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DOCUMENT VERSION



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

Date	Document Version	Software Version ≥	DMX Channel Modes	Notes
05/28/19	1.0	1.2.1	25 / 52 / 80	Initial release.
09/30/19	1.1	N/C	NO CHANGE	Included RJ4 data cable note.
10/15/19	2.0	1.2.2	NO CHANGE	Updated System Sub Menus, DMX Control Channel, and RGBW/SparkLED FX Tables.
03/05/20	2.5	1.2.2	NO CHANGE	Added torque screw setting page
05/12/20	3.0	N/C	NO CHANGE	Added Elation Proteus Rayzor 760 WMG
08/10/20	3.5	N/C	NO CHANGE	Updated thermal
10/14/20	4.0	N/C	NO CHANGE	Updated specifications
02/04/21	4.5	1.2.4	NO CHANGE	Updated primary/secondary modes
03/15/21	5.0	N/C	NO CHANGE	Hibernation / Sun protection warning and information.
05/20/21	5.5	N/C	NO CHANGE	Updated Maintenance Guidelines

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GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information.

IP65 RATED

An IP rated lighting fixture is one, which is commonly installed in outdoor environments and has been designed with an enclosure that effectively protects the ingress (entry) of external foreign objects such as dust and water. The **International Protection (IP)** rating system is commonly expressed as "IP" (Ingress Protection) followed by two numbers (i.e. IP65) where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. An **IP65** rated lighting fixture is one, which has been designed and tested to protect against the ingress of dust **(6)** and low-pressure water jets from any direction **(5)**.

UNPACKING

Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

BOX CONTENTS

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

WARRANTY RETURNS (USA ONLY)

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

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

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

SAFETY GUIDELINES

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



PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED



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



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!



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



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



MINIMUM DISTANCE TO OBJECTS/SURFACES
MUST BE 3.3 FEET (1 METER)
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.

Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.

Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.

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

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

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

MAINTENANCE GUIDELINES



DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Frequent cleaning is recommended to insure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean the external lens surface at least every 20 days with a soft cloth to avoid dirt/debris accumulation.

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

MAINTENANCE

Regular inspections are recommended to insure proper function and extended life.

There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation dealer.

Please refer to the following points during routine inspections:

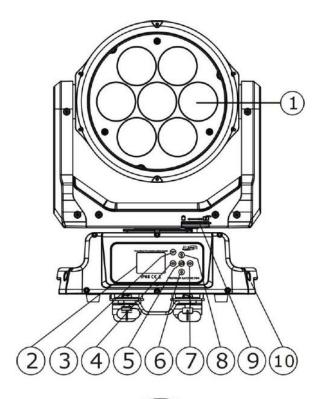
- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue or sediments. NEVER
 remove the ground prong from the power cable.

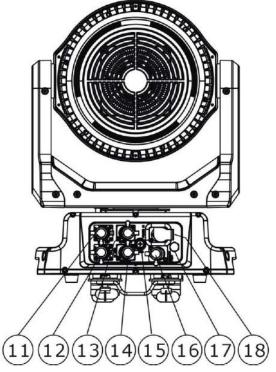
FIXTURE DISASSEMBLY

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 in order 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.

FIXTURE OVERVIEW





- 1. Lens
- 2. System Menu LCD Display
- 3. MODE/ESC Button
- 4. LEFT Button
- 5. ENTER Button
- 6. DOWN Button
- 7. RIGHT Button
- 8. UP Button
- 9. Pan Lock
- 10. Carrying Handle(s)
- 11. 5pin DMX Output
- 12. 5pin DMX Input
- 13. RJ45 Output
- 14. **RJ45 Input**
- 15. Fuse
- 16. Service Port
- 17. Value
- 18. Power Input



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.



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



MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 3.3 FEET (1 METER)



MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE 1.6 FEET (0.5 METER)





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

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

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

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

Fixture ambient operating temperature range is 14° to 113°F. (-10° to 45°C)

Do not use the fixture under or above this temperature.

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

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

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

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

OMEGA BRACKETS 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.



CLAMP INSTALLATION

When mounting fixture to truss, be sure to secure an appropriately rated professional grade rigging clamp to the included **Omega Brackets** using an M10 screw fitted through the center hole of the **Omega Brackets**. The fixture provides a built-in rigging points for a **SAFETY CABLE**. 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 amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.



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

ART-NET | SACN CONNECTION

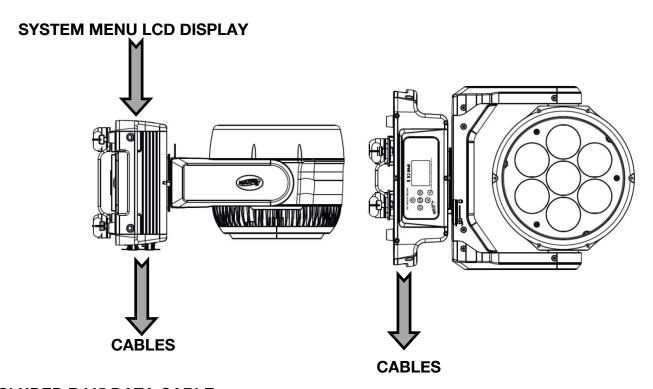
When connecting fixture to a network switch to control multiple devices, a **Gigabit Ethernet Switch** that supports **IGMP** (Internet Group Management Protocol) is required. Using a **Gigabit Ethernet Switch** that does not support **IGMP** can cause erratic behavior of all connected devices to the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

https://en.wikipedia.org/wiki/Internet Group Management Protocol

POWER AND DATA CABLES



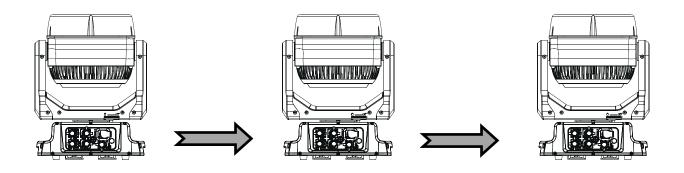
TO MAINTAIN THE IP65 RATING INTEGRITY OF THE FIXTURE, ALL CABLES MUST BE RUN TOWARDS THE GROUND TO PREVENT WATER ACCUMULATION AROUND THE CONNECTIONS.



INCLUDED RJ45 DATA CABLE



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



POWER AND DATA CONNECTIONS



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



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







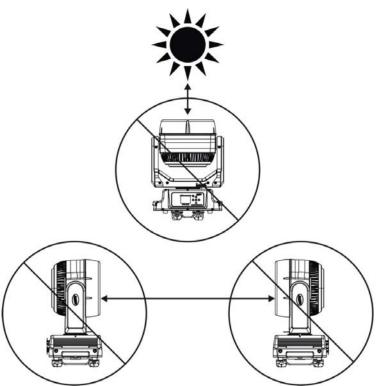
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS DEVICE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT DROP IF THE CLAMP FAILS.

FIXTURE INSTALLATION

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 on 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.

SUN PROTECTION MODE / HIBERNATION MODE

This state can be set via DMX, or will go into this state after 3 minutes without a DMX signal.

When the sun protection is activated, the pan-and-tilt function of the moving-head will position the lens away from direct sunlight, or other high intensity light source, to protect the internal belts, electronics etc. from burn damage.

When the unit is in the 'sun protection state', it uses its accelerometer sensors (X-Y-Z) (only present on discharge units and IP units) to position the front lens downwards, even when the unit(s) will be moved from its position. This will keep on changing the position of the head.

Note that 'manual mode' overrides the 'sun-protection mode'.

The hibernation function is an incredibly old feature that puts the unit into a 'sleep state' to save power (this is a state whereas only the electronics remain on, and all other functions are turned off, functions such as motors lamps etc.). This state is automatically activated when no DMX signal is present for the set time (1-99min or off).

TORQUE SETTINGS FOR SCREWS

V

PANEL SCREWS MUST BE TIGHTENED WITH A TORQUE WRENCH.



The hex-head screws holding the panels MUST be tightened with a torque wrench. (not included)

TORQUE SETTING = 11 lbf-in. (12.7kgf-cm) *

* Ibf-in = Pound Force Inches | kgf-cm = Kilogram Force Centimeters



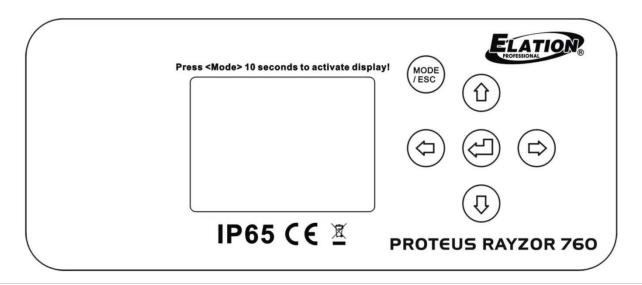
CAUTION! DO NOT OVER TORQUE SCREWS AS THIS CAN CAUSE LEAKAGE ISSUES!

TO CONFIRM THE IP65 INTEGRITY AFTER OPENING PANEL, TEST FIXTURE USING THE ELATION IP TESTER. CONTACT ELATION SERVICE FOR MORE DETAILS.



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.

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.



ALTHOUGH E-FLY SETTINGS MAY APPEAR IN THE SYSTEM MENU, THIS FEATURE IS NOT ACTIVATED. E-FLY WIRELESS DMX IS AN OPTIONAL FEATURE WHICH MUST BE ACTIVATED IN THE SERVICE MENU. PLEASE CONTACT ELATION SERVICE FOR FURTHER DETAILS.

ELATION PROTEUS RAYZOR 760™ SYSTEM MENU

Supports Software Versions: ≥ 1.2.1

Features subject to change without notice.
*Rotation direction (Clockwise/Counterclockwise) and control of effects depends on head orientation and Pan/Tilt settings.

MAIN MENU	SUB MENU	OPTIONS / VALUES	S (Default Settings in	DESCRIPTION
FUNCTION	Set Dmx Address	A001~AXXX		DMX Address Setting
	Dmx Value	ALL		DMX Value Display
FUNCTION	Secondary Mode	Secondary1, Seconda	ry2, Secondary3	Secondary Setting
	Auto Program	Primary / Alone		Auto Program
		Current Time	XXXX (Hours)	Fixture Run Time From Power ON
		Total Run Time	XXXX (Hours)	Fixture Total Run Time
	Time Information	Last Run Time	XXXX (Hours)	Fixture Last Run Time
		LastRun Password	Password=038	(PSWD Required)
		Clear Last Run	ON / OFF	Clear Fixture Last Run Time
		LED Temperature	XXX C° / F°	Temperature in LEDs
INICODMATION	Temperature Info		XXX C° / F°	
INFORMATION	'	·		DMX Address Setting DMX Value Display Secondary3 Secondary Setting Auto Program XXX (Hours) Fixture Run Time From Power ON XXX (Hours) Fixture Total Run Time XXX (Hours) Fixture Last Run Time Axx (Hours) Fixture Last Run Time XXX (Hours) Fixture Last Run Time Axx (Hours) Fixture Last Run Time Clear Fixture Last Run Time Axx (Hours) Fixture Last Run Time Axx (Hours) Fixture Last Run Time Clear Fixture Head Temperature in Fixture Head Temperatur
	Humidity Info		DESCRIPTION IXXX DMX Address Setting DMX Value Display Ty1, Secondary2, Secondary3 Secondary Setting Auto Program Time XXXX (Hours) Fixture Run Time From Power ON n Time XXXX (Hours) Fixture Total Run Time Password Password-038 (PSWD Required) St Run ON / OFF Clear Fixture Last Run Time Password Password-038 (PSWD Required) St Run ON / OFF Clear Fixture Last Run Time Password Password-038 (PSWD Required) St Run ON / OFF Clear Fixture Last Run Time Password Password-038 (PSWD Required) St Run ON / OFF Clear Fixture Last Run Time Password-038 (PSWD Required) Temperature in Fixture Last Run Time Password-05	
SUB MENU				
		ress A001-AXXX DMX Address Setting ALL ALL		
	Litoi iiilo			
		,		
			I .	
				` '
			YES/ NO	
	Fans Control		T	DMX Value Display Secondary Setting Auto Program Fixture Run Time From Power ON Fixture Total Run Time Fixture Last Run Time Fixture Last Run Time Temperature in LEDs Temperature in Fixture Base Humidity in Head Humidity In Base Displays Fixture Ethernet Address RPM Speeds of Head/Base Fans Software Version Fixture Last 10 Error Codes Address Via DMX Fixture State When NO DMX Signal Pan Reverse Movement Tilt Reverse Movement Tilt Reverse Movement Pan Degree Select Tilt Degree Select Tilt Degree Change Stand By Mode Service Password RDM PID Code (PSWD Required) Clear Error Info (PSWD Required) Service Port - Software Updates Select Fan Speeds Display Shut Off Time Display Reverse 180° Key Lock Temperature Switch Between C°/ F° Initial Effect Position DMX In/Out Select Art-Net Activate SACN Ethernet IP (PSWD Required) Set ArtNet Universe Set Dimmer Mode
DEDOONALITY			I .	
PERSONALITY	Display Setting			
			ON/ OFF	DMX Address Setting DMX Value Display Secondary Setting Auto Program Fixture Run Time From Power ON Fixture Total Run Time Fixture Last Run Time (PSWD Required) Clear Fixture Last Run Time Temperature in LEDs Temperature in Fixture Head Temperature in Fixture Base Humidity in Head Humidity In Base Displays Fixture Ethernet Address RPM Speeds of Head/Base Fans Software Version Fixture Last 10 Error Codes Address Via DMX Fixture State When NO DMX Signal Pan Reverse Movement Tilt Reverse Movement Tilt Reverse Movement Pan Degree Select Tilt Degree Select Tilt Degree Change Stand By Mode Service Password RDM PID Code (PSWD Required) Clear Error Info (PSWD Required) Service Port - Software Updates Select Fan Speeds Display Shut Off Time Display Reverse 180° Key Lock Temperature Switch Between C°/ F° Initial Effect Position DMX In/Out Select Art-Net Activate sACN Ethernet IP (PSWD Required) Ethernet Mask IP (PSWD Required) Set ArtNet Universe Set Dimmer Mode Set LED Refresh Rate Set Dimmer Mode
	<u>.</u>			-
	Initial Status			
		DMX Only		
	Select Signal			Select Art-Net
		sACN		Activate sACN
	Ethernet IP	XXX . XXX . XXX . XX	X	Ethernet IP (PSWD Required)
	Ether Mask IP	XXX . XXX . XXX . XX	X	Ethernet Mask IP (PSWD Required)
	Set Universe	000 - 32767		Set ArtNet Universe
	Dimmer Mode		Architectural,	Set Dimmer Mode
	Refresh	1200 , 900-1500, 2500, 4000 15000, 20000, 25000 (Hz)	, 5000, 6,000, 10000,	Set LED Refresh Rate
	Dimmer Curve	Linear, Square, Invers	se Square, S-Curve	Set Dimmer Curve Mode
	Reset Default	ON/ OFF		

ELATION PROTEUS RAYZOR 760™ SYSTEM MENU

		Supports Software	e Versions: ≥ 1.2.1		
	*Rotation direction (Clockwi			ntation and Pan/Tilt settings.	
MAIN MENU	SUB MENU	OPTIONS / VALUE BOLD)	S (Default Settings in	DESCRIPTION	
	Reset All			Reset All Motors	
Reset Function	Reset Pan&Tilt			Reset Pan/Tilt	
	Sub Menu		Reset Other Motors		
	Test Channel	PAN		Test function	
Effect Adjust	Manual Control	PAN =XXX,		Fine Adjustments	
Effect Adjust	Calibration	• • • • • • • • • • • • • • • • • • • •		Password 050 (PSWD Required)	
		Standard			
User Mode Set	User Mode	Pixels		DMX Channel Modes	
		Extended			
		Auto Pro Part1 = Prog	ram 1~10 (Program 1)		
	Select Program	Auto Pro Part2 = Prog	ram 1~10 (Program 2)	Select Programs To Be Run	
Reset Function Effect Adjust		Auto Pro Part3 = Prog	ram 1~10 (Program 3)		
		Program 1	Program Test	Testing Program	
	Edit Program	:	Step 01=SCxxx	Program In Loop	
Edit Program		Program 10	Step 64=SCxxx	Save and Exit	
			Pan,Tilt,	Save and Automatically Return	
	Edit Scenes	~	Fade Time Scene Time	Manual Scenes Edit	
			Input By Outside	Stores Scenes via Ext DMX Console	
	Rec. Controller	XX~XX		Automatic Scenes Recorder	

REVISED SUB MENUS WITH SOFTWARE UPDATE VERSION ≥1.2.2

See highlighted menu items below which have been updated with this software update.

PERSONALIY	Dimmer Mode	Standard , Stage, TV, Architectural, Theatre, Stage2, 0.0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0	Set Dimmer Mode / Delay Time
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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 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 for approximately 20 seconds (some fixtures may require a longer time) for the fixture to complete the address reset function.

PERSONALITY - Service Setting - Password (050)

The Service Password MUST be entered to access the service menus.

PERSONALITY - Service Setting - <u>USB Update</u>

To update the fixture software via the **UPDATE/SERVICE PORT**, follow steps below.



ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION!

NOTE ALL MENU SETTINGS BEFORE UPDATING SOFTWARE!

FIXTURE SOFTWARE CAN NOT BE DOWNGRADED!

DOWNLOAD FIXTURE SOFTWARE TO PC ONLY! (NO MAC SUPPORT)

PLEASE CONTACT ELATION SERVICE FOR FURTHER INFORMATION.

- 1. Copy fixture software update file from a PC computer to a compatible USB flash drive.

 Make sure only the fixture software update file is stored on the USB flash drive.
- 2. Disconnect DMX, Art-Net, and E-FLY connections and power the fixture ON.
- 3. Insert USB flash drive into the **UPDATE/SERVICE PORT** on the rear connection panel.
- 4. Navigate to the **Personality** main menu **Service Setting / USB Update** sub menu.
- 5. Select the software file name on the menu display and press **ENTER**.
- 6. Select **YES** to begin update process and **Updating...%** will show on the menu display.
- 7. After file is uploaded, the fixture will check the software which will take some time.

 The fixture will perform a reset process when the software update process is complete.
- 8. Remove the USB flash drive and make necessary system menu setting adjustments.

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 - Reset Default (011)



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.

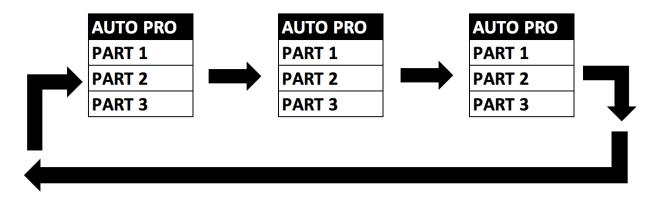
This function allows small adjustments to be made to the Pan, Tilt, and Zoom movements to compensate for ware or in the event a sensor has been knocked slightly out of place. Because improper use of this function can result in undesired operation this function has been password protected. The password 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.

EDIT PROGRAM – Rec. Controller

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

EDIT PROGRAM – Record Controller – Working with Built-In Programs

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



The

Secondary unit receives data from the Primary unit according to the group which the Secondary unit was assigned to. If e.g. a Secondary unit is set to "Secondary 1" in the menu "Set to Secondary", the Primary unit sends "Auto Program Part 1" to the Secondary unit.

If set to "Secondary 2", the Secondary unit receives "Auto Program Part 2".

To start an Auto Program, proceed as follows:

1. Secondary Setting

Select "Function Mode".

Press **ENTER** to confirm.

Select "Set to Secondary".

Press **ENTER** to confirm.

Select "Secondary 1", "Secondary 2" or "Secondary 3".

Press **ENTER** to confirm.

Press MODE/ESC in order to return to the main menu.

2. Automatic Program Run

Select "Function Mode".

Press **ENTER** to confirm.

Select "Auto Program".

Press **ENTER** to confirm.

Select "Primary" or "Alone".

Press **ENTER** to confirm.

Press MODE/ESC to return to the main menu.

EDIT PROGRAM - Record Controller - Working with Built-In Program [continued]

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".

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.

Example:

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

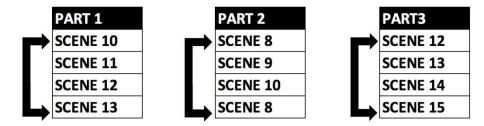
Program 4 includes scenes: 8, 9, & 10

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. (See chart below)

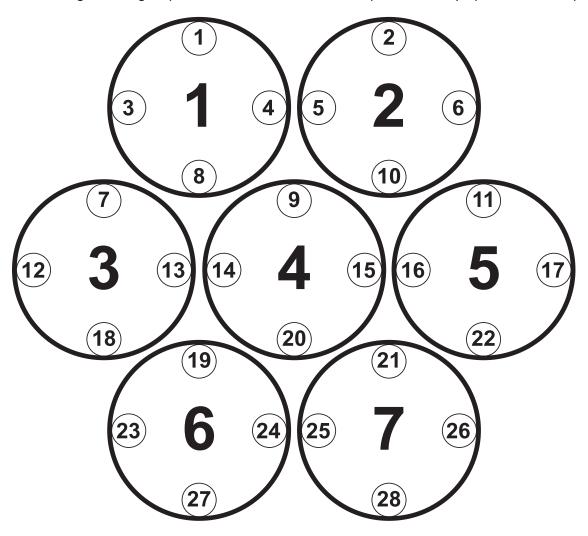


LIGHTING CONSOLE PATCHING GUIDELINES

The PROTEUS RAYZOR 760 is a versatile luminaire which combines two fixtures into one housing, allowing it to produce multiple unique lighting effects typically not found in a single lighting fixture. The DMX layout is designed to offer a variety of options for controlling each fixture efficiently.

The main fixture contains 7x 60W RGBW pixel cells, while the SparkLED fixture contains 28 x 2W white LEDs. For ease of use the DMX layout is arranged to allow lighting consoles to separate the fixture into multiple segments or parts. It is important to arrange the fixture in such segments or parts especially when using the fixture in the full extended 80 channel DMX mode. For simpler programming, reduced DMX channel modes can be used. However, for easy recall of interesting pixel animations both the RGBW and SparkLED fixtures contain two FX systems, one controls the RGBW cells, while the other is dedicated to the SparkLEDs.

The pixels are arranged in a grid pattern as illustrated below. (RGBW 1-7 | SparkLED 1-28)



LIGHTING CONSOLE PATCHING GUIDELINES

PIXEL LAYOUT	PIXEL NUMBERS
RGBW Row 1	1, 2
RGBW Row 2	3, 4, 5
RGBW Row 3	6, 7
RGBW Column 1	3
RGBW Column 2	1, 3, 6
RGBW Column 3	1, 4, 6,
RGBW Column 4	4
RGBW Column 5	2, 4, 7
RGBW Column 6	2, 5, 7
RGBW Column 7	5
SparkLED Row 1	1, 2
SparkLED Row 2	3, 4, 5, 6
SparkLED Row 3	7, 8, 9, 10, 11
SparkLED Row 4	12, 13, 14, 15, 16, 17
SparkLED Row 5	18, 19, 20, 21, 22
SparkLED Row 6	23, 24, 25, 26
SparkLED Row 7	27, 28
SparkLED Ring 1	1, 2, 6, 11, 17, 22, 26, 28, 27, 23, 18, 12, 7, 3
SparkLED Ring 2	4, 5, 10, 16, 21, 25, 24, 19, 13, 8
SparkLED Ring 3	9, 15, 20, 14

LIGHTING CONSOLE PATCH GUIDELINES

There are also two additional parts for a primary control of the PROTEUS RAYZOR 760, which creates four separate control areas for the fixture. It is recommended to create fixture groups on the lighting controller for each area of the fixture. (see below)

Main Fixture	Primary Pan, Tilt, RGBW Color, Strobe, Dimmer, Zoom, FX Controls			
RGBW Cells 1-7	RGBW Cells 1-7 Red, Green, Blue, White per each individual cell			
SparkLED Main Primary SparkLED Strobe, Dimmer				
SparkLEDs 1-28	SparkLED Dimmer per each individual LED			

→ SparkLED is not available as a mode in the fixture menu but must be provided as a console control profile for easy programming of the fixture. Use the PROTEUS RAYZOR 760 in Extended mode and patch appropriate parts of the RGBW Pixels and SparkLED fixtures on your control system to access all 80 channels.

On the lighting controller, patch the two fixture types (RGBW and SparkLED), separating the SparkLEDs into a different ID range. (see below)

RGBW Pixels for Channels 1-52

SparkLEDs for Channels 53-80

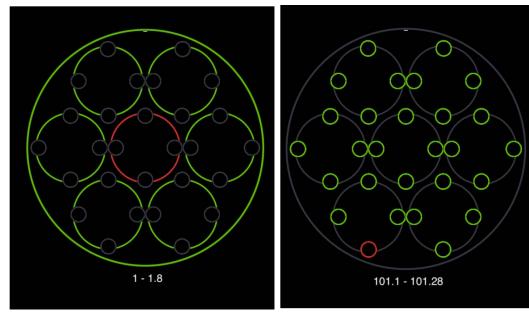
ONYX Main and Sub Fixture ID patch example below for a single PROTEUS RAYZOR 760 fixture.

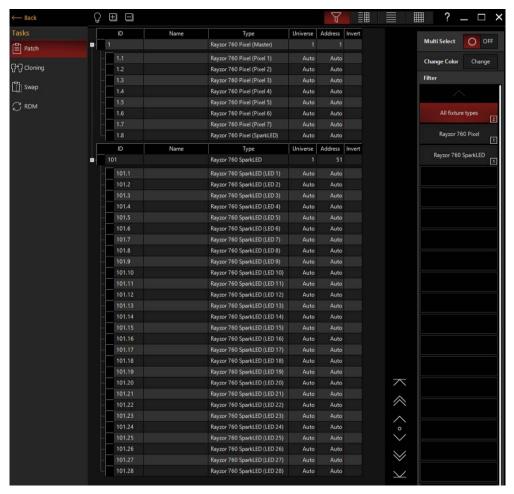
ID	Туре	Address	
1.0	RGBW Pixels Main	1	
1.1	Pixel 1	22	
1.2	Pixel 2	26	
1.3	Pixel 3	30	
1.4	Pixel 4	34	
1.5	Pixel 5	38	
1.6	Pixel 6	42	
1.7	Pixel 7	46	
1.8	SparkLED Main	50	

101.1	SparkLED 1	53
101.2	SparkLED 2	54
101.3	SparkLED 3	55
101.4	SparkLED 4	56
101.28	SparkLED 28	80

LIGHTING CONSOLE PATCH GUIDELINES

ONYX screen shots below illustrate Main and Sub Fixture ID patch for a single PROTEUS RAYZOR 760 fixture.





LIGHTING CONSOLE PATCH GUIDELINES

ONYX Groups example below for easier selection of a single PROTEUS RAYZOR 760 fixture.

Group Name	Group Content	
All RGBW Pixels Main	1	
All RGBW Pixels	1.1, 1.2, 1.3 1.8	
All SparkLEDs Main	1.8	
All SparkLEDs	101.1 ,101.2 101.28	

ONYX screen shot below illustrates Groups for a single PROTEUS RAYZOR 760 fixture.



DMX CHANNEL FUNCTIONS AND VALUES

ELATION PROTEUS RAYZOR 760™

DMX Channel Values / Functions (80 Total DMX Channels)

Supports Software Versions: ≥ 1.2.1

Features subject to change without notice.

*Rotation direction (Clockwise/Counterclockwise) and control of effects depends on head orientation and Pan/Tilt settings.

Standard	Pixels	Extended	Value	Function	Fade Status	Default Value													
			Main Fixtu	ire Control															
1	1	1		PAN	Fade	127													
1	1	l l	0-255	Movement	raue	127													
0	0	0		PAN FINE	Fada	407													
2	2	2	0-255	Fine Movement	Fade	127													
3	3	3		TILT	Fodo	127													
3	3	3	0-255	Movement	Fade	127													
4	4	4		TILT FINE	Fade	127													
7	7	7	0-255	Fine Movement	1 auc	121													
				PAN ROTATE															
			0-2	Disabled															
			3-126	Rotating CW Fast to Slow															
5	5	5 127-129 (Fixture sto	NO Rotation (Fixture stops at its current position)	Fade	0														
			130-253	Rotating CCW Slow to Fast															
			254-255	NO Rotation (Fixture stops at its current position)															
																	TILT ROTATE		
				0-2	Disabled														
			3-126	Rotating CW Fast to Slow															
6	6	6	127-129	NO Rotation (Fixture stops at its current position)	Fade	0													
					130-253	Rotating CCW Slow to Fast													
			254-255	NO Rotation (Fixture stops at its current position)															
				СТС															
			0-10	Disabled															
7	7	7	11-171	Color Temperature (100K Steps) 2,000K to 10,000K (See CTC Table)	Fade	0													
			172-255	10,000K	1														

Standard	Pixels	Extended	Value	Function	Fade Status	Defaul Value	
				COLOR WHEEL			
			0-9	Open			
			10-14	Red			
			15-19	Red Orange			
			20-24	Light Amber			
			25-29	Yellow Amber			
			30-34	Greenish Yellow			
			35-39	Light Yellow Green			
			40-44	Dark Yellow Green			
			45-49	Green			
			50-54	Teal			
			55-59	Cyan			
			60-64	Light Blue			
			65-69	Aqua			
			70-74	Dark Aqua			
			75-79	Green Blue			
			80-84	Light Lavender			
			85-89	Dark Purple			
			90-94	Medium Purple			
			95-99	Mid Rose			
			100-104	Mauve			
			105-109	Nice Magenta			
			110-114	Warm Magenta			
8	8	8	115-119	Light Red	Snap	0	
			120-124	Straw			
			125-129	Dark CTB			
			130-134	Light Green			
			135-139	Purple			
		140-144 Lighter Purple 145-149 Pink 150-154 Rose 155-159 White		140-144	Lighter Purple		
			145-149	Pink			
	160-164 TBD	TBD					
			165-169	TBD			
			170-174	TBD			
			175-179	Open			
				COLOR SCROLL			
			180-201	CW Fast to Slow			
			202-207	Stop			
			208-229	CCW Slow to Fast			
			230-234				
			230-234	Open			
				RANDOM SLOTS			
			235-239	Fast			
			240-244	Medium			
			245-249	Slow			
			250-255	Open		1	

Standard	Pixels	Extended	Value	Function	Fade Status	Defaul Value
	9			STROBE		50
			0-31	Shutter Closed		
			32-63	Shutter Open		
			64-95	Strobe Slow to Fast		
9		9	96-127	Fast Close, Slow Open	Snap	
			128-159	Fast Open, Slow Close		
			160-191	Pulse Effects		
			192-223	Random Strobe Slow to Fast		
			224-255	Shutter Open		
				DIMMER		
10	10	10	0-255	0 → 100%	Fade	0
			0 200	DIMMER FINE		
11	11	11	0-255	Fine Dimming	Fade	0
			0 200	DIM MODES		
			0-20	Standard		0
			21-40	Stage		
			41-60	TV		
	12		61-80	Architectural		
			81-100	Theatre		
			101-120	Stage 2		
				DIMMER DELAY TIME		
			121	0s		
			122	0.1s		
			123	0.2s		
			124	0.3s		
			125	0.4s		
			126	0.5s		
12		12	127	0.6s	Snap	
12		12	128	0.7s	- Silap	
			129	0.8s		
			130	0.9s		
		131	1.0s			
			132	1.5s		
			133	2.0s		
			134	3.0s		
			135	4.0s		
			136	5.0s		
			137 6.0s			
			138	7.0s		
			139	8.0s		
			140	9.0s		
			141	10s		
			142-255	Idle	1	1

Standard	Pixels	Extended		Value	Function	Fade Status	Default Value	
					ZOOM			
13	13	13		0 -215	Zoom Wide to Narrow	Fade	128	
				216-255	Overdrive Min to Max			
	4.4	14			ZOOM FINE	Fade	0	
	14			0-255	Fine Zoom			
					PAN / TILT SPEED			
			0-2	0-225	Max to Min Speed			
	15	15 15	15 15	15	226-235	Blackout When Pan / Tilt Moves	Snap	0
			236-245	236-245	Blackout When All Wheels Change			
				246-255	No Function			

Standard	Pixels	Extended	Value	Function	Fade Status	Defau Value
				CONTROL		
			0-10	Idle		
			11-12	PanTilt Shortest Path		
			13-14	PanTilt Continue Path		
			15-16	Pan Range 540		
			17-18	Pan Range 360		
			19-20	Tilt Range 270		
			21-22	Tilt Range 360		
			23-39	Idle		
			40-59	Fan Mode Silent		
			60-79	Fan Mode Auto		
			80-84	Reset All		
			85-87	Reset Movement		
			88-91	Reset Zoom		
			92-100	Idle		
			100-168	Refresh Rate (Hz)		
			100	900		
			101	910		
			102	920		
			103	930		
			104 105	940 950		
	16					0
14		16	106 107	960 970	Snap	
			107	980		
			109	990		
			110	1000		
			111	1010		
			112	1020		
			113	1030		
			114	1040		
			115	1050		
			116	1060		
			117	1070		
			118	1080		
			119	1090		
			120	1100		
			121	1110		
			122	1120		
			123	1130		
			124	1140		
			125	1150		
			126	1160		
			127	1170		
			128	1180		
			129	1190		
			130	1200		

Standard	Pixels	Extended	Value	Function	Fade Status	Default Value
				CONTROL		
			131	1210		
			132	1220		
			133	1230		
			134	1240		
			135	1250		
			136	1260		
			137	1270		
			138	1280		
			139	1290		
			140	1300		
			141	1310		
			142	1320		
			143	1330		
			144	1340		
			145	1350		
			146	1360		
			147	1370		
			148	1380		
14	16	16	149	1390	Snap	0
			150	1400		
			151	1410		
			152	1420		
			153	1430		
			154 155	1440		
				1450		
			156	1460		
			157	1470		
			158	1480		
			159	1490		
			160	1500		
			161	2500		
			162	4000		
			163	5000		
			164	6000		
			165	10000		
			166	15000		
			167	20000		
			168	25000		

Standard	Pixels	Extended	Value	Function	Fade Status	Default Value				
			169-200	Idle						
				TH SOFTWARE UPDATE VERSION ≥1.2.2						
			169-192	Idle						
			193-194	Hibernate Off						
			195-196	Hibernate						
14	16	16	197-198	Home Position Before Power Off	Snap	0				
			199-200	Home Position Off	-					
			201-210	Dimmer Curve Linear (default)						
			211-220	Dimmer Curve Square						
			221-230	Dimmer Curve Inverse Square	4					
1			231-240	Dimmer Curve S-Curve						
 			241-255	Idle						
15	17	17		RGBW FX (See Table)	Snap	0				
			0-255	FX Selection 1 -255						
	18			RGBW FX SPEED		160				
40		10	0–126	Rev Fast to Slow	Fada					
16		18	127–128	Stop	Fade					
			129–255	Slow to Fast						
17	19	19		SparkLED FX (See Table)	Snap	0				
17	13	19 19	0-255	FX Selection 1 -255						
	20			SparkLED FX SPEED		160				
			0–126	Rev Fast to Slow	╗╻.					
18		20	127–128	Stop	Fade					
					129–255	Slow to Fast]			
				FX OFFSET						
			0	NO Sync						
							1	Fixture Offset 10 Degree		
			2	Fixture Offset 20 Degree						
			3-34	Fixture Offset						
19	21	21	35	Fixture Offset 350 Degree	Snap	0				
			36	Synchronized	<u> </u>					
			37-100	No Function	7					
			101–120	Random Fixtures						
			121-140	Random Duration	7					
			141-255	Random Pixels	7					

Standard	Pixels	Extended	Va	alue	Function	Fade Status	Default Value
			RGI	BW Pix	el Control		
20	20 22	22 22	Red	Red	Fade	255	
20		22	0-	255	$0 \rightarrow 100\%$	raue	233
21	23	23			Green	Fade	255
21	23	23	0-	255	0 → 100%	raue	233
22	24	24			Blue	Fodo	255
22	24	24	0-	255	0 → 100%	Fade	255
23	25	25			White	Fade	255
23	25	25	0-	255	0 → 100%	raue	255
	26	26			Red 2	Fada	OFF
	26	26	0-	255	0 → 100%	Fade	255
	0.7	0.7			Green 2	-	055
	27	27	0-	255	0 → 100%	Fade	255
	00	00			Blue 2	-	055
	28	28	0-	255	0 → 100%	Fade	255
	00	00			White 2	Fade	055
	29	29	0-	255	0 → 100%		255
	00	00			Red 3		055
	30	30	0-	255	0 → 100%	Fade	255
	0.4	0.4			Green 3	-	055
	31	31	0 -	255	0 → 100%	Fade	255
	00	00			Blue 3		055
	32	32	0-	255	0 → 100%	Fade	255
	00	00			White 3		055
	33	33	0 -	255	0 → 100%	Fade	255
	0.4	0.4			Red 4	Fade	055
	34	34	0-	255	0 → 100%		255
	0.5	0.5			Green 4	F	055
	35	35	0-	255	0 → 100%	Fade	255
	00	00			Blue 4	Fade	055
	36	36	0-	255	0 → 100%		255
	0.7	07			White 4	Fade	055
	37	37	0-	255	0 → 100%		255

Standard	Pixels	Extended	Value	Function	Fade Status	Default Value
			RGBW Pix	cel Control	·	
	38	38		Red 5	Fade	255
	30	36	0-255	0 → 100%	raue	255
	39	39		Green 5	Fade	255
	39	39	0-255	0 → 100%	raue	255
	40	40		Blue 5	Fada	255
	40	40	0-255	0 → 100%	Fade	255
	41	41		White 5	Fada	255
	41	41	0-255	0 → 100%	Fade	255
	42	42		Red 6	Fada	255
	42	42	0-255	0 → 100%	Fade	255
	43	43		Green 6	Fada	255
	43	43	0-255	0 → 100%	Fade	
	44	44		Blue 6	Fada	255
	44	44	0-255	0 → 100%	Fade	
	45	45		White 6	Fado	055
	43	45	0-255	0 → 100%	Fade	255
	46	46		Red 7	Fada	255
	40	46	0-255	0 → 100%	Fade	255
	47	47		Green 7	- Cada	255
	47	47	0-255	0 → 100%	Fade	255
	40	40		Blue 7	Fods	255
	48	48	0-255	0 → 100%	Fade	255
	40	40		White 7	Fods	255
	49	49	0-255	0 → 100%	Fade	255

Standard	Pixels	Extended	SparkLED	Value	Function	Fade Status	Default Value
	1	-		SparkLED	Control	•	
SparkLED is	not available	as a mode in the	e fixture menu bu	t must be provide	ed as a console control profile for easy programming	of the fixtur	e. Use the
Rayzor	760 in Extende				V Pixels and SparkLED fixtures on your control syste Guidelines section for further instructions.	m to access	all 80
		Chamileis.	Occ the Lighting	CONSOIC T ALCIT	STROBE		
				0-31	Shutter CLOSED	-	
				32-63	Shutter OPEN	-	
				64-95	Strobe SLOW to FAST	-	
24	50	50		96-127	FAST Close, SLOW Open	Snap	50
				128-159	FAST Open, SLOW Close		
				160-191	Pulse Effects		
				192-223	Random Strobe ALL SLOW to FAST		
				224-254	Random Strobe Pixels SLOW to FAST		
				255	Sync Dimmer and Strobe with Main	-	
					DIMMER		_
25	51	51		0-255	0 → 100%	Fade	0
		50			DIMMER FINE	- de	
	52	52		0-255	Fine Dimming	Fade	0
		5 0	4		SparkLED #1 Dimmer	F1-	٥٢٢
		53	1	0-255	0 → 100%	Fade	255
		F.4			SparkLED #2 Dimmer		055
		54	2	0-255	0 → 100%	Fade	255
		55	3		SparkLED #3 Dimmer	Fade	255
		55	3	0-255	0 → 100%	raue	255
		56	4		SparkLED #4 Dimmer	Fade	255
		- 00	'	0-255	0 → 100%	1 440	
		57	5		SparkLED #5 Dimmer	Fade	255
		0.		0-255	0 → 100%	. 440	
		58	6		SparkLED #6 Dimmer	Fade	255
				0-255	0 → 100%	. 440	
		59	7		SparkLED #7 Dimmer	Fade	255
			•	0-255	0 → 100%		
		60	8	0.055	SparkLED #8 Dimmer	Fade	255
				0-255	0 → 100% SparkLED #9 Dimmer		
		61	9	0-255	0 → 100%	Fade	255
				0-233	SparkLED #10 Dimmer		
		62	10	0-255	0 → 100%	Fade	255
				0-233	SparkLED #11 Dimmer		
		63	11	0-255	0 → 100%	Fade	255
				0 200	SparkLED #12 Dimmer		
		64	12	0-255	0 → 100%	Fade	255
				0 200	SparkLED #13 Dimmer	<u> </u>	
		65	13	0-255	0 → 100%	Fade	255
		00	4.4		SparkLED #14 Dimmer	F-2-	055
	66		14	0-255	0 → 100%	Fade	255

Standard	Pixels	Extended	SparkLED	Value	Function	Fade Status	Default Value
				SparkLE) Control		
		67	15		SparkLED #15 Dimmer	Fade	255
		07	07 13		0 → 100%	raue	255
		68	16		SparkLED #16 Dimmer	Fade	255
		00	10	0-255	0 → 100%	raue	233
		69 17		SparkLED #17 Dimmer	Fade	255	
		09	17	0-255	0 → 100%	raue	200
		70	18		SparkLED #18 Dimmer	Fade	255
		70	10	0-255	0 → 100%	rade	255
		71	10		SparkLED #19 Dimmer	Fada	255
		71	19	0-255	0 → 100%	Fade	255
		70	20		SparkLED #20 Dimmer	- Codo	OFF
		72	20	0-255	0 → 100%	Fade	255
		70	70 04		SparkLED #21 Dimmer	Fade	255
		73	21	0-255	0 → 100%		
		7.4	00		SparkLED #22 Dimmer	- F. J.	255
		74	22	0-255	0 → 100%	Fade	
		7.5	00		SparkLED #23 Dimmer	F. J.	055
		75	23	0-255	0 → 100%	Fade	255
		70	0.4		SparkLED #24 Dimmer	l ₋ .	055
		76	24	0-255	0 → 100%	Fade	255
		77	0.5		SparkLED #25 Dimmer		055
		77	25	0-255	0 → 100%	Fade	255
		70	00		SparkLED #26 Dimmer	l ₋ .	055
		78	26	0-255	0 → 100%	Fade	255
		70	07		SparkLED #27 Dimmer	 	055
		/9	79 27		0 → 100%	Fade	255
		00	00		SparkLED #28 Dimmer	 	055
		80	28	0-255	0 → 100%	Fade	255

CC	COLOR TEMPERATURE CONTROL TABLE						
Color Temperature	DMX Value	Color Temperature	DMX Value	Color Temperature	DMX Value		
2000	11	4700	65	7400	119		
2050	12	4750	66	7450	120		
2100	13	4800	67	7500	121		
2150	14	4850	68	7550	121		
2200	15	4900	69	7600	123		
2250	16	4950	70	7650	123		
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	25 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 8450	139		
3050	32	5750	86		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 40	6100	93	8800	147		
3450		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 3750	45 46	6400 6450	99	9100 9150	153 154		
	46		100				
3800	47 48	6500	101	9200	155		
3850 3900		6550	102	9250	156		
3900	49 50	6600 6650	103 104	9300 9350	157 158		
4000	50 51	6700	104	9400	158		
4050	52	6750	106	9450	160		
4100	53	6800	107	9500	161		
4150 4200	54 55	6850	108	9550	162		
4200	55 56	6900	109 110	9600	163		
	56 57	6950		9650	164		
4300	57 59	7000	111	9700	165		
4350	58	7050	112	9750	166		
4400	59	7100	113	9800	167		
4450	60	7150	114	9850	168		
4500	61	7200	115	9900	169		
4550	62	7250	116	9950	170		
4600	63	7300	117	10000	171		
4650	64	7350	118				

FX GENERATOR GUIDELINES

Selection and control of the integrated FX on the PROTUES RAYZOR 760 is found in the Main Fixture section. All FX are available even in the smallest DMX control modes. (see below)

Value	Function
	RGBW FX (See Table)
0-255	FX Selection 1 -255
	RGBW FX Speed
0–126	Rev Fast to Slow
127–128	Stop
129–255	Slow to Fast
	SparkLED FX (See Table)
0-255	FX Selection 1 -255
	SparkLED FX Speed
0–126	Rev Fast to Slow
127–128	Stop
129–255	Slow to Fast

FX for RGBW and SparkLED contain a selection channel to recall the desired pattern. The pattern direction and speed is then adjusted using the associated Speed channels. FX can run forward or reverse and can also be frozen at any time by using "Stop". The FX tables show 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 steppy 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. (see below)

Sinewave (default)	\bigcirc
Step	
Sawtooth	\searrow
Ramp Up	→
Ramp Down	<u></u>

FX GENERATOR GUIDELINES

In addition to FX direction and speed control, a Sync channel allows to offset or randomize the fixtures or the FX steps. (see below)

Value	Function
	FX Offset
0	NO Sync
1	Fixture Offset 10 Degree
2	Fixture Offset 20 Degree
3-34	Fixture Offset
35	Fixture Offset 350 Degree
36	Synchronized
37-100	NO Function
101–120	Random Fixture Offset
121-140	Random Pixel Order
141-255	Random Steps

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 and reselect the desired random option.

The FX system of the PROTEUS RAYZOR 760 allows many different combinations by changing the curves, offsets and speed parameters. The RGBW and SparkLED systems are separate, and by adjusting color, dimming and strobe channels there are endless creative designs possible.

	RGBW FX TABLE						
Туре	Slot	DMX	Name	FX Adjustment			
	0	0	OFF				
	1	1	Sinewave (default)				
	2	2	Step				
Waveform	3	3	Sawtooth				
	4	4	Ramp Up				
	5	5	Ramp Down				
	6-10	6-10	No Function				

	RGBW FX TABLE						
Туре	Slot		Name	FX Adjustment			
		REVIS	ED WITH SOFTWARE UPDATE VE	ERSION ≥1.2.2			
	0	0	OFF				
	1	1	Sinewave Cross (default)				
	2	2	Sinewave Full				
	3	3	Sawtooth Cross				
Waveform	4	4	Sawtooth Full				
	5	5	Ramp Up				
	6	6	Ramp Down				
	7	7	Step				
	8-10	8-10	No Function				

RGBW FX TABLE					
Type	Slot	DMX	Name	FX Adjustment	
	11	11	Single	Reverse, Stop, Forward	
	12	12	Single Bounce	Reverse, Stop, Forward	
	13	13	Snake	Reverse, Stop, Forward	
	14	14	Snake Bounce	Reverse, Stop, Forward	
	15	15	Rows	Reverse, Stop, Forward	
	16	16	Rows Bounce	Reverse, Stop, Forward	
	17	17	Column	Reverse, Stop, Forward	
	18	18	Column Bounce	Reverse, Stop, Forward	
	19	19	Columns 2	Reverse, Stop, Forward	
	20	20	Slash	Reverse, Stop, Forward	
	21	21	Backslash	Reverse, Stop, Forward	
	22	22	Slash Back	Reverse, Stop, Forward	
	23	23	<>	Reverse, Stop, Forward	
	24	24	><	Reverse, Stop, Forward	
	25	25	>>	Reverse, Stop, Forward	
	26	26	<<	Reverse, Stop, Forward	
	27	27	Rotating Bar	Reverse, Stop, Forward	
	28	28	Rotating Dot	Reverse, Stop, Forward	
	29	29	Rotating 2 Dot	Reverse, Stop, Forward	
	30	30	Ring 2 Cell	Reverse, Stop, Forward	
	31	31	Ring 2 Cell Overlap	Reverse, Stop, Forward	
	32	32	Ring 3 Cell Blend	Reverse, Stop, Forward	
ty	33	33	Ring - Center Fade	Reverse, Stop, Forward	
JSi	34	34	X - Bar	Reverse, Stop, Forward	
Intensity	35	35	Diagonals	Reverse, Stop, Forward	
<u>u</u>	36	36	Arrow Left	Reverse, Stop, Forward	
	37	37	Arrow Right	Reverse, Stop, Forward	
	38	38	2 Pixels	Reverse, Stop, Forward	
	39	39	3 Pixels	Reverse, Stop, Forward	
	40	40	4 Pixels	Reverse, Stop, Forward	
	41	41	1,2,3,4 pixels	Reverse, Stop, Forward	
	42	42	Ring Build	Reverse, Stop, Forward	
	43	43	Ring Build Erase	Reverse, Stop, Forward	
	44	44	Ring Build Erase 2	Reverse, Stop, Forward	
	45	45	Chase 1	Reverse, Stop, Forward	
	46	46	Chase 2	Reverse, Stop, Forward	
	47	47	Chase 3	Reverse, Stop, Forward	
	48	48	Chase 4	Reverse, Stop, Forward	
	49	49	Chase 5	Reverse, Stop, Forward	
	50	50	Chase 6	Reverse, Stop, Forward	
	51	51	Chase 7	Reverse, Stop, Forward	
	52	52	Chase 8	Reverse, Stop, Forward	
	53	53	Chase 9	Reverse, Stop, Forward	
	54	54	Chase 10	Reverse, Stop, Forward	
	55-59	55-59	No Function	No Function	
	60	60	Center Chase	Reverse, Stop, Forward	
	61	61	Center Chase 2	Reverse, Stop, Forward	
	62-100	62-100	No Function	No Function	

	RGBW FX TABLE					
Туре	Slot	DMX	Name	FX Adjustment		
	REVISED WITH SOFTWARE UPDATE VERSION ≥1.2.2					
	55	55	Center Chase	Reverse, Stop, Forward		
	56	56	Center Chase 2	Reverse, Stop, Forward		
ity	57	57	Alternate	Reverse, Stop, Forward		
Intensity	58	58	Burst SparkLED	Reverse, Stop, Forward		
<u>I</u>	59	59	Burst RGBW	Reverse, Stop, Forward		
	60	60	Strobe Alternate	Reverse, Stop, Forward		
	62	62	Lens/SparkLED Alternate	Reverse, Stop, Forward		
	66-100	66-100	No Function	No Function		
	101	101	Top 2	Disabled		
	102	102	Center 3	Disabled		
	103	103	Bottom 2	Disabled		
	104	104	Top and Bottom	Disabled		
ns	105	105	X	Disabled		
ter	106	106	Ring	Disabled		
Static Patterns	107	107	Center Dot	Disabled		
С П	108	108	Slash	Disabled		
ati	109	109	Backslash	Disabled		
St	110	110	Arrow Left	Disabled		
	111	111	Arrow Right	Disabled		
	112	112	<	Disabled		
	113	113	>	Disabled		
	114-130	114-130	No Function	No Function		

	RGBW FX TABLE					
Туре	Slot	DMX	Name	FX Adjustment		
	131-255	131-255	No Function	No Function		
		REVIS	ED WITH SOFTWARE UPDATE VI	ERSION ≥1.2.2		
	131	131	RGBW Cells	Reverse, Stop, Forward		
	132	132	RGBWCMY Cells	Reverse, Stop, Forward		
	133	133	Color Wheel Cells	Reverse, Stop, Forward		
	134	134	RGBW Rows	Reverse, Stop, Forward		
	135	135	RGBWCMY Rows	Reverse, Stop, Forward		
	136	136	Color Wheel Rows	Reverse, Stop, Forward		
	137	137	RGBW Columns	Reverse, Stop, Forward		
	138	138	RGBWCMY Columns	Reverse, Stop, Forward		
	139	139	Color Wheel Columns	Reverse, Stop, Forward		
	140	140	RGBW Single Row	Reverse, Stop, Forward		
	141	141	RGBWCMY Single Row	Reverse, Stop, Forward		
	142	142	Color Wheel Single Row	Reverse, Stop, Forward		
	143	143	RGBW Single Columns	Reverse, Stop, Forward		
	144	144	RGBWCMY Single Columns	Reverse, Stop, Forward		
	145	145	Color Wheel Single Columns	Reverse, Stop, Forward		
ō	146	146	RGB Rows	Reverse, Stop, Forward		
Color	147	147	RGB Columns	Reverse, Stop, Forward		
O	148	148	Red White Cells	Reverse, Stop, Forward		
	149	149	Green White Cells	Reverse, Stop, Forward		
	150	150	Blue White Cells	Reverse, Stop, Forward		
	151	151	Red Green Cells	Reverse, Stop, Forward		
	152	152	Red Blue Cells	Reverse, Stop, Forward		
	153	153	Blue Green Cells	Reverse, Stop, Forward		
	154	154	Ring - Center Mix to Color Wheel	Reverse, Stop, Forward		
	155	155	Random White Cell	Reverse, Stop, Forward		
	156	156	Random White Row	Reverse, Stop, Forward		
	157	157	Random White Column	Reverse, Stop, Forward		
	158	158	White Flash	Reverse, Stop, Forward		
	159	159	Red Flash	Reverse, Stop, Forward		
	160	160	Green Flash	Reverse, Stop, Forward		
	161	161	Blue Flash	Reverse, Stop, Forward		
	162	162	Color Wheel Flash	Reverse, Stop, Forward		
	163	163	Alternate Color	Reverse, Stop, Forward		
	164-255	164-255	No Function	No Function		

SparkLED FX TABLE					
Type Slot DMX			Name	FX Adjustment	
	0	0	OFF		
	1	1	Sinewave (default)		
	2	2	Step		
Waveform	3	3	Sawtooth		
	4	4	Ramp Up		
	5	5	Ramp Down		
	6-10	6-10	No Function		

SparkLED FX TABLE					
Туре	Slot	DMX	Name	FX Adjustment	
	REVISED WITH SOFTWARE UPDATE VERSION ≥1.1.1				
	0	0	OFF		
	1	1	Sinewave Cross (default)		
	2	2	Sinewave Full		
	3	3	Sawtooth Cross		
Waveform	4	4	Sawtooth Full		
	5	5	Ramp Up		
	6	6	Ramp Down		
	7	7	Step		
	8-10	8-10	No Function		

SparkLED FX TABLE					
Type	Slot	DMX	Name	FX Adjustment	
	11	11	Starfield	Reverse, Stop, Forward	
	12	12	1 Pixel	Reverse, Stop, Forward	
	13	13	2 Pixels	Reverse, Stop, Forward	
	14	14	3 Pixels	Reverse, Stop, Forward	
	15	15	4 pixels	Reverse, Stop, Forward	
	16	16	5 pixels	Reverse, Stop, Forward	
	17	17	7 pixels	Reverse, Stop, Forward	
	18	18	14 pixels	Reverse, Stop, Forward	
Ϋ́	19	19	Single Row	Reverse, Stop, Forward	
<u>Q</u>	20	20	3 Rows	Reverse, Stop, Forward	
SparkLED FX	21	21	Single Column	Reverse, Stop, Forward	
호	22	22	3 Column	Reverse, Stop, Forward	
Ö	23	23	Pixel Ring Chase	Reverse, Stop, Forward	
0,	24	24	Pixel Row Chase Reverse, Stop, Forward Revers		
	25	25	Pixel Ring Chase 2	Reverse, Stop, Forward	
	26	26	Center Out	Reverse, Stop, Forward	
	27	27	Fireworks	Reverse, Stop, Forward	
	28	28	Ring	Reverse, Stop, Forward	
	29	29	Row	Reverse, Stop, Forward	
	30	30	Snake	Reverse, Stop, Forward	
	31-90	31-90	No Function	No Function	
	91	91			
	92	92			
S	93	93			
U de	94	94			
Ê.	95	95	No Francisco	No Evention	
a di	96	96	No Function	No Function	
SparkLED ens Combos	97	97			
T a	98	98			
	99	99			
	100	100			

SparkLED FX TABLE				
pe	Slot	DMX	Name	FX Adjustment
-	101	101	Single	Reverse, Stop, Forward
	102	102	Single Bounce	Reverse, Stop, Forward
	103	103	Snake	Reverse, Stop, Forward
	104	104	Snake Bounce	Reverse, Stop, Forward
	105	105	Rows	Reverse, Stop, Forward
	106	106	Rows Bounce	Reverse, Stop, Forward
	107	107	Column	Reverse, Stop, Forward
	108	108	Column Bounce	Reverse, Stop, Forward
	109	109	Columns 2	Reverse, Stop, Forward
_	110	110	Slash	Reverse, Stop, Forward
	111	111	Backslash	Reverse, Stop, Forward
	112	112	Slash Back	Reverse, Stop, Forward
9	113	113	<>	Reverse, Stop, Forward
	114	114	><	Reverse, Stop, Forward
	115	115	>>	Reverse, Stop, Forward
	116	116	<<	Reverse, Stop, Forward
	117	117	Rotating Bar	Reverse, Stop, Forward
:	118	118	Rotating Dot	Reverse, Stop, Forward
)	119	119	Rotating 2 Dot	Reverse, Stop, Forward
5	120	120	Ring 2 Cell	Reverse, Stop, Forward
)	121	121	Ring 2 Cell Overlap	Reverse, Stop, Forward
	122	122	Ring 3 Cell Blend	Reverse, Stop, Forward
	123	123	Ring - Center Fade	Reverse, Stop, Forward
	124	124	X - Bar	Reverse, Stop, Forward
	125	125	Diagonals	Reverse, Stop, Forward
	126	126	Arrow Left	Reverse, Stop, Forward
_	127	127	Arrow Right	Reverse, Stop, Forward
	128	128	2 Pixels	Reverse, Stop, Forward
	129	129	3 Pixels	Reverse, Stop, Forward
	130	130	4 Pixels	Reverse, Stop, Forward
	131	131	1,2,3,4 pixels	Reverse, Stop, Forward
	132	132	Ring Build	Reverse, Stop, Forward
	133	133	Ring Build Erase	Reverse, Stop, Forward
	134	134	Ring Build Erase 2	Reverse, Stop, Forward
	135	135	Chase 1	Reverse, Stop, Forward
	136	136	Chase 2	Reverse, Stop, Forward
	137	137	Chase 3	Reverse, Stop, Forward
	138	138	Chase 4	Reverse, Stop, Forward
	139	139	Chase 5	Reverse, Stop, Forward
	140	140	Chase 6	Reverse, Stop, Forward
	141	141	Chase 7	Reverse, Stop, Forward
	142	142	Chase 8	Reverse, Stop, Forward
-	143	143	Chase 9	Reverse, Stop, Forward
	144	144	Chase 10	Reverse, Stop, Forward
	145	145	Center Chase	Reverse, Stop, Forward
	146	146	Center Chase 2	Reverse, Stop, Forward
	147-200	147-200	No Function	No Function
	147-200	147-200	INO FUNCTION	INO FUNCTION

SparkLED FX TABLE					
Туре	Slot	DMX	Name	FX Adjustment	
	201	201	Top 2	Disabled	
Full Lens Static Patterns (all SparkLEDs in lens turn on together)	202	202	Center 3	Disabled	
JS get	203	203	Bottom 2	Disabled	
Full Lens Static Patterns parkLEDs in lens turn on toge	204	204	Top and Bottom	Disabled	
att	205	205	X	Disabled	
E P	206	206	Ring	Disabled	
atic ns	207	207	Center Dot	Disabled	
Sta	208	208	Slash	Disabled	
ns s ir	209	209	Backslash	Disabled	
Le le	210	210	Arrow Left	Disabled	
트록	211	211	Arrow Right	Disabled	
Fi	212	212	<	Disabled	
=	213	213	>	Disabled	
<u> </u>	214-225	214-225	No Function	No Function	
	226	226	Row 1	Disabled	
	227	227	Row 2	Disabled	
	228	228	Row 3	Disabled	
	229	229	Row 4	Disabled	
	230	230	Row 5	Disabled	
٦	231	231	Row 6	Disabled	
ite.	232	232	Row 7	Disabled	
Jat	233	233	Column 1	Disabled	
	234	234	Column 2	Disabled	
쁘	235	235	Column 3	Disabled	
Ž	236	236	Column 4	Disabled	
SparkLED Pattern	237	237	Column 5	Disabled	
(O)	238	238	Column 6	Disabled	
	239	239	Column 7	Disabled	
	240	240	Ring 1	Disabled	
	241	241	Ring 2	Disabled	
	242	242	Ring 3	Disabled	
	243-255	243-255	No Function	No Function	

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 "0Er" 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 "01Er", "02Er", and "05Er" flash repeated 5 times.

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

3 or More Errors - The fixture cannot function properly with three or more errors therefore the fixture will place itself in a stand-by mode until subsequent repairs can be made.

Less Than 3 Errors - The fixture has less than 3 errors; therefore, most other functions will work properly. The fixture will attempt to operate normally until the errors can be correct by a technician. The errors in question will remain flashing in the display as a reminder of internal errors.

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

SPECIFICATIONS

SOURCE

(7) 60W Osram RGBW LEDs (28) 2W White SparkLED™ 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

7,200 Total Lumen Output

CRI 80

Zoom Range 5° - 77° Beam Angle 5.4° - 56.4° Field Angle 8.1° - 74°

EFFECTS

Motorized Zoom

Linear Color Temperature Presets (2700-8000K)

RGBW Color Mixing and Pixel Control

White SparkLED Lens Effect

Color Presets and Macros

Electronic Strobe and Variable Dimming Curves

16-bit Dimming

CONTROL / CONNECTIONS

3 DMX Channel Modes (25 / 52 / 80 channels)

360° Continuous Pan and Tilt Movement

DMX Adjustable Refresh Rate (900 -25000 Hz)

(6) Button Touch Panel

Full Color 180° Reversible LCD Menu Display

RDM Support

IP65 5pin XLR DMX In/Out

IP65 RJ45 Ethernet In/Out (Art-Net, sACN)

IP65 Locking Power Cable In

With Wired Digital Communication Network

SIZE / WEIGHT

Length: 14.31 in (363.4mm) Width: 10.24 in (259.97mm) Height: 19.43 in (493.44mm) Weight: 41.0 lbs. (18.6kg)

ELECTRICAL / THERMAL

AC 100-240V 50/60Hz

700W Max Power Consumption

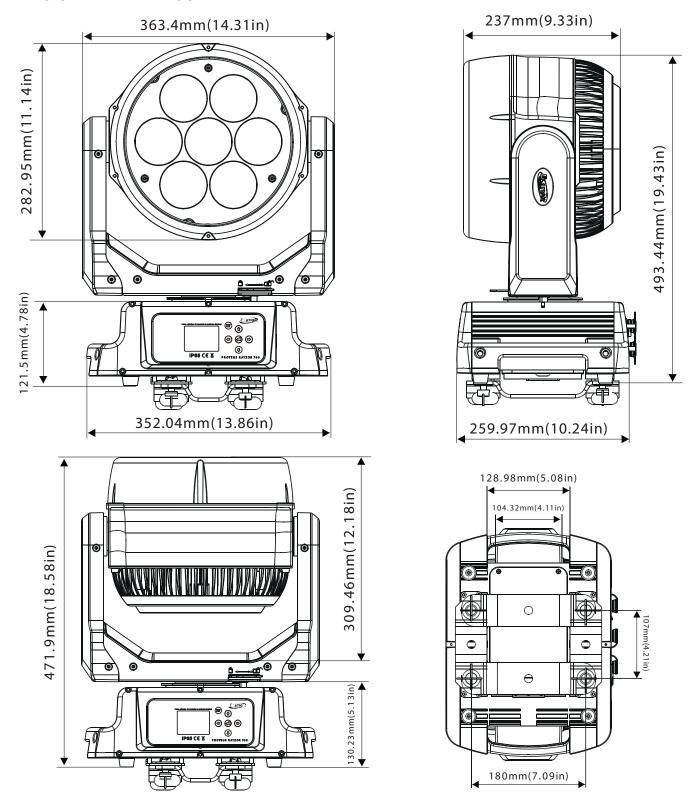
BTU/hr (+/- 10%) 2387

APPROVALS / RATINGS



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

DIMENSIONAL DRAWINGS



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

OPTIONAL ACCESSORIES

ORDER CODE	ITEM	
IP TESTER	IP Fixture Vacuum and Pressure Leak Tester	
TRIGGER CLAMP	Heavy Duty Wrap Around Hook Style Clamp	
STR527	5 ft. (1.5m) IP65 Seetronic 5pin XLR 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 determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device 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.

Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)

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

