Showline

SL NITRO

LED Strobe Luminaire



www.vari-lite.com

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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

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

1. About this Manual

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

• SL NITRO 510 LED STROBE 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.

Note: The SL NITRO 510 LED STROBE Luminaire is universal voltage 100 to 240 VAC (auto-ranging).

2. Included Items

Each SL NITRO 510 LED STROBE Luminaire includes the following items:

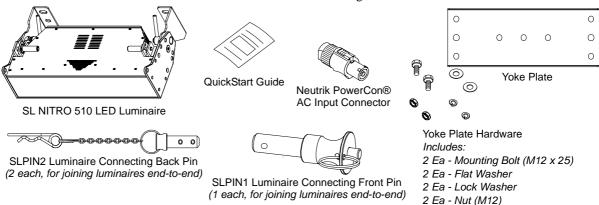


Figure 1: Included Items

3. Accessories

SL NITRO 510 LED STROBE Luminaire Power Input Cables (North American Models Only)

| Part Number | Description |
|-------------|--|
| PC1BE | SL NITRO 510 LED STROBE Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Bare End* (*Note, user supplies and installs own AC input connector) |
| PC1GP | SL NITRO 510 LED STROBE Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Stagepin Connector |
| PC1GTL | SL NITRO 510 LED STROBE Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Twistlock Connector |
| PC1GR | SL NITRO 510 LED STROBE Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Edison Connector |
| PC3BE | SL NITRO 510 LED STROBE Luminaire AC Power Input Cable (9.8 Feet / 3 meter), Powercon with Bare End* (*Note, user supplies and installs own AC input connector) |
| PC8BE | SL NITRO 510 LED STROBE Luminaire AC Power Input Cable (26 Feet / 8 meter), Powercon with Bare End* (*Note, user supplies and installs own AC input connector) |
| PC8GR | SL NITRO 510 LED STROBE Luminaire AC Power Input Cable (26 Feet / 8 meter), Powercon with Edison Connector |

SL NITRO 510 LED STROBE Luminaire Accessories

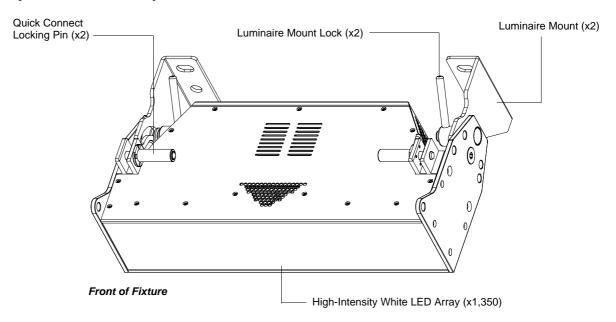
| Part Number | Description |
|-------------|---|
| MC | Mega Claw, Black, Anodized |
| SC | Molded Yoke C-Clamp |
| HC | Light Weight Half Coupler |
| 82003 | Safety Cable |
| SLPIN1 | Luminaire Connecting Front Pin (North American Models Only) |
| SLPIN2 | Luminaire Connecting Back Pin (North American Models Only) |



SL NITRO 510 LED STROBE LUMINAIRE OVERVIEW

1. SL NITRO 510 LED STROBE Luminaire Components

Major Luminaire Components



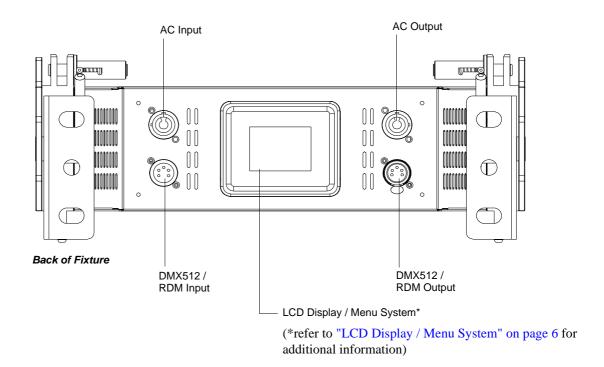
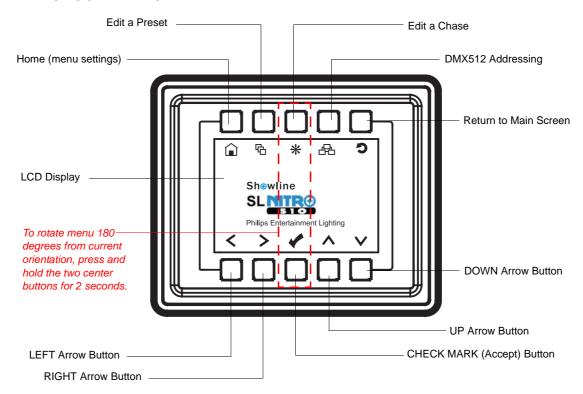


Figure 2: SL NITRO 510 LED STROBE Luminaire Components



LCD Display / Menu System



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

Figure 3: LCD Display & Menu System

Note: For Menu operation and programming details, refer to "LCD Display and Menu System" on page 16.



INSTALLATION AND SET UP

1. Power Requirements

The SL NITRO 510 LED STROBE Luminaire operates on AC input voltages from 100 to 240 VAC.



WARNING! This unit does not contain an ON/OFF switch. Always disconnect power input cable to completely remove power from unit 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 360 Watts.



WARNING! Maximum amount of units that may be daisy-chained is (A) 5 units 100VAC (20 Amps) or (B) 13 units 240VAC (20 Amps). Refer to Table 1 for detailed information at various voltages.

Note: For wiring of AC input connector, refer to "Connecting SL NITRO 510 LED STROBE Luminaires to AC Power" on page 8.

Table 1: SL NITRO 510 LED STROBE Luminaire Voltage vs. Current

| Voltage (AC) | Total Current (A) | Maximum number of units that can be linked together* |
|-----------------|----------------------|--|
| 100 | 3.60 | 5 |
| 110 | 3.27 | 6 |
| 120 | 3.00 | 6 |
| 130 | 2.77 | 7 |
| 140 | 2.57 | 7 |
| 150 | 2.40 | 8 |
| 160 | 2.25 | 8 |
| 170 | 2.12 | 9 |

| Voltage (AC) | Total Current (A) | Maximum number of units that can be linked together* |
|-----------------|----------------------|--|
| 180 | 2.00 | 10 |
| 190 | 1.89 | 10 |
| 200 | 1.80 | 11 |
| 210 | 1.72 | 11 |
| 220 | 1.64 | 12 |
| 230 | 1.57 | 12 |
| 240 | 1.50 | 13 |



WARNING! *These figures are based on the Maximum Allowable Input Current of 20 Amps (and the maximum power supply limit of 360 Watts). *Do not overload circuits!*



IMPORTANT AC POWER CONNECTION NOTES:

- a. When using the daisy-chain connection method, ONLY connect SL NITRO 510 LED STROBE Luminaires to AC Output Connection of SL NITRO 510 LED STROBE Luminaires. DO NOT CONNECT OTHER TYPES OF LUMINAIRES OR DEVICES!
- b. Use only use approved cable types.
- c. Do not overload circuits!
- d. Do not connect SL NITRO 510 LED STROBE Luminaires to dimmed circuits.
- e. The MAXIMUM allowable number of SL NITRO 510 LED STROBE Luminaires which can be 'daisy-chained' on one power feed are listed in Table 1, above. *DO NOT EXCEED!*



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 NITRO 510 LED STROBE Luminaires to AC Power" on page 8.
- Connection from the AC output of another SL NITRO 510 LED STROBE Luminaire. When using this method, it is very important not to connect any other type of equipment device.



WARNING! Only connect other SL NITRO 510 LED STROBE Luminaires to the AC Output (Thru) connector of a SL NITRO 510 LED STROBE Luminaire.

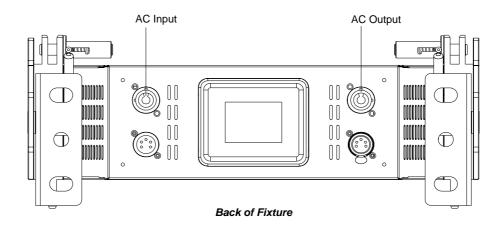
Connecting SL NITRO 510 LED STROBE Luminaires to AC Power

If the unit is supplied with an AC input cable without an input connector installed. The input connector is a user-supplied accessory.

Table 2 on page 8 describes how to connect power to your SL NITRO 510 LED STROBE Luminaire. Field wiring of the SL NITRO 510 LED STROBE Luminaire is straight forward. A total of 3 wires/conductors is supplied from the unit. The following wiring scheme is used:

Table 2: SL NITRO 510 LED STROBE Luminaire (IP20 Rated Models) AC Input Connections

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



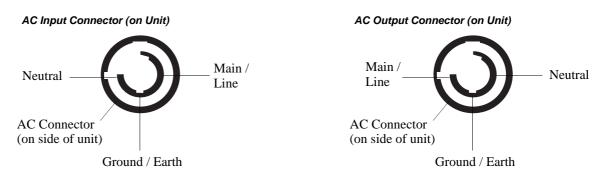


Figure 4: SL NITRO 510 LED STROBE Luminaire AC Input & Output Connections



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 NITRO 510 LED STROBE 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 NITRO 510 LED STROBE Luminaire. Another cable runs from the other DMX connector on the first unit to a DMX connector on the next SL NITRO 510 LED STROBE Luminaire (or DMX512 device to be controlled).

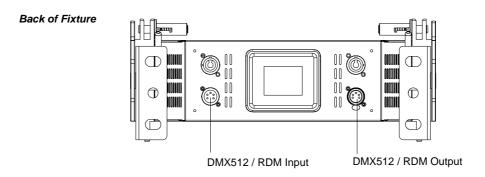


Figure 5: SL NITRO 510 LED STROBE Luminaire DMX512 Input / Output Connections

Note: For more information on DMX512 networking and systems, refer to "Additional Resources for DMX512" on page 1. For SL NITRO 510 LED STROBE Luminaire DMX Mapping, refer to "DMX CONTROL" on page 24.

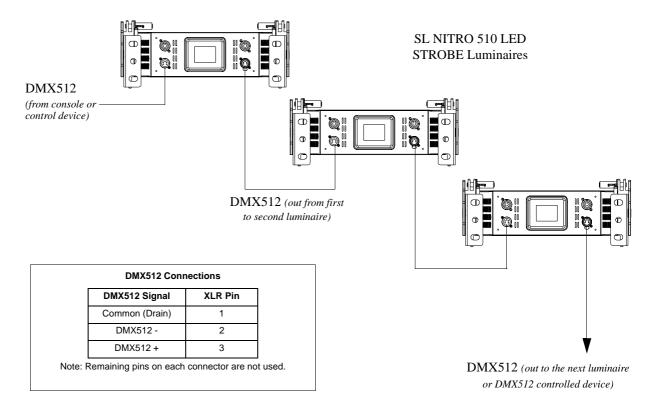


Figure 6: SL NITRO 510 LED STROBE Luminaire - DMX512 Connections



4. Mounting Luminaire

SL NITRO 510 LED STROBE Luminaires are provided with the ability to hang via truss hooks, clamps, etc. (sold separately). Simply attach hook, clamp, etc. to the SL NITRO 510 LED STROBE Luminaire's mounts in the provided M9 holes. It is recommended (and may be required by local and national safety codes) to use and install a safety cable (sold separately). When hanging the fixture, be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling and positioning.

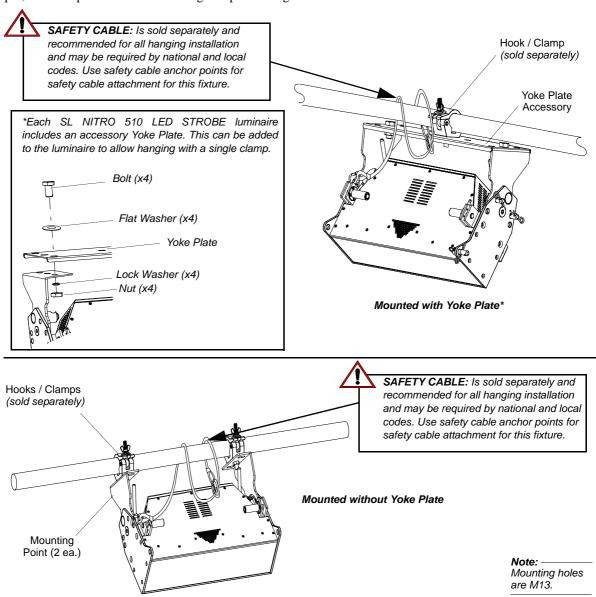


Figure 7: Mounting Luminaire

5. Connecting & Mounting Multiple Luminaires

SL NITRO 510 LED STROBE Luminaires include a built-in Quick Connect system that allows the luminaires to be physically connected together while retaining perfect pixel pitch. Units may be connected in top-to-bottom or side-by-side to allow for a wide range of configurations. In addition, they may be connected together with the SL BAR 520 RGBW LED luminaire.



Connecting Luminaires Top-to-Bottom

Each SL NITRO 510 LED STROBE Luminaire includes two built-in Quick Connect slot and pin systems as illustrated in **Figure 8**. This allows a quick connection of units when stacked on top of each other. Up to twenty SL NITRO 510 LED STROBE Luminaires may be supported when connected using the Quick Connect system.

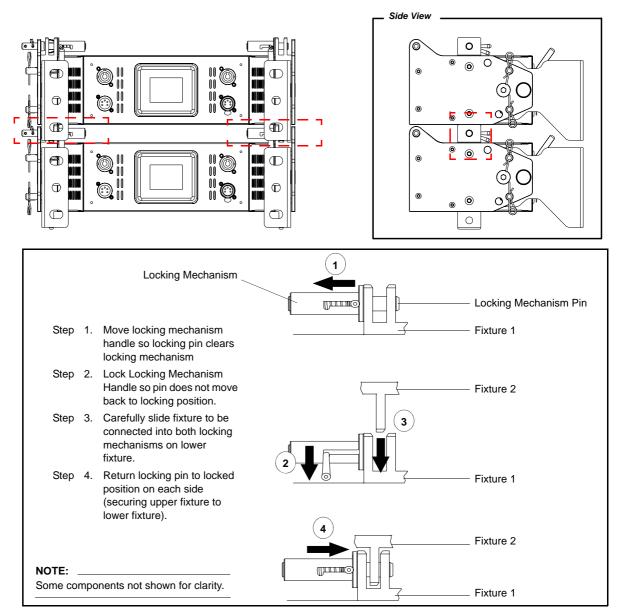


Figure 8: Connecting Luminaires Top-to-Bottom



WARNING! Your structure must be capable of properly supporting the weight of multiple connected fixtures. Each fixture must use an approved safety cable attached to a fixed object. Up to twenty SL NITRO 510 LED STROBE Luminaires may be supported when connected using the Quick Connect system. When connecting units together, ensure all Quick-Connect pins are in the "engaged" position.



Connecting Luminaires Side-to-Side

Each SL NITRO 510 LED STROBE Luminaire ships with three Luminaire Connecting Pins as indicated in **Figure 9**. All three pins are used to connect two luminaires together linearly. Each fixture must be mounted using its own mounting hardware. The side-to-side pins are only to align the luminaires and do not provide hanging support.

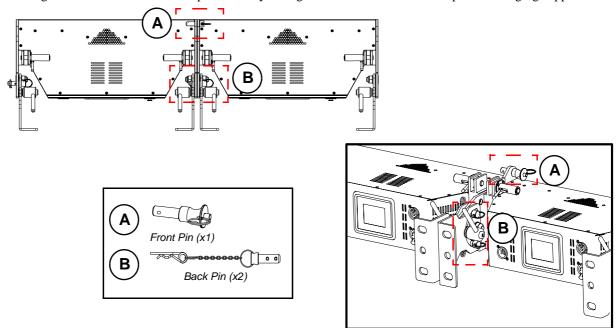


Figure 9: Connecting Luminaires Side-to-Side



WARNING! Each fixture must use an approved safety cable attached to a fixed object.

6. Mounting SL NITRO 510 LED STROBE Luminaire with Other Luminaires

The SL NITRO 510 LED STROBE Luminaire and SL BAR 520 LED Luminaire are designed to be connected together top-to-bottom and/or end-to-end using the same connecting hardware. The pixels of the SL BAR 520 LED Luminaire and the zones of the SL NITRO 510 LED STROBE Luminaire will be perfectly aligned when connected via the built-in connecting hardware.

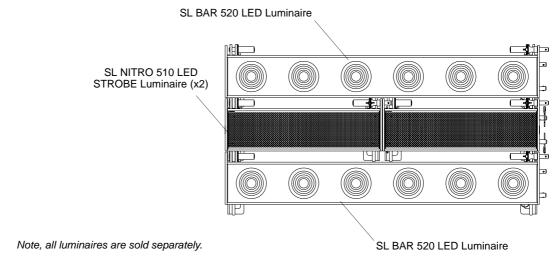


Figure 10: Combining SL NITRO 510 and SL BAR 520 luminaires



Connecting Combined Luminaires Top-to-Bottom

When combining units connected top-to-bottom, two SL NITRO 510 LED STROBE Luminaires are first connected end-to-end and then connected top-to-bottom with a single SL BAR 520 luminaire.

Connecting Notes:



WARNING! Do not exceed 10 rows of combined luminaires connected together top-to-bottom with a single hanging point. If more than 10 rows are required, each ten rows must use its own connection to a fixed object.

• The two SL NITRO 510 units must have all three side-to-side pins installed (refer to **Figure 11** and "Connecting Luminaires Side-to-Side" on page 12).

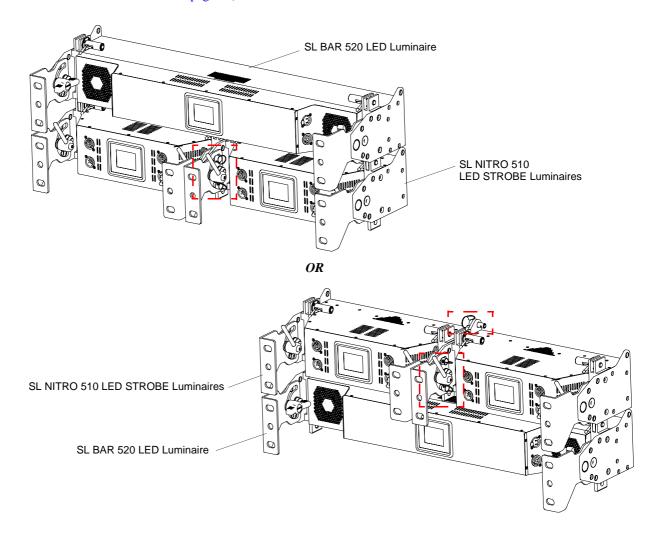
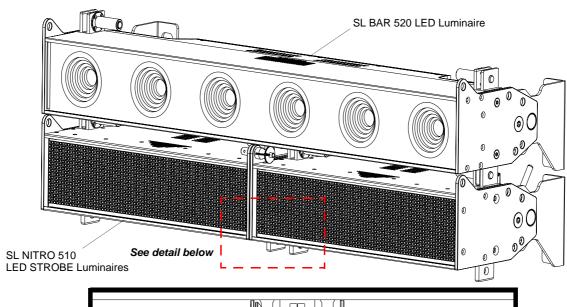


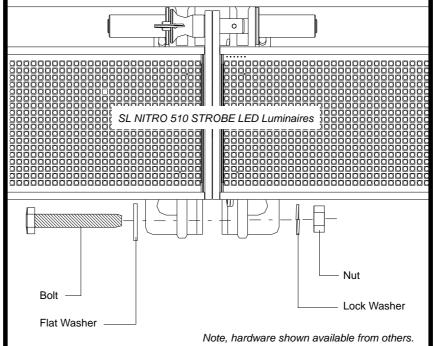
Figure 11: SL NITRO 510 LED STROBE Luminaires - Connections

- When two SL NITRO 510 LED STROBE Luminaires are combined with a SL BAR 520, there is no top-to-bottom connection available in the center.
- When a SL BAR 520 unit is mounted below the two SL NITRO 510 LED STROBE Luminaires, the top-to-bottom connections will rest on the center of the SL BAR 520, preventing the units from spreading apart in the center.
- If the bottom of a configuration has two SL NITRO 510 LED STROBE Luminaires below a single SL BAR 520, connect the bottom center top-to-bottom connections with the following hardware (available from others) to pre-



vent the spacing between the two SL NITRO 510 LED STROBE Luminaires from spreading apart at the center. Obtain and install:





- 1) One M10-1.5 x 25 mm Long, Hex Head Cap Bolt
- 2) One 10 mm Flat Washer
- 3) One 10 mm Split-Lock Washer
- 4) One M10-1.5 (8 mm high) Hex Nut
- Installation is Flat Washer under Bolt Head, Bolt through both SL NITRO 510 LED STROBE Luminaire brackets, Lock Washer, and then Hex Nut. Hand tighten.



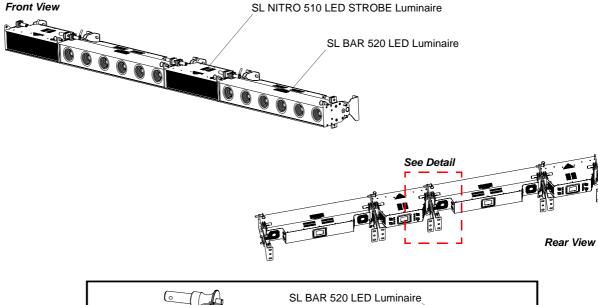
WARNING! Your structure must be capable of properly supporting the weight of multiple connected fixtures. Each fixture must use an approved safety cable attached to a fixed object. Up to ten luminaire rows may be supported when connected using the Quick Connect system.



Connecting Combined Luminaires Side-to-Side

When combining units connected side-to-side, all units connect using the same pin system and any combination can be created (refer to installation instructions and warnings contained in "Connecting Luminaires Side-to-Side" on page 12).

- Each SL NITRO 510 LED STROBE Luminaire and SL BAR 520 RGBW Luminaire ships with three Luminaire Connecting Pins as indicated in **Figure 9**.
- The three side-to-side pins must be installed per luminaire.
- All three pins are used to connect luminaires together linearly. Each fixture must be mounted using its own mounting hardware. The side-to-side pins are only to align the luminaires and do not provide hanging support.
- Figure 12 shows an example of connecting luminaires side-by-side.



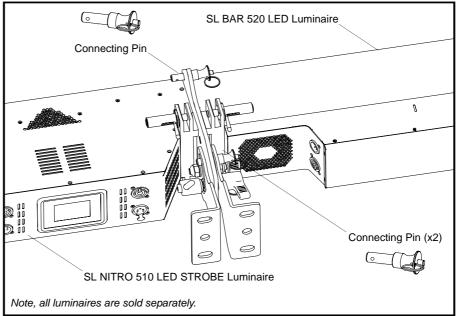


Figure 12: Connecting Combined Luminaires Side-to-Side Example



WARNING! Each fixture must use an approved safety cable attached to a fixed object.



OPERATION AND PROGRAMMING

1. LCD Display and Menu System

The SL NITRO 510 LED STROBE Luminaire's LCD Display and Menu System provides local control for accessing the following fixture's settings:

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

Note: If there are multiple luminaires in a system, changes would need to be made at each LCD Menu as desired. For SL NITRO 510 LED STROBE Luminaire menu structure, see "SL NITRO 510 LED STROBE Luminaire Main Menu Options" on page 17.

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 13 on page 17) 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.



Edit a Preset Edit a Chase Home (menu settings) DMX512 Addressing Return to Main Screen / Return Up One Level LCD Display **RIGHT Arrow Button LEFT Arrow Button DOWN Arrow Button** UP Arrow Button -OK (Check Mark) Button To rotate menu 180 degrees manually from current NOTE: Menu rotates with orientation of Luminaire and orientation, press and hold the two center buttons for 2 menu buttons are always in the same position (with seconds. rotation of menu)

Figure 13: LCD Display and Menu System

3. SL NITRO 510 LED STROBE 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 18.
- Depending on the DMX map set assigned the DMX menu, different parameters will be available. See "DMX CONTROL" on page 24 for additional information.
- 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.

Effects

Effects are chases 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.

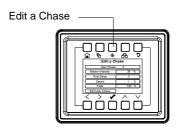
Table 3: Effects Parameters

| 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 18.
- Depending on the DMX map set assigned the DMX menu, different parameters will be available. See "DMX CONTROL" on page 24 for additional information.
- 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.

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 4: 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 5: 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. |
| | Select the security level to default to when the fixture is powered ON. |
| Power-up Level | Disable PIN will disable all security functions. |
| | Locked will lock all functions. |

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 6.

Table 6: 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, presets, and chases. |
| Mode | Select either Master/Slave (see Master / Slave Operational Mode for more information). |
| Dimming Curve | Select one of four dimming curve choices (see Dimming Curve Selection for more information). |
| Fan Control | Select Auto of Off fan operation (see DMX CONTROL 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 7.

Table 7: Factory Default Parameters

| Parameter | Description |
|-----------|--|
| | No - all menu items are able to be restored to factory defaults. |
| Protected | Preset & Chase - user edited Presets and Chases are not able to be restored to factory defaults. |



Table 7: Factory Default Parameters

| Parameter | Description |
|--------------|---|
| Load Factory | No - no action. |
| Load Factory | Yes - restore to factory default menu settings. |

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 8.

Table 8: DMX Setting Parameters

| Parameter | Description |
|---------------|--|
| DMX Enable | Enable - Fixture will respond to DMX commands/signals. |
| DIVIA ETIABLE | Disable - Fixture will ignore DMX commands/signals. |
| Address | Assigns the fixture's DMX start address. |
| Мар | Selects the DMX map for the fixture to use (see DMX CONTROL section for more information). |
| | Selects the action of the fixture when the unit is powered ON and not receiving DMX. |
| | Off - Turn off all LED output. |
| When no DMX | Last Action - restore the last menu action. |
| | Power-up - follow the power-up value in the settings menu. |
| | Hold - continue with the last DMX values received. |

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 9.

Table 9: LCD Display Parameters

| Parameter | Description | | | | | |
|-----------------|---|--|--|--|--|--|
| | Yes - The display will be inverted. | | | | | |
| Flip Display | No - The display will not be inverted. | | | | | |
| | Auto - The display will automatically invert depending upon fixture orientation. | | | | | |
| 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 18 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 18 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 zone of the fixture. Use the Up Down Left Right arrows to scroll through the different zones 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 9.

Quick Select Button
Description

Main Menu
Refer to Settings/General for more information.
Edit a Preset
Refer to Recalling or Editing Presets for more information.

Effects / Edit a Chase
Refer to Effects and Editing User Chases for more information.
DMX Start Address
Refer to DMX Address for more information.

Refer to DMX Address for more information.
Return to Main Menu / Return Up a Menu Item

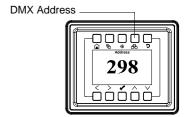
Table 10: Quick Select Buttons

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:

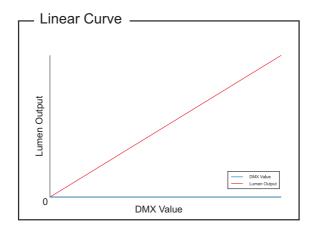
- Step 1. Press the Check Mark button to begin the DMX start address editing. The last digit will change to a blue color.
- Step 2. Use the UP and Down arrows to change the value of the currently selected digit.
- Step 3. Use the Left and Right arrows to select another digit to adjust.
- Step 4. Press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

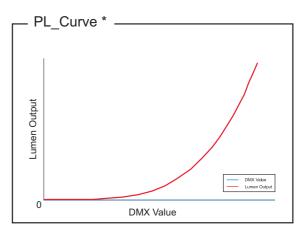


4. Dimming Curve Selection

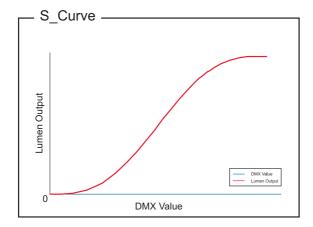
Through the menu, you are able to select one of four dimming curves:

- Linear Curve
- PL_Curve
- S_Curve
- Square Curve





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



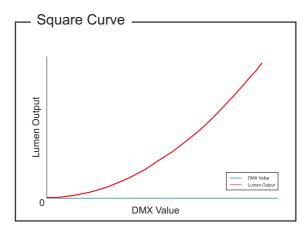


Figure 14: SL NITRO 510 LED STROBE Luminaire Dimmer Curves

5. Master / Slave Operational Mode

The Master / Slave Operational Mode allows one SL NITRO 510 LED STROBE 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 NITRO 510 LED STROBE Luminaire DMX Mapping, refer to "DMX CONTROL" on page 24.

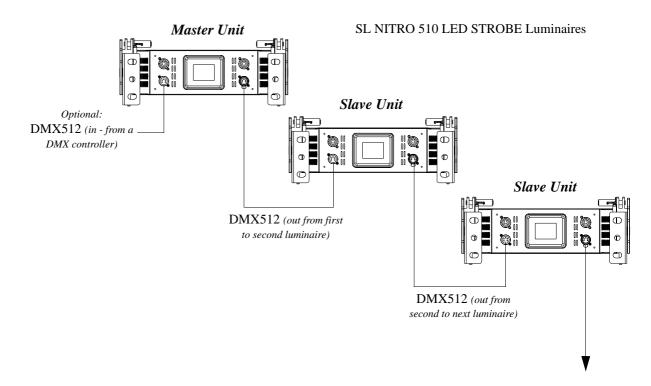


Figure 15: SL NITRO 510 LED STROBE Luminaire - Master / Slave Configuration



DMX CONTROL

This section contains information for operating the luminaire using one of the DMX control modes as set by the luminaire's menu system:

- "Single Channel Control Mode" (below)
- "Three Channel Control Mode" (below)
- "Four Channel Control Mode" on page 25
- "16-bit Control Mode" on page 25
- "Zone Mapping Mode" on page 26

For Menu options and detailed information, see "LCD Display and Menu System" on page 16.

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. Single Channel Control Mode

Table 11 provides DMX channel mapping of the DMX512 control values when the SL NITRO 510 LED STROBE Luminaire is in Single Channel DMX512 mode (as set by the luminaire's menu system).

Table 11: DMX Channel Mapping (Single Channel Mode)

| DMX Channel | Parameter | Range DMX | Range% | Default - recom- mended console default values | Description |
|----------------|-------------|-----------|----------|--|--|
| 1 | Strobe Rate | 0 - 255 | 0 - 100% | 0 | Controls strobe rate operation. Refer to "Strobe Rate DMX Timing Detail" on page 29. |

2. Three Channel Control Mode

Table 12 provides DMX channel mapping of all DMX512 control values when the SL NITRO 510 LED STROBE Luminaire is in Three Channel DMX512 mode (as set by the luminaire's menu system).

Table 12: DMX Channel Mapping (Three Channel Mode)

| DMX Channel | Parameter | Range DMX | Range DMX Range% | | Description | | |
|----------------|-----------------|-----------|------------------|---|---|--|--|
| 1 | Intensity | 0 - 255 | 0 - 100% | 0 | 8-bit control for the intensity of the LED settings - 0 to 255 (full) | | |
| 2 | Strobe Duration | 0 - 255 | 0 - 100% | 0 | Controls strobe duration operation. Refer to "Strobe Duration DMX Timing Detail" on page 30 | | |
| 3 | Strobe Rate | 0 - 255 | 0 - 100% | 0 | Controls strobe rate operation. Refer to "Strobe Rate DMX Timing Detail" on page 29. | | |



3. Four Channel Control Mode

Table 13 provides DMX channel mapping of all DMX512 control values when the SL NITRO 510 LED STROBE Luminaire is in Four Channel DMX512 mode (as set by the luminaire's menu system).

Table 13: DMX Channel Mapping (Four Channel Mode)

| DMX Channel | Parameter | Range DMX | Range DMX Range% | | Description | | |
|----------------|-----------------|-----------|------------------|---|---|--|--|
| 1 | Intensity | 0 - 255 | 0 - 100% | 0 | 8-bit control for the intensity of the LED settings - 0 to 255 (full) | | |
| 2 | Strobe Duration | 0 - 255 | 0 - 100% | 0 | Controls strobe duration operation. Refer to "Strobe Duration DMX Timing Detail" on page 30. | | |
| 3 | Strobe Rate | 0 - 255 | 0 - 255 0 - 100% | | Controls strobe rate operation. Refer to "Strobe Rate DMX Timing Detail" on page 29. | | |
| 4 | Strobe Effects | 0 - 255 | 0 - 100% | 0 | Controls strobe operation as follows: No Effect = DMX 0 - 5 (default) Ramp Up = DMX 6 - 42 Ramp Down = DMX 43 - 85 Ramp up/down = DMX 86 - 128 Random = DMX 129 - 171 Top row only = DMX 172 - 173 Bottom row only = DMX 174 - 175 Left zone only = DMX 176 - 178 Center zone only = DMX 179 - 180 Right zone only = DMX 181 - 182 Checker pattern A = DMX 183 - 184 Checker pattern B = DMX 185 - 186 Random zones = DMX 187 - 214 Circle zone chase CW = DMX 236 - 255 | | |

4. 16-bit Control Mode

Table 14 provides DMX channel mapping of all DMX512 control values when the SL NITRO 510 LED STROBE Luminaire is in 16-bit DMX512 mode (as set by the luminaire's menu system).

Table 14: DMX Channel Mapping (16-bit Control Mode)

| DMX Channel | Parameter | | | Default - recom- mended console default values | Description | | |
|----------------|-----------------------|-----------|-----------|--|---|--|--|
| 1 | Intensity - High Byte | 0 - 65535 | 0 - 100% | 0 | 16-bit control for the intensity of the LED settings | | |
| 2 | Intensity - Low Byte | 0 - 03333 | 0 - 100 % | O | - 0 to 65535 (full) | | |
| 3 | Strobe Effects | 0 - 255 | 0 - 100% | 0 | Controls strobe operation as follows: No Effect = DMX 0 - 5 (default) Ramp Up = DMX 6 - 42 Ramp Down = DMX 43 - 85 Ramp up/down = DMX 86 - 128 Random = DMX 129 - 171 Top row only = DMX 172 - 173 Bottom row only = DMX 174 - 175 Left zone only = DMX 176 - 178 Center zone only = DMX 179 - 180 Right zone only = DMX 181 - 182 Checker pattern A = DMX 183 - 184 Checker pattern B = DMX 185 - 186 Random zones = DMX 187 - 214 Circle zone chase CW = DMX 236 - 255 | | |

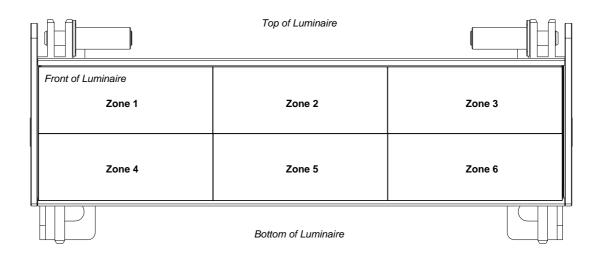


Table 14: DMX Channel Mapping (16-bit Control Mode)

| 4 | Control Channel | 0 - 255 | 0 - 100% | 0 | Control channel operation. Set control channel value to desired action, hold value for at least 5 seconds, then turn to 0. Set control channel value to 0 without any scaling. Default Setting on Console = DMX 0-4 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 Fan_Auto = DMX 80 - 84 Fan_Off = DMX 85 - 89 Not Used = DMX 105 - 250 (Reserved for future use) |
|---|-----------------|---------|----------|---|---|
| 5 | Strobe Duration | 0 - 255 | 0 - 100% | 0 | Controls strobe duration operation. Refer to "Strobe Duration DMX Timing Detail" on page 30. |
| 6 | Strobe Rate | 0 - 255 | 0 - 100% | 0 | Controls strobe rate operation. Refer to "Strobe Rate DMX Timing Detail" on page 29. |

5. Zone Mapping Mode

Table 15 on page 27 provides DMX channel mapping of all DMX512 control values when the SL NITRO 510 LED STROBE Luminaire is in Zone Mapping DMX512 mode (as set by the luminaire's menu system). **Figure 16** indicates each Zone in relationship to the front of the luminaire.



Note, this is a graphical representation for Zone identification purposes only.

Figure 16: SL NITRO 510 LED STROBE Luminaire Zones

Note: For DMX Channel Mapping (Zone Mapping Mode), refer to Table 15 on page 27.

Showline

Table 15: DMX Channel Mapping (Zone Mapping Mode)

| DMX Channel | Parameter | ameter Range DMX Range% | | Default - recom- mended console default values | Description | | |
|----------------|--|-------------------------|----------|--|--|--|--|
| 1 2 | Intensity - High Byte Intensity - Low Byte | 0 - 65535 | 0 - 100% | 0 | 16-bit control for the intensity of the LED settings - 0 to 65535 (full) | | |
| | intensity Low Byte | | | | Controls strobe operation as follows: | | |
| 3 | Strobe Effects | 0 - 255 | 0 - 100% | 0 | No Effect = DMX 0 - 5 (default) Ramp Up = DMX 6 - 42 Ramp Down = DMX 43 - 85 Ramp up/down = DMX 86 - 128 Random = DMX 129 - 171 Top row only = DMX 172 - 173 Bottom row only = DMX 176 - 178 Center zone only = DMX 176 - 178 Center zone only = DMX 181 - 182 Checker pattern A = DMX 183 - 184 Checker pattern B = DMX 185 - 186 Random zones = DMX 187 - 214 Circle zone chase CW = DMX 236 - 255 | | |
| 4 | Control Channel | 0 - 255 | 0 - 100% | 0 | Control channel operation. Set control channel value to desired action, hold value for at least 5 seconds, then turn to 0. Set control channel value to 0 without any scaling. Default Setting on Console = DMX 0-4 Dimming Curve_linear = DMX 30 - 34 Dimming Curve_Square = DMX 35- 39 Dimming Curve_Square = DMX 40 - 44 Dimming Curve_PL-Curve = DMX 45 - 49 Fan_Auto = DMX 80 - 84 Fan_Off = DMX 85 - 89 The following is only for "Zones Mapping" protocol. The following is instantly active and does not require the 5 second hold: Combined zone control-(all zones follow zone 1 setting) = DMX 100 - 104 Not Used = DMX 105 - 250 (Reserved for future use) | | |
| 5 | Zone 1 Intensity | 0 - 255 | 0 - 100% | 0 | 8-bit control of Zone 1 intensity 0 to 255 (full) | | |
| 6 | Zone 1 Strobe Duration | 0 - 255 | 0 - 100% | 0 | Controls strobe duration for Zone 1. Refer to "Strobe Duration DMX Timing Detail" on page 30. | | |
| 7 | Zone 1 Strobe Rate | 0 - 255 | 0 - 100% | 0 | Controls strobe rate for Zone 1. Refer to "Strobe Rate DMX Timing Detail" on page 29. | | |
| 8 | Zone 2 Intensity | 0 - 255 | 0 - 100% | 0 | 8-bit control of Zone 2 intensity 0 to 255 (full) | | |
| 9 | Zone 2 Strobe Duration | 0 - 255 | 0 - 100% | 0 | Controls strobe duration for Zone 2. Refer to "Strobe Duration DMX Timing Detail" on page 30. | | |
| 10 | Zone 2 Strobe Rate | 0 - 255 | 0 - 100% | 0 | Controls strobe rate for Zone 2. Refer to "Strobe Rate DMX Timing Detail" on page 29. | | |
| 11 | Zone 3 Intensity | 0 - 255 | 0 - 100% | 0 | 8-bit control of Zone 3 intensity 0 to 255 (full) | | |
| 12 | Zone 3 Strobe Duration 0 - 255 0 - 100% | | 0 | Controls strobe duration for Zone 3. Refer to "Strobe Duration DMX Timing Detail" on page 30 | | | |
| 13 | Zone 3 Strobe Rate | 0 - 255 | 0 - 100% | 0 | Controls strobe rate for Zone 3. Refer to "Strobe Rate DMX Timing Detail" on page 29. | | |



Table 15: DMX Channel Mapping (Zone Mapping Mode)

| 14 | Zone 4 Intensity | 0 - 255 | 0 - 100% | 0 | 8-bit control of Zone 4 intensity 0 to 255 (full) |
|----|------------------------|---------|----------|---|--|
| 15 | Zone 4 Strobe Duration | 0 - 255 | 0 - 100% | 0 | Controls strobe duration for Zone 4. Refer to "Strobe Duration DMX Timing Detail" on page 30 |
| 16 | Zone 4 Strobe Rate | 0 - 255 | 0 - 100% | 0 | Controls strobe rate for Zone 4. Refer to "Strobe Rate DMX Timing Detail" on page 29. |
| 17 | Zone 5 Intensity | 0 - 255 | 0 - 100% | 0 | 8-bit control of Zone 5 intensity 0 to 255 (full) |
| 18 | Zone 5 Strobe Duration | 0 - 255 | 0 - 100% | 0 | Controls strobe duration for Zone 5. Refer to "Strobe Duration DMX Timing Detail" on page 30 |
| 19 | Zone 5 Strobe Rate | 0 - 255 | 0 - 100% | 0 | Controls strobe rate for Zone 5. Refer to "Strobe Rate DMX Timing Detail" on page 29. |
| 20 | Zone 6 Intensity | 0 - 255 | 0 - 100% | 0 | 8-bit control of Zone 6 intensity 0 to 255 (full) |
| 21 | Zone 6 Strobe Duration | 0 - 255 | 0 - 100% | 0 | Controls strobe duration for Zone 6. Refer to "Strobe Duration DMX Timing Detail" on page 30 |
| 22 | Zone 6 Strobe Rate | 0 - 255 | 0 - 100% | 0 | Controls strobe rate for Zone 6. Refer to "Strobe Rate DMX Timing Detail" on page 29. |

6. Strobe Rate DMX Timing Detail

The chart below describes the Strobe Rate DMX parameters of the SL NITRO 510 LED STROBE Luminaire.

| DMX Value | Percent (%) | Frequency (Hz) | DMX Value | Percent (%) | Frequency (Hz) | DMX Value | Percent (%) | Frequency (Hz) | DMX Value | Percent (%) | Frequency (Hz) | DMX Value | Percent (%) | Frequency (Hz) |
|-----------|-------------|---------------------|-----------|--------------|----------------|-----------|-------------|----------------|-----------|-------------|----------------|-----------|-------------------|-----------------------|
| 0 | 0 | | 60 | | 0.635 | 120 | 47 | 0.910 | 168 | 66 | 1.386 | 228 | | 4.065 |
| 1 | | DMX 0-5 - No | 61 | 24 | 0.635 | 121 | | 0.910 | 169 | | 1.418 | 229 | | 4.065 |
| 2 | | Flash (single f ash | 62 | | 0.642 | 122 | 48 | 0.924 | 170 | | 1.418 | 230 | 90 | 4.355 |
| 3 | 1 | with value>5 on | 63 | | 0.642 | 123 | | 0.924 | 171 | 67 | 1.452 | 231 | | 4.355 |
| 4 | _ | intensity one t me) | 64 | 25 | 0.649 | 124 | | 0.938 | 172 | | 1.452 | 232 | 91 | 4.690 |
| 5 | 2 | 1 1 | 65 | | 0.649 | 125 | 49 | 0.938 | 173 | 68 | 1.452 | 233 | | 4.690 |
| 6 | _ | 0.500 | 66 | 26 | 0.656 | 126 | | 0.953 | 174 | | 1.487 | 234 | | 5.081 |
| 7 | | 0.500 | 67 | 20 | 0.656 | 127 | | 0.953 | 175 | | 1.487 | 235 | 92 | 5.081 |
| 8 | 3 | 0.504 | 68 | | 0.663 | 128 | 50 | 0.968 | 176 | 69 | 1.524 | 236 | | 5.543 |
| 9 | , | 0.504 | 69 | 27 | 0.663 | 129 | 30 | 0.968 | 177 | - 03 | 1.524 | 237 | 93 | 5.543 |
| | | 0.508 | | - 2/ | 0.670 | | | 0.983 | 178 | | 1.563 | | 93 | 6.098 |
| 10 | 4 | | 70 | | | 130 | 51 | | | | | 238 | | |
| 11 | | 0.508 | 71 | 28 | 0.670 | 131 | | 0.983 | 179 | 70 | 1.563 | 239 | | 6.098 |
| 12 | | 0.512 | 72 | | 0.678 | 132 | | 1.000 | 180 | | 1.605 | 240 | 94 | 6.775 |
| 13 | 5 | 0.512 | 73 | | 0.678 | 133 | 52 | 1.000 | 181 | 71 | 1.605 | 241 | | 6.775 |
| 14 | | 0.517 | 74 | 29 | 0.685 | 134 | | 1.016 | 182 | | 1.648 | 242 | 95 | 7.622 |
| 15 | 6 | 0.517 | 75 | | 0.685 | 135 | 53 | 1.016 | 183 | | 1.648 | 243 | | 7.622 |
| 16 | | 0.521 | 76 | 30 | 0.693 | 136 | | 1.033 | 184 | 72 | 1.694 | 244 | | 8.711 |
| 17 | | 0.521 | 77 | | 0.693 | 137 | | 1.033 | 185 | | 1.694 | 245 | 96 | 8.711 |
| 18 | 7 | 0.526 | 78 | | 0.701 | 138 | 54 | 1.051 | 186 | 73 | 1.742 | 246 | | 10.163 |
| 19 | | 0.526 | 79 | 31 | 0.701 | 139 | | 1.051 | 187 | | 1.742 | 247 | 97 | 10.163 |
| 20 | 8 | 0.530 | 80 | | 0.709 | 140 | 55 | 1.070 | 188 | | 1.793 | 248 | | 12.195 |
| 21 | | 0.530 | 81 | | 0.709 | 141 | | 1.070 | 189 | 74 | 1.793 | 249 | | 12.195 |
| 22 | | 0.535 | 82 | 32 | 0.717 | 142 | | 1.089 | 190 | | 1.848 | 250 | 98 | 15.244 |
| 23 | 9 | 0.535 | 83 | | 0.717 | 143 | 56 | 1.089 | 191 | 75 | 1.848 | 251 | | 15.244 |
| 24 | | 0.540 | 84 | 33 | 0.726 | 144 | | 1.089 | 192 | | 1.905 | 252 | 99 | 20.325 |
| 25 | 10 | 0.540 | 85 | | 0.726 | 145 | 57 | 1.109 | 193 | | 1.905 | 253 | | 20.325 |
| 26 | | 0.544 | 86 | | 0.735 | 146 | | 1.109 | 194 | 76 | 1.967 | 254 | | 30.488 |
| 27 | | 0.544 | 87 | 34 | 0.735 | 147 | | 1.129 | 195 | | 1.967 | 255 | 100 | 30.488 |
| 28 | 11 | 0.549 | 88 | | 0.735 | 148 | 58 | 1.129 | 196 | 77 | 2.033 | | | |
| 29 | | 0.549 | 89 | 35 | 0.744 | 149 | | 1.150 | 197 | <u> </u> | 2.033 | | | |
| 30 | | 0.554 | 90 | | 0.744 | 150 | 59 | 1.150 | 198 | | 2.103 | | Mode (when strobe | e durai on is also at |
| 31 | 12 | 0.554 | 91 | _ | 0.753 | 151 | | 1.173 | 199 | 78 | 2.103 | 255) | | |
| 32 | 12 | 0.554 | 92 | 36 | 0.753 | 152 | | 1.173 | 200 | , ° | 2.103 | | | |
| 33 | 13 | 0.559 | 93 | - 20 | 0.762 | 153 | 60 | 1.196 | 201 | 79 | 2.178 | | | |
| 34 | 15 | 0.559 | 94 | 37 | 0.762 | 154 | - 60 | 1.196 | 202 | /3 | 2.178 | | | |
| 35 | | 0.565 | 95 | 3/ | 0.772 | 155 | | 1.220 | 202 | | 2.258 | | | |
| | | | | | | | | | | | | | | |
| 36 | 14 | 0.565 | 96 | | 0.772 | 156 | 61 | 1.220 | 204 | 80 | 2.258 | | | |
| 37 | | 0.570 | 97 | 38 | 0.782 | 157 | | 1.244 | 205 | | 2.345 | | | |
| 38 | 15 | 0.570 | 98 | | 0.782 | 158 | 62 | 1.244 | 206 | 81 | 2.345 | | | |
| 39 | | 0.575 | 99 | 39 | 0.792 | 159 | | 1.270 | 207 | | 2.439 | | | |
| 40 | | 0.575 | 100 | | 0.792 | 160 | | 1.270 | 208 | | 2.439 | | | |
| 41 | 16 | 0.581 | 101 | | 0.802 | 161 | 63 | 1.297 | 209 | 82 | 2.541 | | | |
| 42 | | 0.581 | 102 | 40 | 0.802 | 162 | | 1.297 | 210 | | 2.541 | | | |
| 43 | 17 | 0.586 | 103 | | 0.813 | 163 | 64 | 1.326 | 211 | | 2.651 | | | |
| 44 | | 0.586 | 104 | | 0.813 | 164 | | 1.326 | 212 | 83 | 2.651 | | | |
| 45 | | 0.592 | 105 | 41 | 0.824 | 165 | | 1.355 | 213 | | 2.772 | | | |
| 46 | 18 | 0.592 | 106 | | 0.824 | 166 | 65 | 1.355 | 214 | 84 | 2.772 | | | |
| 47 | | 0.598 | 107 | 42 | 0.835 | 167 | | 1.386 | 215 | | 2.904 | | | |
| 48 | 19 | 0.598 | 108 | | 0.835 | 168 | 66 | 1.386 | 216 | | 2.904 | | | |
| 49 | | 0.604 | 109 | | 0.847 | 169 | | 1.418 | 217 | 85 | 3.049 | | | |
| 50 | | 0.604 | 110 | 43 | 0.847 | 170 | | 1.418 | 218 | | 3,049 | | | |
| 51 | 20 | 0.610 | 111 | | 0.859 | 171 | 67 | 1.452 | 219 | 86 | 3.209 | | | |
| 52 | | 0.610 | 112 | 44 | 0.859 | 172 | | 1.452 | 220 | | 3.209 | | | |
| 53 | | 0.616 | 113 | | 0.871 | 173 | 68 | 1.452 | 221 | | 3.388 | | | |
| 54 | 21 | 0.616 | 114 | | 0.871 | 174 | - 00 | 1.487 | 222 | 87 | 3.388 | | | |
| 55 | | 0.622 | 115 | 45 | 0.884 | 175 | | 1.487 | 223 | 9/ | 3.587 | | | |
| 56 | 22 | 0.622 | 116 | 45 | 0.884 | 176 | 69 | 1.524 | 224 | 88 | 3.587 | | | |
| 57 | - 44 | 0.629 | 117 | 46 | 0.884 | 177 | - 07 | 1.524 | 225 | - 00 | 3.811 | | | |
| | | 0.629 | 118 | +0 | 0.897 | 177 | | | | | 3.811 | | | |
| 58 | | | | | | | — | 1.563 | 226 | | | | | |
| 59 | 23 | 0.635 | 119 | | 0.897 | 179 | 70 | 1.563 | 227 | 89 | 4.065 | | | |

Note: Continuous ON Mode illuminates all LEDs without strobing. This feature is activated when Strobe Rate and Strobe Duration are both set to DMX value 255.



7. Strobe Duration DMX Timing Detail

The chart below describes the Strobe Duration DMX parameters of the SL NITRO 510 LED STROBE Luminaire.

| DMX Value | Percent (%) | Time (ms) | DMX Value | Percent (%) | Time (ms) | DMX Value | Percent (%) | Time (ms) | DMX Value | Percent (%) | Time (ms) |
|-----------|-------------|--------------|------------|-------------|--------------|------------|---------------------------------------|--------------|------------|-------------|--------------|
| 0 | 0 | 0 | 60 | | 1968 | 120 | 47 | 3936 | 180 | | 5904 |
| 1 | | 33 | 61 | 24 | 2001 | 121 | | 3969 | 181 | 71 | 5937 |
| 2 | | 66 | 62 | | 2034 | 122 | 48 | 4002 | 182 | | 5970 |
| 3 | 1 | 98 | 63 | | 2066 | 123 | | 4034 | 183 | | 6002 |
| 4 | | 131 | 64 | 25 | 2099 | 124 | | 4067 | 184 | 72 | 6035 |
| 5 | 2 | 164 | 65 | | 2132 | 125 | 49 | 4100 | 185 | | 6068 |
| 6 | | 197 | 66 | 26 | 2165 | 126 | | 4133 | 186 | 73 | 6101 |
| 7 | | 230 | 67 | | 2198 | 127 | | 4166 | 187 | | 6134 |
| 8 | 3 | 262 | 68 | | 2230 | 128 | 50 | 4198 | 188 | | 6166 |
| 9 | | 295 | 69 | 27 | 2263 | 129 | | 4231 | 189 | 74 | 6199 |
| 10 | 4 | 328 | 70 | | 2296 | 130 | 51 | 4264 | 190 | | 6232 |
| 11 | | 361 | 71 | 28 | 2329 | 131 | | 4297 | 191 | 75 | 6265 |
| 12 | | 394 | 72 | | 2362 | 132 | | 4330 | 192 | | 6298 |
| 13 | 5 | 426 | 73 | | 2394 | 133 | 52 | 4362 | 193 | | 6330 |
| 14 | | 459 | 74 | 29 | 2427 | 134 | | 4395 | 194 | 76 | 6363 |
| 15 | 6 | 492 | 75 | | 2460 | 135 | 53 | 4428 | 195 | | 6396 |
| 16 | | 525 | 76 | 30 | 2493 | 136 | | 4461 | 196 | 77 | 6429 |
| 17 | | 558 | 77 | | 2526 | 137 | | 4494 | 197 | | 6462 |
| 18 | 7 | 590 | 78 | | 2558 | 138 | 54 | 4526 | 198 | 70 | 6494 |
| 19 | | 623 | 79 | 31 | 2591 | 139 | | 4559 | 199 | 78 | 6527 |
| 20 | 8 | 656 689 | 80 81 | | 2624 2657 | 140 141 | 55 | 4592 4625 | 200 | 79 | 6560 6593 |
| 21 | | 722 | 81 | 32 | 2690 | 141 | | 4625 4658 | 201 | 79 | 6626 |
| 23 | 9 | 754 | 83 | 32 | 2722 | 143 | 56 | 4690 | 202 | | |
| 24 | 9 | 787 | 84 | 33 | 2755 | 143 | 36 | 4723 | 203 | 80 | 6658 6691 |
| 25 | 10 | 820 | 85 | 33 | 2788 | 145 | 57 | 4723 | 205 | 80 | 6724 |
| 26 | 10 | 853 | 86 | | 2821 | 146 | 3/ | 4789 | 206 | 81 | 6757 |
| 27 | | 886 | 87 | 34 | 2854 | 147 | | 4822 | 207 | 01 | 6790 |
| 28 | 11 | 918 | 88 | - 54 | 2886 | 148 | 58 | 4854 | 208 | | 6822 |
| 29 | | 951 | 89 | 35 | 2919 | 149 | - 00 | 4887 | 209 | 82 | 6855 |
| 30 | | 984 | 90 | - 00 | 2952 | 150 | 59 | 4920 | 210 | Ü. | 6888 |
| 31 | 12 | 1017 | 91 | | 2985 | 151 | | 4953 | 211 | | 6921 |
| 32 | | 1050 | 92 | 36 | 3018 | 152 | | 4986 | 212 | 83 | 6954 |
| 33 | 13 | 1082 | 93 | | 3050 | 153 | 60 | 5018 | 213 | | 6986 |
| 34 | | 1115 | 94 | 37 | 3083 | 154 | | 5051 | 214 | 84 | 7019 |
| 35 | | 1148 | 95 | | 3116 | 155 | | 5084 | 215 | | 7052 |
| 36 | 14 | 1181 | 96 | | 3149 | 156 | 61 | 5117 | 216 | | 7085 |
| 37 | | 1214 | 97 | 38 | 3182 | 157 | | 5150 | 217 | 85 | 7118 |
| 38 | 15 | 1246 | 98 | | 3214 | 158 | 62 | 5182 | 218 | | 7150 |
| 39 | | 1279 | 99 | 39 | 3247 | 159 | | 5215 | 219 | 86 | 7183 |
| 40 | | 1312 | 100 | | 3280 | 160 | | 5248 | 220 | | 7216 |
| 41 | 16 | 1345 | 101 | | 3313 | 161 | 63 | 5281 | 221 | | 7249 |
| 42 | L | 1378 | 102 | 40 | 3346 | 162 | | 5314 | 222 | 87 | 7282 |
| 43 | 17 | 1410 | 103 | | 3378 | 163 | 64 | 5346 | 223 | 00 | 7314 |
| 44 | | 1443 1476 | 104 | 44 | 3411 3444 | 164 | | 5379 5412 | 224 | 88 | 7347 7380 |
| 45 46 | 40 | 1509 | 105 | 41 | 3444 | 165 166 | 65 | 5412 | 225 226 | — | 7380 |
| 46 | 18 | 1542 | 106 107 | 42 | 3510 | 167 | 65 | 5478 | 226 | 89 | 7413 |
| 48 | 19 | 1574 | 107 | 44 | 3542 | 168 | 66 | 5510 | 228 | 08 | 7478 |
| 49 | 15 | 1607 | 109 | | 3575 | 169 | 00 | 5543 | 229 | | 7511 |
| 50 | | 1640 | 110 | 43 | 3608 | 170 | | 5576 | 230 | 90 | 7544 |
| 51 | 20 | 1673 | 111 | 70 | 3641 | 171 | 67 | 5609 | 231 | 30 | 7577 |
| 52 | 20 | 1706 | 112 | 44 | 3674 | 172 | , , , , , , , , , , , , , , , , , , , | 5642 | 232 | 91 | 7610 |
| 53 | | 1738 | 113 | | 3706 | 173 | 68 | 5674 | 233 | | 7642 |
| 54 | 21 | 1771 | 114 | | 3739 | 174 | | 5707 | 234 | | 7675 |
| 55 | | 1804 | 115 | 45 | 3772 | 175 | | 5740 | 235 | 92 | 7708 |
| 56 | 22 | 1837 | 116 | | 3805 | 176 | 69 | 5773 | 236 | | 7741 |
| 57 | | 1870 | 117 | 46 | 3838 | 177 | | 5806 | 237 | 93 | 7774 |
| 58 | | 1902 | 118 | | 3870 | 178 | | 5838 | 238 | | 7806 |
| 59 | 23 | 1935 | 119 | | 3903 | 179 | 70 | 5871 | 239 | | 7839 |
| | | | | | | | | | | | |

| DMX Value | Percent (%) | Time (ms) |
|-----------|-------------|-----------|
| 240 | 94 | 7872 |
| 241 | | 7905 |
| 242 | 95 | 7938 |
| 243 | | 7970 |
| 244 | | 8003 |
| 245 | 96 | 8036 |
| 246 | | 8069 |
| 247 | 97 | 8102 |
| 248 | | 8134 |
| 249 | | 8167 |
| 250 | 98 | 8200 |
| 251 | | 8233 |
| 252 | 99 | 8266 |
| 253 | | 8298 |
| 254 | | 8331 |
| 255 | 100 | 8364 |

NOTE: Cont nuous Mode (when strobe rate is also at 255)

Note: Continuous ON Mode illuminates all LEDs without strobing. This feature is activated when Strobe Rate and Strobe Duration are both set to DMX value 255.

8. SL NITRO 510 LED STROBE Luminaire RDM Parameter IDs

The following tables outline and describe all the RDM parameters IDs associated with SL NITRO 510 LED STROBE Luminaires.

- Table 16, "SL NITRO 510 LED STROBE Luminaire RDM Product Parameters IDs"
- Table 17, "SL NITRO 510 LED STROBE Luminaire RDM UID"
- Table 18, "SL NITRO 510 LED STROBE Luminaire RDM Parameters IDs"
- Table 19, "SL NITRO 510 LED STROBE Luminaire RDM Manufacturer Status IDs," on page 33
- Table 20, "SL NITRO 510 LED STROBE Luminaire RDM Manufacturer Specific PIDs for Root Device," on page 33

Table 16: SL NITRO 510 LED STROBE Luminaire RDM Product Parameters IDs

| Model ID Manufacturer | | Model Description | Product Category | |
|-----------------------|----------------------------------|-------------------|------------------|--|
| 0x1180 | Philips Entertain. Lighting Asia | SL NITRO 510 | 0x0509 | |

Table 17: SL NITRO 510 LED STROBE Luminaire RDM UID

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

Table 18: SL NITRO 510 LED STROBE Luminaire RDM Parameters IDs

| Get Allowed | Set Allowed | RDM Parameter IDs | Implemented | | |
|------------------------|--------------------|------------------------------------|--|---|--|
| | | Category - Network N | lanagement | | |
| | 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 | | |
| | | QUEUED_MESSAGE 0x0020 | | | |
| | | STATUS_MESSAGES 0x0030 | | | |
| | | STATUS_ID_DESCRIPTION | RIPTION 0x0031 | | |
| | | CLEAR_STATUS_ID | 0x0032 | | |
| | | SUB_DEVICE_STATUS_REPORT_THRESHOLD | 0x0033 | | |
| | • | Category - RDM Int | formation | | |
| ■ SUPPORTED_PARAMETERS | | SUPPORTED_PARAMETERS | 0x0050 | Support required only if supporting Parameters beyond the minimum required set. | |
| | | PARAMETER_DESCRIPTION | Support required for Manufacturer-Specific PIDs exposed in SUPPORTED_PARAMETERS message. | | |
| | | Category - Product I | nformation | | |
| | | DEVICE_INFO | 0x0060 | | |



Table 18: SL NITRO 510 LED STROBE Luminaire RDM Parameters IDs

| Get Allowed | RDM Parameter IDs | | | Comment | Implemented |
|----------------|-------------------|--------------------------------------|-----------------|---------------------------------------|-------------|
| | | PRODUCT_DETAIL_ID_LIST | 0x0070 | | |
| | | DEVICE_MODEL_DESCRIPTION | 0x0080 | | |
| | | MANUFACTURER_LABEL | 0x0081 | | |
| | | DEVICE_LABEL | 0x0082 | | |
| | | FACTORY_DEFAULTS | 0x0090 | | |
| | | LANGUAGE_CAPABILITIES | 0x00A0 | | |
| | | LANGUAGE | LANGUAGE 0x00B0 | | |
| | | SOFTWARE_VERSION_LABEL | 0x00C0 | | |
| | | BOOT_SOFTWARE_VERSION_ID | 0x00C1 | | |
| | | BOOT_SOFTWARE_VERSION_LABEL | 0x00C2 | | |
| | | Category - DMX5 | 12 Setup | | I |
| | | 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 | | |
| | 1 | Category - Senso | rs 0x02xx | T | 1 |
| | | SENSOR_DEFINITION | 0x0200 | | |
| | | SENSOR_VALUE | 0x0201 | | |
| | | RECORD_SENSORS | 0x0202 | | |
| | | Category - Dimmer Settings 0 | | | |
| | | Category - Power / Lamp DEVICE_HOURS | 0x0400 | | |
| | _ | LAMP_HOURS | 0x0401 | | |
| | _ | LAMP_STRIKES | 0x0402 | | |
| | _ | LAMP_STATE | 0x0403 | | |
| | - | LAMP_ON_MODE | 0x0404 | | |
| | _ | DEVICE_POWER_CYCLES | 0x0405 | | |
| | _ | Category - Display Se | 1 | | |
| | | DISPLAY_INVERT | 0x0500 | | |
| | | DISPLAY_LEVEL | 0x0501 | | |
| | | Category - Configura | | | |
| | | PAN_INVERT | 0x0600 | | |
| | | TILT_INVERT | 0x0601 | | |
| | | PAN_TILT_SWAP | 0x0602 | | |
| | | REAL_TIME_CLOCK | 0x0603 | | |
| | | Category - Contro | ol 0x10xx | | |
| | | IDENTIFY_DEVICE | 0x1000 | | |
| | | RESET_DEVICE | 0x1001 | | |
| | | POWER_STATE | 0x1010 | | |
| | | PERFORM_SELFTEST | 0x1020 | | |



Table 18: SL NITRO 510 LED STROBE Luminaire RDM Parameters IDs

| Get Allowed | Set Allowed | RDM Parameter IDs | Value | Comment | Implemented |
|----------------|----------------|-----------------------|--------|---------|-------------|
| | | SELF_TEST_DESCRIPTION | 0x1021 | | |
| | | CAPTURE_PRESET | 0x1030 | | |
| | | PRESET_PLAYBACK | 0x1031 | | |

Table 19: SL NITRO 510 LED STROBE 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 NITRO 510 LED STROBE Luminaire RDM Manufacturer Specific PIDs for Root Device

| Get Allowed | Set Allowed | RDM Parameter IDs | Туре | Length | Unit | Prefix | Min | Max | Default | Description |
|---|----------------|----------------------|------|--------|------|--------|-----|-----|---------|----------------------|
| Category - Manufacturer Defined PIDs - Range is 0x8000-0xffdf (See ANSI E1.20-2010 Standard, Table A-3) | | | | | | | | | | |
| | | 8A00H | U8 | 1 | None | None | 0 | 100 | 100 | Dimmer |
| | | 8AB2H | U8 | 1 | None | None | 1 | 18 | 1 | Chase |
| | | 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 |
| | | 8A40H | U8 | 1 | None | None | 0 | 1 | 0 | Link Mode |
| | | 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 |
| | | 8A41H | U8 | 1 | None | None | 0 | 1 | 0 | Lock Fixture |
| | | 8A97H | U8 | 1 | None | None | 0 | 1 | 0 | Fan Auto / Off Setup |
| | | 8A98H | U8 | 1 | None | None | 0 | 255 | 0 | Effect |



CLEANING AND CARE



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.

1. Special Cleaning and Care Instructions

Being a solid-state fixture, and unlike most fixtures, the SL NITRO 510 LED STROBE Luminaire requires very little routine maintenance by the user. This section covers portions of the luminaire that can be removed for cleaning.

The SL NITRO 510 LED STROBE 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 NITRO 510 LED STROBE 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 NITRO 510 LED STROBE Luminaire plastic optics with anti-reflection coatings.

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.



WARNING! Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the SL NITRO 510 LED STROBE Luminaire. These types of cleaners or solvents can permanently damage the optics or housings of the fixture.

If you have any questions regarding the use or care of your SL NITRO 510 LED STROBE Luminaire, please contact Showline technical support or your local Authorized Dealer.

2. Front Lens Cleaning

To clean the front lens:

- Step 1. Disconnect luminaire from power 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.



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.



TECHNICAL SPECIFICATIONS

1. SL NITRO 510 LED STROBE Luminaire Operational Specifications

Source: High Intensity White LED Array (x1350)

Beam Angle: 120 Degrees
Light Output: > 68,000 lumens

Color Temperature: 6500K

Input Voltage (AC): 100V to 240V (+/- 10%, auto-ranging)
Current (AC): 3.6 Amps (100V) / 1.50 Amps (240V)

Frequency: 50/60Hz

Control Protocols: DMX512 (1990) / DMX512A (RDM) / On-Board Menu

Ambient Temperature: -20 to 40 Degrees C (-4 to 104 Degrees F)

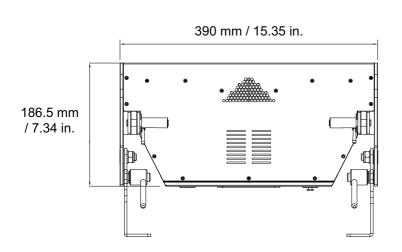
Humidity: 5%-95% Non condensing Cooling: Forced Air Cooling

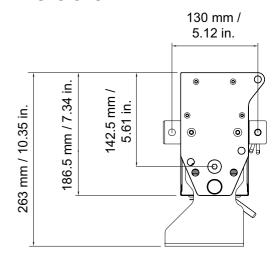
Weight: 15.4 lbs (7 kg) - Luminaire only (no accessories)
Housing: Die Cast Aluminium with Powder Coating

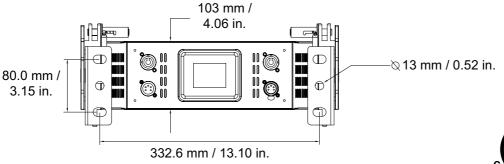
Compliance: cETLus marked (North American models) and CE Marked (International models)

IP Rating: IP20

2. SL NITRO 510 LED STROBE Luminaire Dimensions











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