN	8	8	8	8	81-100 101-120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140	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	Snap	O
	9	9	9	9		Zoom1 Zoom Wide → Narrow Overdrive Min → Max	Fade	0
		10	10	10	0-255	Zoom1 Fine Fine Zoom	Fade	0
	9	11	11	11	0-230	Zoom2 Zoom Wide → Narrow Overdrive Min → Max Follow Zoom 1	Fade	0
		12	12	12	0-255	Zoom2 Fine Fine Zoom	Fade	0
		13	13	13	0-225 226-235	Tilt Speed Max to Min speed Blackout while moving No function	Snap	0

	MODE	/CHANN		l catal es sus	jeer to end	nge without notice I		Ì
FIXTURE CONTROL PART/NAM	STANDARD		PIXEL PLUS CH140	EXTENDED 188CH	VALUE	FUNCTION	FADE STATUS	DEFAULT
MAIN	10	14	14	14	20-39 40-44 45-49 50-59 60-69 70-79 80-84 85-87 88-91 92-100	Control Idle Pixel Order Normal Pixel Order Inverse Low Noise - Mute Low Noise - Studio Fan Control - Low Fan Control - High Fan Control - Auto (default) Reset All Reset Movement Reset Zoom Idle Refresh Rate (Hz) 900 910 920 930 940 950 960 970 980 990 1000 1010 1020 1030 1040 1050 1060 1070 1080 1090 1110 1120 1130 1140 1150 1160 1170 1180 1190 1220 1230 1240 1250	Snap	0

FIXTURE CONTROL STANDARD PIXEL PRUS PRUS 188CH	Π
MAIN 10 14 14 14 14 14 14 15 15	DEFAU
MAIN 10 14 14 14 14 14 15 15 16 15 16 16 16 16	
138 1280 139 1390 140 1300 141 1310 142 1320 143 1330 144 1340 145 1350 146 1360 147 1370 148 1380 149 1390 150 1400 151 1410 152 1420 153 1430 154 1440 155 1450 156 1460 157 1470 158 1480 159 1490 160 1500 161 1500 162 4000 163 5000 164 6000 165 10000 166 15000 167 20000 168 25000 169 130 Idle 181-182 StrobeLine Pixel Align Left S-Mode 187-188 StrobeLine Pixel Align Left S-Mode 193-194 Hibernate Off 195-196 Hibernate Off 195-196 Hibernate Off 195-196 Hibernate Off 195-196 Hibernate Off 195-196 Hibernate Off 197-198 Sun Protection On 199-200 Sun Protection On 199-200 Sun Protection Off 2001-210 Dimmer Curve Linear (default)	
MAIN 10 14 14 14 14 161 2500 MAIN 10 14 14 14 15 1500 MAIN 10 14 14 15 16 1500 MAIN 10 16 16 15 1000 MAIN 10 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	
MAIN 10 14 14 14 14 14 161 2500 MAIN 10 14 14 14 1500 MAIN 10 14 14 1500 MAIN 10 14 14 1500 MAIN 10 16 1500 MAIN 10 17 18 18 18 18 18 18 18 18 18 18 18 18 18	
MAIN 10 14 14 14 14 14 14 14 1500 Snap MAIN 10 14 14 14 1500 Snap MAIN 10 14 14 14 1500 Snap MAIN 10 14 15 14 14 15 1500 Snap MAIN 10 16 1500 Snap MAIN 10 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	
MAIN 10 14 14 14 14 14 161 2500 166 1500 167 20000 168 25000 169-180 Idle 181-182 StrobeLine Pixel Align Center 183-184 StrobeLine Pixel Align Center 183-184 StrobeLine Pixel Align Left (S-Mode 187-188 StrobeLine Pixel Align Left (S-Mode 187-188 StrobeLine Pixel Align Left (S-Mode 187-188 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right S-Mode 191-192 StrobeLine Pixel Align Right S-Mode 191-193 Sun Protection On 197-198 Sun Protection On 199-200 Sun Protection Off	
MAIN 10 14 14 14 14 14 16000 10 14 14 14 1500 MAIN 10 14 14 14 14 16 1500 16 1500 16 1500 16 1500 16 1500 16 1500 16	
MAIN 10 14 14 14 14 150 MAIN 10 14 14 150 MAIN 10 14 150 MAIN 10 150 MAIN 15	
MAIN 10 14 14 14 14 14 16 1350 MAIN 10 16 17 10 16 18 18 18 18 18 18 18 18 18 18 18 18 18	
MAIN 10 14 14 14 14 14 161 2500 Snap MAIN 10 14 14 15 14 16 155 1000 166 15000 166 15000 166 15000 166 15000 166 15000 166 1500 168 25000 169-180 Idle 181-182 StrobeLine Pixel Align Left (default) 185-186 StrobeLine Pixel Align Right S-Mode 191-192 StrobeLine Pixel Align Right S-Mode 191-192 StrobeLine Fill Mode 195-196 Hibernate On 197-198 Sun Protection On 197-198 Sun Protection On 197-198 Sun Protection On 199-200 Sun Protection Off 201-2010 Dimmer Curve Linear (default)	
MAIN 10 14 14 14 14 14 15 16 15 16 16 15 16 16	
MAIN 10 14 14 14 14 161 2500 162 4000 163 5000 164 6000 165 10000 166 15000 166 15000 166 15000 166 15000 166 15000 167 20000 168 25000 169 180 181 182 StrobeLine Pixel Align Left (default) 185 188 StrobeLine Pixel Align Right 189 199 191 1	
MAIN 10 14 14 14 14 14 15 14 15 14 16 15 14 16 15 14 16 15 14 16 16 16 16 16 16 16	
MAIN 10 14 14 14 14 14 14 14 14 15 15 16 15 16 15 16 16 15 16 16 15 16 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16	
MAIN 10 14 14 14 14 161 2500 160 1500 161 2000 162 4000 163 5000 164 6000 165 10000 166 15000 167 20000 168 25000 169-180 Idle 181-182 StrobeLine Pixel Align Center 183-184 StrobeLine Pixel Align Left (default) 185-186 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 190-190 StrobeLine Pixel Align Right 190-190 StrobeLine Pixel Align Right 190-190 StrobeLine Pixel Align Right 190-190 StrobeLine Pixel Align Right 190-190 StrobeLine Pixel Align Right 190-190 StrobeLine Pixel Align Right 190-190 StrobeLine Pixel Align Right 190-190 StrobeLine Pixel Align Right	
MAIN 10 14 14 14 14 14 14 15 15 1450 150 1460 157 1470 158 1480 159 1490 160 1500 161 2500 162 4000 163 5000 164 6000 165 10000 166 15000 166 15000 167 20000 168 25000 169 180 Idle 181-182 StrobeLine Pixel Align Center 183-184 StrobeLine Pixel Align Left S-Mode 187-188 StrobeLine Pixel Align Left S-Mode 187-188 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Mode 191-192 StrobeLine Fixel Mode 191-192 StrobeLine Fixel Mode 191-192 StrobeLine Fixel Mode 191-192 StrobeLine Fixel Mode 191-192 StrobeLine Fixel Mode	
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MAIN 10 14 14 14 14 14 15 1450 156 1460 157 1470 158 1480 159 1490 160 1500 160 1500 160 1500 162 4000 163 5000 164 6000 165 10000 166 15000 166 15000 167 20000 168 25000 169-180 Idle 181-182 StrobeLine Pixel Align Center 183-184 StrobeLine Pixel Align Left (default) 185-186 StrobeLine Pixel Align Left (default) 185-186 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Fill Mode 191-192 StrobeLine Fill Mode 191-192 StrobeLine Fill Mode 191-193-194 Hibernate Off 195-196 Hibernate Off 195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
MAIN 10 14 14 14 14 14 14 14	
MAIN 10 14 14 14 14 14 14 15 15	
MAIN 10 14 14 14 14 14 14 157 1490 160 1500 161 15200 162 4000 163 5000 164 6000 165 10000 166 15000 166 15000 166 15000 167 20000 168 25000 169-180 Idle 181-182 StrobeLine Pixel Align Center 183-184 StrobeLine Pixel Align Left(default) 185-186 StrobeLine Pixel Align Left S-Mode 187-188 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 189-190 StrobeLine Fixel Align Right 195-196 Hibernate Off 195-196 195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
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MAIN 10 14 14 14 14 14 14 159 1490 160 1500 161 2500 162 4000 163 5000 164 6000 165 10000 166 15000 166 15000 167 20000 167 20000 169-180 Idle 181-182 StrobeLine Pixel Align Center 183-184 StrobeLine Pixel Align Left (default) 185-186 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 195-196 Hibernate Off 195-196 Hibernate Off 195-196 Hibernate On 197-198 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
MAIN 10 14 14 14 14 160 1500 161 2500 162 4000 163 5000 164 6000 165 10000 166 15000 166 15000 166 15000 167 20000 168 25000 169-180 Idle 181-182 StrobeLine Pixel Align Center 183-184 StrobeLine Pixel Align Left(default) 185-186 StrobeLine Pixel Align Left S-Mode 187-188 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Fill Mode 191-192 StrobeLine Fill Mode 193-194 Hibernate Off 195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
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164 6000 165 10000 166 15000 167 20000 168 25000 169-180 Idle 181-182 StrobeLine Pixel Align Center 183-184 StrobeLine Pixel Align Left(default) 185-186 StrobeLine Pixel Align Left S-Mode 187-188 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right S-Mode 191-192 StrobeLine Fill Mode 191-194 Hibernate Off 195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
165 10000 166 15000 167 20000 168 25000 169-180 Idle 181-182 StrobeLine Pixel Align Center 183-184 StrobeLine Pixel Align Left(default) 185-186 StrobeLine Pixel Align Left S-Mode 187-188 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right S-Mode 191-192 StrobeLine Fill Mode 193-194 Hibernate Off 195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	1
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181-182 StrobeLine Pixel Align Center 183-184 StrobeLine Pixel Align Left(default) 185-186 StrobeLine Pixel Align Left S-Mode 187-188 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right S-Mode 191-192 StrobeLine Fill Mode 193-194 Hibernate Off 195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
183-184 StrobeLine Pixel Align Left(default) 185-186 StrobeLine Pixel Align Left S-Mode 187-188 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right S-Mode 191-192 StrobeLine Fill Mode 193-194 Hibernate Off 195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
185-186 StrobeLine Pixel Align Left S-Mode 187-188 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right S-Mode 191-192 StrobeLine Fill Mode 193-194 Hibernate Off 195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
187-188 StrobeLine Pixel Align Right 189-190 StrobeLine Pixel Align Right S-Mode 191-192 StrobeLine Fill Mode 193-194 Hibernate Off 195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
189-190 StrobeLine Pixel Align Right S-Mode 191-192 StrobeLine Fill Mode 193-194 Hibernate Off 195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
191-192 StrobeLine Fill Mode 193-194 Hibernate Off 195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
193-194 Hibernate Off 195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
195-196 Hibernate On 197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
197-198 Sun Protection On 199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
199-200 Sun Protection Off 201-210 Dimmer Curve Linear (default)	
201-210 Dimmer Curve Linear (default)	
I I I I I I I I I I I I I I I I I I I	
211-220 Dimmer Curve Square 221-230 Dimmer Curve Inverse Square	
221-250 Dimmer Curve inverse Square 231-240 Dimmer Curve S-Curve	1
251-240 Diffiller Curve 5-Curve 241-249 Idle	
250-251 Display off	
250-251 Display of 252-253 Display on	1
252-255 Display on	

Features subject to change without notice									
	MODE	/CHANN							
FIXTURE CONTROL PART/NAM	STANDARD 28CH	PIXEL 76CH	PIXEL PLUS CH140	EXTENDED 188CH	VALUE	FUNCTION	FADE STATUS	DEFAULT	
	11	15	15	15		RGBW FX (see table)	Snap	0	
		16	16	16		FX Selection 1-255 RGBW FX Speed		160	
	4.2					Rev Fast → Slow	Fade		
MAIN	12				127-128	Stop			
						Slow → Fast			
		17	17	17		FX Offset	Snap		
	13					Idle			
						Fixture Offset 10 Degree			
						Fixture Offset 20 Degree Fixture Offset…			
						Fixture Offset 350 Degree			
						Synchronized			
						No Function			
					101-120	Random Fixture Offset			
					121-140	Random Pixel Order			
					141-255	Random Steps			

DMX TRAITS: RGBW PIXELS

				eatures sub	ect to change without notice				
	MODE	/CHANN	EL						
FIXTURE CONTROL PART/NAM	STANDARD 28CH	PIXEL 76CH	PIXEL PLUS CH140	EXTENDED 188CH	VALUE	FUNCTION	FADE STATUS	DEFAULT	
	14	18	18	18	0-255	Red 0 → 100%	Fade	255	
MAIN or	15	19	19	19	0-255	Green 0 → 100%	Fade	255	
Pixel 1	16	20	20	20	0-255	Blue 0 → 100%	Fade	255	
	17	21	21	21	0-255	White 0 → 100%	Fade	255	
		22	22	22	0-255	Red 2 0 → 100%	Fade	255	
		23	23	23	0-255	Green 2 0 → 100%	Fade	255	
Pixel 2		24	24	24	0-255	Blue 2 0 → 100%	Fade	255	
		25	25	25	0-255	White 2 0 → 100%	Fade	255	
		26	26	26	0-255	Red 3 0 → 100%	Fade	255	
		27	27	27	0-255	Green 3 0 → 100%	Fade	255	
Pixel 3		28	28	28	0-255	Blue 3 0 → 100%	Fade	255	
		29	29	29	0-255	White 3 0 → 100%	Fade	255	
		30	30	30	0-255	Red 4 0 → 100%	Fade	255	
		31	31	31	0-255	Green 4 0 → 100%	Fade	255	
Pixel 4		32	32	32	0-255	Blue 4 0 → 100%	Fade	255	
		33	33	33	0-255	White 4 0 → 100%	Fade	255	
		34	34	34	0-255	Red 5 0 → 100%	Fade	255	
Direct E		35	35	35	0-255	Green 5 0 → 100%	Fade	255	
Pixel 5		36	36	36	0-255	Blue 5 0 → 100%	Fade	255	
		37	37	37	0-255	White 5 0 → 100%	Fade	255	
Pixel 6		38	38	38	0-255	Red 6 0 → 100%	Fade	255	
		39	39	39	0-255	Green 6 0 → 100%	Fade	255	
rixei o		40	40	40	0-255	Blue 6 0 → 100%	Fade	255	
		41	41	41	0-255	White 6 O → 100%	Fade	255	

DMX TRAITS: RGBW PIXELS

				eatures sub	ect to cha	nge without notice		
FIVTURE		/CHANN					FADE	
FIXTURE CONTROL PART/NAM	STANDARD 28CH	PIXEL 76CH	PIXEL PLUS CH140	EXTENDED 188CH	VALUE	FUNCTION	STATUS	DEFAULT
		42	42	42	0-255	Red 7 0 → 100%	Fade	255
		43	43	43	0-255	Green 7 0 → 100%	Fade	255
Pixel 7		44	44	44	0-255	Blue 7 0 → 100%	Fade	255
		45	45	45		White 7	Fade	255
		46	46	46	0-255	0 → 100% Red 8	Fade	255
		40	70	40	0-255	0 → 100%	raue	233
Pixel 8		47	47	47	0-255	Green 8	Fade	255
Pixel o		48	48	48	0-255	Blue 8 0 → 100%	Fade	255
		49	49	49	0-255	White 8 0 → 100%	Fade	255
		50	50	50	0-255	Red 9 0 → 100%	Fade	255
		51	51	51		Green 9	Fade	255
Pixel 9		52	52	52	0-255	0 → 100% Blue 9	Fade	255
		52	52	52	0-255	0 → 100% White 9	raue	255
		53	53	53	0-255	0 → 100%	Fade	255
		54	54	54	0-255	Red 10 0 → 100%	Fade	255
		55	55	55	0-255	Green 10 0 → 100%	Fade	255
Pixel 10		56	56	56	0-255	Blue 10 0 → 100%	Fade	255
		57	57	57		White 10	Fade	255
		58	58	58	0-255	0 → 100% Red 11	Fade	255
		59	59	59	0-255	0 → 100% Green 11	Fade	255
Pixel 11		60	60	60	0-255	0 → 100% Blue 11	Fade	255
		61	61	61	0-255	0 → 100% White 11	Fade	255
					0-255	0 → 100% Red 12	-	
		62	62	62	0-255	0 → 100% Green 12	Fade	255
Pixel 12		63	63	63	0-255	0 → 100% Blue 12	Fade	255
		64	64	64	0-255	0 → 100%	Fade	255
		65	65	65	0-255	White 12 0 → 100%	Fade	255

DMX TRAITS: STROBELINE

	MODE	/CHANN		- cacares sas		nge without notice		
FIXTURE CONTROL PART/NAM	STANDARD 28CH	PIXEL 76CH	PIXEL PLUS CH140	EXTENDED 188CH	VALUE	FUNCTION	FADE STATUS	DEFAULT
	18	66	66	66	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) Sync Dim and Strobe with Main	Snap	50
	19	67	67	67	0-255	Dimmer 0 → 100%	Fade	0
	20	68	68	68	0-255	Dimmer Fine Fine Dimming	Fade	0
StrobeLine	21	69	69	69	0-255	Duration 7-650ms	Fade	0
	22	70	70	70	0-249 250 251 252 253 254 255	StrobeLine FX (see table) FX Selection 1-249 Pixel Alignment Full Full Sync Split Left Right Idle	Snap	0
	23	71	71	71	0–126 127–128	StrobeLine FX Speed Rev Fast → Slow Stop Slow → Fast	Fade	160
Strobe 1			72	72	0-255	Dimmer 1 0 → 100%	Fade	255
Strobe 2			73	73	0-255	Dimmer 2 0 → 100%	Fade	255
Strobe 3			74	74		Dimmer 3 0 → 100%	Fade	255
Strobe 4			75	75		Dimmer 4 0 → 100%	Fade	255
Strobe 5			76	76		Dimmer 5 0 → 100%	Fade	255
Strobe 6			77	77	ĺ	Dimmer 6 0 → 100%	Fade	255
Strobe 7			78	78	0-255	Dimmer 7 0 → 100%	Fade	255
Strobe 8			79	79		Dimmer 8 0 → 100%	Fade	255
Strobe 9			80	80		Dimmer 9 0 → 100%	Fade	255
Strobe 10			81	81		Dimmer 10 0 → 100%	Fade	255
Strobe 11			82	82		Dimmer 11	Fade	255
Strobe 12			83	83		0 → 100% Dimmer 12	Fade	255
Strobe 13			84	84		0 → 100% Dimmer 13 0 → 100%	Fade	255
Strobe 14			85	85		Dimmer 14 0 → 100%	Fade	255
Strobe 15			86	86		Dimmer 15 0 → 100%	Fade	255
Strobe 64			135	135		 Dimmer 64 0 → 100%	Fade	255

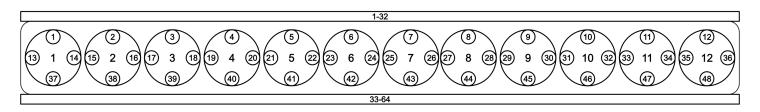
DMX TRAITS: SPARKLED

	MODE	/CLIANINI		reatures sub	ject to cha	ange without notice	<u> </u>	
FIXTURE		/CHANN	EL PIXEL				FADE	
CONTROL	STANDARD 28CH	PIXEL 76CH	PLUS	EXTENDED 188CH	VALUE	FUNCTION	STATUS	DEFAULT
PART/NAM	20СП	76СП	CH140	Тоосп				
					0-31	Strobe Shutter closed	4	
					32-63	Shutter closed Shutter open	1	
					64-95	Strobe (slow → fast) 0.289-16.67 Hz	†	
	24	72	136	136	96-127	Fast Close, Slow Open	Snap	50
	24	/ 2	130	130	128-159	Fast Open, Slow Close	Jilap	50
						Pulse Effects Random Strobe ALL (slow → fast)	4	
					224-254	Random Stobe Pixels (slow → fast)	1	
					255	Idle	1	
SparkLED	25	73	137	137		Dimmer	Fade	0
	23	/ 3	137	137	0-255	0 → 100%	rade	<u> </u>
	26	74	138	138	0-255	Dimmer Fine Fine Dimming	Fade	0
		<u> </u>			0-255	SparkLED FX (see table)	1	
	27	75	139	139	0-255	FX Selection 1-255	Snap	0
					0 200	SparkLED FX Speed		
	28	76	140	140		Rev Fast → Slow	Fade	160
	20	'0	140	140	127-128	Stop	Taue	100
					129-255	Slow → Fast		
LED 1				141	0-255	Dimmer 1 0 → 100%	Fade	255
		<u> </u>			0-255	Dimmer 2	1	<u> </u>
LED 2				142	0-255	0 → 100%	Fade	255
LED 3				1.17		Dimmer 3	Fada	255
LEU 3				143	0-255	0 → 100%	Fade	255
LED 4				144		Dimmer 4	Fade	255
					0-255	0 → 100%	1 446	
LED 5				145	0.255	Dimmer 5 0 → 100%	Fade	255
		<u> </u>			0-255	Dimmer 6		
LED 6				146	0-255	0 → 100%	Fade	255
LED 7				147		Dimmer 7	Fade	255
LLU /				147	0-255	0 → 100%	Taue	233
LED 8				148	0.255	Dimmer 8	Fade	255
					0-255	0 → 100% Dimmer 9	 	
LED 9				149	0-255	0 → 100%	Fade	255
15040				450	0 200	Dimmer 10	Fada	255
LED 10				150	0-255	0 → 100%	Fade	255
LED 11				151		Dimmer 11	Fade	255
					0-255	0 → 100%	1	
LED 12				152	0-255	Dimmer 12 0 → 100%	Fade	255
. = 5 . =		 		457	0-255	Dimmer 13	 	255
LED 13				153	0-255	0 → 100%	Fade	255
LED 14				154		Dimmer 14	Fade	255
LLU 14				1 34	0-255	<u>0</u> → 100%	1 aue	233
LED 15				155	0.255	Dimmer 15	Fade	255
			l		0-255	0 → 100%	I	
155.40				460		Dimmer 48	Γ.	255
LED 48				188	0-255	0 → 100%	Fade	255

DMX TRAITS: COLOR TEMPERATURE

Color Temperature	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	21	5200	75	7900	129
2550	22	5250	76	7950	130
2600	23	5300	77	8000	131
2650	24	5350	78	8050	132
2700	25	5400		8100	133
2750	26	5450	80	8150	134
2800	27	5500	81	8200	135
2850	28	5550	82	8250	136
2900	29	5600	83	8300	137
2950	30	5650	84	8350	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

PIXEL LAYOUTS



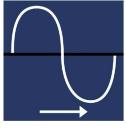
SparkLEDsRow 1: 1-12
Row 2: 13-36

StrobeLine Row 1: 1-32 Row 2: 33-64

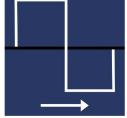
Row 3: 37-48

											Sp	arkL	ED	s										
п	#	LEDs	#	LEDs	#	LEDs	#	LEDs	#	LEDs	#	LEDs	#	LEDs	#	LEDs	#	LEDs	#	LEDs	#	LEDs	#	LEDs
=	1	1	4	15	7	17	10	19	13	21	16	23	19	25	22	27	25	29	28	31	31	33	34	35
1 5	2	1+37	5	2+38	8	3+39	11	4+40	14	5+41	17	6+42	20	7+43	23	8+44	26	9+45	29	10+46	32	11+47	35	12+48
Ü	3	14	6	16	9	18	12	20	15	22	18	24	21	26	24	28	27	30	30	32	33	34	36	36
S		1		2		3		4		5		6		7		8		9		10		11		12
Lense	(1+ 3+14+ 37	(2+ 5+16+ 38	(1	3+ 7+18+ 39	(19	4+ 9+20+ 40	(2	5+ 1+22+ 41	(2)	6+ 3+24+ 42	(2)	7+ 5+26+ 43	(2	8+ 7+28+ 44	(29	9+ 9+30+ 45	(3,	10+ 1+32+ 46	(3:	11+ 3+34+ 47	(3	12+ 5+36+ 48

	Strobelines															
#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LEDs	1+33	2+34	3+35	4+36	5+37	6+38	7+39	8+40	9+41	10+42	11+43	12+44	13+45	14+46	15+47	16+48
	Pixel Order Normal Pixel Order Inverse															
#	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
LEDs	17+49	18+50	19+51	20+52	21+53	22+54	23+55	24+56	25+57	26+58	27+59	28+60	29+61	30+62	31+63	32+64
	Pixel Order Normal Pixel Order Inverse															



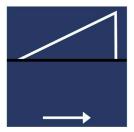




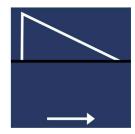
Step Wave (Square)



Sawtooth Wave



Ramp Up Wave



Ramp Down Wave

			Featu	res subject to change wi	thout notice
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
efe	5	5	Ramp Up		
/av	6	6	Ramp Down		
>	7	7	Steps		
	8	8			
	9	9			
	10	10			
	11	11	Single	Reverse, Stop, Forward	1,2,3,4,5,6,7,8,9,10,11,12
	12	12	Single Bounce	Reverse, Stop, Forward	1,2,3,4,5,6,7,8,9,10,11,12,11,10,9,8,7,6,5,4,3,2
	13	13	2 Pixels	Reverse, Stop, Forward	Any two random pixels per step
	14	14	3 Pixels	Reverse, Stop, Forward	Any 3 random pixels per step
	15	15	4 Pixels	Reverse, Stop, Forward	Any 4 random pixels per step
	16	16	5 Pixels	Reverse, Stop, Forward	Any 5 random pixels per step
	17	17	6 Pixels	Reverse, Stop, Forward	Any 6 random pixels per step
	18	18	1,2,3,4 pixels	Reverse, Stop, Forward	Pick randomly 1, then 2, then 3, then 4 pixels
	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.
<u>n</u>	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.

Ε	SLOT	DMX	NAME	ures subject to change wi	NOTES/STEPS
\dashv	29	29			
İ	30	30			
Ì	31	31			
Ì	32	32			
İ	33	33			
İ	34	34		1	
İ	35	35			
l	36	36			
Ì	37	37			
İ	38	38		<u> </u>	
Ì	39	39		1	
ł	40	40		1	
Ì	41	41			
ŀ	42	42			
ŀ	43	43			
ŀ	44	44			
ŀ	45	45			
ł	46	46			
ŀ	47	47		+	1
ŀ	48	48		+	
ł	49	49		1	1
ŀ	50	50		+	1
ŀ	51	51		1	1
ŀ	52	52		+	1
ł	53	53		+	1
ł	54	54		1	1
ŀ	55	55		+	1
ŀ	56	56			
ł	57	57		+	1
ŀ				+	
ŀ	58	58			
-	59	59			
ļ	60	60			
ļ	61	61			
	62	62			
	63	63			
Ī	64	64			
t	65	65			İ
ł	66	66			
-	67	67		1	
ŀ	68	68		1	
-	69	69			
-	70	70			
ŀ	70	70			
ŀ	71	72			
ŀ	73	73			
-	74	74			
-	75	75			
1	73	12			<u> </u>

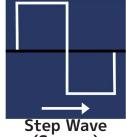
TYPE	SLOT	DMX	NAME	res subject to change wi	NOTES/STEPS
	76	76			
	77	77			
	78	78			
	79	79			
	80	80			
	81	81			
	85	85			
	86	86			
	87	87			
Intensity	88	88			
sus	89	89			
nte	90	90			
_	91	91			
	92	92			
	93	93			
	94	94			
	95	95			
	96 97	96	1		
	97	97 98			
	99	99			
	100	100			1
	101	101	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	Green White Cells	Reverse, Stop, Forward	Every Cell Randomly picks White or Green on every Step
	106	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
Colors	108	108	Red Blue Cells	Reverse, Stop, Forward	Every Cell Randomly picks Red or Blue on every Step
ŭ	109	109	Blue Green Cells	Reverse, Stop, Forward	Every Cell Randomly picks Blue or Green on every Step
	110	110	Random White Cell	Reverse, Stop, Forward	RGBW @ Full randomly is set to one cell at a time over the currently mixed color
	111	111	White Flash	Reverse, Stop, Forward	RGBW @ Full flashes once over the current mixed color on all Cells
	112	112	Red Flash	Reverse, Stop, Forward	Red @ Full flashes once over the current mixed color on all Cells
	113	113	Green Flash	Reverse, Stop, Forward	Green @ Full flashes once over the current mixed color on 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

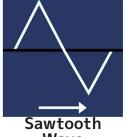
TYPE	SLOT	DMX	NAME	es subject to change w FX ADJUSTMENT	NOTES/STEPS
_	117	117			
	118	118			
	119	119			
	120	120			
	121	121			
	123	123			
	124	124			
	125	125			
	126	126			
	127	127			
	128	128			
	129	129			
	130 131	130 131			
	132	132			
	133	133			
	134	134			
	135	135			
	136	136			
	137 138	137 138			
	139	139			
	140	140			
	141	141			
	142	142			
	143	143			
rs	144	144			
Colors	145 146	145 146			+
Ŭ	147	147			
	148	148			
	149	149			
	150	150			
	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			
	1/0	1/0			

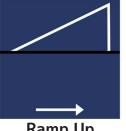
YPE	SLOT	DMX	NAME	ures subject to change wi	NOTES/STEPS
11.	171	171	NAPIL	TX ADSOSTPILIT	NOTES/STEFS
	172	172			
	173	173			
	174				<u> </u>
		174			
	175	175			
	176	176			
	177	177			
	178	178			
	179	179			
	180	180			
	181	181			
	182	182			
	183	183			
	184	184			
	185	185			
	186	186			
	187	187			
	188	188			
	189	189			
	191	191			
	192	192			
	193	193			
S	194	194			
or	195	195			
Colors	196	196			
	197	197			
	198	198			
	199	199			
	200	200			
	201	201			
	202	202			
	203	203			
	204	204			
	205	205			
	206	206			
	207	207			
	208	208			
	209 210	210			+
	210	210			
	211	211			+
	213	213			1
	213	214			+
	214	214			+
	216	216			+
	217	217			+
	217	217			+
	218	218			+
	220	220			1
	₁ 220	_		1	1

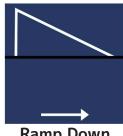
			Featı	ıres subject to change w	ithout notice
TYPE	SLOT	DMX	NAME	FX ADJUSTMENT	NOTES/STEPS
	221	221			
	222	222		İ	
	223	223		1	
	224	224		1	
	225	225		†	
	226	226		1	
	227	227		1	
	228	228		+	
	229	229			
	230	230			
	231	231		1	
	232	232		1	
	233	233		i	
	234	234			
	235	235		İ	
	236	236		İ	
Colors	237	237		ĺ	
90	238	238			
	239	239			
	240	240			
	241	241			
	242	242			
	243	243			
	244	244			
	245	245			
	246	246			
	247	247			
	248	248			
	249	249			
	250	250			
	251	251			
	252 253	252 253			<u> </u>
	254 255	254 255			
	200	200			











Sine V	Vave
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Step Wave (Square)

Sawtooth Wave

Ramp Up Wave

Ramp Down Wave

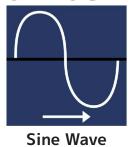
			Featur	res subject to change wi	thout notice
TYPE	SLOT	DMX	NAME	FX ADJUSTMENT	NOTES/STEPS
	1	1	Sinewave-Cross (default)		In and Out fade start at the same time
	2	2	Sinewave-Full		In fade completes, then out fade completes
E	3	3	Sawtooth-Cross		In and Out fade start at the same time
Or!	4	4	Sawtooth-Full		In fade completes, then out fade completes
ef	5	5	Ramp Up		
Waveform	6	6	Ramp Down		
>	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	3 Column	Reverse, Stop, Forward	Three columns per step
	22	22	Pixel Ring Chase	Reverse, Stop, Forward	In every RGBW lens one Sparkled at a time. E.g. Lens 1, Sparkled 1,8,19,7 at the same time Lens 2, 2,10,20,9
FX	23	23	Pixel Row Chase	Reverse, Stop, Forward	In every RGBW pixel one Sparkled at a time. E.g. Lens 1, Sparkled 1, 3+4, 8 at the same time Lens 2, 2, 5+6, 10
SparkLED	24	24	Pixel Ring Chase 2	Reverse, Stop, Forward	For one RGBW pixel after another turn on one SparkLeds per step, e.g. Lens 1, 1,4,8,3, then Lens 2, 2,6,10,5 etc
park	25	25	Center Out	Reverse, Stop, Forward	Turn on all Sparkleds in Lens 3+4, then step from the center out to the edge
S	26	26	Fireworks	Reverse, Stop, Forward	Replicate an exploding firework 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			
	35	35			
	36	36			
	37	37			
	38	38			
					1

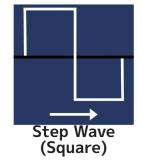
ГҮРЕ	SLOT	DMX	NAME	ures subject to change w FX ADJUSTMENT	NOTES/STEPS
	39	39			
	40	40			
	41	41			
	42	42		1	
	43	43			
	44	44			
	45	45		1	
	46	46		1	
	47	47		†	
	48	48		1	
	49	49		†	
	50	50		†	
	51	51		†	
	52	52			
	53	53			
	54	54			
	55	55			
	56	56			
	57	57		+	
	58	58		+	+
	59	59		+	1
	60	60		+	+
	61	61		+	+
	62	62		+	+
SparkLED FX	63	63		+	+
ΞD	64	64		+	+
Ā	65	65		+	+
ar	66	66		+	+
Sp	67	67		+	+
	68	68		+	+
	69	69		+	1
	70	70			
	71	71			
	72	72		+	+
	73	73		+	+
	74	74		+	1
	75	75		+	+
	76	76			1
	77	77			1
	78	78			1
	79	79		1	1
	80	80			1
	81	81		1	
	82	82			
	83	83			
	84	84		1	
	85	85			
	86	86		1	
	87	87		1	
	88	88		+	+
	89	89		+	
					+
	90	90		1	

			Featu	res subject to change wi	thout notice
TYPE	SLOT	DMX	NAME	FX ADJUSTMENT	NOTES/STEPS
	91	91	IVALIL	TA ADSOSTITIENT	NOTES/STELS
	92	92			
3	93	93		+	
ē	93	93		+	
SparkLED Lens Combos	95	95		<u> </u>	
필운	96	96		+	
ĀĢ			<u> </u>		
a	97	97	 		
Sp	98	98			
	99	99		ļ	
	100	100			
	101		Single		1,2,3,4,5,6,7,8,9,10,11,12
	102	102	Single Bounce	Reverse, Stop, Forward	1,2,3,4,5,6,7,8,9,10,11,12,11,10,9,8,7,6,5,4,3,2
	103	103	Fill Row	Reverse, Stop, Forward	1, 1+2, 1+2+3, 1+2+3+4, ···, 1+2+3+4+5+6+7+8+9+10+11+12, 1+2+3+4+5+6+7+8+9+10+11, ···, 1+2+3+4, 1+2+3, 1+2, 1
	104	104	2 Pixels	Reverse, Stop, Forward	Any two random pixels per step
	105		3 Pixels	Reverse, Stop, Forward	Any three random pixels per step
	106			<u>, </u>	Any four randiom pixels per step
	106		4 Pixels	Reverse, Stop, Forward	
			1,2,3 pixels	Reverse, Stop, Forward	Pick randomly 1, then 2, then 3 pixels
	108	108		 	<u> </u>
$\overline{\mathcal{L}}$	109	109			
turn on together)	110	110		1	1
ŧ	111	111		ļ	
ğ	112	112			
ţ	113	113			
n	114	114			
_	115	115			
'n	116	116			
	117	117			
#	118	118			
Ü	119	119			
9	120	120			
þe	121	121			
ָר	122	122			
.=	123	123		†	
	124	124	 		
Ź					
a L	125	125			
ğ	126	126			
=	127	127			
(a	128	128			
3	129	129		1	
٦L	130	130		 	
Full Lens Patterns (all SparkLED in the lens				 	
Jai	131	131		 	
S	132	132		ļ	
en	133	133			
ت	134	134			
ᆿ	135	135			
ш	136	136			
	137	137		1	
			<u> </u>	1	<u> </u>
	138	138		ļ	
	139	139			
	140	140			
	141	141			
	142	142			
	143	143			
	144	144			
	145	145			
				•	

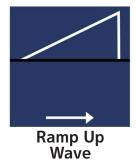
				DLL tures subject to change w	vithout notice
TYPE	SLOT	DMX	NAME	FX ADJUSTMENT	NOTES/STEPS
	146	146			
	147	147			
	148	148			
	149	149			
	150 151	150 151	Out	disabled	1+2+11+12
	152		Mid	disabled	3+4+9+10
	153	153	Center	disabled	5+6+7+8
	154	154	Set 1	disabled	1+7
	155	155	Set 2	disabled	2+8
	156	156	Set 3	disabled	3+9
	157	157	Set 4	disabled	4+10
	158	158	Set 5	disabled	5+11
	159	159	Set 6	disabled	6+12
	160		Block 2-1	disabled	1+2
er)	161		Block 2-2	disabled	3+4
th	162		Block 2-3	disabled	5+6
turn on together)	163 164		Block 2-4 Block 2-5	disabled disabled	7+8 9+10
ţ٥	165		Block 2-5	disabled	11+12
on	166		Block 3-1	disabled	1+2+3
ב	167		Block 3-1	disabled	4+5+6
ţ	168		Block 3-3	disabled	7+8+9
	169		Block 3-4	disabled	10+11+12
าน	170	170			
e le	171	171			
the	172	172			
<u>.</u>	173	173			
SparkLED in the lens #	174	174			
C.E.	175	175			
ark	176 177	176 177	<u> </u>		
Sp	177	177		+	
(all	179	179	<u> </u>		
ns (a	180	180			
rn	181	181			
:te	182	182			
Pat	183	183			
SI	184	184			
Ler	185	185			
Full Lens Patter	186	186			
屲	187	187			
	188	188	<u> </u>		
	189	189			
	190	190			
	190	190		+	
	191	191		+	
	192			+	
		193	<u> </u>	+	
	194	194			
	195	195			
	196	196			
	197	197			
	198	198			
	199	199			
	200	200			

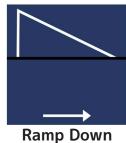
YPE	SLOT	DMX	NAME	tures subject to change with FX ADJUSTMENT	NOTES/STEPS
	201	201	Row 1	disabled	
	202	202	Row 2	disabled	
	203	203	Row 3	disabled	
	204	204	Column 1	disabled	
	205	205	Column 2	disabled	
	206	206	Column 3	disabled	
	207	207	Column 4	disabled	
	208	208	Column 5	disabled	
	209	209	Column 6	disabled	
	210	210	Column 7	disabled	
	211	211	Column 8	disabled	
	212 213	212 213	Column 9 Column 10	disabled	
	213	214	Column 11	disabled disabled	
	214	215	Column 12	disabled	
	216	216	Column 13	disabled	<u> </u>
	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	Column 19	disabled	
	223	223	Column 20	disabled	
	224	224	Column 21	disabled	
_	225	225	Column 22	disabled	
er	226	226	Column 23	disabled	
Ť	227	227	Column 24	disabled	
Pattern	228	228	Column 25	disabled	
þ	229	229	Column 26	disabled	
$\frac{\lambda}{2}$	230	230	Column 27	disabled	
Sparkled	231	231	Column 28	disabled	
Sp	232	232	Column 29	disabled	
	233	233	Column 30	disabled	
	234	234	Column 31	disabled	
	235	235	Column 32	disabled	
	236	236	Column 33	disabled	
	237		Column 34	disabled	
	238	238	Column 35	disabled	
	239	239	Column 36	disabled	
	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	Lens 7	disabled	
	247	247	Lens 8	disabled	
	248	248	Lens 9	disabled	
	249	249	Lens 10	disabled	
	250	250	Lens 11	disabled	
	251	251	Lens 12	disabled	
	252	252			
	253	253			
	254	254			
	255	255		+	
			I.		<u> </u>











Ramp	Down
	ave

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	ĺ	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
ef	5	5	Ramp Up		
av	6	6	Ramp Down		
≥	7	7	Steps		
	8	8	1		
	9	9	ĺ		
	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	1 Pixel	Reverse, Stop, Forward	Random 1 Pixel per step
	14	14	2 Pixels	Reverse, Stop, Forward	Random 2 Pixel per step
	15	15	3 Pixels	Reverse, Stop, Forward	Random 3 Pixel per step
	16	16	4 pixels	Reverse, Stop, Forward	Random 4 Pixel per step
	17	17	5 pixels	Reverse, Stop, Forward	Random 5 Pixel per step
	18	18	7 pixels	Reverse, Stop, Forward	Random 7 Pixel per step
	19	19	8 pixels	Reverse, Stop, Forward	Random 8 Pixel per step
	20	20	Single Row	Reverse, Stop, Forward	One single row per step
	21	21	Single Column	Reverse, Stop, Forward	Single column per step
	22	22	Mirror	Reverse, Stop, Forward	
X	23	23	Mirror Circle	Reverse, Stop, Forward	
Jel	24	24	Knight Rider	Reverse, Stop, Forward	
:5	25	25	Marque	Reverse, Stop, Forward	
StrobeLineFX	26	26	Center Out	Reverse, Stop, Forward	
2:	27	27	Fireworks		Replicate an exploding firework rocket
St	28	28	Ring	Reverse, Stop, Forward	İ
	29	29	Row	Reverse, Stop, Forward	
	30	30		<u> </u>	
	31	31		İ	
	32	32		1	
	33	33		1	
				1	
	34	34		1	
	35	35			
	36	36			
	37	37			
	38	38			
	39	39			
	40	40		1	

TYPE	SLOT	DMX	NAME	es subject to change w FX ADJUSTMENT	NOTES/STEPS
	41	41		1 X X X 3 3 3 1 1 1 2 1 1 1	110120,01210
	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			
Ë	66	66			
pe	67	67			
tro	68	68			
Ś	69	69			
	70	70			
	71	71			
	72	72			
	73	73			
	74	74			
	75	75			
	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			
	89	89			
	90				
	J 90	90			

SLO	T DMX	NAME	res subject to change wi	NOTES/STEPS
91	91	1		
92	92			
93	93			
94	94			
95	95			
96	96			
97	97			
98	98			
99	99			
100				
101		Single	Reverse, Stop, Forward	
102		Single Top / Bottom		Top Row chases first, then bottom row
103	_	1/4	Reverse, Stop, Forward	
104			Reverse, Stop, Forward	
105		1/8	Reverse, Stop, Forward	
106		1/8 Top-Bottom	Reverse, Stop, Forward	
107		Single Bounce	Reverse, Stop, Forward	
108		Fill Row	Reverse, Stop, Forward	
109		1/4 Bounce	Reverse, Stop, Forward	
110		11/4 Bounce Single	Reverse, Stop, Forward	
111		-		
112				
113				
114 115				
116				
117				
118				
119				
120				
121				
122				
123		Ì		
124		İ		
125				
126				
127	127			
128				
129				
130				
131	131			
132		-		
133				<u> </u>
134		-		
135 136		-		
137		 		
138		 		
139				
140		 		
				1
			<u> </u>	
		 		1
		 		
141 142 143 144 145		141 142 143 144 145	142 143 144	142 143 144

(PE	SLOT	DMX	NAME	es subject to change wit FX ADJUSTMENT	NOTES/STEPS
	146	146			,
	147	147	İ		
	148	148	İ		
	149	149			
	150	150			
	151	151	İ		
	152	152	i		
	153	153	İ		
	154	154	i		
	155	155			
	146	146			
	147	147			
	148	148			
	149	149			
	150	150			
	151	151			
	152	152			1
	153	153			1
	154	154			
	155	155			
	156	156			<u> </u>
	157	157			
	158	158			
	159	159			
סרו ממפרווופו ע	160	160			
י	161	161			
5	162	162			
י ב	163	163			
	164	164			
ר ו	165	165			
	166	166			
	167	167			
	168	168			
	169	169			
	170	170			
	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			1
	187	187			
	188	188			
	189	189			
	190	190			<u> </u>

YPE	SLOT	DMX	NAME	FX ADJUSTMENT	NOTES/STEPS
	191	191	Row 1	disabled	
	192	192	Row 2	disabled	
	193	193	Quarter 1	disabled	
	194	194	Quarter 2	disabled	
	195	195	Quarter 3	disabled	
	196	196	Quarter 4	disabled	
	197	197	1/8	disabled	
	198	198	2/8	disabled	
	199	199	3/8	disabled	
	200	200	4/8	disabled	
	201	201	5/8	disabled	
	202	202	6/8	disabled	
	203	203	7/8	disabled	
	204	204	8/8	disabled	
	205	205	Column 1	disabled	
	206	206	Column 2	disabled	
	207	207	Column 3	disabled	
	208	208	Column 4	disabled	
	209	209	Column 5	disabled	
	210	210	Column 6	disabled	
opar kied ratterii	211	211	Column 7	disabled	
,	212	212	Column 8	disabled	
5	213	213	Column 9	disabled	
5	214	214	Column 10	disabled	
	215	215	Column 11	disabled	
	216	216	Column 12	disabled	
_	217	217	Column 13	disabled	
	218	218	Column 14	disabled	
	219	219	Column 15	disabled	
	220	220	Column 16	disabled	
	220	220	Column 17		
			 	disabled	
	222	222	Column 18	disabled	
	223	223	Column 30	disabled	
	224	224	Column 20 Column 21	disabled	
	225 226	225 226		disabled	
			Column 27	disabled	
	227	227	Column 23 Column 24	disabled	
	228	228	}	disabled disabled	
	229	229	Column 25		
	230	230	Column 26	disabled	
	231	231	Column 27	disabled	
	232	232	Column 28	disabled	
	233	233	Column 29	disabled	
	234	234	Column 30	disabled	
	235	235	Column 31	disabled	
	236	236	Column 32	disabled	

	Features subject to change without notice					
TYPE	SLOT	DMX	NAME	FX ADJUSTMENT	NOTES/STEPS	
ırn	237	237	Lens 1	disabled	Strobe LEDs above and below the lens	
	238	238	Lens 2	disabled	Strobe LEDs above and below the lens	
	239	239	Lens 3	disabled	Strobe LEDs above and below the lens	
	240	240	Lens 4	disabled	Strobe LEDs above and below the lens	
	241	241	Lens 5	disabled	Strobe LEDs above and below the lens	
	242	242	Lens 6	disabled	Strobe LEDs above and below the lens	
	243	243	Lens 7	disabled	Strobe LEDs above and below the lens	
#	244	244	Lens 8	disabled	Strobe LEDs above and below the lens	
Sparkled Pattern	245	245	Lens 9	disabled	Strobe LEDs above and below the lens	
	246	246	Lens 10	disabled	Strobe LEDs above and below the lens	
	247	247	Lens 11	disabled	Strobe LEDs above and below the lens	
	248	248	Lens 12	disabled	Strobe LEDs above and below the lens	
	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 CODES:

Model ID	RDM Code	Personality ID	Device ID
1756	0x6DC	Open	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:

C D C '11'
Sensor Definition
Sensor Value
Device Model Description
Manufacturer Label
Device Label
DMX Personality
DMX Personality Description
Device Hours
Comms Status
Status ID Description
Clear Status ID
Device Power Cycles
Tilt Invert
Display Invert
Display Level
Realtime Clock
Power State
Preset Playback
Default Slot Value
Language
Language Capabilities
Boot Software Version Label
Boot Software Version ID
Product Detail ID List
Status Messages
Julius Messages

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.

Fran Codos subject to change	e without prior written notice
ERROR CODES	DESCRIPTION
Lamp Temp High	DESCRIPTION
Lamp Temp Error	
Base Temp High	
Base Temp Error	
Head Temp High	
Head Temp Error	
Head Humity High	
Head Humity Warning	
Base Humity High	
Base Humity Warning	
Base Fan1 Error	
Base Fan2 Error	
Base Fan3 Error	
Base Fan4 Error	
3U2JB1 LEDFan1Error	
3U2JB2 LEDFan2Error	
3U2JB3 LEDFan3Error	
3U2JB4 LEDFan4Error	
3U2JB5 FogFan1Error	
3U2JB6 FogFan2Error	
3U2JB7 FogFan3Error	
2U01 Com Fail	
3U01 Com Fail	
3U02 Com Fail	
3U03 Com Fail	
4U01 Com Fail	
5U01 Com Fail	
5U02 Com Fail	

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

(12) 60W Osram RGBW LEDs (48) 2W White SparkLED™ (256) 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

11,000 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 (128 pixels per side)
Color Presets and Macros
Electronic Strobe and Variable Dimming Curves
16-bit Dimming
Tilt Angle: 192°

CONTROL / CONNECTIONS

4 DMX Channel Modes (28/76/140/188 channels)
Pixel controlled Wash, SparkLED and Strobe LED
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: 39.5 in (1004mm) Width (Base): 7.6 in (194mm) Width (Head): 6.1 in (155mm) Height (head up): 13.2 in (336mm)

Height (head 90 degree): 11.3in (288mm)

Weight: 72.7 lbs. (33kg)

ELECTRICAL / THERMAL

AC 100-240V 50/60Hz 1400W Max Power Consumption

APPROVALS / RATINGS

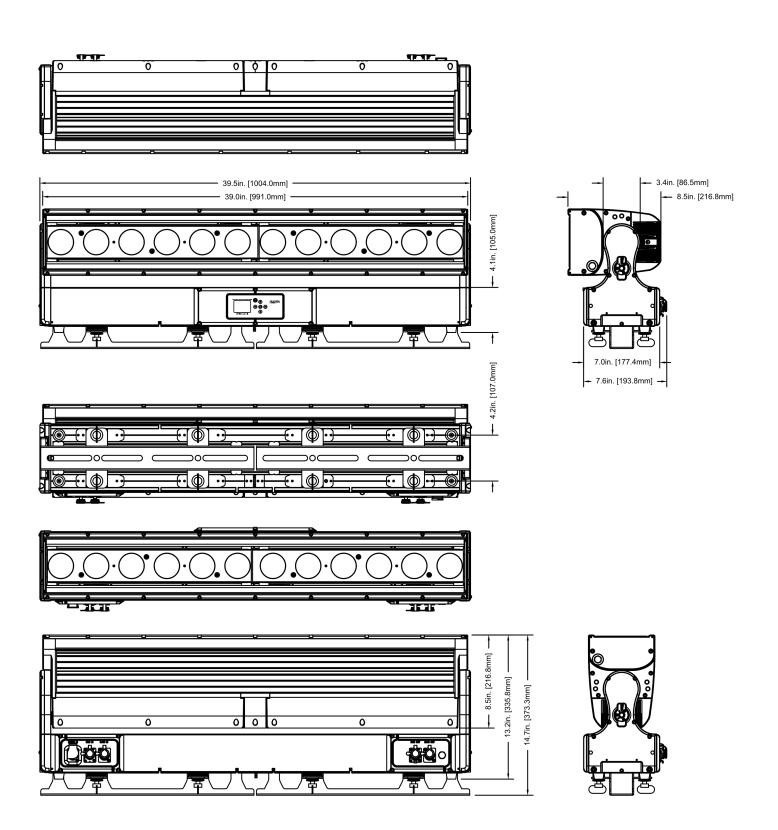
CE | cETLus | IP65



Specifications and documentation subject to change without notice.

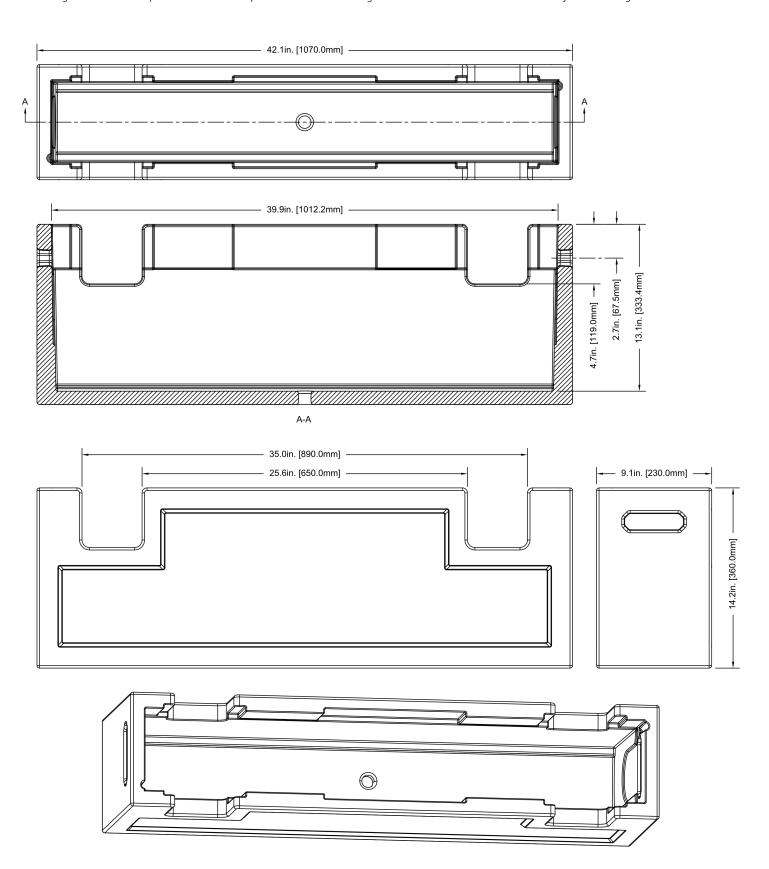
DIMENSIONS-FIXTURE

*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:

- Réorient 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!

