



VARI\***LITE**

# VL6500 WASH

QUICK START GUIDE

# INTRODUCTION

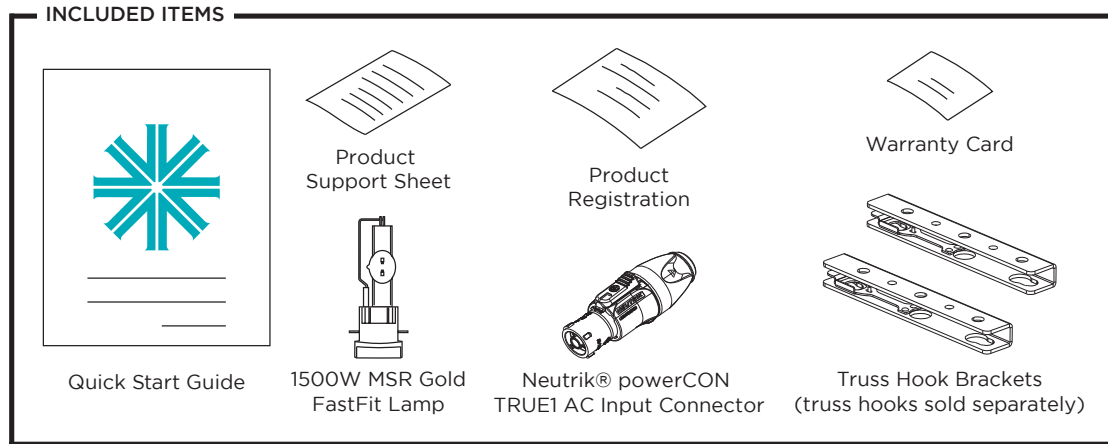
## ABOUT THIS MANUAL

This manual provides necessary information regarding safety, installation, operation and routine maintenance for the VL6500 WASH. Familiarizing yourself with this information will help you to get the most out of your product.

**WARNING:** It is important to read ALL accompanying safety and installation instructions to avoid damage to the product and potential injury to yourself or others.

This manual covers the following model(s):

- VL6500 WASH, 22.9708.4001



## NOTES

- For complete product description, features, and specifications, refer to the product datasheet
- For power requirements, refer to “Current vs. Voltage” on page 16.

## ADDITIONAL RESOURCES

For additional resources and documentation, please visit our website at [www.vari-lite.com](http://www.vari-lite.com) and follow the Support link.

# COMPONENTS

## REPLACEMENT ITEMS / ACCESSORIES

The following optional and/or replacement items can be ordered directly from your Authorized Vari-Lite Dealer. When ordering, please order by the Vari-Lite part number.

VARI-LITE PART NO.	ACCESSORY
PCT1BE	AC Input Cable, Neutrik® powerCON® True1 with Bare End (no connector), 1 Meter
PC1GTL208	AC Input Cable, Neutrik® powerCON® True1 with Twist Lock (Male), 250V, 1 Meter
PCT1GP	AC Input Cable, Neutrik® powerCON® True1 with Stage Pin (Male), 1 Meter
PEGASUS	Luminaire Programming Software
22.9620.0194	Safety Cable Assembly
25.9661.0057	DMX Termination Connector Assembly
55.6840.0001	Truss Hook, Mega-Clamp, Round and Square
55.6841.0001	Truss Hook, Mega-Claw for 2" Round Tube
71.9708.1500	1500W Philips MSR Gold Fast-Fit*

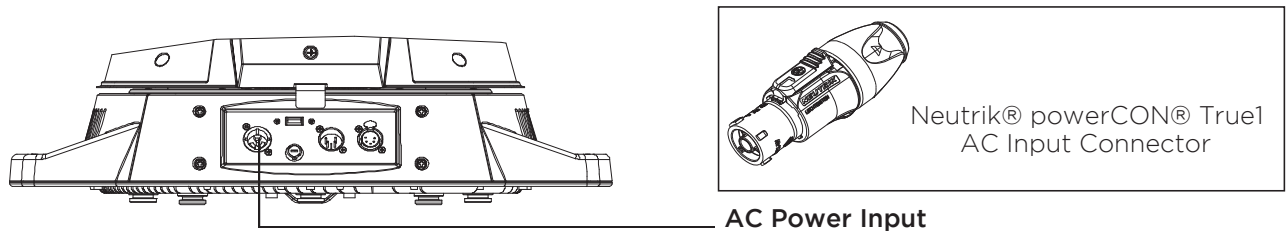
\*For approved lamp types, see the latest version of Vari-Lite technical notice TN-248 in the product downloads section on the Vari-Lite web site, [www.vari-lite.com](http://www.vari-lite.com).

# POWER AND DATA

## POWER

The luminaire requires standard AC power distribution from 200-240 VAC, 50/60 Hz. Current required depends on the AC supply voltage and product model. Refer to “Current vs. Voltage” on page 16 for all models covered in this manual.

**NOTE:** The mating Neutrik® powerCON® True1 connector is supplied, however, you will need to purchase or construct a cable appropriate for your application. Available power input cables is found in “Replacement Items/ Accessories” on page 9.



**FIGURE 1. POWER CONNECTOR**

Depending on the application, the luminaire’s AC input cable may require a different connector. If required, install a new connector meeting your requirements using the following wire color code reference:

WIRE*	CONNECTION
green / yellow	AC ground
blue	AC neutral
brown	AC line

\* International (Harmonized) Standard

**WARNING:** DO NOT connect to three-phase service in countries with 240 volt power.

For single-phase power at 208-240 V RMS:

CONNECTION	PIN
AC neutral	X
AC line	Y
Ground (earth)	G



For three-phase power at 208 V RMS:

CONNECTION	PIN
Phase 1	X
Phase 2	Y
Ground (earth)	G



**WARNING:** It is not recommended to power any Vari-Lite luminaire from a dimmer - even in ‘NONDIM’ mode. Dimmer and non-dim modules are not suitable sources of power because their output modifies the AC wave form. This may work for a short time, but will eventually result in power problems, luminaire mis-operation and/or failure and may void the luminaire’s warranty.

## CURRENT VS. VOLTAGE

**TABLE 1** provides the luminaire’s current draw at specific voltages. Total Luminaire Current is calculated with the lamp on and all motors sequencing.

**WARNING:** It is the responsibility of the user to adequately protect supply source with a correct size and type circuit breaker and not overload circuits. **AVERTISSEMENT:** Il est de la responsabilité de l'utilisateur de protéger adéquatement la source d'alimentation avec une taille correcte et le disjoncteur de type et surchargez pas les circuits.\*

**TABLE 1. CURRENT VS. VOLTAGE (1500W LAMP\*)**

AC VOLTAGE @60HZ	TOTAL LUMINAIRE CURRENT (MOTOR + LAMP CURRENT)
200V	10.5A
210V	10.1A
220V	9.7A
230V	9.3A
240V	8.9A

**NOTE:** \*1500W Philips MSR Gold FastFit lamp (rated for 1200-1600W operation) running at 1500W.

**WARNING:** It is not recommended to power any Vari-Lite luminaire from a dimmer - even in 'NONDIM' mode. Dimmer and non-dim modules are not suitable sources of power because their output modifies the AC wave form. This may work for a short time, but will eventually result in power problems, luminaire mis-operation and/or failure and may void the luminaire's warranty.

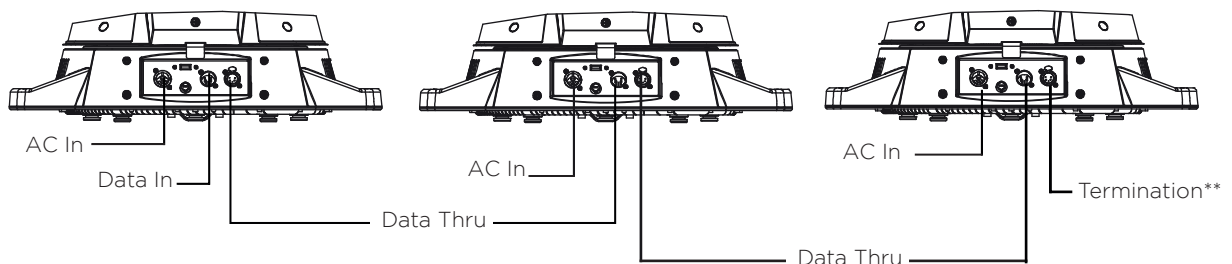
## CONNECTING DATA AND POWER

A maximum of 32 luminaires may be connected in any one DMX data link.

**NOTE:** This maximum limit applies to the luminaire "daisy chain" only. Your system or console may require fewer luminaires on a single data link path. Consult your console documentation for more information.

### To connect power and data:

- Step 1. Connect data cable from console to first luminaire in chain at DATA IN connector.
- Step 2. If required, connect additional data cables from DATA THRU connectors to DATA IN connectors of remaining luminaires in link.
- Step 3. At last luminaire in link, install male termination connector at DATA THRU connector. (Luminaires and other devices on the same DMX chain may not function properly without termination.)



\*\*DMX terminator required for last fixture on DMX line.

### CHANNEL REQUIREMENTS

DMX512 CHANNELS	DESCRIPTION	MENU DISPLAY
23 Channels	16-Bit Mode (default)	16

**FIGURE 2. DATA LINK**

- Step 4. Connect AC Input Cable connector to power input source.
- Step 5. Dress AC input and data cables and secure them so that they will not interfere with luminaire head and yoke movement.

# MENU OPERATION

## LCD DISPLAY AND MENU SYSTEM

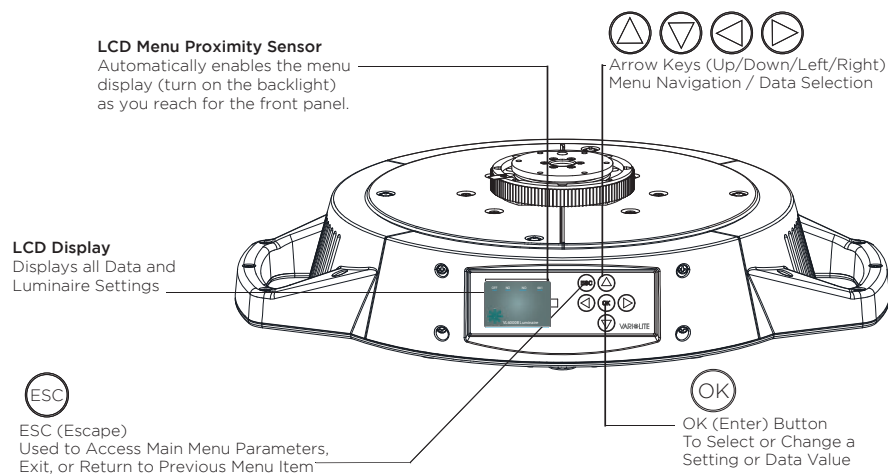
The VL6500 WASH's LCD Display and Menu System provides local control for accessing the following fixture's settings:

- Address - to set the DMX address
- Configure - various parameter settings, set luminaire ID
- DMX - change the map, view incoming DMX, invert pan/tilt
- Fixture - fixture status, recalibrate, reboot, software version, view fixtures hours, service, etc.
- Manual - manual control of parameters
- Test - test functions of parameters

The menu system is controlled at the Menu Display available at the enclosure input panel. If there are multiple luminaires in a system, any settings or changes would need to be made at each LCD Menu as desired.

## MENU CONTROLS

The menu system is controlled by an OK (Enter), ESC (Escape), and four Arrow (▲▼◀▶) buttons. These buttons function are shown in **FIGURE 3**.



**FIGURE 3. MENU CONTROL**

## 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 [ESC] to access menu categories.
- Step 3. Use four Arrow (...) buttons to navigate through the various options and settings.
- Step 4. Once menu item is reached, press [OK] to access the menu item parameters.
- Step 5. Make changes to parameters as desired.
- Step 6. Press OK [Enter] button to accept changes.

## DMX ADDRESS

### To set, edit, and save a DMX address:

- Step 1. Press [ESC].
- Step 2. Press [Up] / [Down] arrows until Address appears. Press [OK].
- Step 3. Use [Left] and [Right] arrow buttons to scroll through all digits.
- Step 4. Once at desired digit, use [Up] and [Down] arrows to change highlighted digit.

- Step 5. Once digit is set, use [Left] and [Right] arrow buttons to set other digits in DMX address.
- Step 6. Once all digits are set in DMX address, press [OK] to set.
- Step 7. DMX address will display and is saved.

### LCD MENU BATTERY OPERATION

The LCD menu system utilizes a battery powered system for operation when the luminaire is not connected to power. The primary purpose of this mode is to allow basic setup and configuration of the luminaire.

**To enable the battery operation of the menu system:**

- Step 1. Press and hold [ESC] and [OK] for two seconds.
- Step 2. Once enabled, the menu will function as normal with only the following sub-menu sections active:
  - Address
  - Configure
  - Setup
  - DMX
  - Fixture

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**NOTE:** Any commands that require full power (calibrate, lamp strike, etc.) will be ignored while the menu system is in battery operation mode.

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- Step 3. To exit battery mode, press and hold [ESC] and [OK] for two seconds. Note, luminaire will automatically exit this mode after one minute of inactivity.

### STATUS BAR

The Status Bar is present at all times and displays luminaire operational information of the luminaire. The Status Bar contains the following information:

- **LAMP** - indicates current lamp state - ON or OFF.
- **SHDN** - indicates shutdown time in hours NO indicates NO shutdown time.
- **ERRORS** - Displays a number indicating the total amount of current errors. When errors are present, messages will appear in Red text. When no errors are present, NO will display.
- **ADDR** - Displays the current DMX address for the fixture. NOTE, when the fixture does not detect a DMX input signal, the DMX address text will display in Red text.

### LCD MENU PROXIMITY SENSOR

The LCD menu system uses a proximity sensor to automatically enable the menu display (turn on the backlight) as you reach for the front panel. If the display is off, it will turn on when your hand is within a few inches of the display. Note, when the luminaire is not connected to power and the LCD menu is operating on battery, this proximity sensor is disabled.

## QUICK REFERENCE DMX MAP

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DMX CHANNEL	PARAMETER
1	Intensity
2, 3	Pan
4, 5	Tilt
6	Cyan
7	Yellow
8	Magenta
9	CTO
10	Color wheel 1
11	Color wheel 1 control

DMX CHANNEL	PARAMETER
12	Color wheel 2
13	Color wheel 2 control
14	Color wheels macro / presets
15	Color wheels transition control
16	Dichro*fusion
17	Strobe speed
18	Strobe control
19	Programmers channel

## IMPORTANT INFORMATION

### WARNINGS AND NOTICES

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

**READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**

- For indoor, dry locations use only. Do not use outdoors.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Not for residential use. Do not use this equipment for other than intended use.
- Refer service to qualified personnel.



**SAVE THESE INSTRUCTIONS.**




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**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.

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**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.

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**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.

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### CUSTOMER SERVICE

If you have any questions regarding this product, please contact Customer Service at +1-214-647-7880 or via e-mail at [entertainment.service@signify](mailto:entertainment.service@signify).

### LIMITED 2-YEAR WARRANTY

Vari-Lite offers a two-year limited warranty on its control products against defects in materials or workmanship from the date of delivery. A copy of Vari-Lite two-year limited warranty containing specific terms and conditions can be obtained from the Vari-Lite website at [www.vari-lite.com](http://www.vari-lite.com) or by contacting your local Vari-Lite office.

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