





 $\begin{array}{c} P \ R \ O \ T \ E \ U \ S^{\scriptscriptstyle m} \\ R \ A \ Y \ Z \ O \ R \ 760 \end{array}$ 

user manual

©2019 ELATION PROFESSIONAL all rights reserved. Information, specifications, diagrams, images, and instructions herein are subject to change without notice. ELATION PROFESSIONAL logo and identifying product names and numbers herein are trademarks of ELATION PROFESSIONAL. Copyright protection claimed includes all forms and matters of copyrightable materials and information now allowed by statutory or judicial law or hereinafter granted. Product names used in this document may be trademarks or registered trademarks of their respective companies and are hereby acknowledged. All non-ELATION brands and product names are trademarks or registered trademarks of their respective companies.

**ELATION PROFESSIONAL** and all affiliated companies hereby disclaim any and all liabilities for property, equipment, building, and electrical damages, injuries to any persons, and direct or indirect economic loss associated with the use or reliance of any information contained within this document, and/or as a result of the improper, unsafe, insufficient and negligent assembly, installation, rigging, and operation of this product.

**Elation Professional USA** | 6122 S. Eastern Ave. | Los Angeles, CA. 90040 323-582-3322 | 323-832-9142 fax | www.elationlighting.com | info@elationlighting.com

**Elation Professional B.V.** | Junostraat 2 | 6468 EW Kerkrade, The Netherlands +31 45 546 85 66 | +31 45 546 85 96 fax | www.elationlighting.eu | info@elationlighting.eu

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

### DOCUMENT VERSION



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

Date	Document Version	Software Version ≥	DMX Channel 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.

## CONTENTS

General Information	4
Warranty Returns (USA Only)	5
Safety Guidelines	6
Maintenance Guidelines	8
Fixture Overview	9
Installation Guidelines	10
System Menu	15
Lighting Console Patching Guidelines	23
DMX Channel Functions and Values	28
Color Temperature Control Table	39
FX Generator Guidelines	40
RGBW Pixel FX Table	42
SparkLED FX Table	47
Error Codes	52
Specifications	53
Optional Accessories	55

# 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 high-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!) Neutrik powerCON TRUE1 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



#### 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 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. powerCON TRUE1 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)

MAXIMUM TEMPERATURE OF EXTERNAL SURFACE 185° F (85°C)



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

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

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

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

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 <sup>1</sup>/<sub>4</sub> 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. (see illustration below)

SYSTEM MENU LCD DISPLAY



#### **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/ETHERCON 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.

#### 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.



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.

Supports Software Versions 2 1.2.1           France detection (Exclusion Subject to change advocation and part Te setting:           MAIN MENU           Sub Exclusion direction detection and Part Te setting:           MAIN MENU           Sub Exclusion direction and Part Te setting:           Direction direction direction direction and Part Te setting:           Direction			ELATION PROTE	US RAYZOR 760™		
Subplicits Solutivation Solution S						
Main Menu         SUB MENU         OPTIONS / VALUES (befau) Settings in BOLD         DESCRIPTION           FUNCTION         Set Om: Address         A001-A00X         DMX Value Display           Stave Mode         Siluer, Slaves,			Supports Softwar			
MAIN MENU         SUB MENU         OPTIONS / VALUES (Default Settings in BOLD)         DESCRIPTION           FUNCTION         Set Dmx Address         A001-AXXX         DMX Value Display           Stave Mode         ALL         DMX Value Display           Stave Mode         Stave1, Stave2, Stave3         Stave Setting           Auto Program         Master / Alone         Auto Program           Auto Program         Current Time         XXXX (Hours)         Fixture Total Run Time           Time Information         Tast Run Time         XXXX (Hours)         Fixture Total Run Time           LED Temperature         DEST RUN Password         Password-0638         (PSW) Required)           Clear Last Run         ON / OFF         Clear Fixture Total Run Time         Element Run           Humidity Info         Head Humidity         XXX 6' / F *         Temperature in Fixture Head           Base Temperature         XXX C' / F *         Temperature in Fixture Head           Base Temperature         XXX 6' / F *         Temperature in Fixture Head           Base Temperature         XXX 6' / F *         Temperature in Fixture Base           Humidity Info         Head Humidity         XXX 6'         Humidity In Base           Ethernet IP         000.000.000         000.000.000         Display Set		*Rotation direction (Clockwis	se/Counterclockwise) and contro	change without notice. In of effects depends on head orien	tation and Pan/Tilt settings.	
FUNCTION         Set Draw Address         A001-A00X         Disk of the set of the	MAIN MENU	SUB MENU	OPTIONS / VALUES (Default Settings in BOLD) DESCRIDT			
FUNCTION         Disk Value         ALL         DMX Value Diplay           Stave Mode         Stave1, Stave2, Stave3         Stave Setting,           Auto Program         Master / Alone         XXXX (Hours)         Fixture Num Time Prom Power ON           Time Information         Last Run Time         XXXX (Hours)         Fixture Total Run Time           Time Information         Last Run Time         XXXX (Hours)         Fixture Total Run Time           Les Tum Time         XXXX (Hours)         Fixture Istal Run Time         Time Information           Les Tum Time         XXXX (*) F *         Temperature In Fixture Haad         Temperature Informere Time           Humidity Info         Base Temperature         XXX (*) F *         Temperature In Fixture Base           Humidity Info         Base Humidity         XX%         Humidity In Base           Ethernet IP         000.000.000         000.000.000         Displays Fixture Ethernet Address           Software Version         Tim Cerror Record 10         Fixture Statu When ND XX         Software Version           Software Version         Tim Cerror Record 10         Fixture Statu When ND XX Signal           Pan Reverse         ON/OFF         Ten Reverse Movement           Far Info         Error Record 10         Fixture Statu When ND XX Signal		Set Dmx Address	A001~AXXX		DMX Address Setting	
FUNCTION         Stave Mode         Silve 5 Silve 3. Silve 3. Silve 3. Silve 5 Sitting 5.           Auto Program         Master / Alone         Auto Program           Current Time         XXXX (Hours)         Fixture Run Time From Power ON           Time Information         Total Run Time         XXXX (Hours)         Fixture Last Run Time           LastRun Time         XXXX (Hours)         Fixture Last Run Time         Clear Last Run Time           LastRun Time         XXXX (*/ F*         Temperature in LEDs         Temperature in Fixture Last Run Time           LED Temperature         XXX (*/ F*         Temperature in Fixture Head         Base Temperature         XXX (*/ F*         Temperature in Fixture Head           Humidity Info         Head Temperature         XXX (*/ F*         Temperature in Fixture Base         Temperature in Fixture Base           Humidity Info         Head Humidity         XX%         Humidity in Base         Software Version         Total -2 (Standby, Fault)           Fixture State Memoria         Time Record 10         Fixture Base Standby         Software Version         Address via DMX           No DMX Status         Olicoper Oxiou.000.000.000         OWOFF         Pan Reverse Movement           Fixture State When NO DMX Signal         Pan Reverse         ON/OFF         Pan Reverse Movement           Pan De		Dmx Value	ALL		DMX Value Display	
Auto Program         Master / Alone         Auto Program           Current Time         XXXX (Hours)         Fixture Run Time From Power ON           Time Information         Last Run Time         XXXX (Hours)         Fixture Total Run Time           Last Run Time         XXXX (Hours)         Fixture Total Run Time         Fixture Total Run Time           Last Run Time         XXXX (+Furs)         Fixture Last Run Time         Fixture Last Run Time           LED Temperature Info         Base Temperature         XXXX (-7 F * Temperature in Fixture Base           Humidity Info         Base Temperature         XXXX (-7 F * Temperature in Fixture Base           Humidity Info         Base Humidity         XX%         Humidity in Base           Ethernet IP         000.000.000         Displays Fixture Ethernet Address           Software Version         1U01: - 7U01:         ¥1:2.1         Software Version           Error Info         Error Record 1 - Error Record 10         Fixture Rute When NO DMX Signal           No DMX Status         Close / Hold / Auto         Fixture When NO DMX Signal           Pan Reverse         ON/OFF         Till Reverse Movement           Till Reverse         ON/OFF         Till Reverse Movement           Till Reverse         ON/OFF         Till Reverse Movement           Till	FUNCTION	Slave Mode	Slave1, Slave2, Slave	3	Slave Setting	
PERSONALTO         Current Time         XXXX (Hours)         Fixture Total Fun Time From Power ON Total Fun Time           INFORMATION         Time Information         Total Fun Time         XXXX (Hours)         Fixture Last Run Time           Last Run Time         XXXX (Hours)         Fixture Last Run Time         Last Run Time           Last Run Time         XXXXX (Hours)         Fixture Last Run Time         PSWD Required)           Last Run Time         XXXXX (F0 rs*         Temperature In EDs         Temperature In EDs           Temperature Info         Head Temperature         XXX (* / F *         Temperature In Fixture Base           Humidity Info         Head Humidity         XX% (* / F *         Temperature In Fixture Base           Humidity Info         Head Funni-G, BaseFan1 / 2 (Standby, Fault)         RPM Speeds of Head/Base Fans           Software Version         1001: - 7001 :         > V1.2.1         Software Version           Software Version         1001: - 7001 :         > V1.2.1         Software Version           No DMX Status         Close / Heid / Andress Via DMX         Address Via DMX           No DMX Status         Close / Heid / Pan         Pan Reverse ON/OFF           Tilt Reverse         ON/OFF         Pan Reverse Movement           Pan Tilt Path         Software Version         Pan Tilt Path </td <td></td> <td>Auto Program</td> <td>Master / Alone</td> <td></td> <td>Auto Program</td>		Auto Program	Master / Alone		Auto Program	
Time Information         Total Run Time         XXXX (Hours)         Fixture Last Run Time           Last Run Time         XXXX (Hours)         Fixture Last Run Time           Last Run Time         XXXX (Hours)         Fixture Last Run Time           Last Run Time         XXXX (Hours)         Fixture Last Run Time           Last Run Time         XXXX (Y F *)         Temperature ILDS           Temperature Info         Head Temperature         XXX (Y F *)         Temperature InFiture Base           Humidity Info         Base Temperature         XXX (Y F *)         Temperature InFiture Base           Humidity Info         Base Humidity         XX%         Humidity In Base           Ethernet IP         000.000.000         00000.000         Displays Fiture Ethernet Address           Software Version         Error Record 1 - Error Record 10         Fiture Last 10 Error Codes           Software Version         No DMX Status         Close / Hold / Auto         Fiture State When NO DMX Signal           Pan Reverse         ON/OFF         Pan Reverse Movement         Tilt Begree         360/270 C           Tilt Degree         360/270 C         Tilt Path Mode         Feedback           LED Degree Change         0 / 180         LED Degree Change         Mode           Password         Password-030 <td></td> <td>Ŭ.</td> <td>Current Time</td> <td>XXXX (Hours)</td> <td>Fixture Run Time From Power ON</td>		Ŭ.	Current Time	XXXX (Hours)	Fixture Run Time From Power ON	
Filter         Last Run Time         XXXX (Hours)         Fitture Last Run Time           Last Run 2000         Clear Last Run         ON / OFF         Clear Fixture Last Run Time           LED Temperature         XXX C' / F °         Temperature in LEDs           Temperature Info         LED Temperature         XXX C' / F °         Temperature in Fixture Base           Humidity Info         Base Temperature         XXX C' / F °         Temperature in Fixture Base           Humidity Info         Base Humidity         XXX %         Humidity In Base           Ethernet IP         000.000.000         000.000.000         Displays Fixture Ethernet Address           Software Version         1001: - 7U01:         2V1.2.1         Software Version           For / Info         Error Record 1 - Error Record 10         Fixture Etate When ND DMX Signal           Pan Revrse         ON/OFF         Pan Revrse No NOFF           No DMX Status         Close / Hod / Auto         Fixture State When ND DMX Signal           Pan Revrse         ON/OFF         Pan Revrse No NOFF         Pan Revrse No NOFF           Pan Revrse         ON/OFF         More Pan Degree Select         Tilt Degree Select           Tilt Degree         360/540         Pan Degree Select         Pan Tilt Path         Service Select Conage			Total Run Time	XXXX (Hours)	Fixture Total Run Time	
INFORMATION         LastRun Password-O88         (PSWD Required) Clear Last Run O/OFF         Clear Fishure Last Run Time           INFORMATION         Temperature Info         LED Temperature         XXX C' / F °         Temperature in Fixture Head           Base Temperature         XXX C' / F °         Temperature in Fixture Head           Base Temperature         XXX C' / F °         Temperature in Fixture Head           Base Humidity         XX%         Humidity in Head           Base Humidity         XX%         Humidity in Base           Fan Info         HeadFan16, BaseFan12 (2 Standby, Fault)         RPM Speeds of Head/Base Fans           Software Version         1U01: - 7U01:         2V1.2.1         Software Version           Error Info         Error Record 1 - Error Record 10         Fixture Last 10 Error Codes           Address via DMX         ON/OFF         Address via DMX           ND DMX Status         Close / Hold / Auto         Fixture State When NO DMX Signal           Pan Reverse         ON/OFF         Tilt Degree Select         Tilt Degree           Tilt Degree         360/320         Pan Reverse         ON/OFF           Par Degree         360/320         Pan Reverse         No DMX Status           Status Setting         Feedback         ON/OFF         Tilt Degree Select		Time Information	Last Run Time	XXXX (Hours)	Fixture Last Run Time	
INFORMATION         Clear Last Run         ON / OFF         Clear Fixture Last Run Time           Importance Info         LED Temperature MXX C* / F*         Temperature In EXUs           Humidity Info         Head Temperature         XXX C* / F*         Temperature In Fixture Base           Humidity Info         Head Humidity         XX%         Humidity In Base           Ethernet IP         000.000.000         000.000.000         Displays Fixture Ethernet Address           Fan Info         HeadFan1-6, BaseFan1 / 2 (Standby, Fault)         RPM Speeds of Head/Base Fans           Software Version         1101: - 7001:         2V1.2.1         Software Version           Error Record 1         Error Record 10         Fixture Last When NO DMX Signal           No DMX Status         Close / Hoid / Auto         Fixture Last When NO DMX Signal           Pan Reverse         ON/OFF         Pan Reverse Movement           Tilt Reverse         ON/OFF         Tilt Reverse Movement           Pan Digree         360/340         Pan Digree Select           Tilt Reverse         ON/OFF         Pan Tilt Path Mode           Feedback         ON/OFF         Display Reverse           Pan Tilt Path         StorteePath / ContinuePath         Pan Tilt Path Mode           Feedback         ON/OFF         Displ			LastRun Password	Password=038	(PSWD Required)	
INFORMATION         LED Temperature         XXX C* / F *         Temperature in LEDs           Imperature Info         Head Temperature         XXX C* / F *         Temperature in Fixture Head           Humidity Info         Base Temperature         XXX C* / F *         Temperature in Fixture Head           Base Humidity         XX%         Humidity in Head         Humidity in Head           Ethernet IP         000.000.000         000.000.000         Displays Fixture Ethernet Address           Fan Info         HeadFant / 6. BaseFant ?         Status         FMM Speeds of Head/Base Fans           Software Version         1101: -7.001:         2V1.2.1         Software Version           Error Info         Error Record 1         Fixture Last 10 Error Codes           Address via DMX         ON/OFF         Address Via DMX Signal           Pan Reverse         ON/OFF         Pan Reverse Movement           Pan Reverse         ON/OFF         Titt Reverse Movement           Pan Degree         360/240         Pan Teperature Status           Status Setting         Feedback         ON/OFF         Movement Feedback           Feedback         ON/OFF         Hit Reverse Howement         Feedback           Service Setting         Fans Control         Auto, High, Sient         Service Port - Softw			Clear Last Run	ON / OFF	Clear Fixture Last Run Time	
INFORMATION         Temperature Info         Head Temperature Base Temperature         XXX C' / F °         Temperature in Fixture Head           Humidity Info         Base Temperature         XXX C' / F °         Temperature in Fixture Base           Humidity Info         Base Humidity         XX%         Humidity In Base           Ethernet IP         000.000.000         000.000.000         Displays Fixture Ethernet Address           Software Version         1UD1: - YUD1:         2V12.1         Software Version           Error Info         Error Record 1 - Error Record 10         Fixture Last 10 Error Codes           Address via DMX         ON/OFF         Address Via DMX         OM/OFF           No DMX Status         Close / Hold / Auto         Fixture State When NO DMX Signal           Pan Reverse         ON/OFF         Tilk Persees Movement           Tilk Pare Base         Tilk Parese         ON/OFF         Tilk Persees Movement           Pan Reverse         ON/OFF         Tilk Persees Movement         Tilk Degree Select           Tilk Degree         360/270         Tilk Degree Select         Tilk Degree Select           Tilk Degree Change         0/180         EED Degree Change         Pan Severse Movement           Feedback         ON/OFF         Movement Feedback         Dedre PSWD Required)			LED Temperature	XXX C° / <b>F</b> °	Temperature in LEDs	
PERSONALISM         Base Temperature Humidity         XXX C' / F °         Temperature Base           Humidity Info         Head Humidity         XX%         Humidity In Base           Ethernet IP         000.000.000         000.000.000         Displays Fixture Ethernet Address           Software Version         1001 - 7.001:         zV1.2:         RPM Speeds of Head/Base Fans           Software Version         1001 - 7.001:         zV1.2:         Software Version           Error Info         Error Record 1 ~ Error Record 10         Fixture State Vhen NO DMX Signal           Pan Reverse         ON/OFF         Pan Reverse Movement           Tilt Reverse         ON/OFF         Pan Reverse Movement           Pan Degree         360/540         Pan Degree Select           Tilt Degree         360/540         Pan Reverse Movement           Pan Degree         360/540         Pan Degree Select           Tilt Degree         360/540         Pan Reverse Movement           Pan Degree         360/540         Pan Reverse Movement           Pan Degree         360/540         Pan Degree Select           Tilt Degree Change         0/180         LED Degree Change           Hebm UID         2245xxxxxxxx         RDM PID Code (PSWD Required)           Service Setting		Temperature Info	Head Temperature	XXX C° / <b>F</b> °	Temperature in Fixture Head	
Humidity Info         Head Humidity         XX%         Humidity In Base           Ethernet IP         000.000.000         Displays Fixture Ethernet Address           Software Version         HeadFan1-6, BaseFan1 /2 (Standby, Fault)         RPM Speeds of Head/Base Fans           Software Version         1U01: - 2V1.2.1         Software Version           Error Info         Error Record 1 ~ Error Record 10         Fixture Last 10 Error Codes           Address via DMX         ON/OFF         Address Via DMX         OM/OFF           No DMX Status         Close / Hold / Auto         Fixture State When NO DMX Signal           Pan Reverse         ON/OFF         Tilt Reverse Movement           Pan Reverse         ON/OFF         Tilt Reverse Movement           Pan Begree         360/340         Pan Degree Select           Tilt Degree         360/240         Pan Degree Select           Tilt Degree Change         O/ 180         Stand By Mode           Feedback         ON/OFF         Movement Feedback           LED Degree Change         O/ 180         Stand By Mode           Service Setting         RDM UID         22A6xxxxxxx         RDM PID Code (PSWD Required)           Olage Fans Control         Autor, High, Silent         Select Fan Speeds           Fans Control         X			Base Temperature	XXX C° / <b>F</b> °	Temperature in Fixture Base	
PERSONALITY         XX%         Humidity In Base           Ethernet IP         000.000.000         Displays Fixture Ethernet Address           Fin Info         HeadFan1-6, BaseFan1 / 2 (Standby, Fault)         RPM Speeds of Head/Base Fans           Software Version         1001: - 7U01: <b>2V1.2.1</b> Software Version           Error Info         Error Record 1 0         Fixture Last 10 Error Codes           Address via DMX         ON/OFF         Address Va DMX           No DMX Status         Close / Hold / Auto         Fixture State When NO DMX Signal           Pan Reverse         ON/OFF         Pan Reverse Movement           Tilt Reverse         ON/OFF         Pan Reverse Movement           Pan Degree         360/540         Pan Degree Select           Tilt Degree         360/270         Tilt Degree Select           Pan Tilt Path         ShoreenPath / ContinuePath         Pan Tilt Path Mode           Feedback         OW/OFF         Movement Feedback         LED Degree Change           V180         Dudte         YES/NO         Service Pars Morde           Fass Control         Auto, High, Silent         Service Pars Speeds         Service Pars Speeds           Fas Control         Auto, High, Silent         Select Fan Speeds         Select Rore Info (PSWD Required)		Humidity Info	Head Humidity	XX%	Humidity in Head	
Ethernet IP         000.000.000         000.000.000         Displays Fixture Ethernet Address           Fan Info         HeadFan1-6, BaseFan1 / 2 (Standby, Fault)         RPM Speeds of Head/Base Fans           Software Version         1U01: -7U01:         ≥V1.2.1         Software Version           Error Info         Error Record 1 ~ Error Record 10         Fixture Last 10 Error Codes           Address via DMX         ON/OFF         Address Via DMX           No DMX Status         Close / Hold / Auto         Fixture State When NO DMX Signal           Pan Reverse         ON/OFF         Tilt Reverse Movement           Pan Reverse         ON/OFF         Tilt Reverse Movement           Pan Degree         360/270         Tilt Perverse Deverent           Tilt Degree         360/270         Tilt Pagree Select           Tilt Degree Change         0/180         LED Degree Change           Hibernation         OFF, 01M-99M, 15M         Stand By Mode           Service Setting         RDM UID         22405xxxxxx         RDM PID Code (PSWD Required)           UBB Update         YES/NO         Service Port - Software Updates         Service Port - Software Updates           Fans Control         Auto, High, Silent         Select Fan Speeds         Software Updates           Service Setting         Siplay R			Base Humidity	XX%	Humidity In Base	
Fan Info         HeadFan1-6, BaseFan1 / 2 (Standby, Fault)         RPM Speeds of Head/Base Fans           Software Version         1101: - 7U01:         2V1.2.1         Software Version           Error Info         Error Record 1 ~ Error Record 10         Fixture Last 10 Error Codes           Address via DMX         ON/OFF         Address Via DMX           No DMX Status         Close / Hold / Auto         Fixture State When NO DMX Signal           Pan Reverse         ON/OFF         Pan Reverse Movement           Pan Reverse         ON/OFF         Tilt Parese Movement           Pan Tilt Path         ShortestFath / ContinuePath         Pan Tilt Path           Par Tilt Path         ShortestFath / ContinuePath         Pan Tilt Path Mode           Feedback         ON/OFF         Movement Feedback           LED Degree Change         0 / 180         LED Degree Change           Hibernation         OFF, 01M-99M, 15M         Stand By Mode           Service Setting         RDM UID         22A6xxxxxxx         RDM PID Code (PSWD Required)           Clear Err. Info         ON/OFF         Clear Error Info (PSWD Required)           USB Update         YEs/NO         Service Port - Software Updates           Fans Control         Auto, High, Silent         Select Fan Speeds           Funct		Ethernet IP	000.000.000.000	000.000.000.000	Displays Fixture Ethernet Address	
Software Version         1U01: - 7U01:         2V1.2.1         Software Version           Error Info         Error Record 10         Fixture Last 10 Error Codes           Address via DMX         ON/OFF         Address Via DMX           No DMX Status         Close / Hold / Auto         Fixture State When NO DMX Signal           Pan Reverse         ON/OFF         Pan Reverse Movement           Tilt Reverse         ON/OFF         Tilt Reverse Movement           Pan Degree         360/540         Pan Degree Select           Tilt Degree         360/540         Pan Degree Select           Pan Tilt Path         ShortestPath / ContinuePath         Pan Tilt Path Mode           Feedback         ON/OFF         Movement Feedback         ED Degree Change           Hibernation         OFF, 01M~99M, 15M         Stand By Mode         Password           Password         Password         Password=050         Service Pars Volte           RDM UID         22A6xxxxxx         RDM PID Code (PSWD Required)         USB Update           VISB Update         YES/NO         Service Pars - Software Updates           Fans Control         Auto, High, Silent         Select Fan Speeds           Display Setting         Display Reverse         ON/OFF         Display Shut Off Time         Display Sh		Fan Info	HeadFan1-6, BaseFa	n1 / 2 (Standby, Fault)	RPM Speeds of Head/Base Fans	
Error Info         Error Record 1 ~ Error Record 10         Fixture Last 10 Error Codes           Address via DMX         ON/OFF         Address Via DMX           No DMX Status         Close / Hold / Auto         Fixture State When NO DMX Signal           Pan Reverse         ON/OFF         Pan Reverse Movement           Tilt Reverse         ON/OFF         Pan Reverse Movement           Pan Degree         360/540         Pan Degree Select           Pan Tilt Path         Status Settings         Tilt Degree           Pan Degree         360/270         Tilt Degree Select           Pan Tilt Path         StortesPath / ContinuePath         Pan Tilt Path           Feedback         ON/OFF         Movement Feedback           LED Degree Change         0/180         LED Degree Change           Hibernation         OFF, 01M-99M, 15M         Stand By Mode           Service Setting         Clear Erro. Info         ON/OFF         Clear Erro. Info (PSWD Required)           USB Update         YES/NO         Service Port - Software Updates         Service Pasword           Fars Control         Auto, High, Silent         Select Fan Speeds         Select Fan Speeds           Display Setting         Display Reverse 180°         Select Fan Speeds         Select Fan Speeds           Sele		Software Version	1U01: - 7U01:	≥V1.2.1	Software Version	
PERSONALITY         Address via DMX         ON/OFF         Address via DMX           No DMX Status         Close / Hold / Auto         Fixture State When NO DMX Signal           Pan Reverse         ON/OFF         Pan Reverse Movement           Tilt Reverse         ON/OFF         Pan Reverse Movement           Tilt Reverse         ON/OFF         Tilt Reverse Movement           Pan Begree         360/540         Pan Degree Select           Tilt Degree         360/570         Tilt Degree Select           Pan Tilt Path         ShortestPath / ContinuePath         Pan Tilt Path Mode           Feedback         LED Degree Change         0/180         LED Degree Change           Hibernation         OFF, 01M-99M, 15M         Stand By Mode           Service Setting         RDM UID         2266xxxxxxx         RDM PID Code (PSWD Required)           Clear Err. Info         ON/OFF         Clear Error Info (PSWD Required)         USB Update           USB Update         YES/NO         Service Port - Software Updates         Select Fan Speeds           Fans Control         Auto, High, Silent         Select Fan Speeds         Select Fan Speeds           Display Setting         Display Reverse         ON/OFF         Key Lock         OMXOF           Temperature C/F         Celsius/F		Error Info	Error Record 1 ~ Erro	r Record 10	Fixture Last 10 Error Codes	
PERSONALITY         No DMX Status         Close / Hold / Auto         Fixture State When NO DMX Signal           Pan Reverse         ON/OFF         Pan Reverse Movement           Tilt Reverse         ON/OFF         Tilt Reverse Movement           Pan Degree         360/540         Pan Reverse Movement           Pan Degree         360/270         Tilt Degree Select           Tilt Degree         360/270         Tilt Degree Select           Pan Tilt Path         ShontestPath / ContinuePath         Pan Tilt Path Mode           Feedback         ON/OFF         Movement Feedback           LED Degree Change         0/ 180         LED Degree Change           Hilbernation         OFF, 01M-99M, 15M         Stand By Mode           Service Setting         Password         Password-De50         Service Password           Clear Err. Info         ON/OFF         Clear Error Info (PSWD Required)         USB Update         YES/NO           VBB Update         YES/NO         Service Port - Software Updates         Select Fan Speeds           Display Reverse         ON/OFF         Cleasurese 180°         Key Lock           Temperature C/F         Celsius/Fahrenheit         Temperature Switch Between C'/ F'           Initial Status         Control = XXX         Initial Effect Position			Address via DMX	ON/OFF	Address Via DMX	
Pan Reverse         ON/OFF         Pan Reverse Movement           Tilt Reverse         ON/OFF         Tilt Reverse Movement           Pan Degree         360/540         Pan Degree Select           Tilt Degree         360/540         Pan Tilt Reverse Movement           Pan Tilt Path         Shortes/Path / ContinuePath         Pan Tilt Path Mode           Feedback         ON/OFF         Movement Feedback           LED Degree Change         0/ 180         LED Degree Change           Hibernation         OFF, 01M-99M, 15M         Stand By Mode           Service Setting         Pansword         Password-050         Service Password           RDM UID         22A6xxxxxxx         RDM PID Code (PSWD Required)         Clear Err. Info         ON/OFF           USB Update         YES/NO         Service Port - Software Updates         Service Setting         Select Fan Speeds           Fans Control         Auto, High, Silent         Select Fan Speeds         Select Fan Speeds         Select Fan Speeds           Display Setting         Shutoff Time         02~60m 05m         Display Shut Off Time         Display Reverse 180°           Key Lock         ON/OFF         Key Lock         ON/OFF         Select Fan Speeds           Temperature C/F         Celsius/Fahrenheit         Temperatur		Status Settings	No DMX Status	Close / Hold / Auto	Fixture State When NO DMX Signal	
Filt Reverse         ON/OFF         Tilt Reverse Movement           Pan Degree         360/540         Pan Degree Select           Pan Tilt Degree         360/270         Tilt Degree Select           Pan Tilt Path         ShortestPath / ContinuePath         Pan Tilt Path Mode           Feedback         ON/OFF         Movement Feedback           LED Degree Change         O/ 180         LED Degree Change           Hibernation         OFF, 01M-99M, 15M         Stand By Mode           Service Setting         Password         Password=050         Service Password           Clear Err. Info         ON/OFF         Clear Error Info (PSWD Required)           USB Update         YES/NO         Service Password         Password           Fans Control         Auto, High, Silent         Select Fan Speeds         Select Fan Speeds           Shutoff Time         02~60m 05m         Display Reverse 180°         Key Lock           Temperature C/F         Celsius/Fahrenheit         Temperature Switch Between C'/ F'         Initial Status           Select Signal         Art-Net         Select Art-Net         Select Art-Net           Select Signal         Art-Net         Select Art-Net         Select Art-Net           Select Signal         Art-Net         Select Art-Net         <			Pan Reverse	ON/OFF	Pan Reverse Movement	
Status Settings         Pan Degree         360/540         Pan Degree Select           Till Degree         360/570         Till Degree Select           Pan Tilt Path         ShortestPath / ContinuePath         Pan Tilt Path Mode           Feedback         ON/OFF         Movement Feedback           LED Degree Change         0 / 180         LED Degree Change           Hibernation         OFF, 01M-99M, 15M         Stand By Mode           Parsword         Password=050         Service Password           Service Setting         RDM UD         2246xxxxxxxx         RDM PID Code (PSWD Required)           Clear Err. Info         ON/OFF         Clear Error Info (PSWD Required)         USB Update           VES/NO         Service Port - Software Updates         Service Port - Software Updates           Fans Control         Auto, High, Silent         Select Fan Speeds           Display Setting         Display Reverse         ON/OFF         Display Reverse 180°           Key Lock         ON/OFF         Key Lock         Initial Effect Position           Display Setting         DMX Only         DMX In/Out         DMX In/Out           Select Signal         Art-Net         Select Art-Net         Select Art-Net           Select Signal         Art-Net         Select Art-Net			Tilt Reverse	ON/OFF	Tilt Reverse Movement	
PERSONALITY         Tilt Degree         360/270         Tilt Degree Select           Pan Tilt Path         ShortestPath / ContinuePath         Pan Tilt Path Mode           Feedback         ON/OFF         Movement Feedback           LED Degree Change         0 / 180         LED Degree Change           Hibernation         OFF, 01M-99M, 15M         Stand By Mode           Password         Password         Password           Password         Password         Service Password           Service Setting         Clear Err. Info         ON/OFF           Clear Err. Info         ON/OFF         Clear Error Info (PSWD Required)           USB Update         YES/NO         Service Port - Software Updates           Fans Control         Auto, High, Silent         Select Fan Speeds           Display Setting         Display Reverse         ON/OFF         Display Reverse 180°           Key Lock         ON/OFF         Key Lock         Temperature Switch Between C'/ F°           Initial Status         Control = XXX         Initial Effect Position         Display Reverse 180°           Select Signal         Art-Net         Select Art-Net         Select Art-Net           SACN         Activate sACN         Activate sACN         Seletivate Art-Net           Select Signal			Pan Degree	360/ <b>540</b>	Pan Degree Select	
Pan lift Path         ShorterStath / ContinuePath         Pan lift Path Mode           Feedback         ON/OFF         Movement Feedback           LED begree Change         0/180         LED begree Change           Hibernation         OFF, 01M-99M, 15M         Stand By Mode           Service Setting         Password         Password=050         Service Password           Clear Err. Info         ON/OFF         Clear Error Info (PSWD Required)           USB Update         YES/NO         Service Port - Software Updates           Fans Control         Auto, High, Silent         Select Fan Speeds           Display Setting         Shutoff Time         02~60m 05m         Display Reverse 180°           Key Lock         ON/OFF         Display Reverse 180°         Key Lock           Temperature C/F         Celsius/Fahrenheit         Temperature Switch Between C'/ F°           Initial Status         Control = XXX         Initial Effect Position           Select Signal         Art-Net         Select Art-Net           sACN         Activate sACN         Ethernet IP (PSWD Required)           Ethernet IP         XXX . XXX . XXX . XXX         Ethernet Mask IP (PSWD Required)           Set Universe         000 - 32767         Set ArtNet Universe           Dimmer Mode         Standa			Tilt Degree	360/270	Tilt Degree Select	
PERSONALITY         Feedback         ON/OFF         Movement Feedback           LED Degree Change         0 / 180         LED Degree Change           Nervice Setting         Password         Password=050         Service Password           Service Setting         RDM UID         22A6xxxxxxx         RDM PID Code (PSWD Required)           Clear Err. Info         ON/OFF         Clear Error Info (PSWD Required)           USB Update         YES/NO         Service Port - Software Updates           Fans Control         Auto, High, Silent         Select Fan Speeds           Display Setting         Shutoff Time         02~00         Display Shut Off Time           Display Setting         Shutoff Time         02~00         Display Shut Off Time           Display Setting         Shutoff Time         02~00         Display Reverse 180°           Key Lock         ON/OFF         Key Lock         ON/OFF           Temperature C/F         Celsius/Fahrenheit         Temperature Switch Between C'/ F°           Initial Status         Control = XXX         Initial Effect Position           DMX Only         DMX Nn/y         DMX In/Out         Art-Net           Select Signal         Art-Net         Select Art-Net         Select Art-Net           SACN         Activate SACN			Pan Tilt Path	ShortestPath / ContinuePath	Pan Tilt Path Mode	
PERSONALITY         LED Degree Change         0/FR 01M-99M, 15M         Stand By Mode           Password         Password-050         Service Password           Service Setting         RDM UID         22A6xxxxxxx         RDM PID Code (PSWD Required)           Clear Err. Info         ON/OFF         Clear Error Info (PSWD Required)           USB Update         YENO         Service Port - Software Updates           Fans Control         Auto, High, Silent         Select Fan Speeds           Display Setting         Shutoff Time         02~60m 05m         Display Shut Off Time           Display Setting         Display Reverse         ON/OFF         Key Lock           Temperature C/F         Celsius/Fahrenheit         Temperature Switch Between C°/ F°           Initial Status         Control = XXX         Initial Effect Position           Select Signal         Art-Net         Select Art-Net           SACN         Activate sACN         Activate sACN           Ethernet IP         XXX. XXX. XXX         Ethernet IP (PSWD Required)           Set Universe         000 - 32767         Set ArtNet Universe           Dimmer Mode         Standard, Stage, TV, Architectural, Theatre, Stage2         Set Dimmer Mode           Refresh         1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 10000, 15000, 2500, 4000, 5000,			Feedback	ON/OFF	Movement Feedback	
PERSONALITY       Password       Password       Password       Stand By Mode         Personality       RDM UID       22A6xxxxxxx       RDM PID Code (PSWD Required)         Clear Err. Info       ON/OFF       Clear Error Info (PSWD Required)         USB Update       YES/NO       Service Port - Software Updates         Fans Control       Auto, High, Silent       Select Fan Speeds         Display Setting       Shutoff Time       02-60m 05m       Display Reverse 180°         Key Lock       ON/OFF       Key Lock       ON/OFF         Temperature C/F       Celsius/Fahrenheit       Temperature Switch Between C'/ F'         Initial Status       Control = XXX       Initial Effect Position         Select Signal       Art-Net       Select Art-Net         Select Signal       Art-Net       Select Art-Net         Set Universe       000 - 32767       Set ArtNet Universe         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2       Set Dimmer Mode         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 6,000, 10000, 15000, 6,000, 10000, 15000, 6,000, 10000, 15000, 2500, 4000, 5000, 6,000, 10000, 15000, 6,000, 10000, 15000, 6,000, 10000, 15000, 2000, 4000, 5000, 6,000, 10000, 15000, 0,0000, 15000, 6,000, 10000, 15000, 0,0000, 15000, 0,0000, 10000, 15000, 0,0000, 15000, 6,000, 100000, 15000, 0,0000, 15000, 0,000, 10000, 15000, 0,0000, 15000, 6,			LED Degree Change	0/180	LED Degree Change	
PERSONALITY       Password       Service Password       Service Password         PERSONALITY       RDM UID       2246xxxxxxx       RDM PID Code (PSWD Required)         USB Update       YES/NO       Service Port - Software Updates         Fans Control       Auto, High, Silent       Select Fan Speeds         Display Setting       Shutoff Time       02~60m 05m       Display Shut Off Time         Display Setting       Shutoff Time       02~60m 05m       Display Shut Off Time         Display Setting       Shutoff Time       02~60m 05m       Display Shut Off Time         Display Setting       Shutoff Time       02~60m 05m       Display Reverse 180°         Key Lock       ON/OFF       Key Lock       ON/OFF         Temperature C/F       Celsius/Fahrenheit       Temperature Switch Between C'/ F'         Initial Status       Control = XXX       Initial Effect Position         MXX Only       DMX Only       DMX In/Out         Select Signal       Art-Net       Select Art-Net         SACN       Activate sACN       Ethernet IP (PSWD Required)         Ether Mask IP       XXX . XXX . XXX . XXX       Ethernet IP (PSWD Required)         Set Universe       000 - 32767       Set ArtNet Universe         Dimmer Mode       Standard, Stage, TV			Hibernation	OFF, 01M~99M, <b>15M</b>	Stand By Mode	
Service Setting         HDM UID         22A0XXXXXX         HDM PID Code (PSWD Required)           Clear Err. Info         ON/OFF         Clear Error Info (PSWD Required)           USB Update         YES/NO         Service Port - Software Updates           Fans Control         Auto, High, Silent         Select Fan Speeds           Display Setting         Shutoff Time         02~60m 05m         Display Shut Off Time           Display Setting         Shutoff Time         02~60m 05m         Display Reverse 180°           Key Lock         ON/OFF         Display Reverse 180°           Temperature C/F         Celsius/Fahrenheit         Temperature Switch Between C'/ F'           Initial Status         Control = XXX         Initial Effect Position           Select Signal         Art-Net         Select Art-Net           Select Signal         Art-Net         Select Art-Net           SACN         Activate SACN         Ethernet IP           XXX . XXX . XXX . XXX . XXX         Ethernet Mask IP (PSWD Required)           Set Universe         000 - 32767         Set ArtNet Universe           Dimmer Mode         Standard, Stage, TV, Architectural, Theatre, Stage2         Set Dimmer Mode           Refresh         1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 6,000, 10000, 15000, 0,000, 15000, 0,000, 15000, 0,000, 10000, 150		Service Setting	Password	Password=050	Service Password	
PERSONALITY       Clear Err. Inito       OlvOFF       Clear Error Inito (PSWD Required)         Fans Control       Auto, High, Silent       Select Fan Speeds         Display Setting       Shutoff Time       02~60m 05m       Display Reverse 180°         Key Lock       ON/OFF       Display Reverse 180°         Temperature C/F       Celsius/Fahrenheit       Temperature Switch Between C"/ F"         Initial Status       Control = XXX       Initial Effect Position         DMX Only       DMX Only       DMX In/Out         Select Signal       Art-Net       Select Art-Net         School = XXX       Activate sACN       Ethernet IP         Ethernet IP       XXX . XXX . XXX . XXX       Ethernet IP (PSWD Required)         Set Universe       000 - 32767       Set ArtNet Universe         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2       Set Dimmer Mode         Refresh       1200, 900-1500, 5000, 6,000, 10000, 1			RDM UID		RDM PID Code (PSWD Required)	
PERSONALITY       Fans Control       Auto, High, Silent       Select Fan Speeds         Display Setting       Shutoff Time       02~60m 05m       Display Shut Off Time         Display Setting       Display Reverse       ON/OFF       Display Reverse 180°         Key Lock       ON/OFF       Key Lock         Temperature C/F       Celsius/Fahrenheit       Temperature Switch Between C°/ F°         Initial Status       Control = XXX       Initial Effect Position         Select Signal       OMX Only       DMX In/Out         Select Signal       Art-Net       Select Art-Net         Select Newski IP       XXX . XXX . XXX . XXX       Ethernet IP (PSWD Required)         Ether Mask IP       XXX . XXX . XXX . XXX       Ethernet IP (PSWD Required)         Set Universe       000 - 32767       Set ArtNet Universe         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2       Set Dimmer Mode         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 5000, 6,000, 10000, 15000, 2500, 4000, 5000, 6,000, 10000, 15000, 2500, 4000, 5000, 6,000, 10000, 15000, 2500, 4000, 5000, 6,000, 10000, 15000, 2500, 4000, 5000, 6,000, 10000, 15000, 2500, 4000, 5000, 6,000, 10000, 15000, 2500, 4000, 5000, 6,000, 10000, 15000, 2500, 4000, 5000, 6,000, 10000, 15000, 2500, 4000, 5000, 6,000, 10000, 15000, 2500, 4000, 5000, 6,000, 10000, 15000, 2500, 4000, 5000, 6,000, 10000, 15000, 2500, 4000, 5000, 6,000, 10000, 15000, 2500, 4000			USB Undate		Clear Error Inio (PSWD Required)	
PERSONALITY       Parts control       Auto, high, silent       Select Part Speeds         Display Setting       Shutoff Time       02~60m 05m       Display Shut Off Time         Display Setting       Display Reverse       ON/OFF       Display Reverse 180°         Key Lock       ON/OFF       Key Lock         Temperature C/F       Celsius/Fahrenheit       Temperature Switch Between C°/ F°         Initial Status       Control = XXX       Initial Effect Position         MXX Only       DMX In/Out       Select Art-Net         Select Signal       Art-Net       Select Art-Net         SACN       Activate sACN       Ethernet IP         XXX . XXX . XXX . XXX . XXX       Ethernet IP (PSWD Required)         Ether Mask IP       XXX . XXX . XXX . XXX       Ethernet IP (PSWD Required)         Set Universe       000 - 32767       Set ArtNet Universe         Dimmer Mode       Theatre, Stage2       Set Dimmer Mode         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 10000, 15000, 2000, 25000 (Hz)       Set LED Refresh Rate         Dimmer Curve       Linear, Square, Inverse Square, S-Curve       Set Dimmer Curve Mode         Reset Default       ON/OFF       Password=011       Restore Factory Settings (PSWD Required)		Fana Cantral	OSB Opdate	YES/NO	Service Port - Software Opdates	
PERSONALITY       Display Setting       Shidon Hine       02*00m 00m       Display Shido On Hine         Display Setting       Display Reverse       ON/OFF       Display Reverse 180°         Key Lock       ON/OFF       Key Lock         Temperature C/F       Celsius/Fahrenheit       Temperature Switch Between C°/ F°         Initial Status       Control = XXX       Initial Effect Position         DMX Only       Select Signal       OMX only       Select Art-Net         Select Signal       Art-Net       Select Art-Net       Select Art-Net         SACN       Activate sACN       Ethernet IP       XXX . XXX . XXX . XXX       Ethernet IP (PSWD Required)         Ether Mask IP       XXX . XXX . XXX . XXX . XXX       Ethernet IP (PSWD Required)         Set Universe       000 - 32767       Set ArtNet Universe         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2       Set Dimmer Mode         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 2000, 25000 (Hz)       Set LED Refresh Rate         Dimmer Curve       Linear, Square, Inverse Square, S-Curve       Set Dimmer Curve Mode         Reset Default       ON/OFF       Password=011       Restore Factory Settings (PSWD Required)		Fails Control	Shutoff Time	0260m <b>05m</b>	Diaplay Shut Off Time	
Display Neverse       OnvOFF       Display Neverse Tab         Key Lock       ON/OFF       Key Lock         Temperature C/F       Celsius/Fahrenheit       Temperature Switch Between C°/ F°         Initial Status       Control = XXX       Initial Effect Position         DMX Only       DMX In/Out         Select Signal       Art-Net       Select Art-Net         Select Signal       Art-Net       Select Art-Net         SACN       Activate sACN       Ethernet IP (PSWD Required)         Ether Mask IP       XXX . XXX . XXX . XXX       Ethernet Mask IP (PSWD Required)         Set Universe       000 - 32767       Set ArtNet Universe         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2       Set Dimmer Mode         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 2000, 25000 (Hz)       Set LED Refresh Rate         Dimmer Curve       Linear, Square, Inverse Square, S-Curve       Set Dimmer Curve Mode         Reset Default       ON/OFF       Password=011       Restore Factory Settings (pswD Required)	PERSONALITY	Dicplay Satting	Dicplay Poyorco		Display Shut Off Time	
Temperature C/F       Celsius/Fahrenheit       Temperature Switch Between C°/ F°         Initial Status       Control = XXX       Initial Effect Position         Belect Signal       DMX Only       DMX In/Out         Select Signal       Art-Net       Select Art-Net         Select Mask IP       XXX . XXX . XXX . XXX       Ethernet IP (PSWD Required)         Ether Mask IP       XXX . XXX . XXX . XXX       Ethernet Mask IP (PSWD Required)         Set Universe       000 - 32767       Set ArtNet Universe         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2       Set Dimmer Mode         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 20000, 25000 (Hz)       Set LED Refresh Rate         Dimmer Curve       Linear, Square, Inverse Square, S-Curve       Set Dimmer Curve Mode         Reset Default       ON/OFF       Password=011       Restore Factory Settings (PSWD Required)		Display Setting	Key Lock		Key Lock	
Initial Status       Control = XXX       Initial Effect Position         Initial Status       Control = XXX       Initial Effect Position         Select Signal       DMX Only       DMX In/Out         Art-Net       Select Art-Net         SACN       Activate sACN         Ethernet IP       XXX . XXX . XXX . XXX         Ethernet IP       XXX . XXX . XXX . XXX         Ethernet IP (PSWD Required)         Set Universe       000 - 32767         Set Universe       000 - 32767         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 20000, 25000 (Hz)         Dimmer Curve       Linear, Square, Inverse Square, S-Curve         Dimmer Curve       Linear, Square, Inverse Square, S-Curve         Rest Default       ON/OFF         Password=011       Restore Factory Settings (pswD Required)		Tomporaturo C/E	Coloiuo/Echronhoit		Tomporature Switch Batwaan C°/ E°	
Initial Status       Control = XXX       Initial Effect Position         Select Signal       DMX Only       DMX In/Out         Art-Net       Select Art-Net         sACN       Activate sACN         Ethernet IP       XXX . XXX . XXX . XXX         Ether Mask IP       XXX . XXX . XXX . XXX         Ethernet Mask IP       XXX . XXX . XXX . XXX         Set Universe       000 - 32767         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2       Set Dimmer Mode         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 20000, 25000 (Hz)       Set LED Refresh Rate         Dimmer Curve       Linear, Square, Inverse Square, S-Curve       Set Dimmer Curve Mode         Reset Default       ON/OFF       Password=011       Restore Factory Settings (PSWD Required)				L	Initial Effect Position	
Select Signal       Art-Net       Select Art-Net         SACN       Activate sACN         Ethernet IP       XXX . XXX . XXX . XXX         Ether Mask IP       XXX . XXX . XXX . XXX         Ethernet IP       XXX . XXX . XXX . XXX         Ether Mask IP       XXX . XXX . XXX . XXX         Set Universe       000 - 32767         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 20000, 12500 (Hz)       Set LED Refresh Rate         Dimmer Curve       Linear, Square, Inverse Square, S-Curve       Set Dimmer Curve Mode         Reset Default       ON/OFF       Password=011       Restore Factory Settings (PSWD Required)		Initial Status				
Select Altrivet       Select Altrivet         sACN       Activate sACN         Ethernet IP       XXX . XXX . XXX . XXX         Ether Mask IP       XXX . XXX . XXX . XXX         Ether Mask IP       XXX . XXX . XXX . XXX         Set Universe       000 - 32767         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 20000, 12500 (Hz)         Dimmer Curve       Linear, Square, Inverse Square, S-Curve         Dimmer Curve       Linear, Square, Inverse Square, S-Curve         Rest Default       ON/OFF		Soloct Signal			Select Art Not	
Ethernet IP       XXX . XXX . XXX . XXX       Ethernet IP (PSWD Required)         Ether Mask IP       XXX . XXX . XXX . XXX       Ethernet Mask IP (PSWD Required)         Set Universe       000 - 32767       Set ArtNet Universe         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2       Set Dimmer Mode         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 20000, 25000 (Hz)       Set LED Refresh Rate         Dimmer Curve       Linear, Square, Inverse Square, S-Curve       Set Dimmer Curve Mode         Reset Default       ON/OFF       Password=011       Restore Factory Settings (PSWD Required)		Select Signal			Activate cACN	
Ether Mask IP       XXX . XXX . XXX . XXX       Ethernet Mask IP (PSWD Required)         Set Universe       000 - 32767       Set ArtNet Universe         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2       Set Dimmer Mode         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 20000, 25000 (Hz)       Set LED Refresh Rate         Dimmer Curve       Linear, Square, Inverse Square, S-Curve       Set Dimmer Curve Mode         Reset Default       ON/OFF       Password=011       Restore Factory Settings (PSWD Required)		Ethornot ID		×	Ethernet ID (DS)//D Pequired)	
Littlef Mask IP       XXX X XXX XXX       Littlef Mask IP (PSWD Required)         Set Universe       000 - 32767       Set ArtNet Universe         Dimmer Mode       Standard, Stage, TV, Architectural, Theatre, Stage2       Set Dimmer Mode         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 20000, 25000 (Hz)       Set LED Refresh Rate         Dimmer Curve       Linear, Square, Inverse Square, S-Curve       Set Dimmer Curve Mode         Reset Default       ON/OFF       Password=011       Restore Factory Settings (PSWD Required)		Ethor Mack IP		~ ~	Ethernet Mack IP (PSWD Required)	
Dimmer Mode     Standard, Stage, TV, Architectural, Theatre, Stage2     Set Dimmer Mode       Refresh     1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 20000, 25000 (Hz)     Set LED Refresh Rate       Dimmer Curve     Linear, Square, Inverse Square, S-Curve     Set Dimmer Curve Mode       Reset Default     ON/OFF     Password=011     Restore Factory Settings (PSWD Required)		Set Universe	000 - 32767		Set ArtNet Universe	
Dimmer Mode       Standard, Stage, IV, Alchitectural, Theatre, Stage2       Set Dimmer Mode         Refresh       1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 25000 (Hz)       Set LED Refresh Rate         Dimmer Curve       Linear, Square, Inverse Square, S-Curve       Set Dimmer Curve Mode         Reset Default       ON/OFF       Password=011       Restore Factory Settings (PSWD Required)		Set Universe	Standard Stage TV	Architoctural		
Refresh         1200, 900-1500, 2500, 4000, 5000, 6,000, 10000, 15000, 20000, 25000 (Hz)         Set LED Refresh Rate           Dimmer Curve         Linear, Square, Inverse Square, S-Curve         Set Dimmer Curve Mode           Reset Default         ON/OFF         Password=011         Restore Factory Settings (PSWD Required)		Dimmer Mode	Theatre, Stage2	Architectural,	Set Dimmer Mode	
Dimmer Curve         Linear, Square, Inverse Square, S-Curve         Set Dimmer Curve Mode           Reset Default         ON/OFF         Password=011         Restore Factory Settings (PSWD Required)		Refresh	<b>1200</b> , 900-1500, 2500, 400 15000, 20000, 25000 (Hz)	0, 5000, 6,000, 10000,	Set LED Refresh Rate	
Reset Default         ON/OFF         Password=011         Restore Factory Settings (PSWD Required)		Dimmer Curve	Linear, Square, Inver	se Square, S-Curve	Set Dimmer Curve Mode	
		Reset Default	ON/OFF	Password=011	Restore Factory Settings (PSWD Required)	

		ELATION PROTEL	JS RAYZOR 760™		
		SYSTEN	1 MENU		
		Supports Software	e Versions: ≥ 1.2.1		
	*Rotation direction (Clockwise	Features subject to c Counterclockwise) and control	hange without notice. of effects depends on head orient	tation and Pan/Tilt settings.	
MAIN MENU	SUB MENU	<b>OPTIONS / VALUE</b>	<b>S</b> (Default Settings in <b>BOLD</b> )	DESCRIPTION	
	Reset All		· - ·	Reset All Motors	
Reset Function	Reset Pan&Tilt			Reset Pan/Tilt	
	Reset Others			Reset Other Motors	
	Test Channel	PAN		Test function	
Effect Adjust	Manual Control	PAN =XXX,		Fine Adjustments	
Encor Adjust	Calibration	Calibration Password		Password 050 (PSWD Required)	
		Standard		DMX Channel Modes	
User Mode Set	User Mode	Pixels			
		Extended			
		Auto Pro Part1 = Program 1~10 (Program 1)			
	Select Program	Auto Pro Part2 = Program 1~10 (Program 2)		Select Programs To Be Run	
		Auto Pro Part3 = Program 1~10 (Program 3)			
	Edit Program	Program 1	Program Test	Testing 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	Edit Scene 250	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 Standa 0.0, 0.1, 3.0, 4.0,	rd, Stage, TV, Architectural, Theatre, Stage2, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.5, 2.0, 2.5, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0	Set Dimmer Mode / Delay Time
-------------------	---------------------------------------	--	------------------------------

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

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

NOTE: This process assumes the fixture DMX address is set to 001. If fixture DMX address is not at 001, you must adjust the channel numbers accordingly in order for this feature to work. For example: if your fixture address is 010, then Channel 1 becomes Channel 10, Channel 2 becomes Channel 11, and Channel 3 becomes Channel 12.

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

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

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

5. After setting **Channel 3** to the desired DMX address value, wait 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 in order 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 Master unit can send up to 3 different data groups to the Slave units, i.e. a Master unit can start 3 different Slave units, which run 3 different programs. The Master unit sends the 3 program parts in a continuous loop.



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

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

To start an Auto Program, proceed as follows:

#### 1. Slave Setting

Select "Function Mode". Press ENTER to confirm. Select "Set to Slave". Press ENTER to confirm. Select "Slave 1", "Slave 2" or "Slave 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 **"Master"** or **"Alone"**. 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]

#### 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 Slave program is to be sent. Selection **"Part 1"** means, that the Slave unit runs the same program as the master 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 Slave groups run the Auto Program in certain time segments. (See chart below)

PART 1	PART 2	PART3
SCENE 10	SCENE 8	SCENE 12
SCENE 11	SCENE 9	SCENE 13
SCENE 12	SCENE 10	SCENE 14
SCENE 13	SCENE 8	SCENE 15

# 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 master 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	Master Pan, Tilt, RGBW Color, Strobe, Dimmer, Zoom, FX Controls		
<b>RGBW Cells 1-7</b> Red, Green, Blue, White per each individual cell			
SparkLED Main	Master 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

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

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

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

**<u>ONYX</u>** screen shots below illustrate Main and Sub Fixture ID patch for a single PROTEUS RAYZOR 760 fixture.



Tasks		ID	Name	Туре	Universe	Address	Invert	10 M C 1	O OFF
Patch	•			Rayzor 760 Pixel (Master)				Multi Select	O OFF
		t:i		Rayzor 760 Pixel (Pixel 1)	Auto	Auto		Change Color	Change
[]입 Cloning		1.2		Rayzor 760 Pixel (Pixel 2)	Auto	Auto			
191		1.3		Rayzor 760 Pixel (Pixel 3)	Auto	Auto		Filter	
LLI Swap		1.4		Rayzor 760 Pixel (Pixel 4)	Auto	Auto			
C RDM		1.5		Rayzor 760 Pixel (Pixel 5)	Auto	Auto		1	
<b>O</b>		1.6		Rayzor 760 Pixel (Pixel 6)	Auto	Auto		All fixture	e types
		1.7		Rayzor 760 Pixel (Pixel 7)	Auto	Auto			- E
		1.8		Rayzor 760 Pixel (SparkLED)	Auto	Auto		Rayzor 76	50 Pixel
		ID	Name	Туре	Universe	Address	Invert	0.000	escala en
	-	101		Rayzor 760 SparkLED				Rayzor 760	SparkLED
		101.1		Rayzor 760 SparkLED (LED 1)	Auto	Auto			
		101.2		Rayzor 760 SparkLED (LED 2)	Auto	Auto			
		101.3		Rayzor 760 SparkLED (LED 3)	Auto	Auto			
		101.4		Rayzor 760 SparkLED (LED 4)	Auto	Auto			
		101.5		Rayzor 760 SparkLED (LED 5)	Auto	Auto			
		101.6		Rayzor 760 SparkLED (LED 6)	Auto	Auto			
		101.7		Rayzor 760 SparkLED (LED 7)	Auto	Auto			
		101.8		Rayzor 760 SparkLED (LED 8)	Auto	Auto			
		101.9		Rayzor 760 SparkLED (LED 9)	Auto	Auto			
		101.10		Rayzor 760 SparkLED (LED 10)	Auto	Auto			
		101.11		Rayzor 760 SparkLED (LED 11)	Auto	Auto			
		101.12		Rayzor 760 SparkLED (LED 12)	Auto	Auto			
		101.13		Rayzor 760 SparkLED (LED 13)	Auto	Auto			
		101.14		Rayzor 760 SparkLED (LED 14)	Auto	Auto			
		101.15		Rayzor 760 SparkLED (LED 15)	Auto	Auto			
		101.16		Rayzor 760 SparkLED (LED 16)	Auto	Auto			
		101.17		Rayzor 760 SparkLED (LED 17)	Auto	Auto			
		101.18		Rayzor 760 SparkLED (LED 18)	Auto	Auto			
		101.19		Rayzor 760 SparkLED (LED 19)	Auto	Auto			
		101.20		Rayzor 760 SparkLED (LED 20)	Auto	Auto	~		
		101.21		Rayzor 760 SparkLED (LED 21)	Auto	Auto			
		101.22		Rayzor 760 SparkLED (LED 22)	Auto	Auto			
		101.23		Rayzor 760 SparkLED (LED 23)	Auto	Auto			
		101.24		Rayzor 760 SparkLED (LED 24)	Auto	Auto			
		101.25		Rayzor 760 SparkLED (LED 25)	Auto	Auto	$\sim$		
		101.26		Rayzor 760 SparkLED (LED 26)	Auto	Auto	22		
		101.27		Rayzor 760 SparkLED (LED 27)	Auto	Auto	$\sim$		
		101.28		Rayzor 760 SparkLED (LED 28)	Auto	Auto	×1		

# 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 Cha	annel Value	es / Function	ons (80 Total DMX Channels)																																								
			Support	s Software	e Versions: ≥ 1.2.1																																								
	*Botation dire	ction (Clockwise	Featur	res subject to ch	ange without notice.	settings																																							
Standard	Pixels	Extended	Councillockw	Value	Function	Fade	Default																																						
						Status	Value																																						
				Main Fixtu	re Control	1																																							
1	1	1			PAN	Fade	127																																						
-	-			0-255	Movement																																								
2	2	2			PAN FINE	Fade	127																																						
2	L	2		0-255	Fine Movement	T due	121																																						
3	3	З			TILT	Eade	127																																						
5	5	5		0-255	Movement	i aue	121																																						
4	4	4			TILT FINE	Fade	127																																						
-	-	-		0-255	Fine Movement	Tude	121																																						
		5			PAN ROTATE	-																																							
				0-2	Disabled	-	0																																						
				3-126	Rotating CW Fast to Slow	-																																							
5	5			127-129	NO Rotation (Fixture stops at its current position)	Fade																																							
																																										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 <b>(See CTC Table)</b>	Fade	0																																						
				172-255	10,000K	1																																							

Standard	Pixels	Extended	Value	Function	Fade Status	Default 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	_	
			160-164	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	Open		
				BANDOM SLOTS		
			005 000	Fact	-	
			200-209		-	
			240-244		4	
			245-249	Slow	4	
			250-255	Open		

Standard	Pixels	Extended	Value	Function	Fade Status	Default Value		
				STROBE				
			0-31	Shutter Closed				
			32-63	Shutter Open				
		9	64-95	Strobe Slow to Fast				
9	9		9	96-127	Fast Close, Slow Open	Snap	50	
					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	$0 \rightarrow 100\%$		0		
				DIMMER FINE				
11	11	11	0-255	Fine Dimming		0		
			0 200					
			0-20	Standard				
		21-40	Stage					
			41-60	TV				
					61-80	Architectural		
			81-100	Theatre				
			101-120	Stage 2				
				101 120				
			121					
			121					
				122	0.15			
				123	0.25			
			124	0.05				
			126	0.50				
			120	0.65				
12	12	12	128	0.7s	Snap	0		
			129	0.85				
			130	0.95				
			131	1.05				
				132	1.55			
			133	2.05				
			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				
			· · ·					

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		
				ZOOM FINE		-
	14	14	0-255	Fine Zoom	Fade	0
				PAN / TILT SPEED		
			0-225	Max to Min Speed		
	15	15	226-235	Blackout When Pan / Tilt Moves	Snap	0
			236-245	Blackout When All Wheels Change		
			246-255	No Function		

Standard	Pixels	Extended	Value	Function	Fade Status	Default 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	940		
			105	950		
			106	960		_
14	16	16	107	970	Snap	0
			108	980		
			109	990		
			110	1000		
			111	1010		
			112	1020		
			113	1030		
			114	1040		
			115	1050		
			116	1060		
			117	1070		
			118	1080		
			119	1090		
			120	1110		
			121	1100		
			122	1120		
			123	1140		
			124	1150		
			120	1160		
			120	1170		
			12/	1180		
			120	1190		
			120	1200		
			150	1200		1

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	1440	_	
			155	1450	_	
			156	1460		
			157	1470	_	
			158	1480		
			159	1490	_	
			160	1500	_	
			161	2500	_	
			162	4000	_	
			163	5000	_	
			104	1000		
			165	15000		
			167	2000	_	
			168	25000	_	
			100	23000		

Standard	Pixels	Extended		Value	Function	Fade Status	Default Value		
				169-200	Idle				
				ADDED WIT	<b>H SOFTWARE UPDATE VERSION</b> $\geq$ 1.2.2	-			
				169-192	Idle	-			
				193-194	Hibernate Off	-			
				195-196	Hibernate		0		
14	16	16	16	197-198	Home Position Before Power Off	Snap			
	10			199-200	Home Position Off	enap	Ū		
			201-210	Dimmer Curve Linear (default)	-				
				211-220	Dimmer Curve Square	-			
				221-230	Dimmer Curve Inverse Square	-			
				231-240	Dimmer Curve S-Curve	-			
				241-255					
15	17	17			RGBW FX (See Table)	Snap	0		
				0-255	FX Selection 1 -255	- Charle			
					RGBW FX SPEED				
10			10	10 10		0–126	Rev Fast to Slow		
16	18	18		127–128	Stop	Fade	160		
				129–255	Slow to Fast				
17	19	19			SparkLED FX (See Table)	Snap	0		
				0-255	FX Selection 1 -255	Chalp	· ·		
					SparkLED FX SPEED		160		
				0–126	Rev Fast to Slow				
18	20	20	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				
				37-100	No Function				
				101–120	Random Fixtures				
				121-140	Random Duration	-			
				141-255	Random Pixels				
		·	·	·	·		·		

Standard	Pixels	Extended	Value	Function	Fade Status	Default Value
			RGBW Pi	xel Control		
20	22	22		Red	Eade	255
20	22	22	0-255	$0 \rightarrow 100\%$	1 aue	200
21	23	23		Green	Eada	255
21	20	20	0-255	0 → 100%	Taue	200
22	24	24		Blue	Eada	255
22	24	24	0-255	0 → 100%	Taue	200
23	25	25		White	Fade	255
20	20	20	0-255	0 → 100%	1 440	200
	26	26		Red 2	Fade	255
	20	20	0-255	0 → 100%	Taue	200
	27	97		Green 2	Fada	255
	21	21	0-255	$0 \rightarrow 100\%$	1 aue	200
	28	28		Blue 2	Eade	255
	20	20	0-255	$0 \rightarrow 100\%$	1 aue	200
	20	20		White 2	Eade	255
	29	23	0-255	$0 \rightarrow 100\%$	Faue	
	20	20		Red 3	Eado	255
	30		0-255	$0 \rightarrow 100\%$	Faue	200
	31	21		Green 3	Eade	255
	51	51	0 - 255	$0 \rightarrow 100\%$	Faue	200
	20	20		Blue 3	Fada	055
	52	52	0-255	$0 \rightarrow 100\%$	raue	200
	22	22		White 3	Eado	255
	33		0 - 255	$0 \rightarrow 100\%$	Faue	200
	04	24		Red 4	Fada	055
	34	34	0-255	$0 \rightarrow 100\%$	Fade	200
	05	25		Green 4	Fada	055
	35		0-255	$0 \rightarrow 100\%$	Faue	200
	26	26		Blue 4	Fada	OFF
	30	30	0-255	$0 \rightarrow 100\%$	гаце	255
	27	27		White 4	Eada	055
	37	51	0-255	$0 \rightarrow 100\%$	гаце	200

Standard	Pixels	Extended	Value	Function	Fade Status	Default Value	
		•	RGBW Pix	cel Control			
	20	20		Red 5	Fada	055	
	30	30	0-255	$0 \rightarrow 100\%$	Faue	200	
	20	20		Green 5	Fada	055	
	29	29	0-255	$0 \rightarrow 100\%$	Faue	200	
	40	40		Blue 5	Fada	055	
	40	40	0-255	$0 \rightarrow 100\%$	Faue	200	
	41	41		White 5	Fada	055	
	41	41	0-255	$0 \rightarrow 100\%$	Faue	200	
	40	40		Red 6	Fada	055	
	42	42	0-255	$0 \rightarrow 100\%$	raue	200	
	40	40		Green 6	Fada	255	
	+0 40		43 43	0-255	$0 \rightarrow 100\%$	rade	200
	11 11	14	4.4		Blue 6	Fada	055
	44	44	0-255	$0 \rightarrow 100\%$	Fade	200	
	45	45		White 6	Fada	055	
	45	40	0-255	$0 \rightarrow 100\%$	rade	200	
	40	40		Red 7	E a da	055	
	40	40	0-255	0 → 100%	Fade	200	
	47	47		Green 7	Fada	055	
	47	47	0-255	0 → 100%	rade	200	
	40	40		Blue 7	E a da	055	
	48	48	0-255	0 → 100%	Fade	255	
	40	40		White 7	Fada	055	
	49 49		0-255	$0 \rightarrow 100\%$	Fade	255	
			·				

Standard	Pixels	Extended	SparkLED	Value	Function	Fade Status	Default Value						
	L	L		SparkLED	D Control								
SparkLED is r Rayzor 76	not available a 60 in Extended	s a mode in the d mode and pate	fixture menu but ch appropriate pa	must be provide arts of the RGBV	ed as a console control profile for easy programming V Pixels and SparkLED fixtures on your control syste Guidelines section for further instructions	g of the fixtu em to acces	ire. Use the s all 80						
		chamers.			STROBE								
				0-31	Shutter CLOSED	-							
				32-63	Shutter OPEN	-							
					64-95	Strobe SLOW to FAST	-						
						96-127	FAST Close, SI OW Open	-					
24	50	50		128-159	FAST Open, SLOW Close	Snap	50						
					160-191	Pulse Effects	-						
				192-223	Bandom Strobe ALL SLOW to FAST	-							
				224-254	Bandom Strobe Pixels SLOW to FAST	_							
				255	Sync Dimmer and Strobe with Main	_							
				200									
25	51	51		0-255	$0 \rightarrow 100\%$	Fade	0						
				0 200	DIMMER FINE								
	52	52 52		0-255	Fine Dimming	Fade	0						
	53				SparkLED #1 Dimmer								
		53	1	0-255	$0 \rightarrow 100\%$	Fade	255						
					SparkLED #2 Dimmer								
		54	2	0-255	$0 \rightarrow 100\%$	Fade	255						
				0 200	Sparkl FD #3 Dimmer								
		55	3	0-255	$0 \rightarrow 100\%$	Fade	255						
		56				SparkLED #4 Dimmer							
			4	0-255	$0 \rightarrow 100\%$	Fade	255						
		57		0 200	SparkLED #5 Dimmer								
			57	57	5	0-255	$0 \rightarrow 100\%$	Fade	255				
				0 200	SparkLED #6 Dimmer								
		58	58	58	58	58	58	58	6	0-255	$0 \rightarrow 100\%$	Fade	255
				0 200	Sparkl ED #7 Dimmer								
		59	7	0-255	$0 \rightarrow 100\%$	Fade	255						
				0 200	Sparkl ED #8 Dimmer								
		60	8	0-255	$0 \rightarrow 100\%$	Fade	255						
				0 200	Sparkl ED #9 Dimmer								
		61	9	0-255	$0 \rightarrow 100\%$	Fade	255						
				0 200	Sparkl ED #10 Dimmer								
		62	10	0-255	$0 \rightarrow 100\%$	Fade	255						
				0 200	Sparkl ED #11 Dimmer								
		63	11	0-255	$0 \rightarrow 100\%$	Fade	255						
				0 200	Sparkl FD #12 Dimmer								
		64	12	0-255	$0 \rightarrow 100\%$	Fade	255						
				0 200	Sparkl ED #13 Dimmer								
		65	13	0_255	$0 \rightarrow 100\%$	Fade	255						
				0-200	Sparkl ED #14 Dimmer								
		66	14	0.055		Fade	255						
				0-255	$0 \rightarrow 100\%$								

Standard	Pixels	Extended	SparkLED	Value	Function	Fade Status	Default Value	
				SparkLE	D Control			
		67	15		SparkLED #15 Dimmer	Eade	255	
		07	15	0-255	$0 \rightarrow 100\%$	Faue	200	
		69	16		SparkLED #16 Dimmer	Eado	055	
		00	10	0-255	0 → 100%	Faue	200	
		60	17		SparkLED #17 Dimmer	Eade	255	
		09	17	0-255	0 → 100%	Fade		
		70	10		SparkLED #18 Dimmer	Eado	255	
			10	0-255	$0 \rightarrow 100\%$	Fade	200	
		71	71	10		SparkLED #19 Dimmer	Fada	255
			19	0-255	$0 \rightarrow 100\%$	raue	200	
		70	20		SparkLED #20 Dimmer	Fada	055	
		12	20	0-255	$0 \rightarrow 100\%$	Fade	200	
		70	21		SparkLED #21 Dimmer	Eado	255	
		75	10 21	0-255	$0 \rightarrow 100\%$	Faue	200	
		74	74 00		SparkLED #22 Dimmer	- Fade	255	
		74	22	0-255	$0 \rightarrow 100\%$			
		75	02		SparkLED #23 Dimmer	<b>F</b> aala	055	
		75	23	0-255	$0 \rightarrow 100\%$	raue	200	
		76	24		SparkLED #24 Dimmer	Fada	055	
		70	24	0-255	$0 \rightarrow 100\%$	Fade	200	
		77	25		SparkLED #25 Dimmer	Fada	055	
		11	20	0-255	$0 \rightarrow 100\%$	Fade	200	
		70	26		SparkLED #26 Dimmer	Fada	055	
		78	20	0-255	0 → 100%	Fade	200	
		70	27		SparkLED #27 Dimmer	Eade	255	
		19	27	0-255	$0 \rightarrow 100 \overline{\%}$	Faue	255	
		00	00		SparkLED #28 Dimmer	Fodo	OFF	
		80	20	0-255	$0 \rightarrow 100\%$	гаце	200	

CC	COLOR TEMPERATURE CONTROL TABLE										
Color	DMX	Color	DMX	Color	DMX						
Temperature	Value	Temperature	Value	Temperature	Value						
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	79	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						
3230	30	5950	90	9700	144						
3300	20	6050	91	8700 8750	145						
3400	30	6100	92	8800	140						
3400	40	6150	93	8850	147						
3500	40	6200	94	8900	140						
3550	42	6250	96	8950	150						
3600	43	6300	97	9000	151						
3650	44	6350	98	9050	152						
3700	45	6400	99	9100	153						
3750	46	6450	100	9150	154						
3800	47	6500	101	9200	155						
3850	48	6550	102	9250	156						
3900	49	6600	103	9300	157						
3950	50	6650	104	9350	158						
4000	51	6700	105	9400	159						
4050	52	6750	106	9450	160						
4100	53	6800	107	9500	161						
4150	54	6850	108	9550	162						
4200	55	6900	109	9600	163						
4250	56	6950	110	9650	164						
4300	57	7000	111	9700	165						
4350	58	7050	112	9750	166						
4400	59	7100	113	9800	167						
4450	60	7150	114	9850	168						
4500	61	7200	115	9900	169						
4550	62	7250	116	9950	170						
4600	63	7300	117	10000	171						
4650	64	7350	118								

# 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)

<b>Sinewave</b> (default)	$\bigcirc$
Step	
Sawtooth	$\sim$ t
Ramp Up	Ť
Ramp Down	† 7

# 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	DMX	Name	FX Adjustment		
REVISED WITH SOFTWARE UPDATE VERSION ≥1.2.2						
	0	0	OFF			
			Sinewave Cross (default)			
	1	1	$\bigcirc$			
	2	2	Sinewave Full			
	3	3	Sawtooth Cross			
_		3	$\rightarrow$			
Waveform			Sawtooth Full			
	4	4	$\searrow$			
	5	5	Ramp Up			
			Ramp Down			
	6	6	1			
			Step			
	7	7				
	8-10	8-10	No Function			

	RGBW FX TABLE						
Туре	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			
ity –	33	33	Ring - Center Fade	Reverse, Stop, Forward			
su	34	34	X - Bar	Reverse, Stop, Forward			
Ite	35	35	Diagonals	Reverse, Stop, Forward			
l	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			
	40	40	Chase 2	Reverse, Stop, Forward			
	47	47	Chase 3	Reverse, Stop, Forward			
	40	40	Chase 4	Reverse, Stop, Forward			
	49	49 50	Chase 5	Reverse, Stop, Forward			
	50	50	Chase 6	Reverse, Stop, Forward			
	50	50	Chase 7	Reverse, Stop, Forward			
	52	52	Chase 6	Reverse, Stop, Forward			
	53	53	Chase 9	Reverse, Stop, Forward			
	55 50	55 50		No Eurotion			
	60-09	60	Center Chase	Reverse Stop Forward			
	61	61	Center Chase 2	Reverse Stop Forward			
	62-100	62-100	No Function	No Function			
	02 100	02 100					

Static Patterns	55 56 57	DMX REVIS 55	Name ED WITH SOFTWARE UPDATE VE	FX Adjustment
Static Patterns	55 56 57	REVIS 55	ED WITH SOFTWARE UPDATE VE	
Static Patterns	55 56 57	55		:RSION ≥1.2.2
Static Patterns	56 57	· · · · · · · · · · · · · · · · · · ·	Center Chase	Reverse, Stop, Forward
Static Patterns	57	56	Center Chase 2	Reverse, Stop, Forward
Static Patterns		57	Alternate	Reverse, Stop, Forward
Static Patterns	58	58	Burst SparkLED	Reverse, Stop, Forward
Big Static Patterns	59	59	Burst RGBW	Reverse, Stop, Forward
Big Static Patterns	60	60	Strobe Alternate	Reverse, Stop, Forward
Billion Static Patterns	62	62	Lens/SparkLED Alternate	Reverse, Stop, Forward
Static Patterns	6-100	66-100	No Function	No Function
Static Patterns	101	101	Тор 2	Disabled
Static Patterns	102	102	Center 3	Disabled
Static Patterns	103	103	Bottom 2	Disabled
Static Patterns	104	104	Top and Bottom	Disabled
Static Patter	105	105	X	Disabled
Static Patt	106	106	Ring	Disabled
Static P	107	107	Center Dot	Disabled
	108	108	Slash	Disabled
<b>X</b> i	109	109	Backslash	Disabled
11	110	110	Arrow Left	Disabled
11	111	111	Arrow Right	Disabled
11	112	112	<	Disabled
11	113	113	>	Disabled
	14-130	114-130	No Function	No Function

	RGBW FX TABLE						
Туре	Slot	DMX	Name	FX Adjustment			
	131-255	131-255	No Function	No Function			
	REVISED WITH SOFTWARE UPDATE VERSION ≥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			
or	146	146	RGB Rows	Reverse, Stop, Forward			
lo	147	147	RGB Columns	Reverse, Stop, Forward			
0	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					
Туре	Slot	DMX	Name	FX Adjustment	
	0	0	OFF		
Waveform	1	1	Sinewave (default)		
	2	2	Step		
	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
		REVISE	D WITH SOFTWARE UPDATE \	/ERSION ≥1.1.1
	0	0	OFF	
Waveform	1	1	Sinewave Cross (default)	
	2	2	Sinewave Full	
	3	3	Sawtooth Cross	
	4	4	Sawtooth Full	
	5	5	Ramp Up	
	6	6	Ramp Down	
	7	7	Step	
	8-10	8-10	No Function	

SparkLED FX TABLE				
Туре	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
Ê	19	19	Single Row	Reverse, Stop, Forward
Q	20	20	3 Rows	Reverse, Stop, Forward
Ļ	21	21	Single Column	Reverse, Stop, Forward
arl	22	22	3 Column	Reverse, Stop, Forward
Sp	23	23	Pixel Ring Chase	Reverse, Stop, Forward
	24	24	Pixel Row Chase	Reverse, Stop, Forward
	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		No Function
	92	92		
SOS	93	93		
БĘ	94	94		
Ч Г Г	95	95	No Function	
s C	96	96		
Sp en:	97	97		
Ľ	98	98		
	99	99		
	100	100		

SparkLED FX TABLE					
Туре	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	
ler	111	111	Backslash	Reverse, Stop, Forward	
eth	112	112	Slash Back	Reverse, Stop, Forward	
ge	113	113	$\diamond$	Reverse, Stop, Forward	
to	114	114	~	Reverse, Stop, Forward	
no	115	115	>>	Reverse, Stop, Forward	
Ę	116	116	<<	Reverse, Stop, Forward	
tur	117	117	Rotating Bar	Reverse, Stop, Forward	
#	118	118	Rotating Dot	Reverse, Stop, Forward	
SL	119	119	Rotating 2 Dot	Reverse, Stop, Forward	
е	120	120	Ring 2 Cell	Reverse, Stop, Forward	
ЭС	121	121	Ring 2 Cell Overlap	Reverse, Stop, Forward	
t	122	122	Ring 3 Cell Blend	Reverse, Stop, Forward	
in	123	123	Ring - Center Fade	Reverse, Stop, Forward	
<b>D</b> <b>H</b>	124	124	X - Bar	Reverse, Stop, Forward	
Ĺ	125	125	Diagonals	Reverse, Stop, Forward	
arł	126	126	Arrow Left	Reverse, Stop, Forward	
Ő	127	127	Arrow Right	Reverse, Stop, Forward	
=	128	128	2 Pixels	Reverse, Stop, Forward	
(a	129	129	3 Pixels	Reverse, Stop, Forward	
su	130	130	4 Pixels	Reverse, Stop, Forward	
eri	131	131	1,2,3,4 pixels	Reverse, Stop, Forward	
att	132	132	Ring Build	Reverse, Stop, Forward	
ã	133	133	Ring Build Erase	Reverse, Stop, Forward	
su	134	134	Ring Build Erase 2	Reverse, Stop, Forward	
Le	135	135	Chase 1	Reverse, Stop, Forward	
	136	136	Chase 2	Reverse, Stop, Forward	
Εn	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 /	Reverse, Stop, Forward	
	142	142		Heverse, Stop, Forward	
	143	143	Chase 9	Reverse, Stop, Forward	
	144	144		Reverse, Stop, Forward	
	145	145	Center Chase	Reverse, Stop, Forward	
	140	140	Venter Unase 2	neverse, Stop, Forward	
	147-200	147-200			

SparkLED FX TABLE					
Туре	Slot	DMX	Name	FX Adjustment	
Lens Static Patterns EDs in lens turn on together)	201	201	Тор 2	Disabled	
	202	202	Center 3	Disabled	
	203	203	Bottom 2	Disabled	
	204	204	Top and Bottom	Disabled	
	205	205	Х	Disabled	
	206	206	Ring	Disabled	
	207	207	Center Dot	Disabled	
	208	208	Slash	Disabled	
	209	209	Backslash	Disabled	
	210	210	Arrow Left	Disabled	
	211	211	Arrow Right	Disabled	
Fu (all Spa	212	212	<	Disabled	
	213	213	>	Disabled	
	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	
tern	231	231	Row 6	Disabled	
	232	232	Row 7	Disabled	
Dat	233	233	Column 1	Disabled	
	234	234	Column 2	Disabled	
SparkLEI	235	235	Column 3	Disabled	
	236	236	Column 4	Disabled	
	237	237	Column 5	Disabled	
	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)			
TILT Er	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.			
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.

#### EFFECTS

Motorized Zoom Linear Color Temperature Presets (2,000-10,000K) RGBW Color Mixing and Pixel Control White SparkLED<sup>™</sup> Lens Effect Color Presets and Macros Electronic Strobe and Variable Dimming Curves 16-bit Dimming

#### COLOR

RGBW

#### **CONTROL / CONNECTIONS**

3 DMX Channel Modes (25 / 52 / 80) 360° Continuous Pan and Tilt Movement DMX Adjustable Refresh Rate (900 -25000 Hz) (6) Button Touch Panel Full Color 180° Reversible LCD Menu Display IP65 5pin XLR DMX In/Out IP65 RJ45 Ethernet In/Out TRUE1 Power In

#### SIZE / WEIGHT

Length: 14.31 in (363.4mm) Width: 10.24 in (259.97mm) Height: 18.58 in (493.44mm) Weight: 41.0 lbs. (18.6kg)

#### **ELECTRICAL / THERMAL**

AC 100-240V - 50/60Hz Max Power Consumption 700W 14°F to 113°F (-10°C to 45°C)

#### **APPROVALS / RATINGS**

CE | IP65



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