

PHILIPS
VARI*LTE



VL4000 Spot Luminaire
QuickStart Guide

Introduction

About This Guide

This Quickstart Guide is intended for a knowledgeable user to unpack, install, and use the VL4000 Spot Luminaire in a short time period. For the complete manual in PDF format, please visit our web site at: www.vari-lite.com and click the user manual download link on the product downloads page. The complete manual provides you all information related to accessories, menu structures, DMX channel mapping/modes, and care for your new luminaire.

Read this manual in its entirety before operating luminaire. Keep this guide for future reference.



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. **AVERTISSEMENT:** Il est important de lire toutes les instructions de sécurité et d'installation d'accompagnement pour éviter d'endommager le produit et les risques de blessures à vous-même ou les autres.

Notes:

- For complete product description, features, and specifications, refer to product specification sheet on the Vari-Lite web site at www.vari-lite.com.
- For power requirements, refer to **“Current vs. Voltage” on page 14.**
- VL4000 Spot luminaires accept glass gobos only. Use of metal gobos will void the luminaire's warranty.



Additional Documentation

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, New York 13210-1844 USA
Phone: 800-938-7488 or +1-315-463-6463
Fax: 866-398-7488 or +1-315-463-6525
Web Site: www.usitt.org

Customer Service

Our Goal

At Vari-Lite, we are committed to providing you the highest quality in customer service. Our comprehensive resources are available to help your business succeed and ensure you get the full benefit of being a Vari-Lite customer. Whether your needs are telephone troubleshooting assistance, product training or technical service, our full-time staff of experienced professionals are on-hand to provide support.

How to Reach Us

For assistance in your area, call the dealer from which your product was purchased.

or Contact an Authorized Service Center

or Contact the Vari-Lite Customer Service Department, 7am - 6pm CST Monday through Friday, at the following:

phone: 1-877-VARI-LITE (1-877-827-4548) or +1-214-647-7880

e-mail: entertainment.service@philips.com

Note: Performing maintenance procedures may void the product warranty. Refer to the Vari-Lite Limited Warranty card included in the product shipping package for more information. For all service and maintenance issues, please contact your local Authorized VARI***LITE** Dealer or Service Center.

Additional Resources

For additional resources and documentation on this product, please visit our website at www.vari-lite.com and follow the Support link.

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Version as of: **05 June 2014**

VL4000 Spot Luminaire QuickStart Guide

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Compliance & Safety Notices

Compliance

FCC

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when this equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with Vari-Lite system, service, and safety guidelines, may cause harmful interference to radio communications.

As tested under this standard:

FCC 47CFR 15B cIA*CEI

Issued:2009/10/01 Title 47 CFR Part 15 Subpart B Unintentional Radiators Class A

Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.



EC Declaration of Conformity

We, Philips Lighting B.V., 10911 Petal Street, Dallas, Texas 75238, declare under our responsibility for the products contained herein are in conformity with the essential requirements of the following European Directives and harmonized standards:

Low Voltage Director (LVD), 2006/95/EC

EN 60589-2-17:1984+A1:1987+A2:1990 used in conjunction with 60598-1:2008/A11:2009

Electromagnetic Compatibility Directive (EMC), 2004/108/EC

EN 55022:2010, EN55024:2010

Safety Notice

It is extremely important to read ALL safety information and instructions provided in this manual and any accompanying documentation before installing and operating the products described herein. Heed all cautions and warnings during installation and use of this product. Safety symbols used throughout this manual are as follows:



CAUTION advising of potential damage to product.



WARNING advising of potential injury or death to persons.

GENERAL INFORMATION PERTAINING TO PROTECTION AGAINST ELECTRICAL SHOCK, FIRE, EXPOSURE TO EXCESSIVE UV RADIATION, AND INJURY TO PERSONS CAN BE FOUND BELOW.

WARNING:

INSTRUCTIONS FOR CONTINUED PROTECTION AGAINST FIRE

1. VARI*LITE luminaires have been designed for use with specific lamp types. The VL4000 Spot Luminaire requires a certain type of lamp (see ["Replacement Items/Accessories" on page 8](#) for all lamp types). Installing another type or unapproved lamp may be hazardous.
2. Luminaires may be mounted on any type of surface as long as mounting instructions are followed. See instructions detailed in this manual.
3. Note distance requirement from combustible materials or illuminated objects for VARI*LITE luminaires.

WARNING:

INSTRUCTIONS FOR CONTINUED PROTECTION AGAINST ELECTRICAL SHOCK

1. VARI*LITE luminaires are designed for dry locations only. Exposure to rain or moisture may damage luminaire.
2. Disconnect power before servicing any VARI*LITE equipment.
3. Servicing to be performed by qualified personnel only.

WARNING:

INSTRUCTIONS FOR CONTINUED PROTECTION AGAINST EXCESSIVE EXPOSURE TO UV RADIATION

1. Many VARI*LITE luminaires use a lamp that produces UV radiation. DO NOT look directly at lamp.

VARI***LITE** - VL4000 SPOT LUMINAIRE QUICKSTART GUIDE

2. It is hazardous to operate luminaires without lens or shield. Shields, lenses, or ultraviolet screens shall be changed if they have become visibly damaged to such an extent that their effectiveness is impaired. For example, by cracks or deep scratches.

WARNING:

INSTRUCTIONS FOR PROTECTION AGAINST INJURY TO PERSONS

1. Exterior surfaces of the luminaire will be hot during operation. Use appropriate safety equipment (gloves, eye protection, etc.) when handling and adjusting hot equipment and components.
2. Luminaires will have a hot lamp when operating. Disconnect power and allow lamp to cool before replacing.
3. Arc lamps emit ultraviolet radiation which can cause serious skin burn and eye inflammation. Additionally, arc lamps operate under high pressure at very high temperatures. Should the lamp break, there can exist a danger of personal injury and/or fire from broken lamp particles being discharged.
4. Wear eye protection when relamping.
5. Appropriate safety equipment (gloves, eye protection) should be used when handling damaged lamps.
6. If lamp is touched with bare hands, clean lamp with denatured alcohol and wipe with lint-free cloth before installing or powering up the luminaire.
7. The lamp shall be changed if it has become damaged or thermally deformed.

WARNING:

RF INTERFERENCE

This is a Class A product. In a domestic environment this product may cause radio interference, in which case, the user may be required to take adequate measures.

Notes de sécurité

Avant de procéder à l'installation des produits décrits dans ce guide et de les mettre en marche, il est extrêmement important de lire TOUS les renseignements et TOUTES les directives de sécurité contenues dans ce guide ainsi que toute documentation jointe. Tenir compte de tous les avertissements et suivre toutes les précautions pendant l'installation et l'utilisation de cet appareil.

Les symboles de sécurité utilisés dans ce guide sont les suivants :



ATTENTION Ce symbole annonce que l'appareil risque d'être endommagé.



AVERTISSEMENT Ce symbole annonce qu'il y a risque d'accident grave ou même fatal.

CETTE SECTION CONTIENT DES INFORMATIONS GÉNÉRALES POUR SE PROTÉGER CONTRE LES DÉCHARGES ÉLECTRIQUES, LES INCENDIES, L'EXPOSITION EXCESSIVE AUX RAYONS UV ET TOUT AUTRE ACCIDENT POUVANT ENTRAÎNER DES BLESSURES.

AVERTISSEMENT:

DIRECTIVES POUR SE PROTÉGER CONTRE LES INCENDIES

1. Les luminaires VARI***LITE** ont été conçus pour être utilisés uniquement avec certaines type de lampes. Vérifier le type de lampe avant de remplacer les lampes. L'installation d'un autre type de lampe peut poser un danger.
2. Les luminaires peuvent être fixés sur tout type de surface tant que les directives de montage sont respectées. Voir les explications détaillées dans ce guide.
3. Vérifier la distance à respecter entre les matériaux combustibles ou les objets illuminés et les luminaires VARI***LITE**.

AVERTISSEMENT:

DIRECTIVES POUR SE PROTÉGER CONTRE LES DÉCHARGES ÉLECTRIQUES

1. Les luminaires VARI***LITE** sont conçus pour une utilisation au sec uniquement. Une exposition à la pluie et à l'humidité risque d'endommager le luminaire.
2. Débrancher l'appareil avant de procéder à la révision de tout matériel VARI***LITE**.
3. Les révisions doivent être effectuées uniquement par des personnes qualifiées.

AVERTISSEMENT:

DIRECTIVES POUR SE PROTÉGER CONTRE UNE EXPOSITION EXCESSIVE AUX RAYONS UV

1. Plusieurs luminaires VARI***LITE** utilisent une lampe qui produit des rayons UV. NE PAS fixer son regard sur la lampe.
2. L'utilisation des luminaires sans lentille ou blindage pose des risques. Tous blindages, lentilles ou écrans ultraviolet visiblement endommagés au point que leur efficacité en est affectée doivent être remplacés, par exemple s'il y a des fissures ou de profondes rayures.

AVERTISSEMENT: DIRECTIVES POUR SE PROTÉGER CONTRE LES ACCIDENTS POUVANT ENTRAÎNER DES BLESSURES

1. Les surfaces externes du luminaire deviennent brûlantes quand l'appareil est en marche. Pour manœuvrer ou ajuster des appareils brûlants et leurs composants, se protéger suffisamment (gants, protection pour les yeux, etc.).
2. La lampe du luminaire est brûlante lorsqu'il est en marche. Débrancher le courant et attendre que la lampe ait refroidi avant de la remplacer.
3. Les lampes à arc émettent des rayons ultraviolets pouvant causer de graves brûlures sur la peau et une inflammation des yeux. De plus, les lampes à arc fonctionnent sous haute tension à de très hautes températures. Si la lampe se casse, les particules de la lampe cassée peuvent causer blessures et/ou incendie en s'éparpillant.
4. Se protéger les yeux pour remplacer la lampe.
5. Utiliser des appareils de protection appropriés (gants, protection des yeux) pour manier des lampes endommagées.
6. Si la lampe a été touchée avec des mains nues, la nettoyer avec de l'alcool dénaturé et l'essuyer avec un chiffon non-pelucheux avant d'installer ou de brancher le luminaire.
7. Si la lampe a été endommagée ou a reçu une déformation thermique, elle doit être remplacée.

AVERTISSEMENT: INTERFÉRENCE RF

Cet appareil est de Classe A. Dans un environnement domestique, cet appareil peut causer des interférences radio, et si c'est le cas, l'utilisateur peut avoir à prendre des mesures adéquates.

Other

Operational Temperatures / Températures de fonctionnement

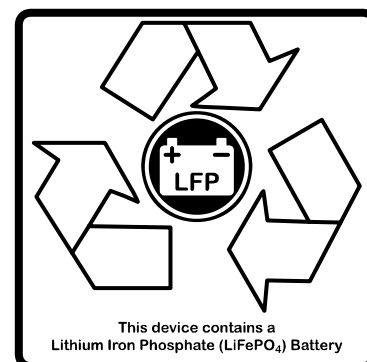
- The VL4000 Spot Luminaire offers users the choice of two operational modes that are selectable through the luminaire's menu system. Refer to [Table 1-1, "VL4000 Spot Luminaire Environmental Operational Temperatures"](#) and ["Operational Modes - Standard and Studio" on page 14](#) for information on environment temperature ranges associated with these settings.
- Le VL4000 Spot Luminaire offre aux utilisateurs le choix entre deux modes de fonctionnement qui peuvent être sélectionnées par le système de menu de l'appareil. Reportez-vous à [Table 1-1, "VL4000 Spot Luminaire Environmental Operational Temperatures"](#) et ["Operational Modes - Standard and Studio" on page 14](#) pour des informations sur des plages de température de l'environnement associés à ces paramètres.

Table 1-1: VL4000 Spot Luminaire Environmental Operational Temperatures

Operational Mode	Maximum Environmental Temperature	
	C	F
Standard Mode	40 ⁰	104 ⁰
Studio Mode	50 ⁰	122 ⁰

Battery Information / Informations sur la batterie

- This unit has a battery. Warning: Caution risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
- Cet appareil dispose d'une batterie. Avertissement: Attention risque d'explosion si la batterie de remplacement par un type incorrect. Jetez les piles usagées selon les instructions.



About The VL4000 Spot Luminaire

Included Items

The following illustration shows all items included with the luminaire:

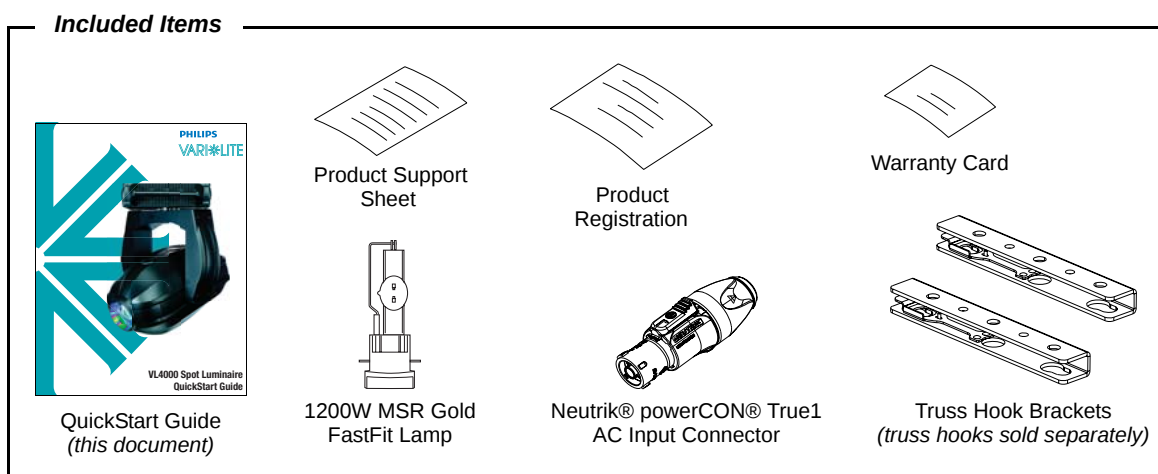


Figure 1: VL4000 Spot Luminaire Included Items

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 Kit
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
71.9704.1200	1200W Lamp, Philips MSR Gold 1200 FastFit*

Note: *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.

Connecting Power and Data

Connecting Power

The luminaire requires standard AC power distribution from 208-240 VAC, 50/60 Hz. Current required depends on the AC supply voltage and product model. Refer to [“Current vs. Voltage” on page 7](#) 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 8](#).

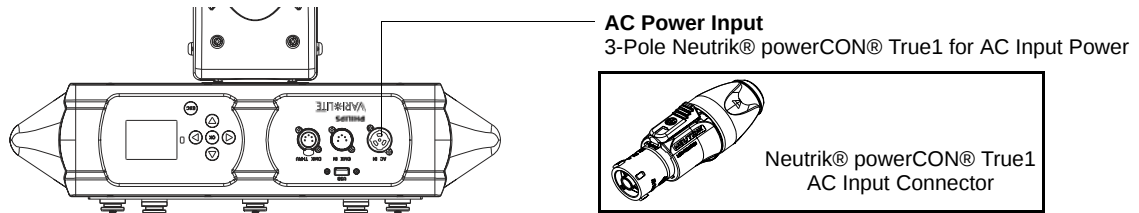


Figure 2: Power Connector

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:

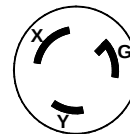
Wire*	Connection
Green/Yellow	AC Ground
Blue	AC Neutral
Brown	AC Line
* International (Harmonized) Standard	



WARNING: DO NOT connect to three-phase service in countries with 240 volt power. **AVERTISSEMENT:** NE PAS se connecter au service en trois phases dans les pays avec puissance de 240 volts.

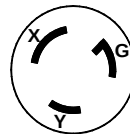
For single-phase power at 240 volts RMS:

Connection	Pin
AC Neutral	X
AC Line	Y
Ground (Earth)	G



For three-phase power at 208 volts 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 'NNDIM' 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. **AVERTISSEMENT:** Il n'est pas recommandé pour alimenter un luminaire VARI*LITE d'un gradateur - même en mode 'NNDIM'. Modules de gradation et non sables ne sont pas des sources appropriées de pouvoir parce que leur production modifie la forme d'onde AC. Cela peut fonctionner pendant une courte période, mais finira par entraîner des problèmes d'alimentation, luminaires mauvais fonctionnement et / ou l'échec et peut annuler la garantie de l'appareil.

Current vs. Voltage

Table 1-2, VL4000 Spot Luminaire - Current vs. Voltage (1200W Lamp) 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 1-2: VL4000 Spot Luminaire - Current vs. Voltage (1200W Lamp)

AC Voltage @ 60Hz	Total Luminaire Current (Motor + Lamp Current)
200V	11.0A
210V	10.5A
220V	10.0A
230V	9.6A
240V	9.2A

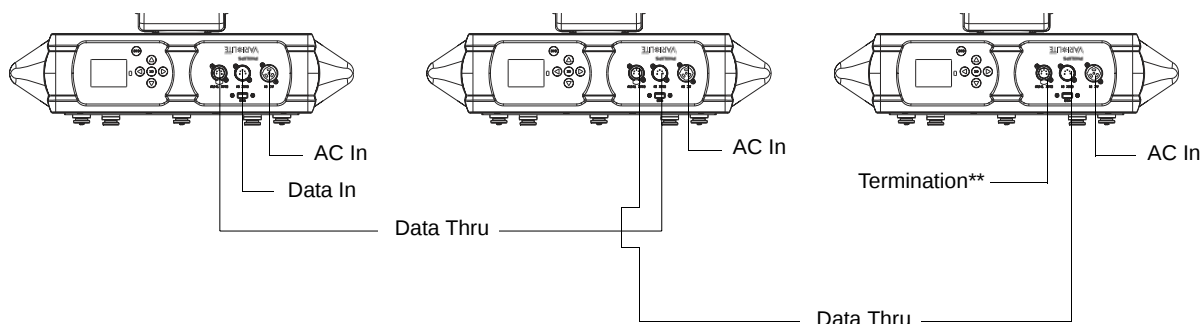
Connecting Data

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.)



VL4000 Spot Luminaire Channel Requirements*		
DMX512 Channels	Description	Menu Display
57 Channels	Enhanced 16-Bit Mode <i>(default)</i>	16E
52 Channels	16-Bit Mode	16

**As set by the luminaire's menu system.*

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

Figure 3: 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.

Installation Procedures

Installing Lamp

In the event the lamp was packed separately during shipment, follow the procedure in this section.



WARNING: Disconnect fixture before relamping. **AVERTISSEMENT:** Déconnectez le projecteur avant que le changement de lampe.



WARNING: Hot Lamp. Luminaire must remain powered on for 5 minutes after dousing lamp. Do not open for 5 minutes after switching off. **AVERTISSEMENT:** Lampe chaude. Le luminaire doit rester en marche pendant 5 minutes après avoir éteindre la lampe. Ne pas ouvrir pendant 5 minutes après la coupure.



WARNING: Risk of exposure to excessive ultraviolet radiation. Do not operate without complete lamp enclosure in place or when lens is damaged. **AVERTISSEMENT:** Risque d'exposition aux rayonnements ultraviolets excessifs. Ne pas faire fonctionner sans le boîtier complet de lampe mis en place ou lorsque l'objectif est endommagé.

Note: Wear cotton gloves or other covering while installing lamp. Touching lamp glass with bare fingers will leave oil and may cause the lamp to explode or reduce lamp life. If touched, use isopropyl alcohol and cotton cloth to thoroughly clean glass portion of lamp.

To install lamp:

- Step 1. Ensure power is completely removed from luminaire.
- Step 2. Remove lamp from shipping box.
- Step 3. Set the luminaire head horizontally.
- Step 4. Engage tilt lock to secure luminaire head in position.
- Step 5. At back of luminaire, using #2 Phillips screwdriver, remove lamp socket cover by loosening the two quarter-turn captive screws. Note: lamp socket cover is connected with a safety tether.

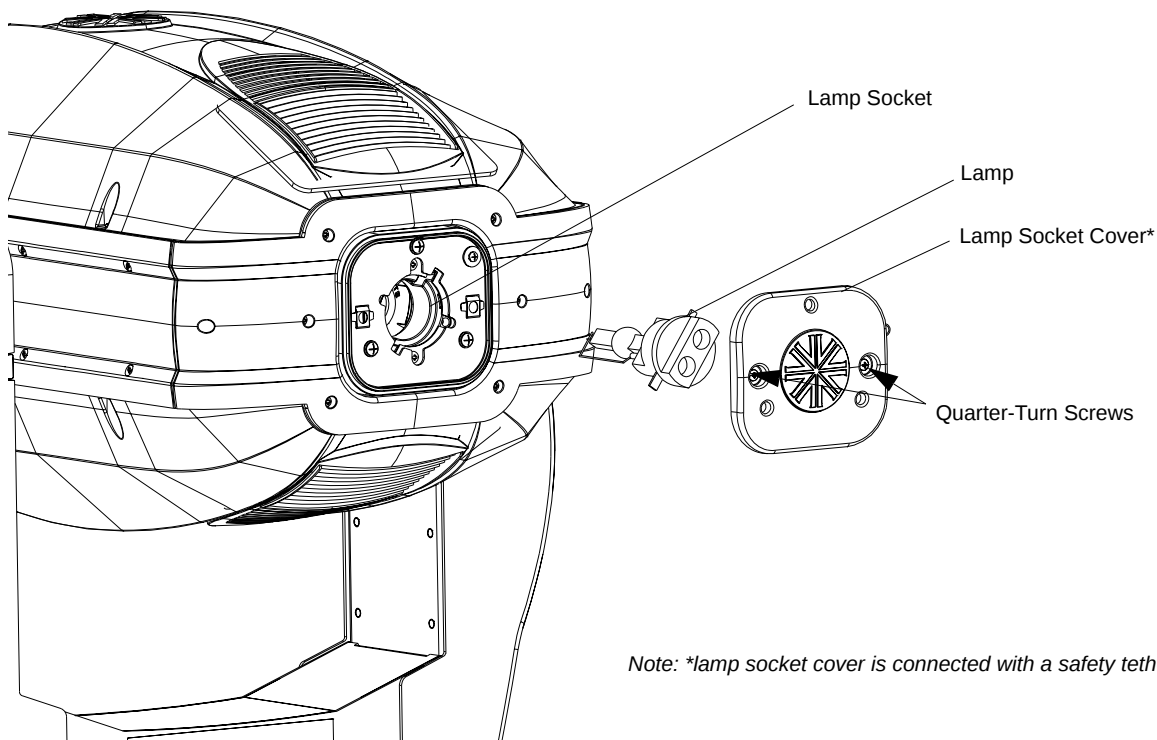


Figure 4: Lamp Socket Cover Removal

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- Step 6. As shown in **Figure 5**, align lamp tabs with lamp socket.

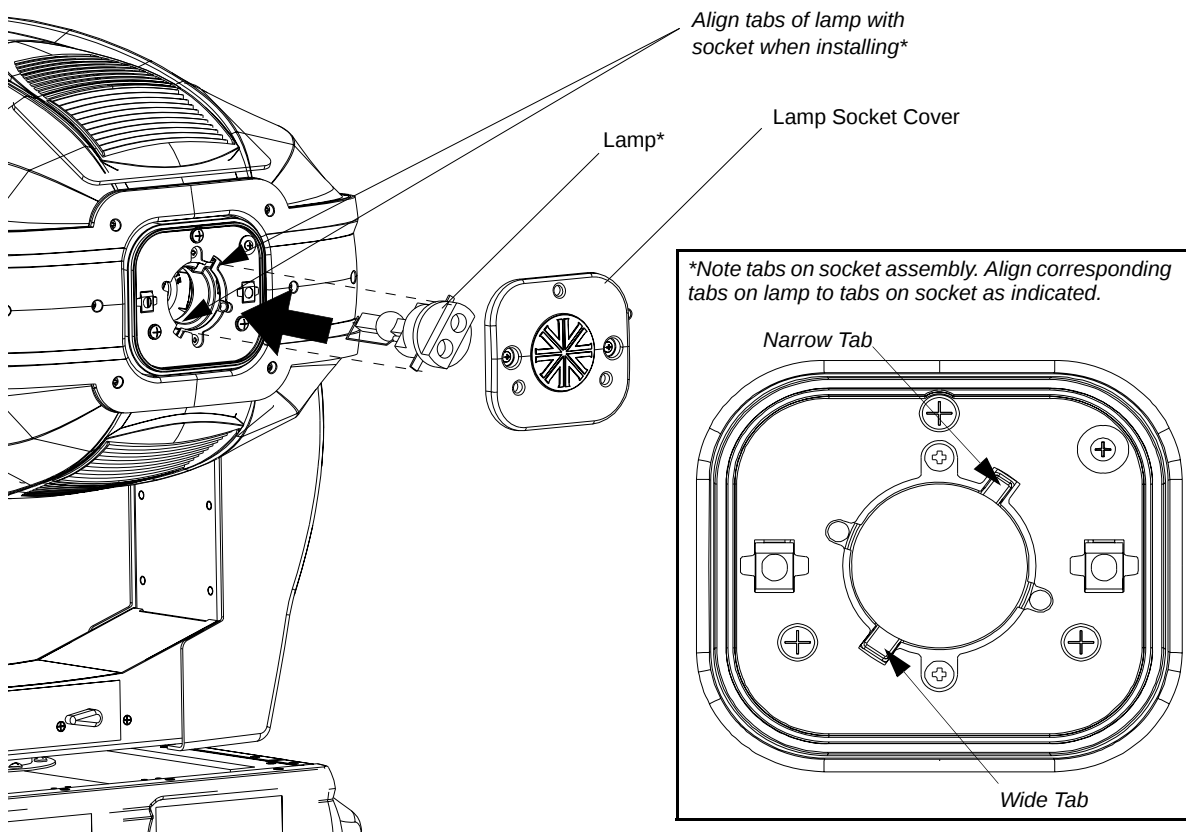


Figure 5: Lamp Installation

- Step 7. Install lamp fully into lamp socket, taking care not to touch lamp glass.
 Step 8. Turn lamp clockwise to seat lamp into socket. Lamp base should be aligned as illustrated in **Figure 6**.

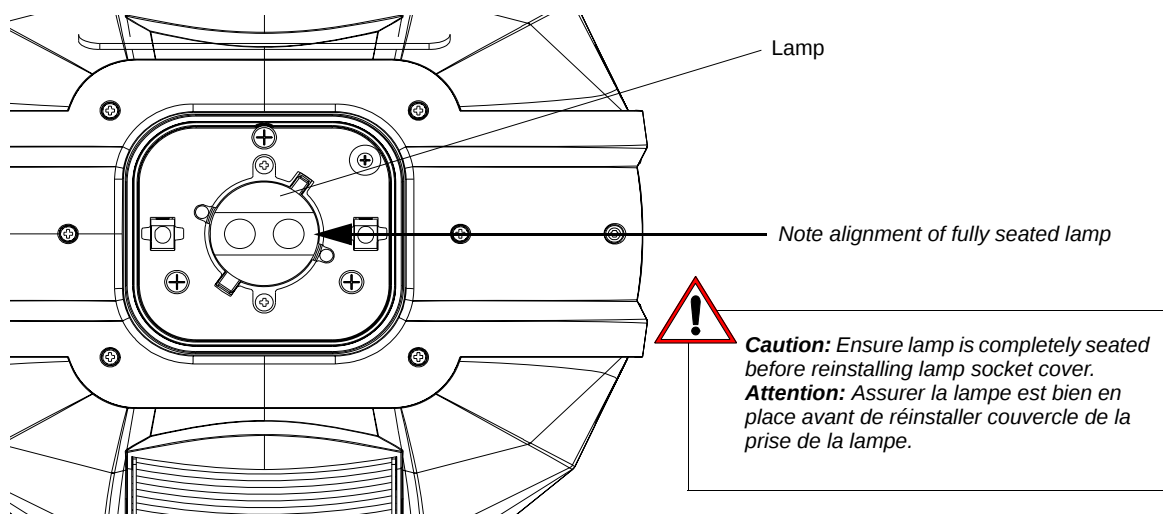


Figure 6: Installed Lamp

- Step 9. Reinstall lamp socket cover. Make sure safety tether is completely encapsulated within lamp socket cover.
 Step 10. Disengage tilt lock to allow luminaire head to move freely.
 Step 11. Align lamp as described in **“Align Lamp For Maximum Beam Irradiance” on page 10.**

Align Lamp For Maximum Beam Irradiance

After a new lamp is installed in the luminaire, it will be necessary to align the lamp to optimize the beam.



WARNING: Back of luminaire and alignment screws will be HOT during lamp operation. Wear gloves and/or use tools to prevent burns.
AVERTISSEMENT: Retour de luminaires et d'alignement vis sera chaud pendant le fonctionnement de la lampe. Porter des gants et / ou utiliser des outils pour éviter les brûlures.

To align lamp:

- Step 1. Set intensity to 100%.
- Step 2. Position beam on a white wall at a distance of 10 to 20 feet.
- Step 3. Using console or internal luminaire menu controls, set zoom to zero and focus to a hard edge. Be sure that beam-size iris is completely opened.
- Step 4. Using three alignment screws (as indicated with Red Arrows in **Figure 7**) adjust hot spot to center of beam.
- Step 5. Check color uniformity as follows:
 - a. Position one of the color (cyan or magenta works best) at 50% of maximum.
 - b. Verify that beam color is uniform (if lamp is misaligned, color will be concentrated to one side of beam). If color is not uniform, readjust lamp using lamp alignment screws until color is uniform across entire beam field.

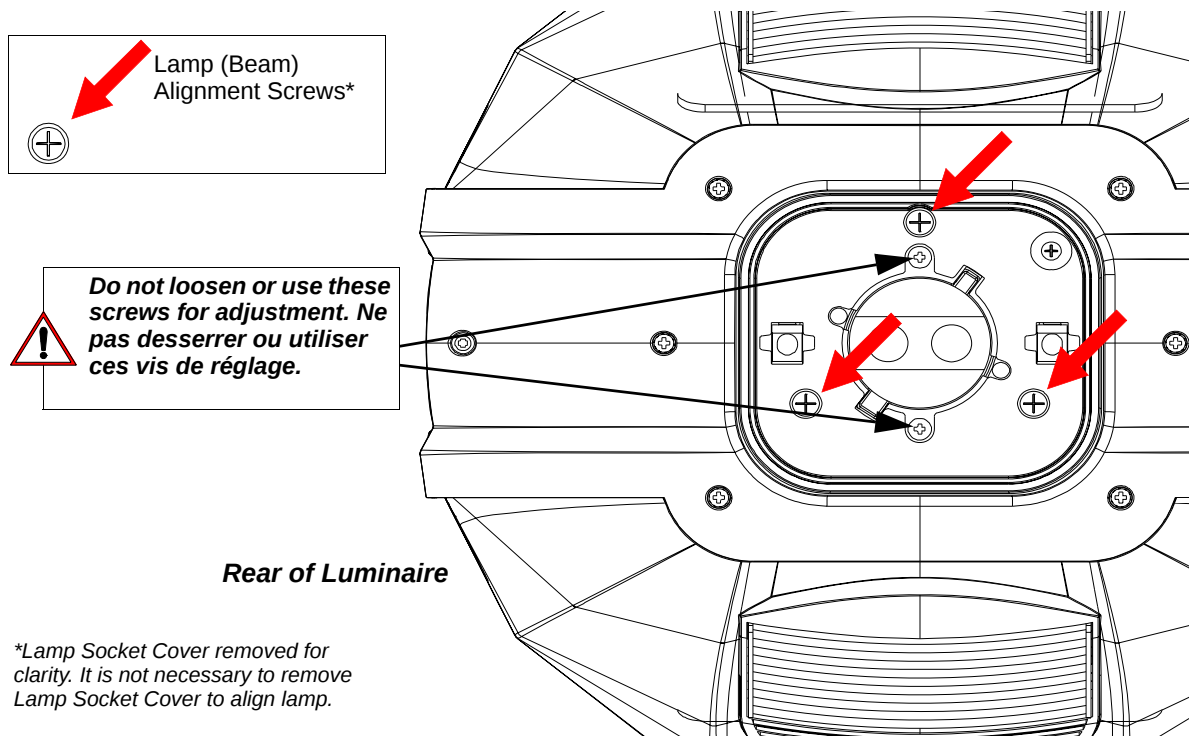


Figure 7: Lamp Alignment Screws

Floor Mounting the Luminaire

All luminaires included in this manual are designed to sit directly on its 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.

Hanging the Luminaire

The VL4000 Spot Luminaire can be hung horizontally or vertically from any structure designed to work with the type of load created by this moving luminaire. Two mounting truss hooks or other mounting hardware are required. Many compatible truss hooks are available from different manufacturers for your particular needs.

A minimum of two hooks per luminaire is required. If mounting method does not use truss hooks, two attachment points, per luminaire, are required.

Install mounting hardware and brackets:

- Step 1. Install truss hooks on two provided truss hook brackets as required as shown in **Figure 8**.

Note: Various types of truss hooks can be used. The Mega Claw truss hook (as shown in the example above) as well as many other standard hooks, can be ordered separately.

- Step 2. Determine required configuration of bracket installation. Brackets may be installed in many different orientations as shown in **Figure 9**.
- Step 3. While pulling up on locking mechanism release, fit keyed holes onto raised mounting buttons at bottom of enclosure. Slide forward and release locking mechanism to lock in place. Ensure brackets are locked securely.

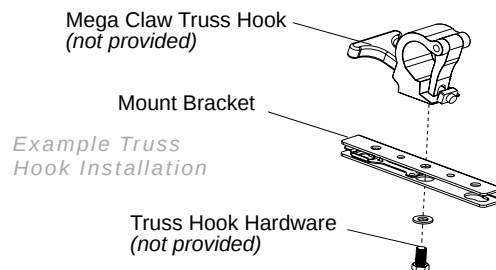
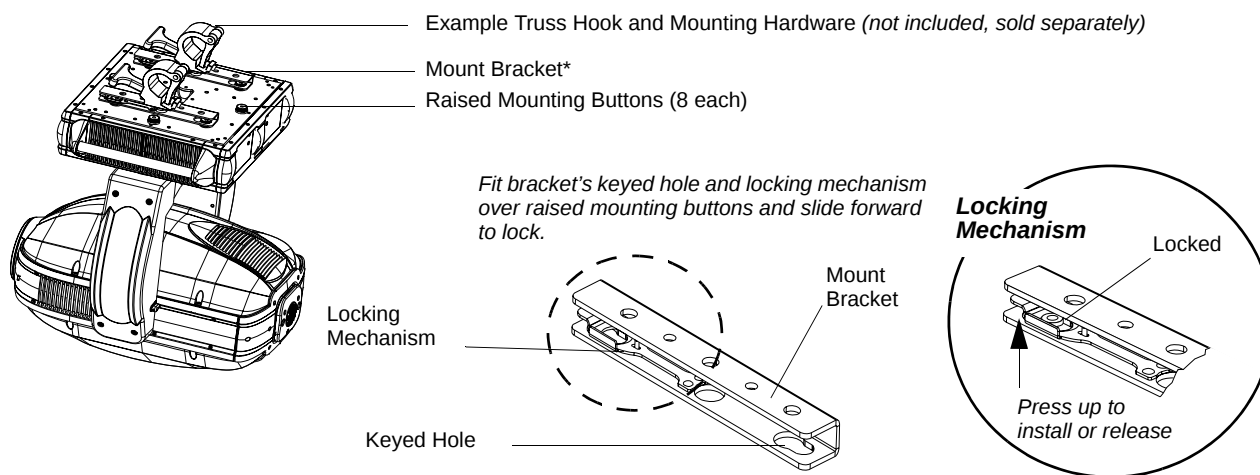


Figure 8: Truss Hook Installation



WARNING: Ensure that the bracket locking mechanism is fully seated after the bracket is installed on the luminaire. **AVERTISSEMENT:** Assurez-vous que le mécanisme de support de verrouillage est complètement inséré après le support est installé sur l'appareil.



Bracket Orientation

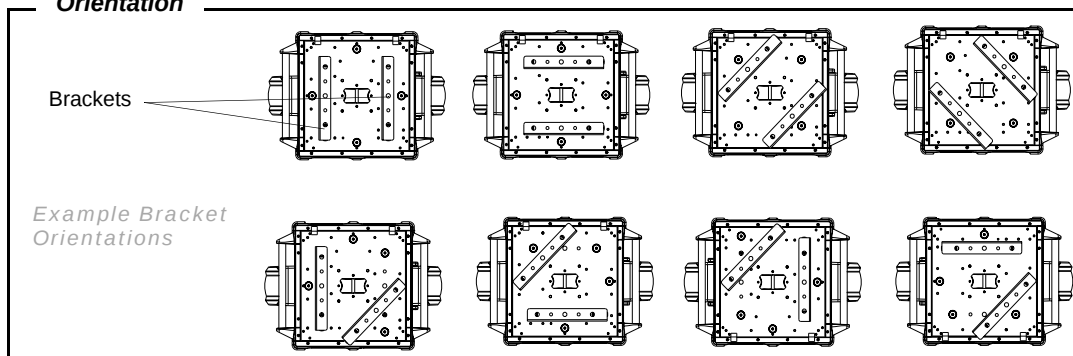
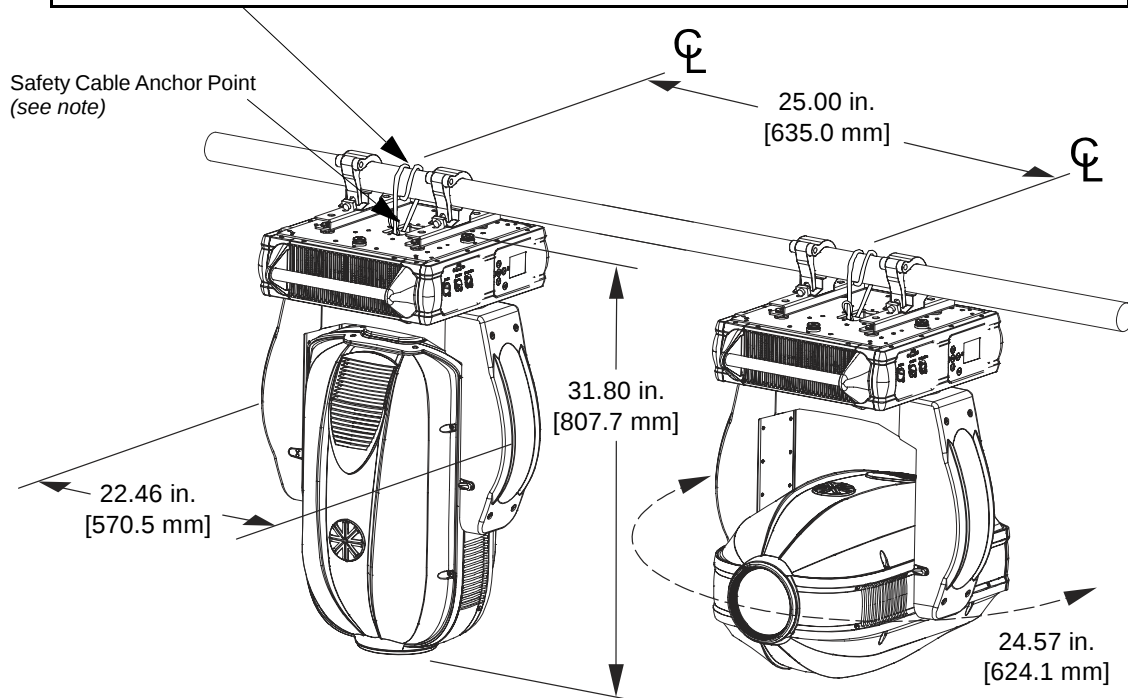


Figure 9: Installing Brackets on Luminaire Enclosure

Installing in Truss:

- Step 1. Using two people, lift luminaire into mounting position.
- Step 2. Secure in place with truss hook. Ensure truss hook hardware that locks hook in place (e.g. wing bolt) is properly tightened and that luminaire is fully supported.
- Step 3. Attach safety cable (as required) as follows (refer to **Figure 10**):
 - a. Loop safety cable at least once around safety cable anchor point rod.
 - b. Loop safety cable at least once around truss/pipe and secure around pipe.

! Safety Cable: Recommended for hanging installations. May be required by local codes. Safety cable is sold separately.
Câble de sécurité: Recommandé pour les installations pendaison. Peut être exigé par les codes locaux. Câble de sécurité est vendu séparément.



Note, truss hooks shown are sold separately. Truss and pipe by others.

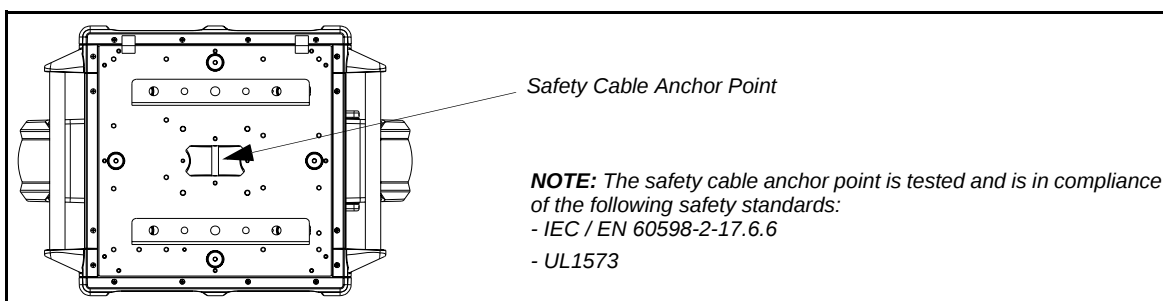


Figure 10: Safety Cable Installation / Luminaire Hanging

- Step 4. Make sure tilt and pan locks are disengaged so luminaire moves freely.
- Step 5. Connect power and data cables according to procedure given in **"Connecting Data" on page 7**.

Menu Operation

LCD Display and Menu System

The VL4000 Spot Luminaire's LCD Display and Menu System provides local control for accessing the following fixture's settings:

- Address – to set the DMX address
- Setup – to change any modes
- Configure – various parameter settings, set luminaire ID
- Fixture – fixture status, recalibrate, reboot, software version, view fixtures hours, etc.
- DMX – change the map, set address, invert pan/tilt
- Service – password protected factory service menu
- 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 11**.

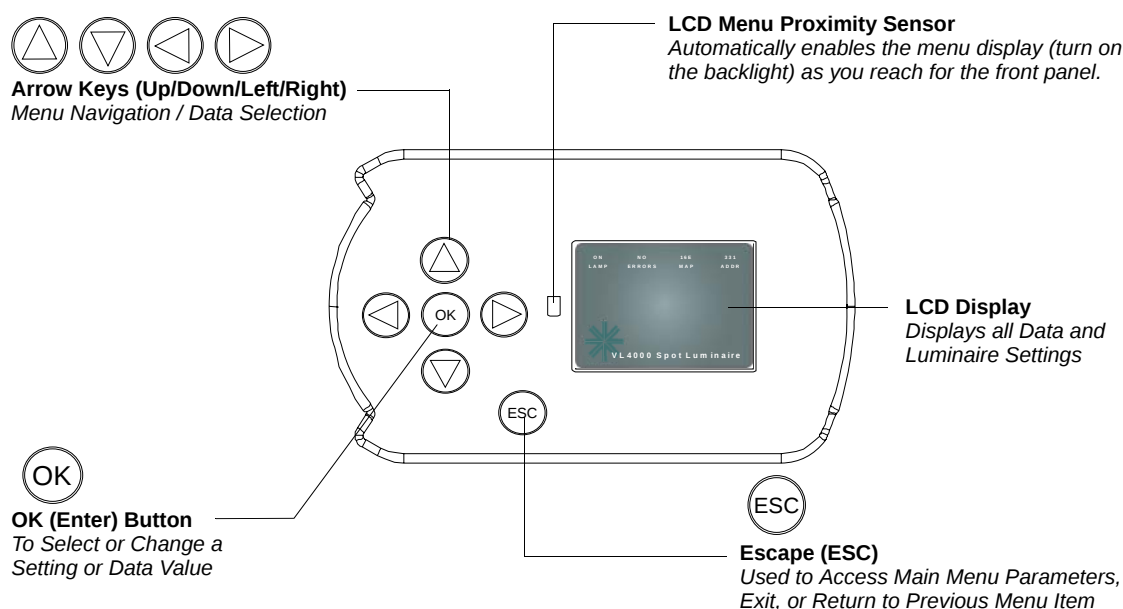


Figure 11: Menu Control

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 [Enter] 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 (DMX Address) appears. Press OK [Enter].
- 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 [Enter] to set.
- Step 7. DMX will display and is saved.

Operational Modes - Standard and Studio

The VL4000 Spot Luminaire offers users the choice of two operational modes that are selectable through the luminaire's menu system:

- **Standard Mode (default)** - luminaire's cooling fans are set to maximum cooling to allow the luminaire to output up to 33,000 lumens. In Standard Mode, the fixture can operate in environments up to 104° F / 40° C.
- **Studio Mode** - luminaire's cooling fans are slowed to afford quieter operation where noise could be a concern. The lumen output of the fixture is reduced to minimize the heat produced by the luminaire's lamp. In Studio Mode, the fixture can operate in environments up to 122° F / 50° C.

Other LCD Display Features

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

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

- 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 (as illustrated in **Figure 12**) 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.
- **ERRORS** – Displays either a number indicating the total amount of current errors OR can cycle through short text descriptions of each error. Example: “Pan” or “Gobo1”. When errors are present, messages will appear in Red text. When no errors are present, None will display.
- **MAP** – Displays the current DMX map setting.
- **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.

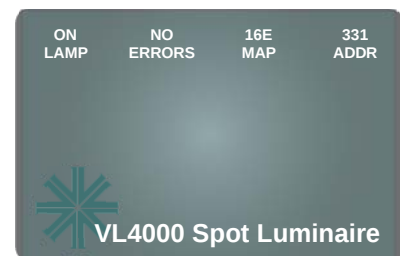


Figure 12: LCD Display Status Bar

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.*

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