

# Showline

SL WASH 180 RGBW LED Luminaire



## Showline Offices

### Dallas

10911 Petal Street  
Dallas, TX 75238  
Tel: +1 214-647-7880  
Fax: +1 214-647-8030

### Auckland

19-21 Kawana Street  
Northcote, Auckland 0627  
New Zealand  
Tel: +64 9 481 0100  
Fax: +64 9 481 0101

### Asia

Unit C, 14/F, Roxy Industrial Centre  
No. 41-49 Kwai Cheong Road  
Kwai Chung, N.T., Hong Kong  
Tel: +852 2796 9786  
Fax: +852 2798 6545

### Europe

Rondweg zuid 85  
Winterswijk 7102 JD  
The Netherlands  
Tel: +31 (0) 543-542516

[www.philips.com/showline](http://www.philips.com/showline)

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Version as of: **11 December 2013**

SL WASH 180 RGBW LED Luminaire Installation & User's Manual

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# IMPORTANT INFORMATION

## Warnings and Notices

When using electrical equipment, basic safety precautions should always be followed including the following:



- a. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**
- b. Do not use outdoors.
- c. Do not mount near gas or electric heaters.
- d. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- e. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- f. Do not use this equipment for other than intended use.
- g. Refer service to qualified personnel.

**SAVE THESE INSTRUCTIONS.**



**WARNING:** You must have access to a main circuit breaker or other power disconnect device before installing any wiring. Be sure that power is disconnected by removing fuses or turning the main circuit breaker off before installation. Installing the device with power on may expose you to dangerous voltages and damage the device. A qualified electrician must perform this installation.

**WARNING:** Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

**WARNING:** This equipment is intended for installation in accordance with the National Electric Code® and local regulations. It is also intended for installation in indoor applications only. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

## Additional Resources for DMX512

For more information on installing DMX512 control systems, the following publication is available for purchase from the United States Institute for Theatre Technology (USITT), "Recommended Practice for DMX512: A Guide for Users and Installers, 2nd edition" (ISBN: 9780955703522). USITT Contact Information:

**USITT**  
**315 South Crouse Avenue, Suite 200**  
**Syracuse, NY 13210-1844**  
**Phone: 1.800.938.7488 or 1.315.463.6463**  
**[www.usitt.org](http://www.usitt.org)**

## Showline Limited Two-Year Warranty

Showline offers a two-year limited warranty of its luminaires against defects in materials or workmanship from the date of delivery. A copy of Showline two-year limited warranty containing specific terms and conditions can be obtained by contacting your local Showline office.

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# PREFACE

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## 1. About this Manual

The document provides installation and operation instructions for the following products:

- SL WASH 180 RGBW LED Luminaire

Please read all instructions before installing or using this product. *Retain this manual for future reference.* Additional product information and descriptions may be found on the product specification sheet.

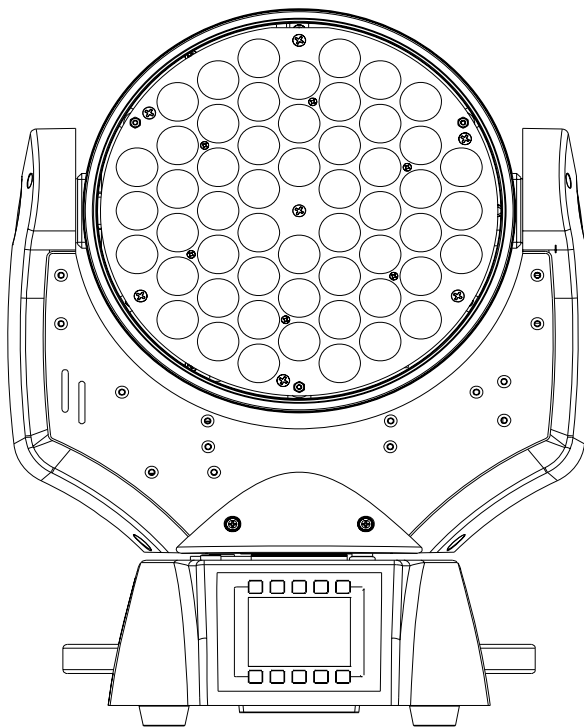
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**Note:** The SL WASH 180 RGBW LED Luminaires are universal voltage 100 to 240 VAC (auto-ranging).

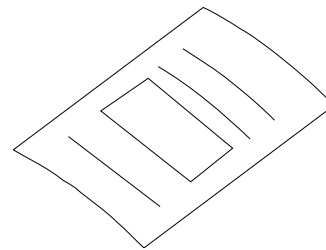
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## 2. Included Items

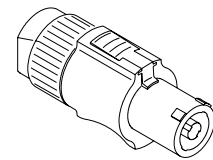
Each SL WASH 180 RGBW LED Luminaire includes the following items:



SL WASH 180 RGBW LED Luminaire



Unpack & Quick  
Start Guide



Neutrik PowerCon®  
AC Input Connector

## 3. Accessories

Contact your Authorized Showline Dealer for price and availability of all accessories for SL WASH 180 RGBW LED Luminaires.

# SL WASH 180 RGBW LED LUMINAIRE OVERVIEW

## 1. SL WASH 180 RGBW LED Luminaire Components

### Common Luminaire Components

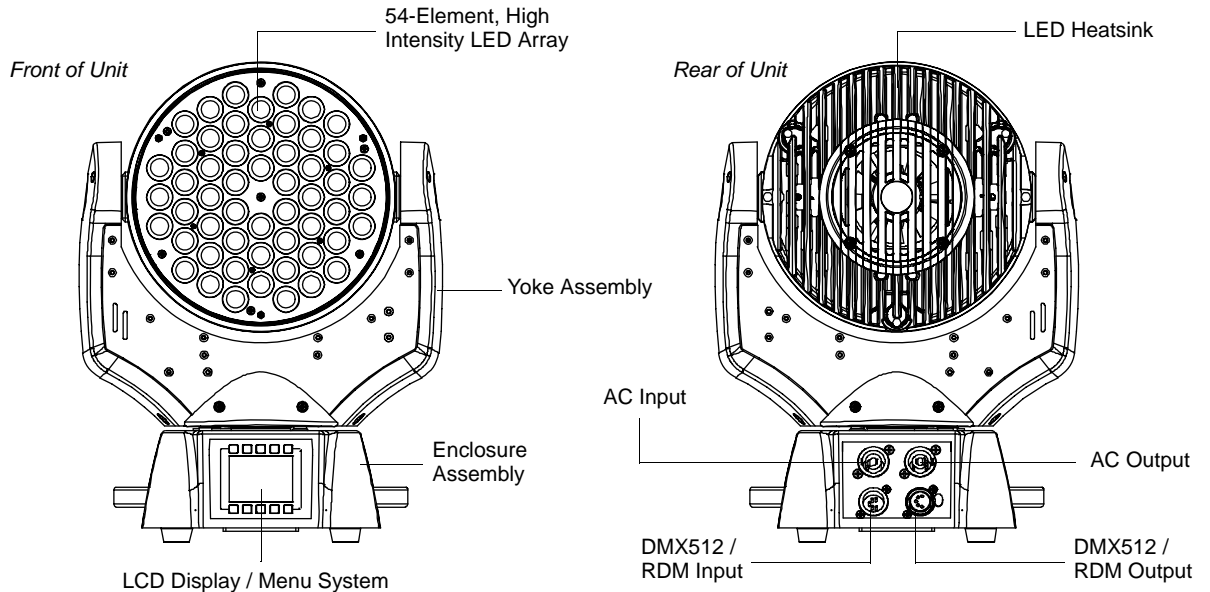
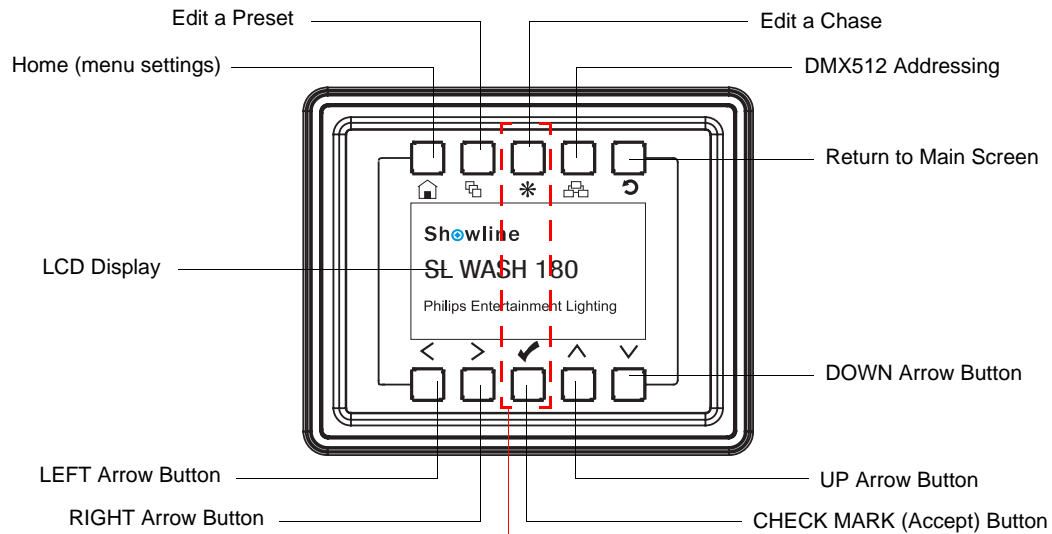


Figure 1: SL WASH 180 RGBW LED Luminaire Common Components

### LCD Display / Menu System



**NOTE:** Menu rotates with orientation of luminaire and menu buttons are always in the same position (with rotation of menu)

To rotate menu 180 degrees from current orientation, press and hold the two center buttons for 2 seconds.

Figure 2: LCD Display & Menu System

**Note:** For Menu operation and programming details, refer to "LCD Display and Menu System" on page 10.

# INSTALLATION AND SET UP

## 1. Power Requirements

The SL WASH 180 RGBW LED Luminaires operate on AC input voltages from 100 to 240 VAC.



**WARNING!** SL WASH 180 RGBW LED Luminaires do not contain an ON/OFF switch. Always disconnect power input cable to completely remove power from the luminaire when not in use.

### AC Power Operation

When connected to an AC source, the unit operates on 100 to 240 volts AC (+/- 10%, auto-ranging). The luminaire contains an auto-ranging power supply. Each luminaire can draw up to 180 Watts.



**WARNING!** Maximum amount of fixtures that may be daisy-chained is (A) 10 units 100 ~ 120VAC or (B) 20 units 230 ~ 240VAC (10 Amps).

**Table 1: SL WASH 180 RGBW LED Luminaire Voltage (VAC) vs. Current\***

Voltage (AC)	Total Current (A)	Voltage (AC)	Total Current (A)
100	1.80	180	1.00
110	1.63	190	0.95
120	1.50	200	0.90
130	1.38	210	0.86
140	1.28	220	0.82
150	1.20	230	0.78
160	1.12	240	0.75
170	1.06		

**Note:** For wiring of AC input connector, refer to "[Connecting SL WASH 180 RGBW LED Luminaires to AC Power](#)" on page 7.

## 2. Connecting Power

Units can be powered in one of two ways:

- Direct connection to a AC power source using an AC input cable. For wiring of AC input connector, refer to "[Connecting SL WASH 180 RGBW LED Luminaires to AC Power](#)" on page 7.
- Connection from the AC output of another SL WASH 180 RGBW LED Luminaire. When using this method, it is very important not to connect any other type of equipment device.



**WARNING!** Only connect other SL WASH 180 RGBW LED Luminaires to the AC Output (Thru) connector of a SL WASH 180 RGBW LED Luminaire.

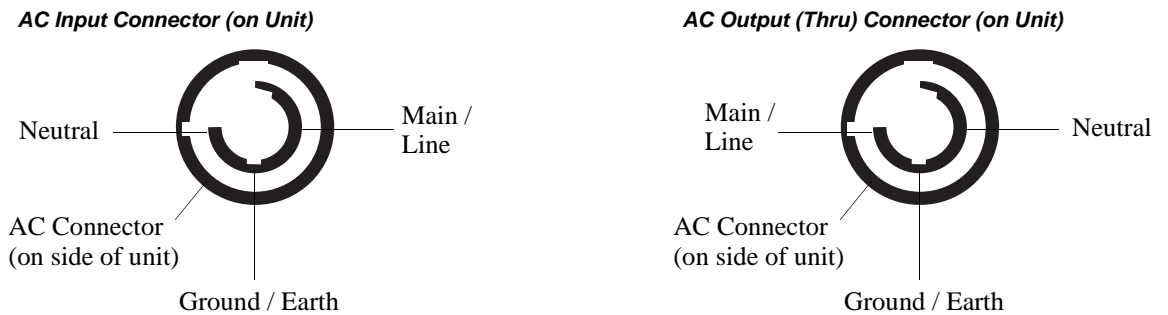
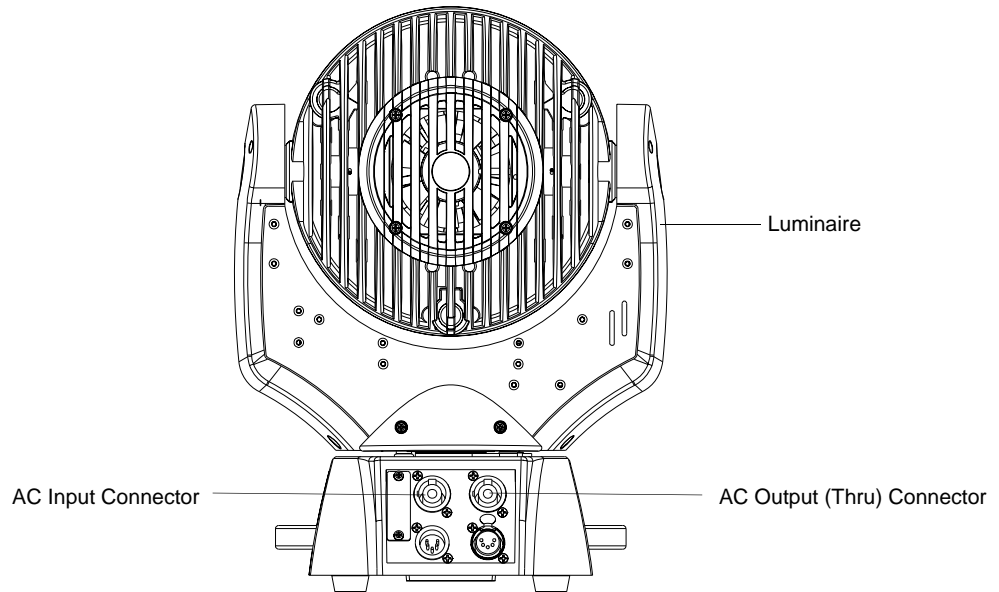


### Connecting SL WASH 180 RGBW LED Luminaires to AC Power

If the unit is supplied with an AC input cable but you did not order an AC input connector, Table 2 describes how to connect power to your SL WASH 180 RGBW LED Luminaire. Field wiring of the SL WASH 180 RGBW LED Luminaire is straight forward. A total of 3 wires/conductors need to be brought to the unit. The following wiring scheme is required:

**Table 2:** SL WASH 180 RGBW LED Luminaire AC Input Connections

Wire Color	Purpose
Brown	Main / Line (100 to 240VAC)
Blue	Neutral
Green/Yellow	Ground (Earth)

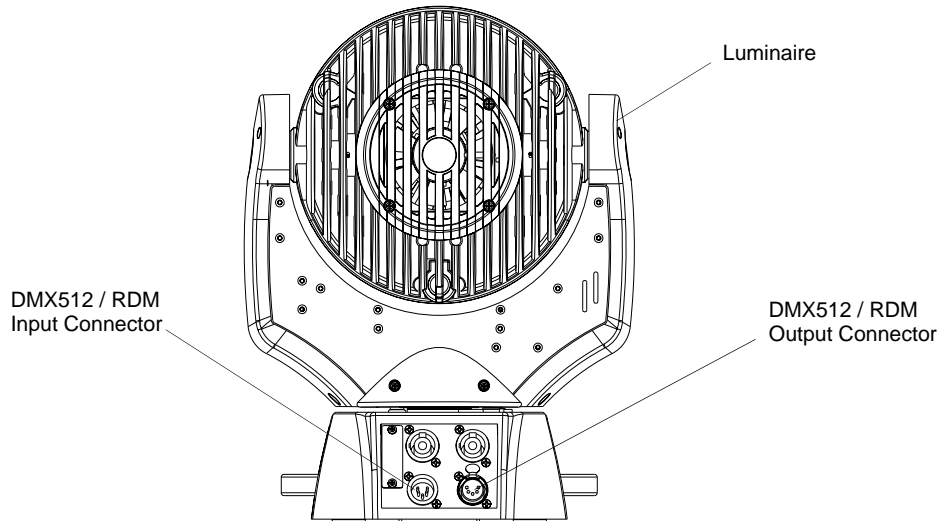


**Figure 3:** SL WASH 180 RGBW LED Luminaire AC Input & Output Connections

**CAUTION:** In the event the AC input cable of this luminaire is damaged, it must be replaced, by the user, with an approved cable through an Authorized Showline Dealer or Service Center.

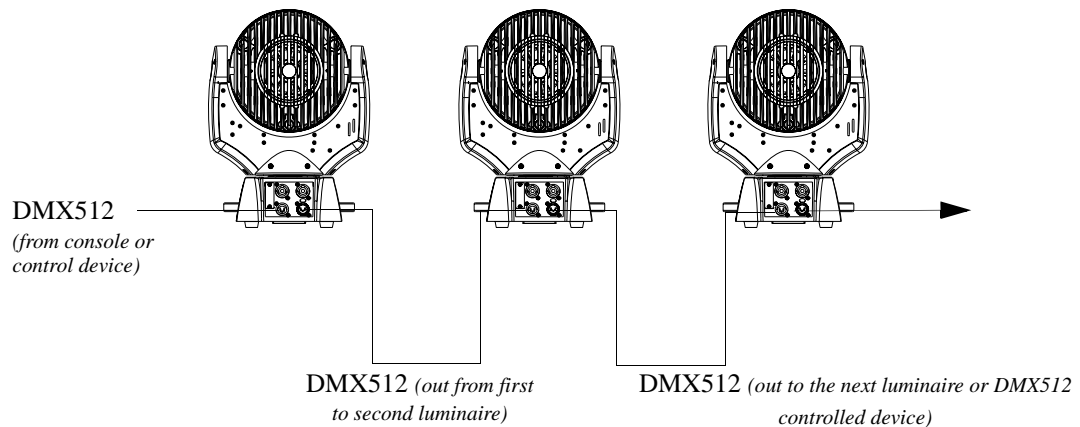
### 3. Connecting to the DMX512 Network

Basic DMX512 installation consists of connecting multiple SL WASH 180 RGBW LED Luminaires together (up to 32 luminaires) in "daisy-chain" fashion. A cable runs from the control console (or DMX512 control source) to the DMX connector on the first SL WASH 180 RGBW LED Luminaire. Another cable runs from the other DMX connector on the first unit to a DMX connector on the next SL WASH 180 RGBW LED Luminaire (or DMX512 device to be controlled).



**Figure 4: SL WASH 180 RGBW LED Luminaire DMX512 Input / Output Connections**

**Note:** For more information on DMX512 networking and systems, refer to "[Additional Resources for DMX512](#)" on page 1. For SL WASH 180 RGBW LED Luminaire DMX Mapping, refer to "[DMX CONTROL](#)" on page 19.



DMX512 Connections	
DMX512 Signal	XLR Pin
Common (Drain)	1
DMX512 -	2
DMX512 +	3

Note: Remaining pins on each connector are not used.

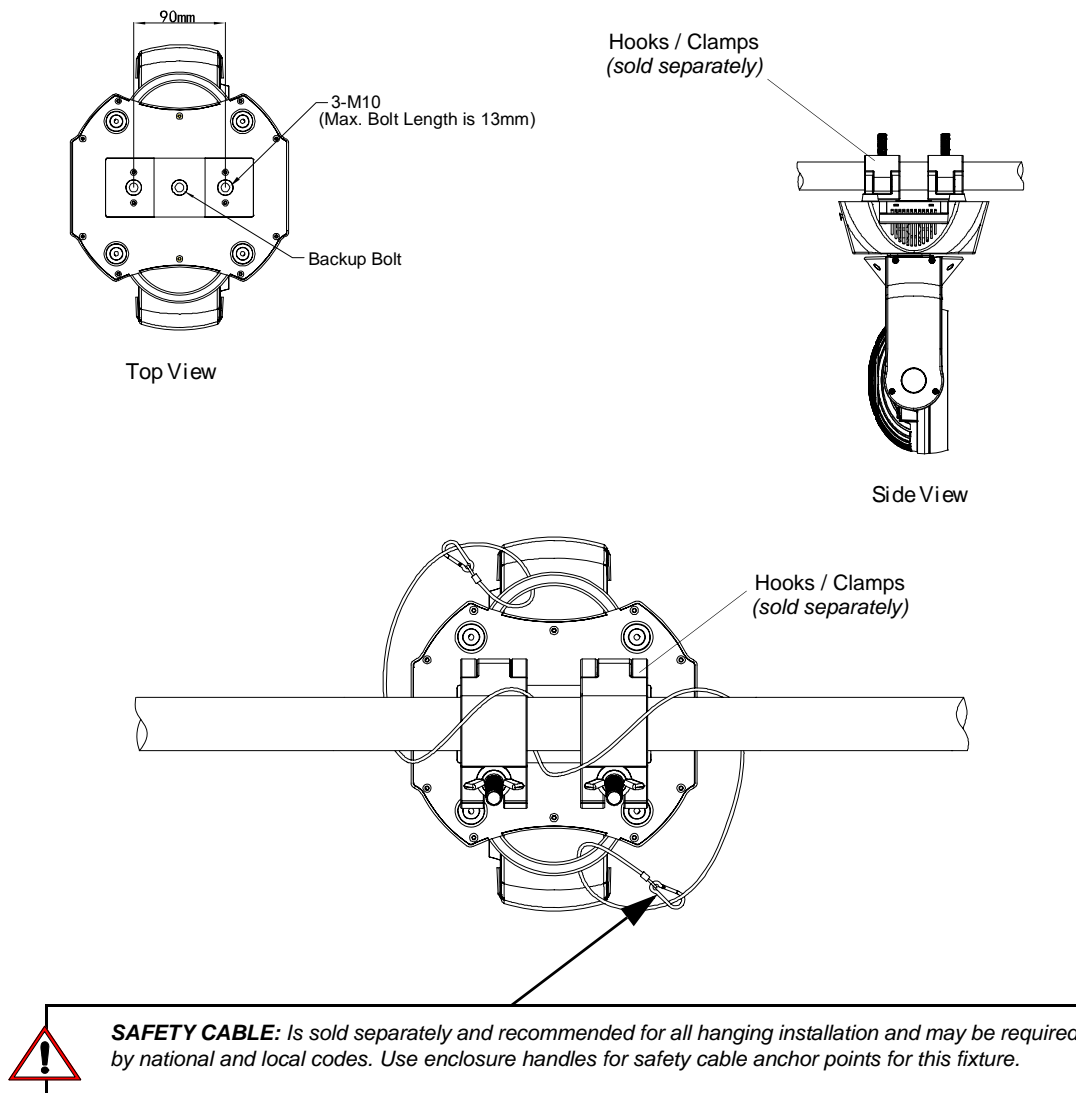
**Figure 5: SL WASH 180 RGBW LED Luminaire - DMX512 Connections**

## 4. Mounting Luminaire

### Truss / Hanging Applications

The SL WASH 180 RGBW LED Luminaire is provided with the ability to hang via truss hooks, clamps, etc. (sold separately). Simply attach hook, clamp, etc. to the SL WASH 180 RGBW LED Luminaire enclosure assembly in the provided M10 holes. It is recommended (and may be required by local and national safety codes) to use and install a safety cable (sold separately) as illustrated in [Figure 6](#). When hanging the fixture, be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling and movement. refer to "[Luminaire Dimensions](#)" on page 37 for spacing (dimensional) requirements.

**Note:** Mounting hooks, clamps, safety cables, etc. are sold separately or by others. For mounting accessories available for this product, contact your local Authorized Showline Dealer.



**Figure 6: Mounting the Fixture - Hanging Applications**

### Floor Mounting

The SL WASH 180 RGBW LED Luminaires are designed to sit directly on its enclosure assembly (base) in a floor installation application. When used in this type of application, be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling and movement.

# OPERATION AND PROGRAMMING

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## 1. LCD Display and Menu System

The SL WASH 180 RGBW LED Luminaire's LCD Display and Menu System provides local control for accessing the following fixture's settings:

- Presets (Standard and User Defined)
- Color Filters
- Chases (preloaded and user defined)
- Strobe / Timing
- Fixture Settings
- Fixture Lockout (to prevent changes)
- Password Setting
- Current Fixture Operational Status
- Setting the DMX512 Address

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**Note:** If there are multiple luminaires in a system, changes would need to be made at each LCD Menu as desired. For SL WASH 180 RGBW LED Luminaire menu structure, see "[SL WASH 180 RGBW LED Luminaire Main Menu Options](#)" on page 11.

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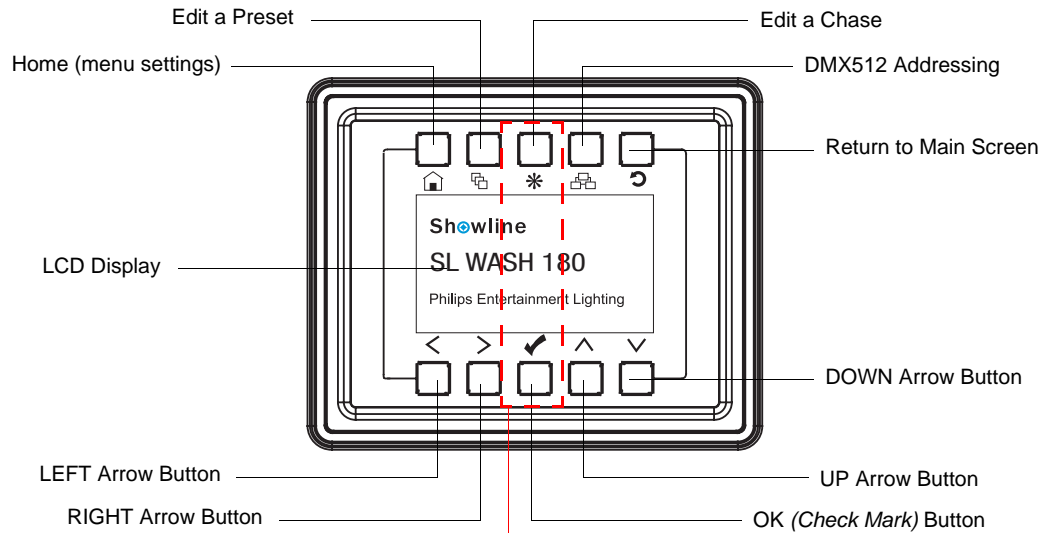
Upon power up, the LCD will display the main screen showing the product type/name. If DMX is enabled, the programmed address will appear after power up.

## 2. LCD Display and Menu System Operation

The LCD Display Menu system consists of several categories. Use the Menu Buttons to access and make changes to the menu items. When the desired menu item is reached, press the desired Menu Button to display the menu options and to navigate and configure the menu options as required.

**To navigate and access menu settings/selections:**

- Step 1. Make sure unit is powered and turned on.
- Step 2. Press the desired button (as shown in [Figure 7](#) on [page 11](#)) to access menu categories.
- Step 3. Use UP | DOWN | LEFT | RIGHT arrow buttons to navigate through the various options and settings.
- Step 4. Make changes as desired.
- Step 5. Press CHECK MARK (OK) button to accept changes.



**NOTE:** Menu rotates with orientation of Luminaire and menu buttons are always in the same position (with rotation of menu)

To rotate menu 180 degrees manually from current orientation, press and hold the two center buttons for 2 seconds.

Figure 7: LCD Display and Menu System

### 3. SL WASH 180 RGBW LED Luminaire Main Menu Options

#### Presets

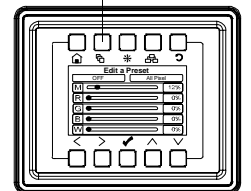
Presets are stored values of the luminaire's LED settings that can be recalled via the menu system or DMX. You can customize up to 31 presets via the menu system.

#### Recalling or Editing Presets

##### To recall or edit a preset:

- Step 1. Select Preset from the main menu or from the Preset shortcut key.
- Step 2. The top left field indicates the current preset or Off, when this field is selected (highlighted in blue), use the left and right buttons to scroll through all presets
- Step 3. If you wish to edit the preset, use the Up and Down keys to scroll through the parameters. Once a parameter is selected, use the left and right arrow buttons to make adjustments.

Edit a Preset



#### Notes:

- If security features are enabled, the Up and Down arrows will have no effect. See "Settings/Security" on page 13.
  - Depending on the DMX map set assigned the DMX menu, different either RGBW or HSIC parameters will be available.
- Step 4. Once all values are adjusted as desired, press the Check Mark button to save the preset.
- Step 5. The Save Preset Menu option will appear. Use the left and right arrow buttons to select the preset number to save to.

**Note:** This function allows you to save your current edits to a different preset number than you began editing. This is helpful to create copies of existing presets.

Step 6. Press the Check Mark button to save the preset. You will be asked to confirm your saving operation.

Step 7. The preset is now saved and can be recalled via the menu or DMX.

### Color Filter

Color filters are 43 factory made colors that utilize the Harmonize Color Calibration system (refer to "[Harmonize Color Calibration](#)" on page 17 for more information). They can be recalled via the menu system or DMX.

#### To recall a color filter from the menu:

Step 1. Select Color Filter from the main menu

Step 2. The top indicates the current color filter or Off, when this field is selected (highlighted in blue), use the left and right buttons to scroll through all color filters.

Step 3. Use the Up and Down arrow keys to toggle to the Master Intensity field. Use the Left and Right arrow keys to adjust the Master Intensity.

Step 4. The menu will display a graphical indication of the color along with the color name.

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**Note:** The color filter will remain ON until you select a preset, chase, other color filter or send the unit DMX.

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### Chases

Chases are stored values of the luminaire's LED settings that can be recalled via the menu system or DMX. There are 10 factory defined chases and eight user adjustable chases. You can adjust the master intensity, speed, and fade values for any of the 18 chases.

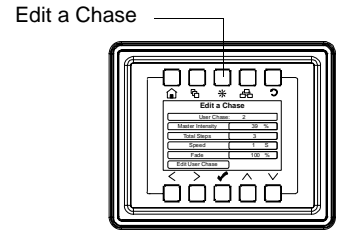
Use the Up and Down buttons to select parameters and the Left and Right buttons to assign the different general fixture settings. When finished, press the Check button to exit the menu level. The adjustable parameters are described in Table 3.

**Table 3: Effects Parameters**

Parameter	Description
User Chase / Built-in Chase	Select from the 18 different chases.
Master Intensity	Adjust the master intensity for ALL chases.
Total Steps	Displays the total steps used by the chase. This field is not editable.
Speed	The total time each step of the chase will be recalled.
Fade	The percentage of the time assigned by the speed that is crossfaded between steps.

### Editing User Chases

Eight User chases can be further customized to create different effects on the fixture. To edit a User Chase, first use the up and down arrows to scroll to the Edit User Chase field and then press the Check Mark button. The Edit User Chase window will be displayed:



Use the Up and Down buttons to select parameters and the Left and Right buttons to assign the different general fixture settings. When finished, press the Check button to exit the menu level.

#### To edit and save a Step:

- Step 1. Select Edit Step or New Step from the Edit User Chase menu.
- Step 2. The top left field indicates the preset or color filter to be used for the step. When set to OFF no preset or color filter is to be used. Use the left and right buttons to scroll through all presets and color filters.
- Step 3. Use the Up and Down keys to scroll through the output parameters. Once a parameter is selected, use the left and right arrow buttons to make adjustments.

#### Notes:

- If security features are enabled, the Up and Down arrows will have no effect. See "[Settings/Security](#)" on page 13.
- Depending on the DMX map set assigned the DMX menu, different either RGBW or HSIC parameters will be available.

- Step 4. Once all values are adjusted as desired, press the Check Mark button to return to the Edit User Chase screen.
- Step 5. Continue editing steps as needed. When complete, press the Return to Main Menu button or up one level (*as shown to the right*), to exit the Edit User Chase window.
- Step 6. The user chase is now saved and can be recalled via the menu or DMX.



### Strobe/Timing

The Strobe/Timing menu allows you to assign strobe and timing values from the menu system. These settings are instantly applied to any active Preset, Color filter, or chase.

Use the Up and Down buttons to select parameters and the Left and Right buttons to adjust the currently selected parameter. The adjustable parameters are described in Table 3.

**Table 4: Strobe / Timing Parameters**

Parameter	Description
Master Intensity	Overall fixture output intensity level.
Strobe: X	Strobe mode and rate value settings following DMX map (see <a href="#">SL WASH 180 RGBW LED Luminaire DMX Mapping</a> for details).
Duration	The time each strobe flash remains ON.
Intensity Timing	The time used to change intensity values when running a chase.
Color Timing	The time used to change color values when running a chase.

### Settings/Security

All Showline fixtures have a multiple level locking feature. This allows you to configure the fixture and allow different menu access to multiple users. The menu system can be locked instantly or assigned to power on to a particular lock level. You can assign three different 4-digit PIN (personal identification number) codes to each unlock specific levels of functionality within the menu system.

Anytime the fixture is locked, each PIN code will unlock all functions except the pertaining features assigned via the security level.

**Note:** The Level 3 PIN will always unlock all functions.

**Table 5: Security Lock Levels**

Lock Level	Menu Functions Affected
Level 1	Edit Presets, Edit Chases, and Settings Menu
Level 2	Settings Menu
Level 3	All

Use the Up and Down buttons to select security PIN codes. Press the Check button and then use Left and Right and Up Down buttons to assign the pin code. Press the Check button to save the new PIN code.

The Power-Up Level parameter assigns a lock level to the fixture when power is applied. Use the Up and Down buttons to select the Power-Up Level, and then use the Left and Right buttons to select the Power-up Level option.

**Table 6: PIN Level Parameters**

Parameter	Description
Enter Pass PIN	Enter a PIN code matching the level codes assigned in the Settings/Security menu to toggle the current security level.
Level 1 PIN	Edit the PIN code used to toggle the Level 1 security.
Level 2 PIN	Edit the PIN code used to toggle the Level 2 security.
Level 3 PIN	Edit the PIN code used to toggle the Level 3 security.
Power-up Level	Select the security level to default to when the fixture is powered ON. <ul style="list-style-type: none"> <li>Disable PIN will disable all security functions.</li> <li>Locked will lock all functions.</li> </ul>

## Settings/General

Use the Up and Down buttons to select parameters and the Left and Right buttons to assign the different general fixture settings. When finished, press the Check button to exit the menu level. The adjustable parameters are described in Table 7.

**Table 7: General Level Parameters**

Parameter	Description
Power-Up	Select the action of the fixture when the unit is powered ON. You can select from Off, Last Set, Color filters, presets, and chases.
Mode	Select either Master/Slave (see <a href="#">Master / Slave Operational Mode</a> for more information).
Dim Response	Select Normal, Incandescent, or Reduced dimming response. <ul style="list-style-type: none"> <li>Normal: Fixture LEDs dim with a normal response.</li> <li>Incandescent: Fixture LED's dim with an incandescent emulation response. The response to dimming commands will be slightly delayed at lower intensities.</li> <li>Reduced: The response to dimming commands will be calculated with a smaller algorithm to provide emulation with other manufacturer's products.</li> </ul>
Dimming Curve	Select one of four dimming curve choices (see <a href="#">Dimming Curve Selection</a> for more information).
Calibration	Toggle Harmonize Color Calibration on or off (see <a href="#">Harmonize Color Calibration</a> for more information).
Fan Control	Select Auto of Off fan operation (see <a href="#">SL WASH 180 RGBW LED Luminaire DMX Mapping</a> for more information).

## Settings/Factory Default

Factory default menu settings can be recalled through this menu option. You can select if you wish to overwrite the user edited preset and chases.

Use the Up and Down buttons to select parameters and the Left and Right buttons to assign the different settings. When finished, press the Check button to exit the menu level. The adjustable parameters are described in Table 8.



**Table 8: Factory Default Parameters**

Parameter	Description
Protected	<ul style="list-style-type: none"> <li>No - all menu items are able to be restored to factory defaults.</li> <li>Preset &amp; Chase - user edited Presets and Chases are not able to be restored to factory defaults.</li> </ul>
Load Factory	<ul style="list-style-type: none"> <li>No - no action.</li> <li>Yes - restore to factory default menu settings.</li> </ul>

## Settings/DMX

DMX configuration options are available in the DMX menu.

Use the Up and Down buttons to select parameters and the Left and Right buttons to assign the fixture's DMX settings. When finished, press the Check button to exit the menu level. The adjustable parameters are described in Table 9.

**Table 9: DMX Setting Parameters**

Parameter	Description
DMX Enable	<ul style="list-style-type: none"> <li>Enable - Fixture will respond to DMX commands/signals.</li> <li>Disable - Fixture will ignore DMX commands/signals.</li> </ul>
Address	Assigns the fixture's DMX start address.
Map	Selects the DMX map for the fixture to use (see <a href="#">DMX CONTROL</a> section for more information).
When no DMX	Selects the action of the fixture when the unit is powered ON and not receiving DMX. <ul style="list-style-type: none"> <li>Off - Turn off all LED output.</li> <li>Last Action - restore the last menu action.</li> <li>Power-up - follow the power-up value in the settings menu.</li> <li>Hold - continue with the last DMX values received.</li> </ul>

## Settings/Display

Options of the fixture's LCD display can be adjusted in the Display menu.

Use the Up and Down buttons to select parameters and the Left and Right buttons to assign the fixture's DMX settings. When finished, press the Check button to exit the menu level. The adjustable parameters are described in Table 10.

**Table 10: LCD Display Parameters**

Parameter	Description
Flip Display	<ul style="list-style-type: none"> <li>Yes - The display will be inverted.</li> <li>No - The display will not be inverted.</li> <li>Auto - The display will automatically invert depending upon fixture orientation.</li> </ul>
Off Time	Assign a time for the display to automatically turn off after the last button press. A value of ON will leave the display on indifferently.
Language Select	English is the only language currently supported.

## Lock Fixture

You can lock all fixture functions, requiring a PIN code to access the menu functions. When you select this menu item, you are asked to confirm that you wish to lock the fixture. Once locked, all menu items can only be accessed by entering one of the three PIN codes assigned in the Settings/Security menu. (see "[Settings/Security](#)" on page 13 for more information). The PIN code used to unlock the fixture will only unlock the functionality assigned to that particular PIN code.

**Note:** When the fixture is powered off, the Lock Fixture function will be disabled. To assign fixture power-up security refer to (see "[Settings/Security](#)" on page 13 for more information).

### Password (PassPIN)

The Password menu item will display an Enter PassPIN dialog box. Use the Up Down Left Right buttons to enter a PIN code matching the codes assigned in the Settings/Security menu to toggle the current security level.

### Status






The Status screen displays the current value of the master intensity and LED intensities for each pixel control of a fixture. The number of pixels will vary depending upon fixture type. Use the Up Down Left Right arrows to scroll through the different pixels and view their levels.

- The last Status item displayed shows the RDM UID and current Firmware Version.
- Press the Check Mark button to exit the Status screen.

### Quick Selection Buttons

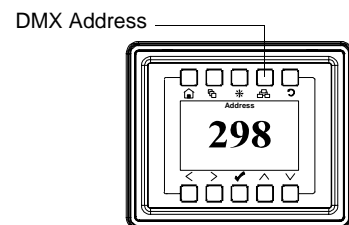
The Showline menu system includes four quick selection buttons on the top of the menu. These keys provide direct access to common functions and act as shortcuts to main menu items as described in Table 10.

**Table 11: Quick Select Buttons**

Quick Select Button	Description
	Main Menu Refer to <a href="#">Settings/General</a> for more information.
	Edit a Preset Refer to <a href="#">Recalling or Editing Presets</a> for more information.
	Chase / Edit a Chase Refer to <a href="#">Chases</a> and <a href="#">Editing User Chases</a> for more information.
	DMX Start Address Refer to <a href="#">DMX Address</a> for more information.
	Return to Main Menu / Return Up a Menu Item

### DMX Address

You can display and edit the current DMX start address for the fixture by pressing the Quick Select button on the top of the menu system (as shown right). The current DMX start address will be display in large digits.



#### To edit the DMX start address:

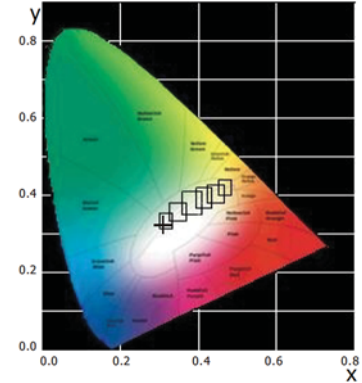
- Step 1. Press the Check Mark button to begin the DMX start address editing. The last digit will change to a blue color.
- Step 2. Use the UP and Down arrows to change the value of the currently selected digit.
- Step 3. Use the Left and Right arrows to select another digit to adjust.
- Step 4. Press the Check Mark button to save the new DMX Start Address.

## 4. Harmonize Color Calibration

Harmonize is a proprietary, advanced LED color matching system, consisting of 3 correction modules: RGB, RGBW and Cool White/Warm White. Every Showline fixture undergoes rigorous testing to provide you with consistent control of color and intensity as well as output of the highest quality.

When enabled either via DMX or the fixture's menu, the Harmonize technology will ensure that colors match from fixture-to-fixture and pixel-to-pixel. As the Harmonize system matches Showline products, they will all operate in the same color space. Use the Harmonize system when perfect color matching is an essential requirement.

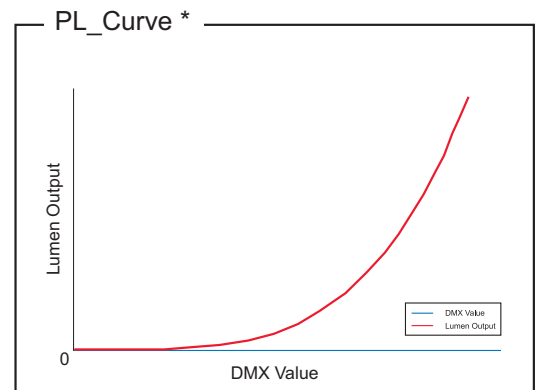
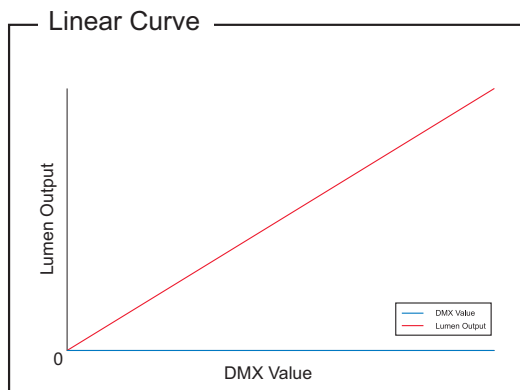
**Note:** When attempting to achieve the most saturated colors possible, disable the Harmonize color calibration.



## 5. Dimming Curve Selection

Through the menu, you are able to select one of four dimming curves:

- Linear Curve
- PL\_Curve
- S\_Curve
- Square Curve



\*PL Curve follows the dimming curve of Philips Selecon PL series LED luminaires.

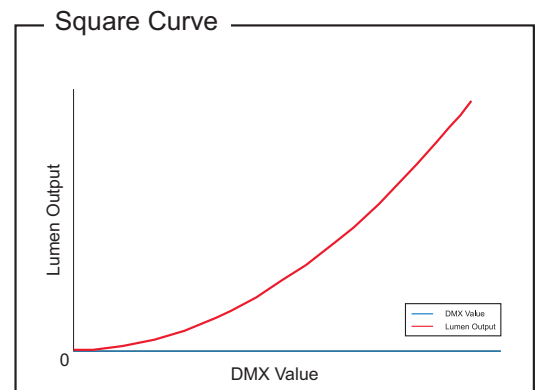
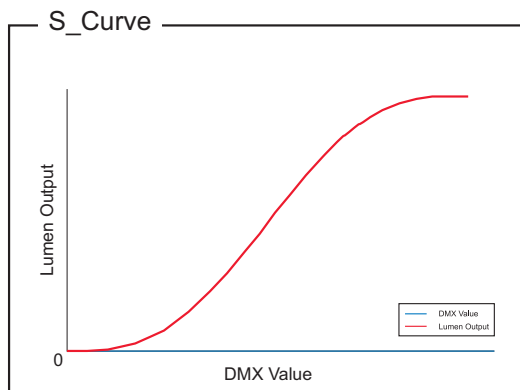


Figure 8: SL WASH 180 RGBW LED Luminaire Dimmer Curves

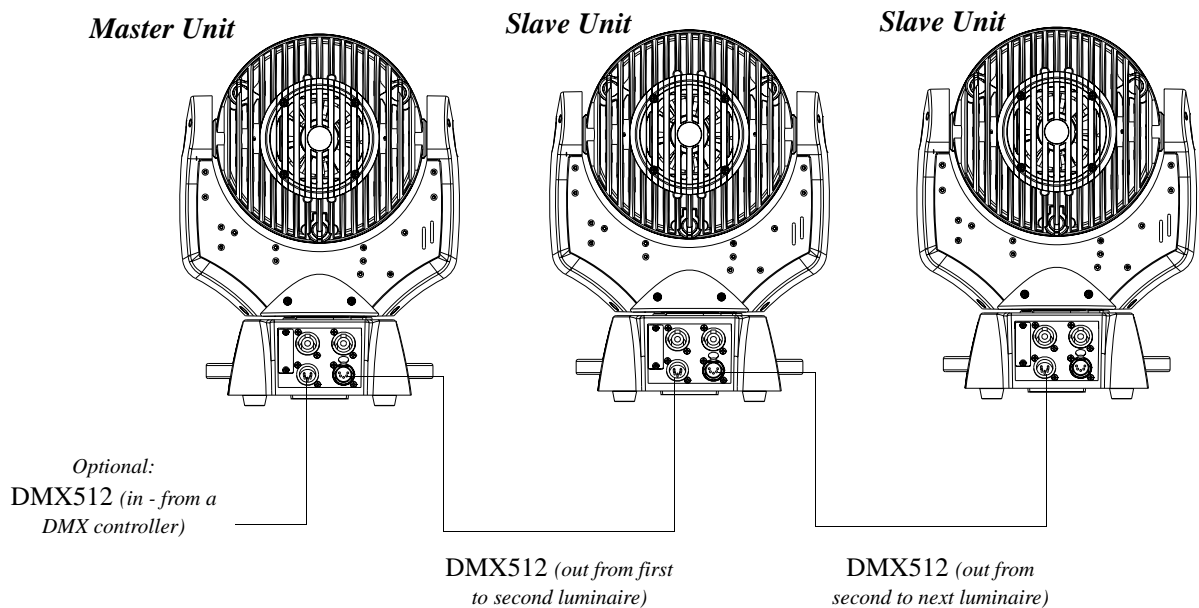
## 6. Master / Slave Operational Mode

The Master / Slave Operational Mode allows one SL WASH 180 RGBW LED Luminaire to act as the "Master" unit and all other connected units are controlled by this unit. When a unit is set to "Slave" mode, it will only listen to and follow any commands sent from a "Master" unit. Only one "Master" unit is allowed in this type of operation.

### To setup a master / slave network:

- Step 1. Set the first device in the DMX512 chain to **Master Mode** through the unit's menu system.
- Step 2. Set all other connected units to **Slave Mode**.
- Step 3. The master unit can be controlled via DMX512, RDM or through standalone operation (self-contained network utilizing on-board effects). The slave units will mimic the master unit's operation in all cases.

**Note:** For more information on DMX512 networking and systems, refer to "[Additional Resources for DMX512](#)" on page 1. For SL WASH 180 RGBW LED Luminaire DMX Mapping, refer to "[DMX CONTROL](#)" on page 19.



**Figure 9: SL WASH 180 RGBW LED Luminaire - Master / Slave Configuration**

## DMX CONTROL

This section contains information for operating the luminaire using DMX control in 16-bit, 8-Bit, or HSIC (Hue, Saturation, Intensity and Color Correction) modes. For Menu options and detailed information, see "[LCD Display and Menu System](#)" on page 10.

**Note:** These tables assume a DMX start address of 1. When a different starting address is used, this address becomes channel 1 function and other functions follow in sequence.

### 1. SL WASH 180 RGBW LED Luminaire DMX Mapping

#### 16-Bit Mode

Table 12 provides DMX channel mapping of all DMX512 control values when the SL WASH 180 RGBW LED Luminaire is in 16-bit DMX512 mode (as set by the luminaire's menu system).

**Table 12: SL WASH 180 RGBW LED Luminaire DMX Channel Mapping (16-Bit Mode)**

DMX Channel	Parameter	Range DMX	Range%	Default - recommended console default values	Description
1	Pan - High Byte	0 - 65535	0 - 100%	32768	16-bit control for Pan Operation
2	Pan - Low Byte				
3	Tilt - High Byte	0 - 65535	0 - 100%	32768	16-bit control for Tilt Operation
4	Tilt - Low Byte				
5	Master Intensity	0 - 65535	0 - 100%	0	16-bit control for Intensity of LED settings
6					
7	Color Presets	0 - 255	0 - 100%	0	<p>Select presets, variable color filters or chases as follows:</p> <p>Channel OFF (disabled) DMX 0 - 4            Preset 0 (OFF) DMX 5 - 6            Preset 1 DMX 7 - 8            Preset 2 DMX 9 - 10            Preset 3 DMX 11 - 12            Preset 4 DMX 13 - 14            Preset 5 DMX 15 - 16            Preset 6 DMX 17 - 18            Preset 7 DMX 19 - 20            Preset 8 DMX 21 - 22            Preset 9 DMX 23 - 24            Preset 10 DMX 25 - 26            Preset 11 DMX 27 - 28            Preset 12 DMX 29 - 30            Preset 13 DMX 31 - 32            Preset 14 DMX 33 - 34            Preset 15 DMX 35 - 36            Preset 16 DMX 37 - 38            Preset 17 DMX 39 - 40            Preset 18 DMX 41 - 42            Preset 19 DMX 43 - 44            Preset 20 DMX 45 - 46            Preset 21 DMX 47 - 48            Preset 22 DMX 49 - 50            Preset 23 DMX 51 - 52            Preset 24 DMX 53 - 54            Preset 25 DMX 55 - 56            Preset 26 DMX 57 - 58            Preset 27 DMX 59 - 60            Preset 28 DMX 61 - 62            Preset 29 DMX 63 - 64            Preset 30 DMX 65 - 66            Preset 31 DMX 67 - 68</p>

**Table 12: SL WASH 180 RGBW LED Luminaire DMX Channel Mapping (16-Bit Mode)**

7	Color Presets	0 - 255	0 - 100%	0	<p>Select presets, variable color filters or chases as follows:</p> <p>CF_0_Color OFF DMX 69 - 70                  CF_1_White 10000K DMX 71 - 72                  CF_2_White 8000K DMX 73 - 74                  CF_3_White 6500K DMX 75 - 76                  CF_4_White 5600K DMX 77 - 78                  CF_5_White 5000K DMX 79 - 80                  CF_6_White 4500K DMX 81 - 82                  CF_7_White 4000K DMX 83 - 84                  CF_8_White 3200K DMX 85 - 86                  CF_9_White 3000K DMX 87 - 88                  CF_10_White 2700K DMX 89 - 90                  CF_11_Moroccan Pink DMX 91 - 92                  CF_12_Pink DMX 93 - 94                  CF_13_Flesh Pink DMX 95 - 96                  CF_14_Bright Rose DMX 97 - 98                  CF_15_Follies Pink DMX 99 - 100                  CF_16_Fuchsia Pink DMX 101 - 102                  CF_17_Surprise Pink DMX 103 - 104                  CF_18_Congo Blue DMX 105 - 106                  CF_19_Blue DMX 107 - 108                  CF_20_Virgin Blue DMX 109 - 110                  CF_21_Midnight Maya DMX 111 - 112                  CF_22_Double C.T Blue DMX 113 - 114                  CF_23_Slate Blue DMX 115 - 116                  CF_24_Regal Blue DMX 117 - 118                  CF_25_Full C.T Blue DMX 119 - 120                  CF_26_Steel Blue DMX 121 - 122                  CF_27_Lighter Blue DMX 123 - 124                  CF_28_Cyan DMX 125 - 126                  CF_29_Marine Blue DMX 127 - 128                  CF_30_Soft Green DMX 129 - 130                  CF_31_Moss Green DMX 131 - 132                  CF_32_Green DMX 133 - 134                  CF_33_Fem Green DMX 135 - 136                  CF_34_JAS Green DMX 137 - 138                  CF_35_Pale Green DMX 139 - 140                  CF_36_Spring Yellow DMX 141 - 142                  CF_37_Yellow DMX 143 - 144                  CF_38_Deep Amber DMX 145 - 146                  CF_39_Chrome Orange DMX 147 - 148                  CF_40_Orange DMX 149 - 150                  CF_41_Magenta DMX 151 - 152                  CF_42_Flame Red DMX 153 - 154                  CF_43_Purple DMX 155 - 156                  Rotate CW Fast -&gt; Slow DMX 157 - 171                  Rotate ACW Slow -&gt; Fast DMX 172 - 186                  Random Color Fast -&gt; Slow DMX 187 - 201                  Chase1 DMX 202 - 204                  Chase2 DMX 205 - 207                  Chase3 DMX 208 - 210                  Chase4 DMX 211 - 213                  Chase5 DMX 214 - 216                  Chase6 DMX 217 - 219                  Chase7 DMX 220 - 222                  Chase8 DMX 223 - 225                  Chase9 DMX 226 - 228                  Chase10 DMX 229 - 231                  User Chase1 DMX 232 - 234                  User Chase2 DMX 235 - 237                  User Chase3 DMX 238 - 240                  User Chase4 DMX 241 - 243                  User Chase5 DMX 244 - 246                  User Chase6 DMX 247 - 249                  User Chase7 DMX 250 - 252                  User Chase8 DMX 253 - 255</p>
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Table 12: SL WASH 180 RGBW LED Luminaire DMX Channel Mapping (16-Bit Mode)

8	Strobe	0 - 255	0 - 100%	0	<p><i>Controls strobe operations as follows:</i></p> <p>Open = DMX 0 - 2            Closed = DMX 3 - 5            Slow Rand = DMX 6 - 7            Med Rand = DMX 8 - 10            Fast Rand = DMX 11 - 12            Strobe Range = DMX 13 - 127 (fastest)            Pulse + Slow Rand = DMX 128 - 129            Pulse + Med Rand = DMX 130 - 131            Pulse + Fast Rand = DMX 132 - 133            Pulse + Range = DMX 134 - 191            Pulse - Slow Rand = DMX 192 - 193            Pulse - Med Rand = DMX 194 - 195            Pulse - Fast Rand = DMX 196 - 197            Pulse - Range = DMX 198 - 255</p>
9	Duration	0 - 255	0 - 100%	0	<p>Strobe's duration, Range is DMX 0 - 85 as follows:</p> <p>0 = DMX 0            1 = DMX 1 - 3  <math>x = (DMX\ Value - 1) / 3 + 1</math>            85 = DMX 253-255</p>
10	Zoom	0 - 255	0 - 100%	0	Control of variable zoom (beam spread) operation from 12 to 45 degrees
11	Focus Timing	0 - 255	0 - 100%	255	Timing control of Pan and Tilt
12	Intensity Timing	0 - 255	0 - 100%	255	Allows for timing control of Intensity. Channel should default to 255 for smoothest actions using console and/or manual fades. Refer to " <b>DMX Timing Channel Detail</b> " on page 26.
13	Color Timing	0 - 255	0 - 100%	255	Allows for timing control of Color. Channel should default to 255 for smoothest actions using console and/or manual fades. Refer to " <b>DMX Timing Channel Detail</b> " on page 26.
14	Zoom Timing	0 - 255	0 - 100%	255	Allows for timing control of Zoom. Channel should default to 255 for smoothest actions using console and/or manual fades. Refer to " <b>DMX Timing Channel Detail</b> " on page 26.
15	Control	0 - 255	0 - 100%	0	<p><i>Control Channel functions of the SL Series products. Set control channel value from 0 then turn to desired action. Hold value for at least 5 seconds. Then restore control channel value to 0 without any scaling.</i></p> <p>Default Setting on Console = DMX 0-4            DIM Response_Normal = DMX 5 - 9            DIM Response_Incandescent = DMX 10 - 14            Dimming Curve_Linear = DMX 30 - 34            Dimming Curve_Square = DMX 35- 39            Dimming Curve_S-Curve = DMX 40 - 44            Dimming Curve_PL-Curve = DMX 45 - 49            Calibration_OFF = DMX 70 - 74            Calibration_ON = DMX 75 - 79            Fan_Auto = DMX 80 - 84            Fan_Off = DMX 85 - 89            Reserved ( Future use) = DMX 90 - 250</p>
16	Red - High Byte	0 - 65535	0 - 100%	0	16-bit control for of Red LEDs 0 to full.
17	Red - Low Byte				
18	Green - High Byte	0 - 65535	0 - 100%	0	16-bit control for of Green LEDs 0 to full.
19	Green - Low Byte				
20	Blue - High Byte	0 - 65535	0 - 100%	0	16-bit control for of Blue LEDs 0 to full.
21	Blue - Low Byte				
22	White - High Byte	0 - 65535	0 - 100%	0	16-bit control for of White LEDs 0 to full.
23	White - Low Byte				

### 8-Bit Mode

Table 13 provides DMX channel mapping of all DMX512 control values when the SL WASH 180 RGBW LED Luminaire is in 8-bit DMX512 mode (as set by the luminaire's menu system).

**Table 13: SL WASH 180 RGBW LED Luminaire DMX Channel Mapping (8-Bit Mode)**

DMX Channel	Parameter	Range DMX	Range%	Default - recommended console default values	Description
1	Pan - High Byte	0 - 65535	0 - 100%	32768	16-bit control for Pan Operation
2	Pan - Low Byte				
3	Tilt - High Byte	0 - 65535	0 - 100%	32768	16-bit control for Tilt Operation
4	Tilt - Low Byte				
5	Master Intensity	0 - 255	0 - 100%	0	8-bit control for Intensity of LED settings.
6	Color Presets	0 - 255	0 - 100%	0	<p>Select presets, variable color filters or chases as follows:</p> <p>Channel OFF (disabled) DMX 0 - 4                      Preset 0 (OFF) DMX 5 - 6                      Preset 1 DMX 7 - 8                      Preset 2 DMX 9 - 10                      Preset 3 DMX 11 - 12                      Preset 4 DMX 13 - 14                      Preset 5 DMX 15 - 16                      Preset 6 DMX 17 - 18                      Preset 7 DMX 19 - 20                      Preset 8 DMX 21 - 22                      Preset 9 DMX 23 - 24                      Preset 10 DMX 25 - 26                      Preset 11 DMX 27 - 28                      Preset 12 DMX 29 - 30                      Preset 13 DMX 31 - 32                      Preset 14 DMX 33 - 34                      Preset 15 DMX 35 - 36                      Preset 16 DMX 37 - 38                      Preset 17 DMX 39 - 40                      Preset 18 DMX 41 - 42                      Preset 19 DMX 43 - 44                      Preset 20 DMX 45 - 46                      Preset 21 DMX 47 - 48                      Preset 22 DMX 49 - 50                      Preset 23 DMX 51 - 52                      Preset 24 DMX 53 - 54                      Preset 25 DMX 55 - 56                      Preset 26 DMX 57 - 58                      Preset 27 DMX 59 - 60                      Preset 28 DMX 61 - 62                      Preset 29 DMX 63 - 64                      Preset 30 DMX 65 - 66                      Preset 31 DMX 67 - 68</p>



**Table 13: SL WASH 180 RGBW LED Luminaire DMX Channel Mapping (8-Bit Mode)**

6	Color Presets	0 - 255	0 - 100%	0	<p>Select presets, variable color filters or chases as follows:</p> <p>CF_0_Color OFF DMX 69 - 70                  CF_1_White 10000K DMX 71 - 72                  CF_2_White 8000K DMX 73 - 74                  CF_3_White 6500K DMX 75 - 76                  CF_4_White 5600K DMX 77 - 78                  CF_5_White 5000K DMX 79 - 80                  CF_6_White 4500K DMX 81 - 82                  CF_7_White 4000K DMX 83 - 84                  CF_8_White 3200K DMX 85 - 86                  CF_9_White 3000K DMX 87 - 88                  CF_10_White 2700K DMX 89 - 90                  CF_11_Moroccan Pink DMX 91 - 92                  CF_12_Pink DMX 93 - 94                  CF_13_Flesh Pink DMX 95 - 96                  CF_14_Bright Rose DMX 97 - 98                  CF_15_Follies Pink DMX 99 - 100                  CF_16_Fuchsia Pink DMX 101 - 102                  CF_17_Surprise Pink DMX 103 - 104                  CF_18_Congo Blue DMX 105 - 106                  CF_19_Blue DMX 107 - 108                  CF_20_Virgin Blue DMX 109 - 110                  CF_21_Midnight Maya DMX 111 - 112                  CF_22_Double C.T Blue DMX 113 - 114                  CF_23_Slate Blue DMX 115 - 116                  CF_24_Regal Blue DMX 117 - 118                  CF_25_Full C.T Blue DMX 119 - 120                  CF_26_Steel Blue DMX 121 - 122                  CF_27_Lighter Blue DMX 123 - 124                  CF_28_Cyan DMX 125 - 126                  CF_29_Marine Blue DMX 127 - 128                  CF_30_Soft Green DMX 129 - 130                  CF_31_Moss Green DMX 131 - 132                  CF_32_Green DMX 133 - 134                  CF_33_Fem Green DMX 135 - 136                  CF_34_JAS Green DMX 137 - 138                  CF_35_Pale Green DMX 139 - 140                  CF_36_Spring Yellow DMX 141 - 142                  CF_37_Yellow DMX 143 - 144                  CF_38_Deep Amber DMX 145 - 146                  CF_39_Chrome Orange DMX 147 - 148                  CF_40_Orange DMX 149 - 150                  CF_41_Magenta DMX 151 - 152                  CF_42_Flame Red DMX 153 - 154                  CF_43_Purple DMX 155 - 156                  Rotate CW Fast -&gt; Slow DMX 157 - 171                  Rotate ACW Slow -&gt; Fast DMX 172 - 186                  Random Color Fast -&gt; Slow DMX 187 - 201                  Chase1 DMX 202 - 204                  Chase2 DMX 205 - 207                  Chase3 DMX 208 - 210                  Chase4 DMX 211 - 213                  Chase5 DMX 214 - 216                  Chase6 DMX 217 - 219                  Chase7 DMX 220 - 222                  Chase8 DMX 223 - 225                  Chase9 DMX 226 - 228                  Chase10 DMX 229 - 231                  User Chase1 DMX 232 - 234                  User Chase2 DMX 235 - 237                  User Chase3 DMX 238 - 240                  User Chase4 DMX 241 - 243                  User Chase5 DMX 244 - 246                  User Chase6 DMX 247 - 249                  User Chase7 DMX 250 - 252                  User Chase8 DMX 253 - 255</p>
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**Table 13: SL WASH 180 RGBW LED Luminaire DMX Channel Mapping (8-Bit Mode)**

7	Strobe	0 - 255	0 - 100%	0	<p><i>Controls strobe operations as follows:</i></p> <p>Open = DMX 0 - 2                  Closed = DMX 3 - 5                  Slow Rand = DMX 6 - 7                  Med Rand = DMX 8 - 10                  Fast Rand = DMX 11 - 12                  Strobe Range = DMX 13 - 127 (fastest)                  Pulse + Slow Rand = DMX 128 - 129                  Pulse + Med Rand = DMX 130 - 131                  Pulse + Fast Rand = DMX 132 - 133                  Pulse + Range = DMX 134 - 191                  Pulse - Slow Rand = DMX 192 - 193                  Pulse - Med Rand = DMX 194 - 195                  Pulse - Fast Rand = DMX 196 - 197                  Pulse - Range = DMX 198 - 255</p>
8	Duration	0 - 255	0 - 100%	0	<p>Strobe's duration, Range is DMX 0 - 85 as follows:</p> <p>0 = DMX 0                  1 = DMX 1 - 3  <math>x = (DMX\ Value - 1) / 3 + 1</math>                  85 = DMX 253-255</p>
9	Zoom	0 - 255	0 - 100%	0	Control of variable zoom (beam spread) operation from 12 to 45 degrees
10	Focus Timing	0 - 255	0 - 100%	255	Timing control of Pan and Tilt
11	Timing	0 - 255	0 - 100%	255	Allows for timing control of Intensity, Color and Zoom parameters. Channel should default to 255 for smoothest actions using console and/or manual fades. Refer to " <b>DMX Timing Channel Detail</b> " on page 26.
12	Control	0 - 255	0 - 100%	255	<p><i>Control Channel functions of the SL Series products. Set control channel value from 0 then turn to desired action. Hold value for at least 5 seconds. Set control channel value to 0 without any scaling.</i></p> <p>Default Setting on Console = DMX 0-4                  DIM Response_Normal = DMX 5 - 9                  DIM Response_Incandescent = DMX 10 - 14                  Dimming Curve_Linear = DMX 30 - 34                  Dimming Curve_Square = DMX 35- 39                  Dimming Curve_S-Curve = DMX 40 - 44                  Dimming Curve_PL-Curve = DMX 45 - 49                  Calibration_OFF = DMX 70 - 74                  Calibration_ON = DMX 75 - 79                  Map_RGBW 16-bit Mode = DMX 100 - 104                  Map_RGBW 8-bit Mode = DMX 105 - 109                  Map_HSIC Mode = DMX 110 - 114                  Reserved ( Future use) = DMX 115 - 250</p>
13	Red	0 - 255	0 - 100%	0	8-bit control of Red LEDs from 0 to Full
14	Green	0 - 255	0 - 100%	0	8-bit control of Green LEDs from 0 to Full
15	Blue	0 - 255	0 - 100%	0	8-bit control of Blue LEDs from 0 to Full
16	White	0 - 255	0 - 100%	0	8-bit control of White LEDs from 0 to Full

## HSIC Mode

Table 14 provides DMX channel mapping of all DMX512 control values when the SL WASH 180 RGBW LED Luminaire is in HSIC (Hue, Saturation, Intensity, and Color Correction) DMX512 mode (as set by the luminaire's menu system).

**Table 14: SL WASH 180 RGBW LED Luminaire DMX Channel Mapping (HSIC Mode)**

DMX Channel	Parameter	Range DMX	Range%	Default - recommended console default values	Description
1	Pan - High Byte	0 - 65535	0 - 100%	0	16-bit control for Pan Operation
2	Pan - Low Byte				
3	Tilt - High Byte	0 - 65535	0 - 100%	0	16-bit control for Tilt Operation
4	Tilt - Low Byte				
5	Master Intensity	0 - 255	0 - 100%	0	8-bit control for Intensity of LED settings.
6	Strobe	0 - 255	0 - 100%	0	<p><i>Controls strobe operations as follows:</i></p> <p>Open = DMX 0 - 2            Closed = DMX 3 - 5            Slow Rand = DMX 6 - 7            Med Rand = DMX 8 - 10            Fast Rand = DMX 11 - 12            Strobe Range = DMX 13 - 127 (fastest)            Pulse + Slow Rand = DMX 128 - 129            Pulse + Med Rand = DMX 130 - 131            Pulse + Fast Rand = DMX 132 - 133            Pulse + Range = DMX 134 - 191            Pulse - Slow Rand = DMX 192 - 193            Pulse - Med Rand = DMX 194 - 195            Pulse - Fast Rand = DMX 196 - 197            Pulse - Range = DMX 198 - 255</p>
7	Duration	0 - 255	0 - 100%	0	<p>Strobe's duration, Range is DMX 0 - 85 as follows:</p> <p>0 = DMX 0            1 = DMX 1 - 3  <math>x = (DMX\ Value - 1) / 3 + 1</math>            85 = DMX 253-255</p>
8	Zoom	0 - 255	0 - 100%	0	Control of variable zoom (beam spread) operation from 12 to 45 degrees
9	Focus Timing	0 - 255	0 - 100%	255	Timing control of Pan and Tilt
10	Timing	0 - 255	0 - 100%	255	Allows for timing control of Intensity, Color and Zoom parameters. Channel should default to 255 for smoothest actions using console and/or manual fades. Refer to " <b>DMX Timing Channel Detail</b> " on page 26.
11	Control	0 - 255	0 - 100%	255	<p><i>Control Channel functions of the SL Series products. Set control channel value from 0 then turn to desired action. Hold value for at least 5 seconds. Set control channel value to 0 without any scaling.</i></p> <p>Default Setting on Console = DMX 0-4            DIM Response_Normal = DMX 5 - 9            DIM Response_Incandescent = DMX 10 - 14            Dimming Curve_Linear = DMX 30 - 34            Dimming Curve_Square = DMX 35- 39            Dimming Curve_S-Curve = DMX 40 - 44            Dimming Curve_PL-Curve = DMX 45 - 49            Calibration_OFF = DMX 70 - 74            Calibration_ON = DMX 75 - 79            Map_RGBW 16-bit Mode = DMX 100 - 104            Map_RGBW 8-bit Mode = DMX 105 - 109            Map_HSIC Mode = DMX 110 - 114            Reserved ( Future use) = DMX 115 - 250</p>
12	Hue - High Byte	0 - 65535	0 - 100%	0	16-Bit control of Hue 0 - 359 Degrees
13	Hue - Low Byte				
14	Saturation	0 - 255	0 - 100%	0	8-bit control for Saturation.
15	Intensity	0 - 255	0 - 100%	0	8-bit control for Intensity.

**Table 14: SL WASH 180 RGBW LED Luminaire DMX Channel Mapping (HSIC Mode)**

16	CCT	0 - 255	0 - 100%	0	<i>Variable control of correlated color temperature as follows:</i> Channel OFF (disabled) DMX 0 - 5 2700K - 6500K. DMX 6 - 255
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## 2. DMX Timing Channel Detail

Timing channel control improves the timed moves of certain groups of parameters. The SL WASH 180 RGBW LED Luminaire provides timing channels in 16-bit mode (one for intensity time and one for color time) and one timing channel in 8-bit (color and intensity timing combined). The luminaire uses its timing channel value to calculate a smooth continuous operation for a given time and transition.

### Guidelines:

- Timing channels support time values from zero to 60 minutes.
- To use a timing channel instead of console timing, it is recommended to set the timing channel to the desired value and set cue and/or console cue fade time to zero. A combination of time controls can produce unexpected results.
- The default value setting in the profile should be 255 (proportional control) to allow smooth operation when using console timing.
- The timing channel data should change as a snap. A zero value will give the fastest operation, however, without any smoothing this can appear "steppy" in console timed moves.

Refer to "[DMX Timing Channel Detail](#)" for more information.

**Table 15: SL WASH 180 RGBW LED Luminaire Timing Channel Detail**

% Value	DMX	= Seconds <i>(unless noted)</i>
0	0	0 (Full Speed)
	1	0.2
	2	0.4
1	3	0.6
	4	0.8
2	5	1
	6	1.2
	7	1.4
3	8	1.6
	9	1.8
4	10	2
	11	2.2
	12	2.4
5	13	2.6
	14	2.8
6	15	3
	16	3.2
	17	3.4
7	18	3.6
	19	3.8
8	20	4
	21	4.2
	22	4.4
9	23	4.6
	24	4.8
10	25	5

Table 15: SL WASH 180 RGBW LED Luminaire Timing Channel Detail

% Value	DMX	= Seconds <i>(unless noted)</i>
	26	5.2
	27	5.4
11	28	5.6
	29	5.8
	30	6
12	31	6.2
	32	6.4
13	33	6.6
	34	6.8
	35	7.0
14	36	7.2
	37	7.4
15	38	7.6
	39	7.8
	40	8
16	41	8.2
	42	8.4
17	43	8.6
	44	8.8
	45	9
18	46	9.2
	47	9.4
19	48	9.6
	49	9.8
	50	10
20	51	10.2
	52	10.4
	53	10.6
21	54	10.8
	55	11
22	56	11.2
	57	11.4
	58	11.6
23	59	11.8
	60	12
24	61	12.2
	62	12.4
	63	12.6
25	64	12.8
	65	13
26	66	13.2
	67	13.4
	68	13.6
27	69	13.8
	70	14
28	71	14.2
	72	14.4
	73	14.6
29	74	14.8
	75	15
30	76	15.2

**Table 15: SL WASH 180 RGBW LED Luminaire Timing Channel Detail**

<b>% Value</b>	<b>DMX</b>	<b>= Seconds</b> <i>(unless noted)</i>
	77	15.4
	78	15.6
31	79	15.8
	80	16
	81	16.2
32	82	16.4
	83	16.6
33	84	16.8
	85	17
	86	17.2
34	87	17.4
	88	17.6
35	89	17.8
	90	18
	91	18.2
36	92	18.4
	93	18.6
37	94	18.8
	95	19
	96	19.2
38	97	19.4
	98	19.6
39	99	19.8
	100	20
	101	21
40	102	22
	103	23
	104	24
41	105	25
	106	26
42	107	27
	108	28
	109	29
43	110	30
	111	31
44	112	32
	113	33
	114	34
45	115	35
	116	36
46	117	37
	118	38
	119	39
47	100	40
	121	41
48	122	42
	123	43
	124	44
49	125	45
	126	46
	127	47

Table 15: SL WASH 180 RGBW LED Luminaire Timing Channel Detail

<b>% Value</b>	<b>DMX</b>	<b>= Seconds</b> <i>(unless noted)</i>
50	128	48
	129	49
51	130	50
	131	51
	132	52
52	133	53
	134	54
53	135	55
	136	56
	137	57
54	138	58
	139	59
55	140	60
	141	61
	142	62
56	143	63
	144	64
57	145	65
	146	66
	147	67
58	148	68
	149	69
59	150	70
	151	71
	152	72
60	153	73
	154	74
	155	75
61	156	76
	157	77
62	158	78
	159	79
	160	80
63	161	81
	162	82
64	163	83
	164	84
	165	85
65	166	86
	167	87
66	168	88
	169	89
	170	90
67	171	91
	172	92
68	173	93
	174	94
	175	95
69	176	96
	177	97
	178	98

**Table 15: SL WASH 180 RGBW LED Luminaire Timing Channel Detail**

<b>% Value</b>	<b>DMX</b>	<b>= Seconds</b> <i>(unless noted)</i>
70	179	99
	180	100
71	181	101
	182	102
	183	103
72	184	104
	185	105
73	186	106
	187	107
	188	108
74	189	109
	190	110
75	191	111
	192	112
	193	113
76	194	114
	195	115
77	196	116
	197	117
	198	118
78	199	119
	200	100
79	201	121
	202	122
	203	123
80	204	124
	205	125
81	206	126
	207	127
	208	128
82	209	129
	210	130
	211	131
83	212	132
	213	133
84	214	134
	215	135
	216	136
85	217	137
	218	138
86	219	139
	220	140
	221	141
87	222	142
	223	143
88	224	144
	225	145
	226	146
89	227	147
	228	148
	229	149



**Table 15: SL WASH 180 RGBW LED Luminaire Timing Channel Detail**

<b>% Value</b>	<b>DMX</b>	<b>= Seconds</b> <i>(unless noted)</i>
90	230	150
	231	151
91	232	152
	233	153
	234	154
92	235	155
	236	156
93	237	157
	238	158
	239	159
94	240	160
	241	161
95	242	162
	243	163
	244	164
96	245	165
	246	5 Minutes
97	247	15 Minutes
	248	30 Minutes
	249	60 Minutes
98	250*	60mS
	251*	80mS
99	252*	100mS
	253*	100mS
	254*	140mS
100	255* (default)	160mS

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**Note:** \* DMX values 250 to 255 provide smoothing when using console fade timing. DMX value 255 (recommended default) will provide the smoothest timing.

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## RDM PARAMETER IDS

### 1. SL WASH 180 RGBW LED Luminaire RDM Parameter IDs

The following tables outline and describe all the RDM parameters IDs associated with SL WASH 180 RGBW LED Luminaires.

- [Table 16, "SL WASH 180 RGBW LED Luminaire RDM Product Parameters IDs"](#)
- [Table 17, "SL WASH 180 RGBW LED Luminaire RDM UID"](#)
- [Table 18, "SL WASH 180 RGBW LED Luminaire RDM Parameters IDs"](#)
- [Table 19, "SL WASH 180 RGBW LED Luminaire RDM Manufacturer Status IDs," on page 34](#)
- [Table 20, "SL WASH 180 RGBW LED Luminaire RDM Manufacturer Specific PIDs," on page 34](#)

**Table 16: SL WASH 180 RGBW LED Luminaire RDM Product Parameters IDs**

Model ID	Manufacturer	Model Description	Product Category
0x1140	Philips Entertain. Lighting Asia	SL WASH 180 (RGBW)	0x0509

**Table 17: SL WASH 180 RGBW LED Luminaire RDM UID**

UID					
MSB of ESTA 50H	LSB of ESTA 41H	1st of Unique Seq.	2nd of Unique Seq.	3rd of Unique Seq.	4th of Unique Seq.

**Table 18: SL WASH 180 RGBW LED Luminaire RDM Parameters IDs**

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
<i>Category - Network Management</i>					
		DISC_UNIQUE_BRANCH	0x0001		■
		DISC_MUTE	0x0002		■
		DISC_UN_MUTE	0x0003		■
■		PROXIED_DEVICES	0x0010		
■		PROXIED_DEVICES_COUNT	0x0011		
■	■	COMMS_STATUS	0x0015		
<i>Category - Status Collection</i>					
■		QUEUED_MESSAGE	0x0020		■
■		STATUS_MESSAGES	0x0030		■
■		STATUS_ID_DESCRIPTION	0x0031		■
	■	CLEAR_STATUS_ID	0x0032		■
■	■	SUB_DEVICE_STATUS_REPORT_THRESHOLD	0x0033		
<i>Category - RDM Information</i>					
■		SUPPORTED_PARAMETERS	0x0050	Support required only if supporting Parameters beyond the minimum required set.	■
■		PARAMETER_DESCRIPTION	0x0051	Support required for Manufacturer-Specific PIDs exposed in SUPPORTED_PARAMETERS message.	■

Table 18: SL WASH 180 RGBW LED Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
<b>Category - Product Information</b>					
■		DEVICE_INFO	0x0060		■
■		PRODUCT_DETAIL_ID_LIST	0x0070		
■		DEVICE_MODEL_DESCRIPTION	0x0080		■
■		MANUFACTURER_LABEL	0x0081		■
■	■	DEVICE_LABEL	0x0082		■
■	■	FACTORY_DEFAULTS	0x0090		■
■		LANGUAGE_CAPABILITIES	0x00A0		
■	■	LANGUAGE	0x00B0		
■		SOFTWARE_VERSION_LABEL	0x00C0		■
■		BOOT_SOFTWARE_VERSION_ID	0x00C1		
■		BOOT_SOFTWARE_VERSION_LABEL	0x00C2		
<b>Category - DMX512 Setup</b>					
■	■	DMX_PERSONALITY	0x00E0		■
■		DMX_PERSONALITY_DESCRIPTION	0x00E1		■
■	■	DMX_START_ADDRESS	0x00F0	Required if device uses a DMX Slot	■
■		SLOT_INFO	0x0120		■
■		SLOT_DESCRIPTION	0x0121		■
■		DEFAULT_SLOT_VALUE	0x0122		
<b>Category - Sensors 0x02xx</b>					
■		SENSOR_DEFINITION	0x0200		■
■	■	SENSOR_VALUE	0x0201		■
	■	RECORD_SENSORS	0x0202		
<b>Category - Dimmer Settings 0x03xx - FUTURE USE</b>					
<b>Category - Power / Lamp Settings 0x04xx</b>					
■	■	DEVICE_HOURS	0x0400		
■	■	LAMP_HOURS	0x0401		
■	■	LAMP_STRIKES	0x0402		
■	■	LAMP_STATE	0x0403		
■	■	LAMP_ON_MODE	0x0404		
■	■	DEVICE_POWER_CYCLES	0x0405		
<b>Category - Display Settings 0x05xx</b>					
■	■	DISPLAY_INVERT	0x0500		■
■	■	DISPLAY_LEVEL	0x0501		
<b>Category - Configuration 0x06xx</b>					
■	■	PAN_INVERT	0x0600		
■	■	TILT_INVERT	0x0601		
■	■	PAN_TILT_SWAP	0x0602		
■	■	REAL_TIME_CLOCK	0x0603		
<b>Category - Control 0x10xx</b>					
■	■	IDENTIFY_DEVICE	0x1000		■
	■	RESET_DEVICE	0x1001		

Table 18: SL WASH 180 RGBW LED Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
■	■	POWER_STATE	0x1010		
■	■	PERFORM_SELFTEST	0x1020		
■		SELF_TEST_DESCRIPTION	0x1021		
	■	CAPTURE_PRESET	0x1030		
■	■	PRESET_PLAYBACK	0x1031		

Table 19: SL WASH 180 RGBW LED Luminaire RDM Manufacturer Status IDs

Manufacturer Specific messages are in the range of 0x8000 - 0xFFDF. Each Manufacturer-specific Status ID shall have a unique meaning, which shall be consistent across all products having a given Manufacturer ID. See Table B-2, ANSI E1.20-2010.

Status ID Message	Value	Data Value 1	Data Value 2	Status ID Description
8100H		00H	00H	ALL OK

Table 20: SL WASH 180 RGBW LED Luminaire RDM Manufacturer Specific PIDs

Get Allowed	Set Allowed	RDM Parameter IDs	Type	Length	Unit	Prefix	Min	Max	Default	Description
<i>Category - Manufacturer Defined PIDs - Range is 0x8000-0xffdf (See ANSI E1.20-2010 Standard, Table A-3)</i>										
■	■	8A00H	U8	1	None	None	0	100	100	DIMMER
■	■	8A04H	U8	1	None	None	0	100	100	Dimmer RED
■	■	8A05H	U8	1	None	None	0	100	100	Dimmer GREEN
■	■	8A06H	U8	1	None	None	0	100	100	Dimmer BLUE
■	■	8A07H	U8	1	None	None	0	100	100	Dimmer WHITE
■	■	8AB2H	U8	1	None	None	1	18	1	Chase
■	■	8AB0H	U8	1	None	None	0	43	0	Color Filter
■	■	8AB1H	U8	1	None	None	0	31	0	Preset
■	■	8A92H	U8	1	None	None	0	255	0	Strobe
■	■	8A94H	U8	1	None	None	0	255	0	Duration
■	■	8A95H	U16	1	None	None	0	65535	0	Pan
■	■	8A96H	U16	1	None	None	0	65535	0	Tilt
■	■	8AC3H	U16	1	None	None	0	65535	0	Pan/Tilt Timing
■	■	8AC0H	U8	1	None	None	0	255	255	Intensity Timing
■	■	8AC2H	U8	1	None	None	0	255	255	Color Timing
■	■	8A40H	U8	1	None	None	0	1	0	Link Mode
■	■	8A42H	U8	1	None	None	0	1	0	Incandescent Effect
■	■	8AA1H	U8	1	None	None	0	3	0	Dimming Curve
■	■	8A0CH	U8	1	None	None	0	3	0	DMX Fail Mode
■	■	8AA0H	U8	1	None	None	0	4	0	Backlight Off Time
■	■	8AA2H	U8	1	None	None	0	94	0	Power Up Setup
■	■	8A44H	U8	1	None	None	0	1	0	Calibration ON/OFF Setup
■	■	8A41H	U8	1	None	None	0	1	0	Lock Fixture

# CLEANING AND CARE

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**WARNING!** All cleaning should be performed with power completely removed from the luminaire. Never remove protective covers when luminaire is powered. Wear appropriate protective eye wear and gloves when cleaning the fixture. All service and maintenance, other than described herein, should be performed by a qualified technician or Authorized Service Center.

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## 1. Special Cleaning and Care Instructions

Being a solid-state fixture, and unlike most fixtures, the SL WASH 180 RGBW LED Luminaire requires very little routine maintenance by the user. This section covers portions of the luminaire that can be removed for cleaning.

The SL WASH 180 RGBW LED Luminaire special care when it comes to cleaning front lens assembly. Additional care needs to be taken with the plastic components because they are much easier to scratch or damage than glass.

The following is a list of cleaning materials required to care for your SL WASH 180 RGBW LED Luminaire:

- Lint free lens tissue
- Lint or powder free gloves
- Reagent grade isopropyl alcohol\*
- A mild soap solution.

**Note:** \*Reagent grade isopropyl alcohol is good to use on the SL WASH 180 RGBW LED Luminaire plastic optics with anti-reflection coatings.

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If the lens is still dirty after using isopropyl alcohol, for instance if fingerprints or oil is just redistributed and not cleaned off the optic, then a mild soap and water solution can be used to gently wash the lens. Repeat the cleaning with isopropyl alcohol to eliminate streaks and soap residue.

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**WARNING!** Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the SL WASH 180 RGBW LED Luminaire. These types of cleaners or solvents can permanently damage the optics or housings of the fixture.

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If you have any questions regarding the use or care of your SL WASH 180 RGBW LED Luminaire, please contact Showline technical support or your local Authorized Dealer.

## 2. Front Lens Cleaning

**To clean the front lens:**

- Step 1. Turn off luminaire and allow to cool completely.
- Step 2. Apply a small amount of reagent grade isopropyl alcohol to lint-free lens tissue.
- Step 3. Wipe all debris, dirt, fingerprints, etc. from lens.
- Step 4. Using a second lint-free lens tissue, wipe off any alcohol residue.

## 3. Service and Maintenance

For all other service and maintenance issues, please contact your local Showline office or an Authorized Service Center.

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**WARNING!** Disassembly (other than as described herein), alterations, unauthorized service, etc. will void the product warranty. Contact your local Showline office or an Authorized Service Center for technical support and service.

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# TECHNICAL SPECIFICATIONS

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## 1. Operational Specifications

Source:	Color RGBW LED Array (x54 - 16 RED/12 GREEN/14 BLUE/12 WHITE all 600mA)
Beam Angle:	12 to 45 Degrees Zoom
Light Output:	3,475 Lumens, CRI/CQS: >90 (RGBW)
Color Temperature:	2700 - 10000K (user adjustable)
Input Voltage (AC):	100V to 240V (+/- 10%, auto-ranging)
Power Consumption:	180 Watts (max.)
Pan & Tilt:	Pan 660 degrees / Tilt 300 degrees
Frequency:	50/60Hz
Control Protocols:	DMX512 (1990) / DMX512A (RDM) / On-Board Menu
Ambient Temperature:	-20 to 40 Degrees C (-4 to 104 Degrees F)
Humidity:	5%-95% Non condensing
Cooling:	Forced Air
Weight:	17.6 lbs (8.0 kg) - Luminaire only (no mount, AC input cable or accessories)
Housing:	Die Cast Aluminium with Powder Coating
Compliance:	CE Marked
IP Rating:	IP20

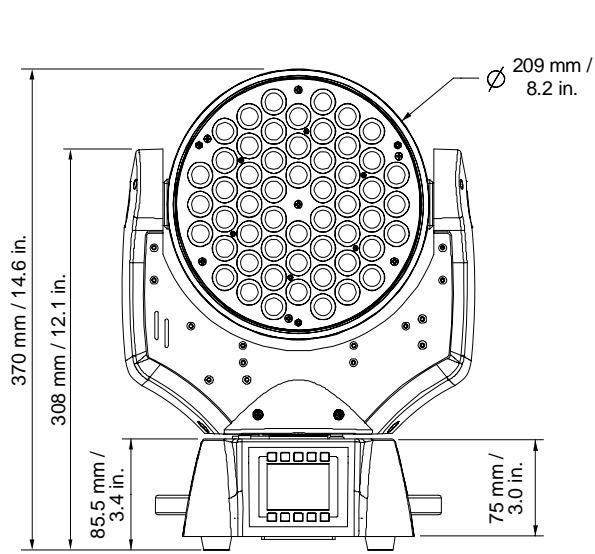
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**Note:** Common model specifications shown. For specific model specifications, features, and accessories, refer to the product specification sheet for more details.

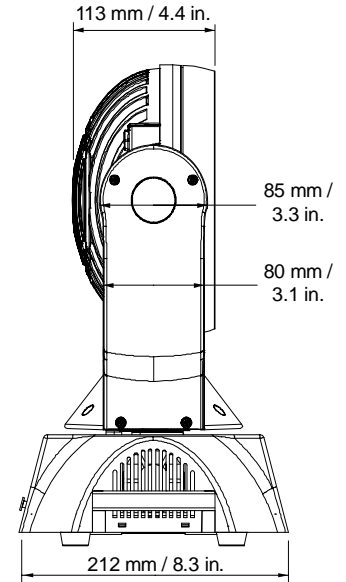
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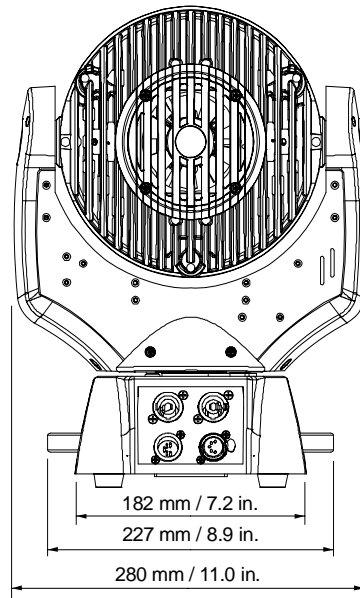
## 2. Luminaire Dimensions



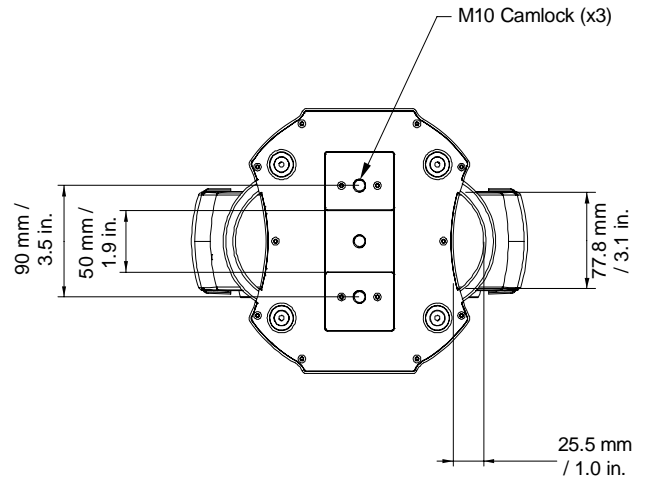
Front View



Side View



Rear View



Enclosure View

# Showline

## Dallas

10911 Petal Street  
Dallas, TX 75238  
Tel: +1 214-647-7880  
Fax: +1214-647-8031

## Asia

Unit C, 14/F, Roxy Industrial Centre  
No. 41-49 Kwai Cheong Road  
Kwai Chung, N.T., Hong Kong  
Tel: +852 2796 9786  
Fax: +852 2798 6545

## Auckland

19-21 Kawana Street  
Northcote, Auckland 0627  
New Zealand  
Tel: +64 9 481 0100  
Fax: +64 9 481 0101

## Europe

Rondweg zuid 85  
Winterswijk 7102 JD  
The Netherlands  
Tel: +31 (0) 543-542516

# PHILIPS