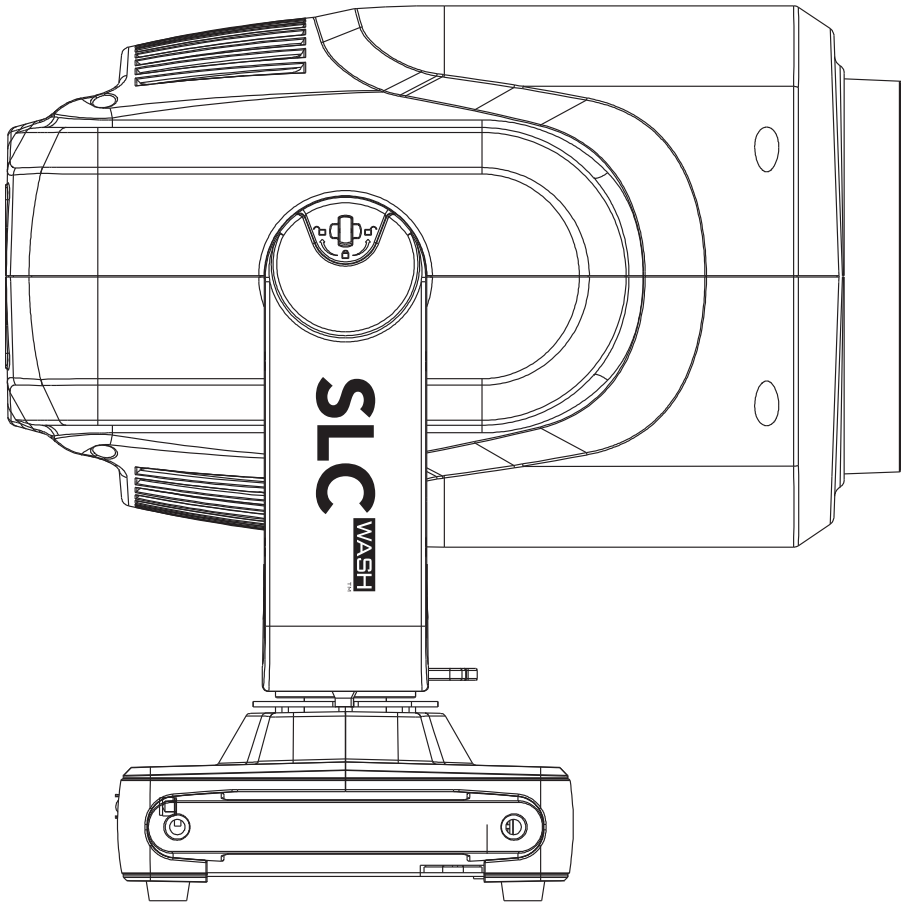
SLC WASH™

powered by ELATION PROFESSIONAL



User Manual

SLC WASH | user manual

STATIC LIGHT COMPANY.COM

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D O C U M E N T V E R S I O N

Due to additional product features and/or enhancements, an updated version of this document may be available.

Please check with Static Light Company for the latest revision/update of this manual, before beginning installation and/or programming.

Date	Document Version	Software Version ≥	DMX Channel Modes	Notes
10/31/17	1.2	2.0.1	6 / 11 / 13	Updated release.
12/11/17	1.4	2.0.2	N/C	Updated default system menu items, ETL.
10/24/18	1.6	2.0.3	N/C	Added Pan/Tilt Motor Disable via Control Panel.

C O N T E N T S

G E N E R A L I N F O R M A T I O N

INTRODUCTION

This fixture has been designed to perform reliably for years when the guidelines in this manual are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

UNPACKING

Every fixture has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton/road case for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit for damage and be sure all accessories necessary to operate the unit 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 unit to your dealer without first contacting customer support at the number listed below. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

EACH UNIT INCLUDES

(2) Omega Brackets
(2) Quick Rig Clamps
(1) Safety Cable
(1) Light Filter Gel Holder

I M P O R T A N T N O T I C E !

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 and general user instructions found in this user manual void the manufactures warranty and are not subject to any warranty claims and/or repairs.

SAFETY GUIDELINES

This fixture is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. The manufacturer of this device 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 mounting hardware included will void the original manufactures warranty and increase risk of damage and/or personal injury.

PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED

DO NOT PLUG FIXTURE INTO A DIMMER PACK!

NEVER OPEN THIS FIXTURE WHILE IN USE!

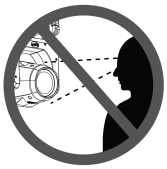
UNPLUG POWER BEFORE SERVICING FIXTURE!

NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!

KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!

INDOOR / DRY LOCATIONS USE ONLY!

DO NOT EXPOSE FIXTURE TO RAIN AND MOISTURE!

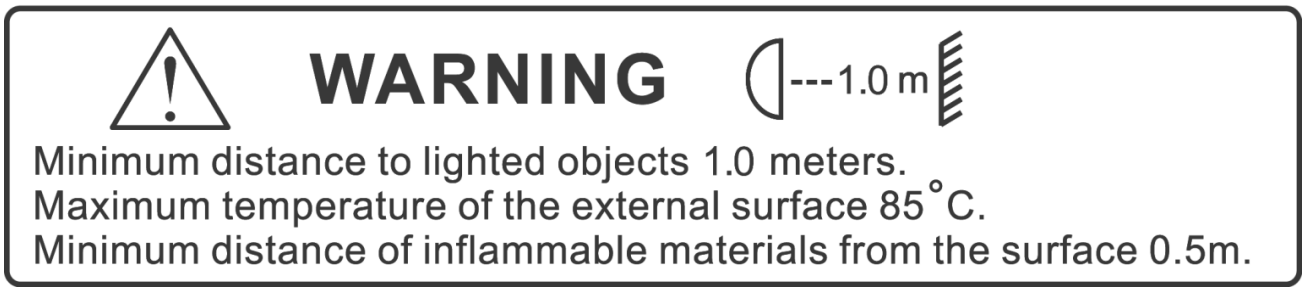


NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!

RETINA INJURY RISK - MAY INDUCE BLINDNESS!

SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!

SAFETY INSTRUCTIONS AND 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 has become 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 fixture ventilation slots. These must remain clean and never blocked. For proper cooling, allow approx. 6” (15cm) between fixture and other devices or a wall.

When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always install with an appropriately rated safety cable.

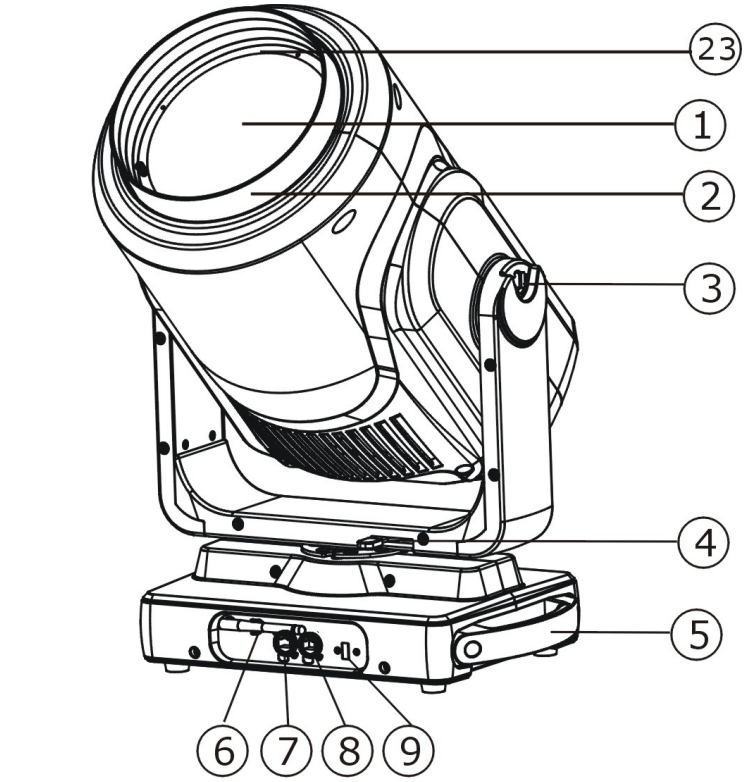
Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.

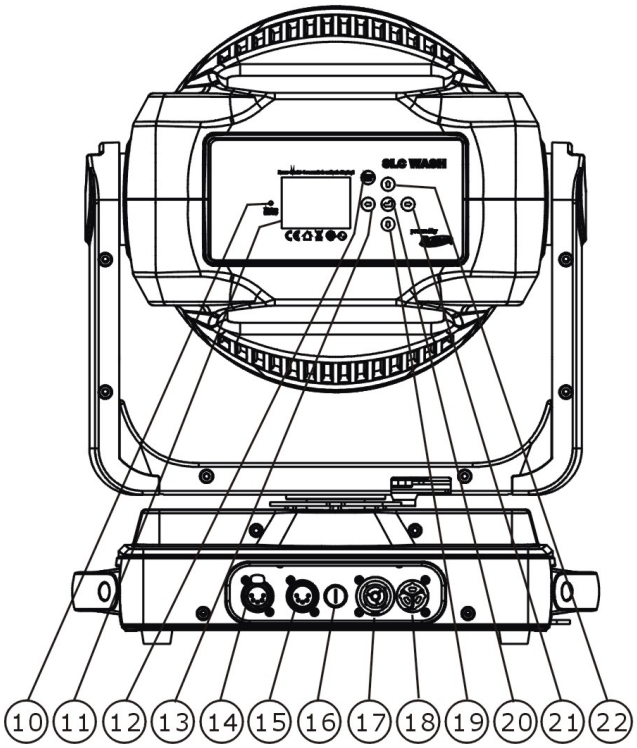
During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.

Consistent operational breaks will support an extended life of the fixture.

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

O V E R V I E W





1. **LED Lens**
2. **Bezel**
3. **TILT Lock**
4. **PAN Lock**
5. **Handles (x2)**
6. **E-FLY Wireless Antennae**
7. **RJ45 etherCON IN**
8. **RJ45 etherCON OUT**
9. **USB Update Port**
10. **E-FLY Wireless Indicator**
11. **LCD Menu Function Display**
12. **MODE/ESC Button**
13. **LEFT Button**
14. **5pin DMX IN**
15. **5pin DMX OUT**
16. **Fuse**
17. **powerCON TRUE1 OUT**
18. **powerCON TRUE1 IN**
19. **DOWN Button**
20. **ENTER Button**
21. **RIGHT Button**
22. **UP Button**
23. **Gel Filter Holder**

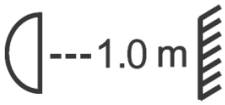
INSTALLATION

FLAMMABLE MATERIAL WARNING

Keep fixture at least 5.0 feet (1.5m) away from any flammable materials, decorations, pyrotechnics, etc.

ELECTRICAL CONNECTIONS

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

WARNING 

Minimum distance to lighted objects 1.0 meters.
Maximum temperature of the external surface 85°C.
Minimum distance of inflammable materials from the surface 0.5m.

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

Fixture(s) MUST be installed following all local, national, and country commercial electrical and construction codes and regulations. Before rigging/mounting the fixture to any metal truss/structure or placing the fixture on any surface, a professional equipment installer MUST be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture, clamps, cables, and accessories.

Ambient operating temperature range for this fixture is **14° to 113°F. (-10° to 45°C)**, do not use the fixture under or above this temperature. Fixture should be installed in areas outside walking paths, seating areas, or away from areas were unauthorized personnel might reach the fixture by hand. NEVER stand directly below the fixture when rigging, removing or servicing. Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable that can hold 10 times the weight of the fixture. Allow approximately 15 minutes for the fixture to cool down before serving.

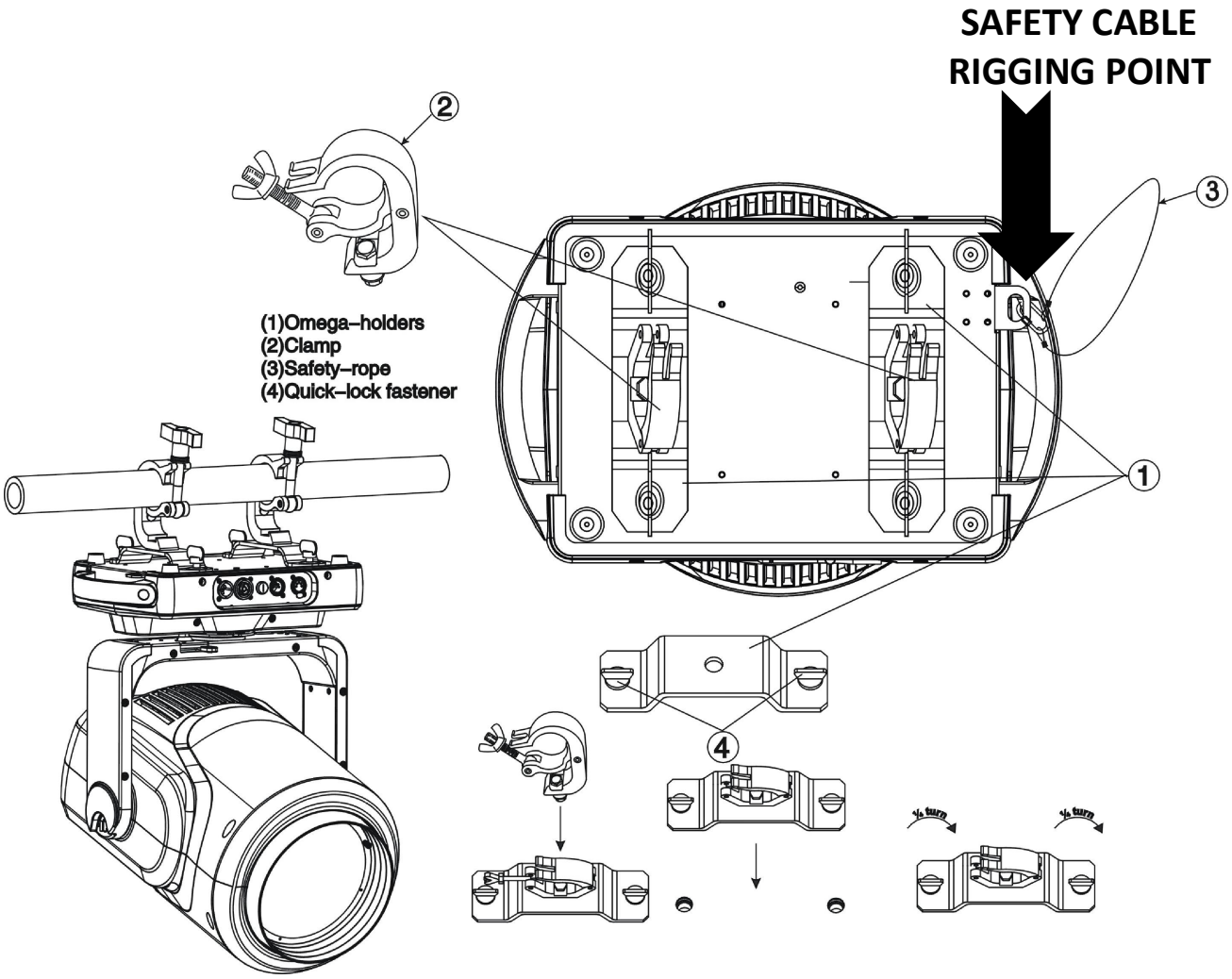
POWER LINKING - MAX NUMBER UNITS POWER LINKED: 2 @120V | 4 @240V

MAX POWER OUT = 12 Amps - USE CAUTION WHEN POWER LINKING OTHER FIXTURES TO SLC WASH AS THE POWER CONSUMPTION OF OTHER LIGHTING FIXTURES WILL VARY!

OMEGA BRACKETS INSTALLATION

Insert the **Omega Brackets** into the matching holes on the bottom of the fixture.

Secure the **Omega Brackets** to the fixture by turning each quick-lock fastener ¼ turn clockwise; making sure the fastener is completely locked.

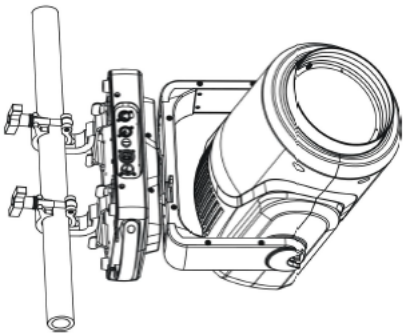


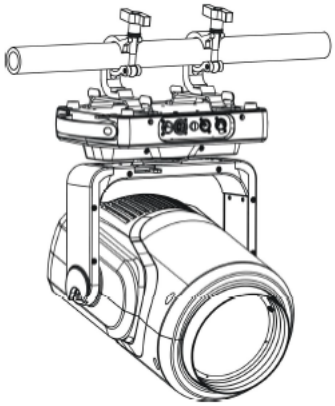
CLAMP INSTALLATION

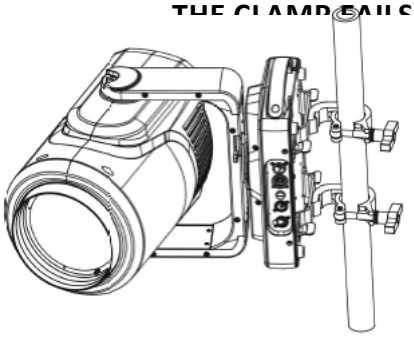
When mounting fixture to truss, be sure to secure an appropriately rated professional grade rigging clamp to the included **Omega Brackets** using an M10 screw fitted through the center hole of the **Omega Brackets**. The fixture provides a built-in rigging point for a **SAFETY CABLE**. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

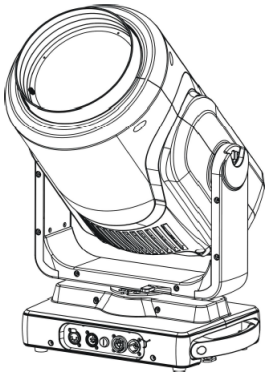
RIGGING

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. Fixture is fully operational in the specific mounting positions illustrated below.









S A F E T Y C A B L E

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

ART-NET 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.

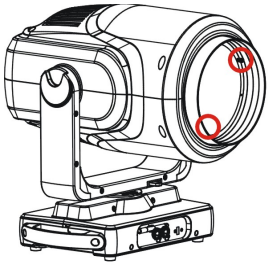
https://en.wikipedia.org/wiki/Internet_Group_Management_Protocol

LIGHT FILTER GEL HOLDER

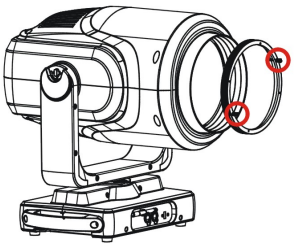
Light filter gels may be added in front of the LED lens. Follow the instructions below.

FIXTURE MUST BE POWERED OFF AND COOL FOR MINIMUM 1 HOUR BEFORE INSTALLING OR REMOVING A LIGHT FILTER GEL!

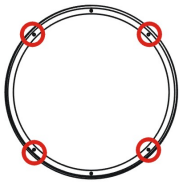
DO NOT OVER TIGHTEN HOLDER SCREWS!



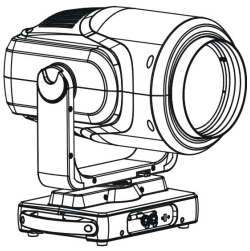
Picture1



Picture2



Picture3



Picture4

1. Place fixture on a flat surface, power OFF and let cool for 1 hour.

2. Using both hands, hold 2 thumbscrews and slowly rotate holder counter-clockwise. (Pic 1)

3. Slowly rotate holder counter-clockwise until fully removed from bezel. (Pic 2)

4. Loosen 4 screws to remove inside flange from the holder to install/remove a light filter gel. (Pic 3)

5. Tighten 4 screws to secure flange inside the holder to hold light filter gel. (Pic 3)

6. Using both hands, hold 2 thumbscrews and slowly rotate holder clockwise to install inside the bezel. (Pic 2)

7. If installed properly, holder should be secured and not loose inside bezel. (Pic4)

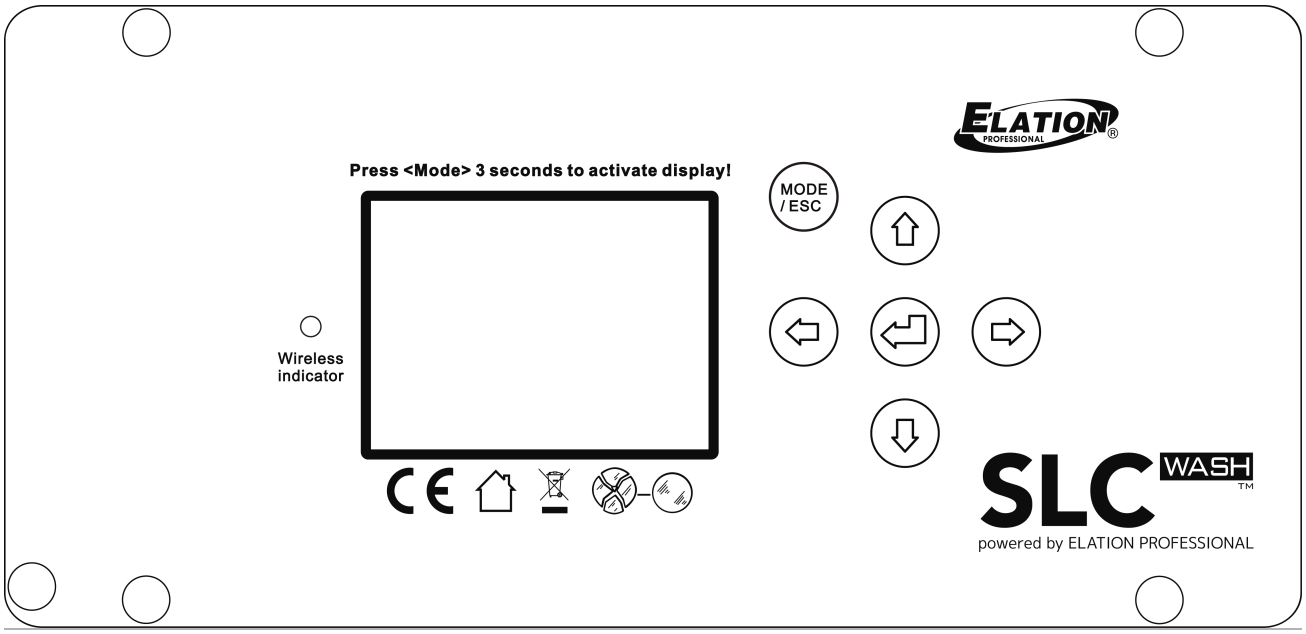
SYSTEM MENU

The fixture includes an easy to navigate system menu. The control panel (see image below) located on the bottom back side of the moving head, provides access to the main system menu where all the 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 SYSTEM MENU
Press **MODE/ESC** button for 3 seconds.

TO DISABLE PAN/TILT MOTORS TO ACCESS SYSTEM MENU (Added w/Update v2.0.3)
To better access the control panel when the fixture is powered ON and the moving head is positioned upright, carefully reposition the moving head using both hands and press and hold the **ENTER** button for 5 seconds. This will disable the Pan/Tilt motors and provide easier access to control panel to make system menu setting changes. The Pan/Tilt motors will reengage after 10 seconds of no button press on the control panel.

TO ACCESS SYSTEM MENU VIA THE INTERNAL BATTERY
Press and hold the **MODE/ESC** button for 3 seconds. The LCD Control Display will shut **OFF** automatically about 1 minute from the last button press.



SLC WASH™ SYSTEM MENU				
Supports Software Versions: ≥ 2.0.2				
Features are subject to change without any prior written notice.				
MAIN MENU	**SUB MENU**	**OPTIONS / VALUES** (Default Settings in **BOLD**)		**DESCRIPTION**
FUNCTION	Set Dmx Address	A001~AXXX		DMX Address Setting
	Dmx Value	ALL……		DMX Value Display
	Slave Mode	Slave1, Slave2, Slave3		Slave Setting
	Auto Program	Master / **Alone**		Auto Program
INFORMATION	Time Information	Current Time	XXXX (Hours)	Fixture Run Time From Power ON
		Total Run Time	XXXX (Hours)	Fixture Total Run Time
		Last Run Time	XXXX (Hours)	Fixture Last Run Time
		LastRun Password	Password=**038**	**(PSWD Required)**
		Clear Last Run	ON / **OFF**	Clear Fixture Last Run Time
	Temperature Info	Head Temperature	XXX C° / **F °**	Temperature in Fixture Head
	Ethernet IP	XXX . XXX . XXX . XXX	XXX . XXX . XXX . XXX	Displays Fixture Ethernet Address
	Fan info	HeadFan1		RPM Speeds of Head Fans
	Software Version	1U01: - 3U01:	**≥V2.0.2**	Software Version
	Error Info	Error Record 1 ~ Error Record 10		Fixture Last 10 Error Codes
PERSONALITY	Status Settings	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	630/**540**	Pan Degree Select
		Feedback	**ON**/OFF	Movement Feedback
		Zoom Limit	**ON**/OFF	Zoom Range Limit Setting
	Service Setting	Password	Password=**050**	Service Password
		RDM UID	**22A6xxxxxxxx**	RDM PID Code **(PSWD Required)**
		Clear Err. Info	ON/**OFF**	Clear Error Info **(PSWD Required)**
		DFLT Pow. EflyOn	ON/**OFF**	Set E-FLY Default Power State to ON
		USB Update	YES/**NO**	For Software Updates Only.
	Fans Control	**Auto**, High, Silent		Select Fan Speeds
	Display Setting	Shutoff Time	02~60m **05m**	Display Shut Off Time
		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	PAN =XXX		Initial Effect Position
	Select Signal	E-FLY Off		Disable E-FLY Wireless Transceiver
		DMX & E-FLY		Activate 5pin DMX and E-FLY
		E-FLY & OUT		Activate E-FLY and 5pin DMX OUT
		Art-Net		Activate Art-Net
		sACN		Activate sACN
	Ethernet IP	XXX . XXX . XXX . XXX		Set Ethernet IP (PSWD Required)
	Ether Mask IP	XXX . XXX . XXX . XXX		Set Ethernet Mask IP (PSWD Required)
	Set Universe	**000** - 32767		Set ArtNet Universe
	Set E-FLY Chn	**00** - 14		Set E-FLY Wireless Channel
	Dimmer Mode	**Standard**, Stage, TV, Architectural, Theatre		Set Dimmer Curve
	Refresh	**1200**, 900-1500, 2500, 4000, 5000, 10000, 15000, 20000, 25000 (Hz)		Set Refresh Rate
	Gamma	2.0, **2.2**, 2.4, 2.6, 2.8		Set Gamma Value
	Reset Default	ON/**OFF**	Password=**011**	Restore Factory Settings **(PSWD Required)**

SLC WASH™ SYSTEM MENU				
Supports Software Versions: ≥ 2.0.2				
Features are subject to change without any prior written notice.				
MAIN MENU	**SUB MENU**	**OPTIONS / VALUES** (Default Settings in **BOLD**)		**DESCRIPTION**
Reset Function	Reset All			Reset All Motors
	Reset Pan&Tilt			Reset Pan/Tilt
	Reset Others			Reset Other Motors
Effect Adjust	Test Channel	PAN ……		Test function
	Manual Control	PAN =XXX, ...		Fine Adjustments
	Calibration	Calibration Password		Password **050 (PSWD Required)**
User Mode Set	User Mode	Standard Mode (11 Channels)		DMX Channel Modes
		Basic Mode (6 Channels)		
		Extended Mode (13 Channels)		
		User Mode A		User Defined Channel Assignment
		User Mode B		
		User Mode C		
	Edit User Mode	Edit User Mode A	Max Channel = XX PAN = CH01	Edits User Defined Channel Assignments
		Edit User Mode B		
		Edit User Mode C		
Edit Program	Select Program	Auto Pro Part1 = Program 1~10 **(Program 1)**		Select Programs To Be Run
		Auto Pro Part2 = Program 1~10 **(Program 2)**		
		Auto Pro Part3 = Program 1~10 **(Program 3)**		
	Edit Program	Program 1	Program Test	Testing Program
		:	Step 01=SCxxx	Program In Loop
		Program 10	Step 64=SCxxx	Save and Exit
	Edit Scenes	Scene 001 ~ Scene 250	Pan,Tilt,……	Save and Automatically Return
			--Fade Time-- --Scene Time--	Manual Scenes Edit
			Input By Outside	Stores Scenes via Ext DMX Console
	Rec. Controller	XX~XX		Automatic Scenes Recorder

PERSONALITY - Status Settings - <u>Address Via DMX</u>

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

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

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

   Example 2: If the desired DMX address is **420**, set **Channel 1** to a value of **(7)**, set **Channel 2** to a value of **(8)**, and then set **Channel 3** to a value of **(164)**. (256+164=420)
5. After setting **Channel 3** to the desired DMX address value, wait for approximately 20 seconds (some fixtures may require a longer time) for the fixture to complete the address reset function.

PERSONALITY – Service Setting - <u>Password</u> (050)

NOTE: The Service Password MUST be entered in order to access the following menus:

RDM PID, Ethernet IP, Ethernet IP Mask, and **Clear Err. Info**.

PERSONALITY – Service Setting - <u>RDM PID</u>

Select various submenus via RDM. RDM stands for "Remote Device Management", which provides the ability to control the device remotely while connected to a DMX-bus. ANSI E1.20-2006 by ESTA specifies the RDM standard as an extension of the DMX512 protocol. Manual settings like adjusting the DMX starting address are no longer needed. This is especially useful when the device is installed in a remote area.

RDM ready and conventional DMX devices can be operated in one DMX line. The RDM protocol sends its own packages in the DMX512 data feed and does not influence conventional devices. If DMX splitters are used and RDM control is to be used, these splitters must support RDM. The number and type of RDM parameters depend on the RDM controller being used.

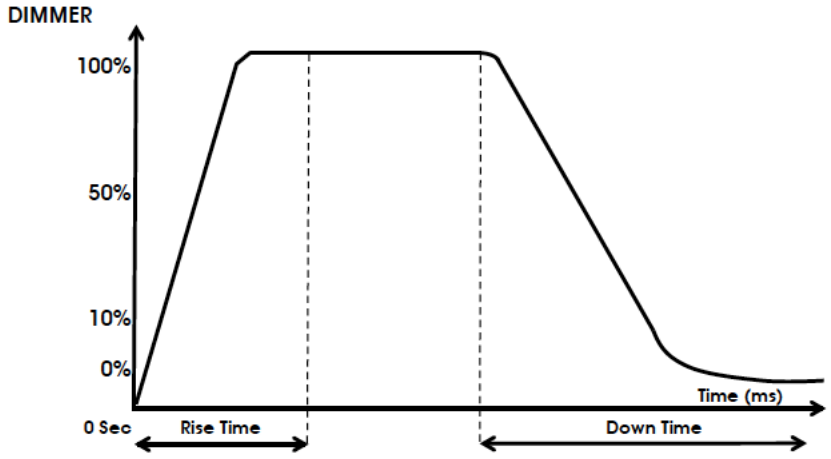
PERSONALITY - Display Setting – <u>Key Lock</u>

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 - <u>Dimmer Modes</u>

Select desired DIMMER MODE (**Standard**, Stage, TV, Architectural, Theatre).



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

PERSONALITY - <u>Reset Default</u> (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 – <u>Test Channel</u>

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

EFFECT ADJUST – <u>Manual Control</u>

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

USER MODE SET – Edit User Mode

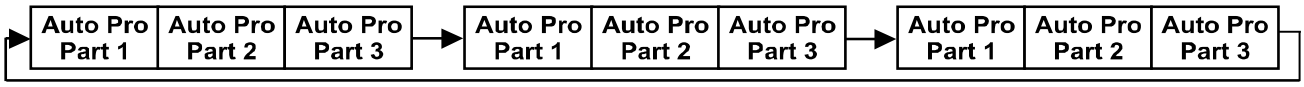
Create user defined channel orders allowing the fixture to match the channel order of other fixtures on the market for easier operation. A total of three user modes may be configured: User Mode A, User Mode B, and User Mode C.

EDIT PROGRAM – Rec. Controller

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

EDIT PROGRAM – Record Controller – Working With Built In Programs

A 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”**.

EDIT PROGRAM – Record Controller – <u>Working With Built-In Program [continued]</u>

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.

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.

EDIT PROGRAM – Record Controller – <u>Working With Built-In Program [continued]</u>

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"**.

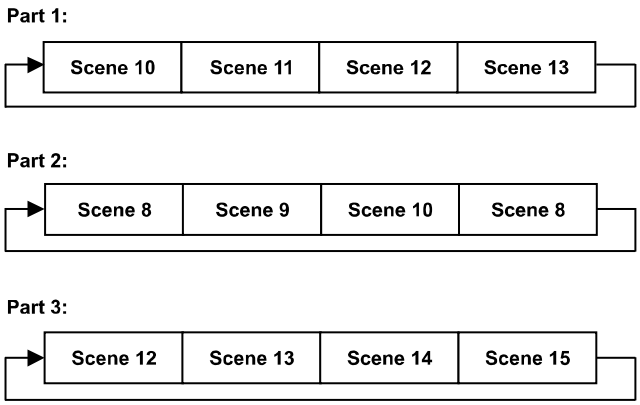
• Select desired scene numbers. A maximum of 250 scenes can be programmed.

• 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 diagram below)



E-FLY WIRELESS DMX SET UP

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

TO CONTROL FIXTURE WITH E-FLY WIRELESS DMX SIGNAL

1. Ensure source **E-FLY** wireless DMX Transceiver device is powered **OFF**.

2. Power **ON** fixture and from the fixture LCD control panel select **DMX & E-FLY** or **E-FLY & OUT** in the **Select Signal** sub menu of the **PERSONALITY** main system menu.

3. From the fixture LCD control panel set the **E-FLY** wireless channel to the same wireless channel of the source **E-FLY** DMX Transceiver device in the **Set E-FLY Chn** sub menu of the **PERSONALITY** main system menu.

NOTE: Erratic fixture movement may occur if other **E-FLY** wireless DMX products are in use in the same area and are using the same **E-FLY** wireless channel. The fixture may immediately start to respond to the DMX wireless signal from another **E-FLY** wireless DMX Transceiver immediately when **E-FLY** is enabled. Make sure to know what **E-FLY** wireless channels are being used in the area where the fixture is being installed.

4. Set fixture DMX address in the **Set Dmx Address** sub menu of the **FUNCTION** main system menu**.**

5. The **E-FLY** signal Indicator on the fixture LCD control display will illuminate **GREEN** if a successful wireless DMX connection has been made or illuminate **RED** for NO connection. If no connection is made, repeat steps 1-4 above.

6. Repeat this process for all **E-FLY** compatible fixtures in the **E-FLY** wireless network, making sure all fixtures are assigned the same **E-FLY** wireless channel.

7. After all fixtures in the **E-FLY** wireless network have been set to the same **E-FLY** wireless channel and powered **ON**, now power **ON** the source **E-FLY** DMX Transceiver device.

8. Test all fixtures connected to the **E-FLY** wireless network to confirm proper functionality.

E-FLY WIRELESS DMX INSTALLATION LOCATION GUIDELINES

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

DMX CHANNEL FUNCTIONS AND VALUES

SLC WASH™

DMX Channel Values / Functions (13 Total DMX Channels)

Supports Software Version ≥ 2.0.2

BA = Basic 6 Channel / ST = Standard 11 Channel / EX = Extended 13 Channel

BA	ST	EX	VALUE	FUNCTION
1	1	1		PAN MOVEMENT
			0-255	8-bit pan movement
	2	2		PAN FINE MOVEMENT
			0-255	16-bit pan fine movement
2	3	3		TILT MOVEMENT
			0-255	8-bit tilt movement
	4	4		TILT FINE MOVEMENT
			0-255	16-bit tilt fine movement
3	5	5		WHITE LED
			0-255	8-bit (0-OFF, 255=100% Full ON Intensity)
		6		WHITE LED FINE
			0-255	Fine 16-bit control
		7		SHUTTER | STROBE
			0-31	LED OFF
			32-63	LED ON
			64-95	Strobe Effect SLOW to FAST
			96-127	LED ON
			128-159	Pulse-Effect in Sequences
			160-191	LED ON
			192-223	Random Strobe Effect SLOW to FAST
			224-255	LED ON
4	6	8		ZOOM
			0-255	Zoom Adjustment NARROW to WIDE
	7	9		DIMMING CURVE MODES
			0-20	Standard
			21-40	Stage
			41-60	TV
			61-80	Architectural
			81-100	Theatre
			101-255	Default to Unit Setting

SLC WASH™

DMX Channel Values / Functions (13 Total DMX Channels)

Supports Software Version ≥ 2.0.2

BA = Basic 6 Channel / ST = Standard 11 Channel / EX = Extended 13 Channel

BA	ST	EX	VALUE	FUNCTION
	8	10		LED REFRESH RATE
			0-15	Default to Unit Setting
			16-30	900Hz
			31-45	1000Hz
			46-60	1100Hz
			61-75	1200Hz
			76-90	1300Hz
			91-105	1400Hz
			106-120	1500Hz
			121-135	2500Hz
			136-150	4000Hz
			151-165	5000Hz
			166-180	10000Hz
			181-195	15000Hz
			196-210	20000Hz
			211-225	25000Hz
			226-255	OFF
	9	11		GAMMA BRIGHTNESS
			0-20	Default to Unit Setting
			21-40	2.0
			41-60	2.2
			61-80	2.4
			81-100	2.6
			101-120	2.8
			121-255	OFF
5	10	12		PAN / TILT MOVEMENT SPEED
			0-225	MAX to MIN Speed
			226-235	Blackout by Movement
			236-255	NO Function

SLC WASH™

DMX Channel Values / Functions (13 Total DMX Channels)

Supports Software Version ≥ 2.0.2

BA = Basic 6 Channel / ST = Standard 11 Channel / EX = Extended 13 Channel

BA	ST	EX	VALUE	FUNCTION
6	11	13		SPECIAL CONTROL
			0-69	Normal
			70-74	Enable Zoom Limit
			75-79	Disable Zoom Limit
			80-84	All Motors Reset
			85-87	Pan/Tilt Motors Reset
			88-90	Enable Scene By Input
			91-93	NO Function
			94-96	Store Scene 1 into Internal Memory
			97-99	Other Motors Reset
			100-119	Internal program 1 (Scene 1~8)
			120-139	Internal program 2 (Scene 9~16)
			140-159	Internal program 3 (Scene 17~24)
			160-179	Internal program 4 (Scene 25~32)
			180-199	Internal program 5 (Scene 33~40)
			200-219	Internal program 6 (Scene 41~48)
			220-239	Internal program 7 (Scene 49~56)
			240-255	NO Function

RECORDING INTERNAL PROGRAM VIA A DMX CONSOLE

This feature allows a custom scene to be recorded and saved to the fixture's internal memory, which is recalled each time the fixture is initially powered on. Follow the instructions below to store a custom scene to a single fixture or group of fixtures within a single universe. This feature is enabled by default.

To Create A Custom Scene

1. Connect a DMX console/controller to a single fixture or group of fixtures within in a single universe via DMX and power ON both the fixture and the DMX console/controller.

2. Depending on the User Mode the fixture or group of fixtures are set to **(Basic, Standard, Extended)**, select the **SPECIAL CONTROL** DMX channel **6 for Basic Mode**, **11 for Standard Mode**, or **13 for Extended Mode**, and adjust the DMX value between **88-90 (Enable Scene By Input)**, and continue to hold this value for this DMX channel.

3. Adjust Pan, Tilt, Dimmer, Shutter, Strobe, Zoom, Dimmer Mode, Refresh Rate, Gamma, and Pan/Tilt Movement Speed DMX channels to the desired DMX values. Fixture(s) will operate in real time so the desired scene can be viewed while making adjustments.

4. Depending on the User Mode the fixture or group of fixtures are set to **(Basic, Standard, Extended)**, select the **SPECIAL CONTROL** DMX channel **6 for Basic Mode**, **11 for Standard Mode**, or **13 for Extended Mode**, and adjust the DMX value between **94-96 (Store Scene 1 into Internal Memory)**, and continue to hold this value for this DMX channel for 3 seconds. The fixture(s) should momentarily flash indicating the programmed scene has been stored to STEP 1 (SCENE 1) of PROGRAM 1 in the internal memory of the fixture(s).

To Delete A Custom Scene

1.Follow steps 1-3 listed above.

2. Adjust Pan, Tilt, Dimmer, Shutter, Strobe, Zoom, Dimmer Mode, Refresh Rate, Gamma, and Pan/Tilt Movement Speed DMX channels to a DMX value of zero (0).

3. Follow step 4 listed above and the internal memory will be cleared.

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.

ELATION© SLC WASH™ E R R O R C O D E S	
Error Codes are subject to change without any prior written notice.	
ERROR CODE	**DESCRIPTION**
PAN	The PAN movement is not located in the default position after the reset. This message will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed or magnet is missing) or there is a motor failure (defective motor or a defective motor IC drive on the main PCB). This error may also be displayed if the head/yoke was blocked during a reset function.
TILT	The TILT 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 defective motor IC drive on main PCB). This error may also be displayed if the head was blocked during a reset function.
ZOOM	The ZOOM 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 defective motor IC drive on main PCB).
Headfan1	The speed (RPM) of Headfan1 is lower than the default or selected setting value and/or is disconnected and does not have power.
Headfan2	The speed (RPM) of Headfan2 is lower than the default or selected setting value and/or is disconnected and does not have power.
Head RM	The thermal sensor in the fixture head is defective.

C L E A N I N G A N D M A I N T E N A N C E

C A U T I O N

Disconnect power before cleaning or maintenance.

CLEANING

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

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

MAINTENANCE

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

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

Please refer to the following points during routine inspections:

A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.

Be sure all screws and fasteners are securely tightened at all times. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.

Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).

Electric power supply cables must not show any damage, material fatigue or sediments.

NEVER remove the ground prong from the power cable.

TECHNICAL SPECIFICATIONS

SOURCE

350W Cool White 6,000K COB LED Engine
50,000 Hour Average LED Life*
*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
High Speed Electronic Shutter and Strobe
16-Bit Variable Dimming Curve Modes
Variable LED Refresh Rate and Gamma Brightness

COLOR

Daylight White

CONTROL / CONNECTIONS

(3) DMX Channel Modes (13 Total Channels)
6 Button Touch Control Panel
Full Color 180° Reversible LCD Menu Display
8 / 16 Bit Resolution Adjustable Movement
DMX, RDM (Remote Device Management), Art-NET, sACN Protocol Support
Elation E-FLY™ Internal Wireless DMX Transceiver
5pin DMX In/Out
RJ45 Ethernet In/Out (Art-NET)
powerCON TRUE1 Power In/Out

SIZE / WEIGHT

Length: 15.7” (398mm)
Width: 11.6” (294mm)
Vertical Height: 24.4” (619mm)
Weight: 35.3 lbs. (16.0 kg)

ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz
420W Max Power Consumption
14°F to 113°F (-10°C to 45°C)

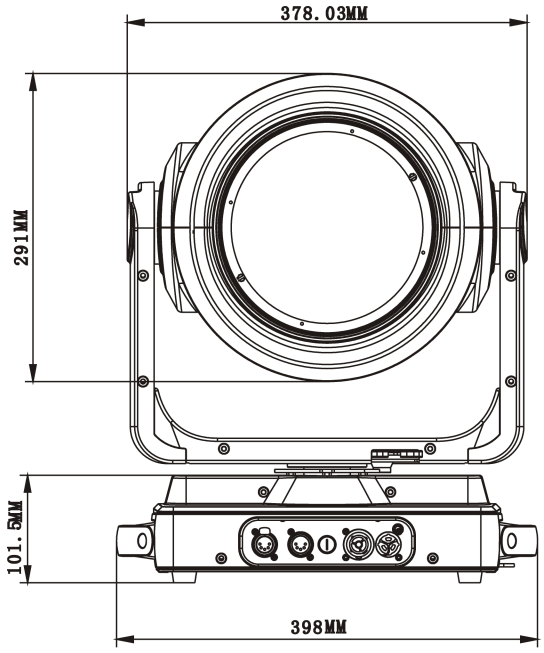
APPROVALS / RATINGS

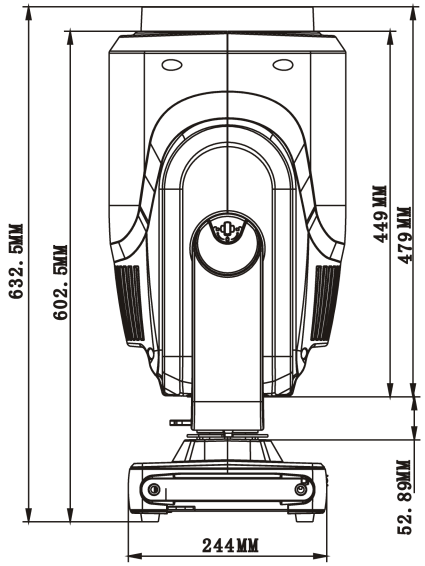
CE | IP20 |

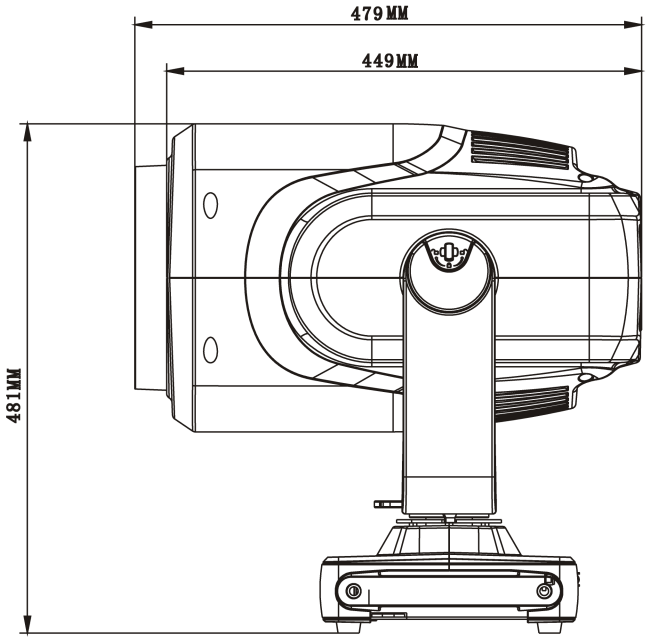
C ETL US
Intertek
4010832

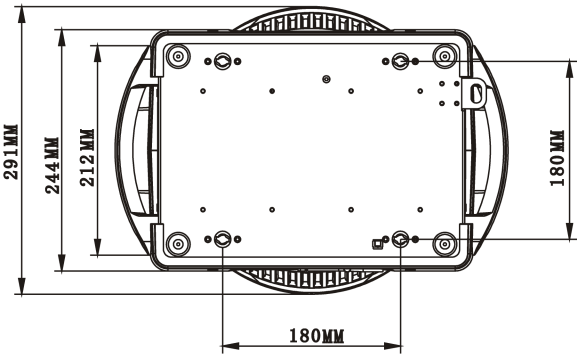
Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

DIMENSIONAL DRAWINGS









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