VARI*LITE

VL800 BEAMLINE

QUICK START GUIDE

Introduction

About This Guide

This Quickstart Guide is intended for a knowledgeable user to unpack, install, and use the VL 800 BeamLine 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 datasheet on the Vari-Lite web site at www.vari-lite.com.
- For power requirements, refer to **"Current vs. Voltage" on page 14**.
- VL 800 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:

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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 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@signify.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 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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VL 800 BeamLine luminaire QuickStart Guide
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Compliance & Safety Notices

Compliance

SAFETY Standards

We, Vari-Lite, 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 Safety standards for United States and Canada.

EN 60598-1:2015

EMC Standards

This equipment has been tested and found to comply with the limits for a Class B 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.

47CFR FCC Part 15 Class B 2017
EN 61547:2009
EN 55015:2013
ICES-003:2016

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 VL 800 BeamLine 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.

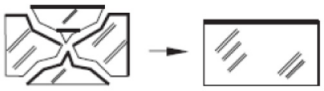
2. Luminaires may be mounted on any type of surface as long as mounting instructions are followed. See instructions detailed in this manual.
3. Note distance requirement from combustible materials or illuminated objects for VARI✻LITE luminaires.

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.
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. Replace any cracked or protective shields.



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 lorqu'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 Temperature / Température de fonctionnement

- The VL 800 BeamLine luminaire has one operational mode. Refer to **Table 1-1, "VL 800 Environmental Operational Temperatures"** for information on environment temperature ranges associated with this mode.
- Le VL 800 BeamLine luminaire a un mode opérationnel. Reportez-vous à **Table 1-1, "VL 800 Environmental Operational Temperatures"** pour des informations sur les plages de température environnementales associées à ce mode.

Table 1-1: VL 800 Environmental Operational Temperatures

Minimum to Maximum Environmental Temperature	
C	F
0° to 40°	-4° to 122°

About the VL 800 BeamLine Luminaire

Included Items

The following illustration shows all items included with the luminaire:

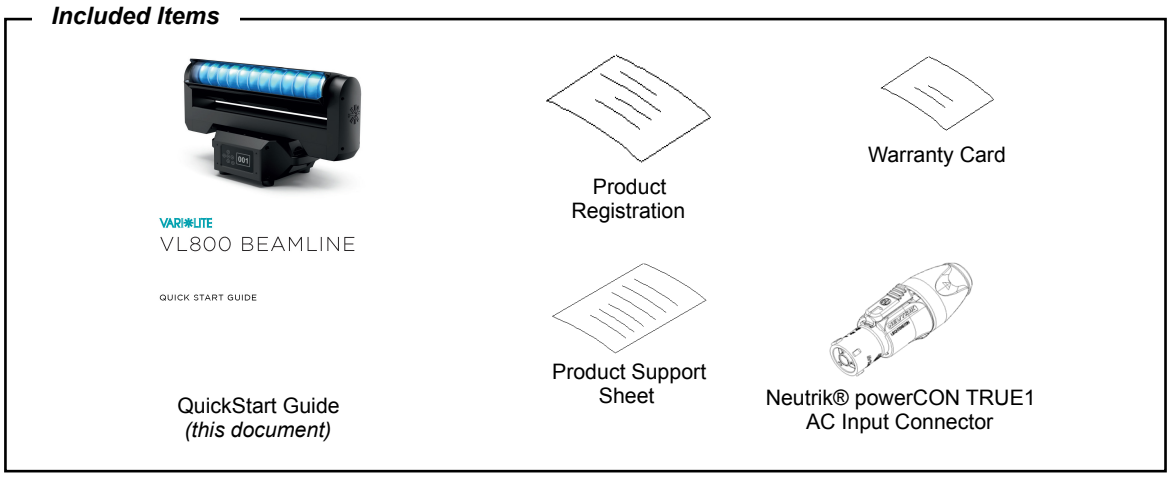


Figure 1: VL 800 BeamLine luminaire Included Items

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
	AC Input Cable, Neutrik® powerCON® True1 with Twist Lock (Male), 250V, 1 Meter
	Luminaire Programming Software
	Safety Cable Assembly
	DMX Termination Connector Assembly
	Truss Hook, Mega-Clamp, Round and Square
	Truss Hook, Mega-Claw for 2” Round Tube

Note: Please check with Vari-Lite or Authorized Vari-Lite Dealer for availability on accessories.

Connecting Power and Data

Connecting 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 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.

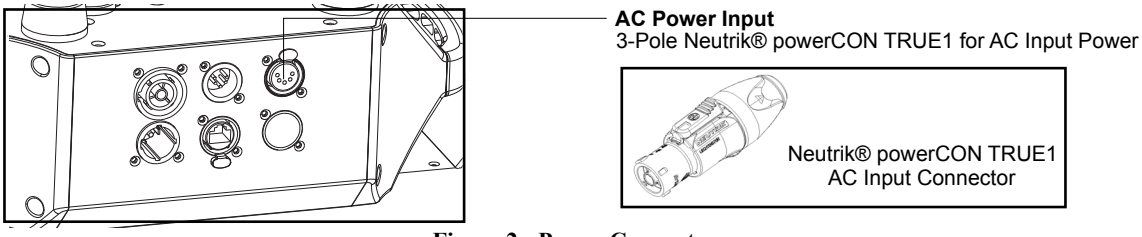


Figure 2: Power Connector

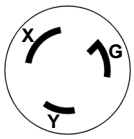
Depending on the application, the luminaire’s AC input cable may require a different connector. If required, install a new connector meeting your requirements using the following wire color code reference:

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.

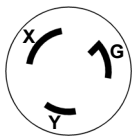
For single-phase power at 240 volts RMS:

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



For three-phase power at 200 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 '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. **AVERTISSEMENT:** Il n'est pas recommandé pour alimenter un luminaire VARI✻LITE d'un gradateur - même en mode 'NONDIM’. Modules de gradation et non sombres 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, VL 800 BeamLine Luminaire - Current vs. Voltage (230W LED) 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 responsibilité 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: VL 800 BeamLine Luminaire - Current vs. Voltage (230W LED)

AC Voltage @ 60Hz	Total Luminaire Current (Motor + Lamp Current)
100V	2.8A
110 V	2.6A
120V	2.3A
130V	2.1A
200V	1.4A
210V	1.3A
220 V	1.25A
230 V	1.2A
240 V	1.15A

Connecting Data

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

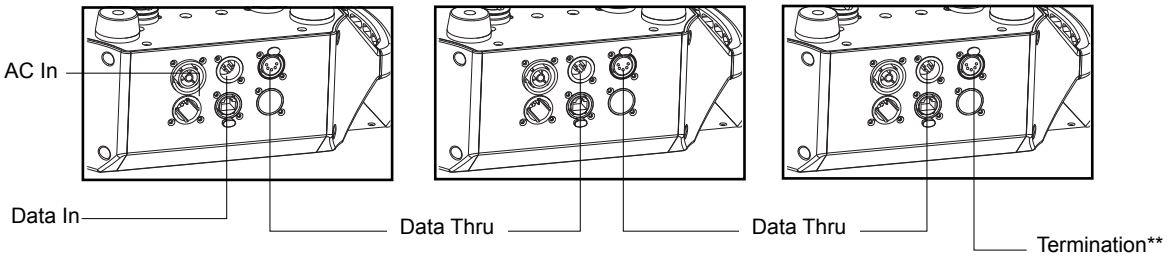
Note: This maximum limit applies to the luminaire "daisy chain" only. Your system or console may require fewer luminaires on a single data link path. Consult your console documentation for more information.

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.)



VL 800 BeamLine Luminaire Channel Requirements*		
DMX512 Channels	**Description**	**Menu Display**
23 Channels	16-Bit Mode *(default)*	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

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 VL 800 BeamLine 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:

Step 1. Install truss hooks and omega clamps as shown in **Figure 4**.

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.

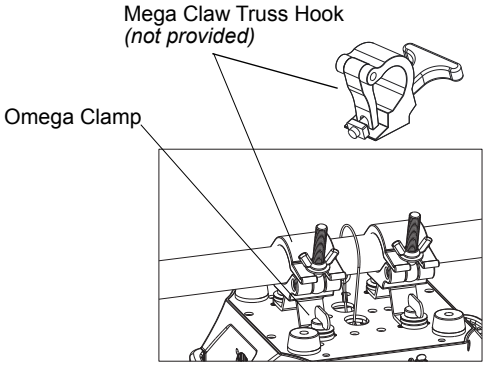


Figure 4: Truss Hook Installation

Step 2. Tighten hardware securely.

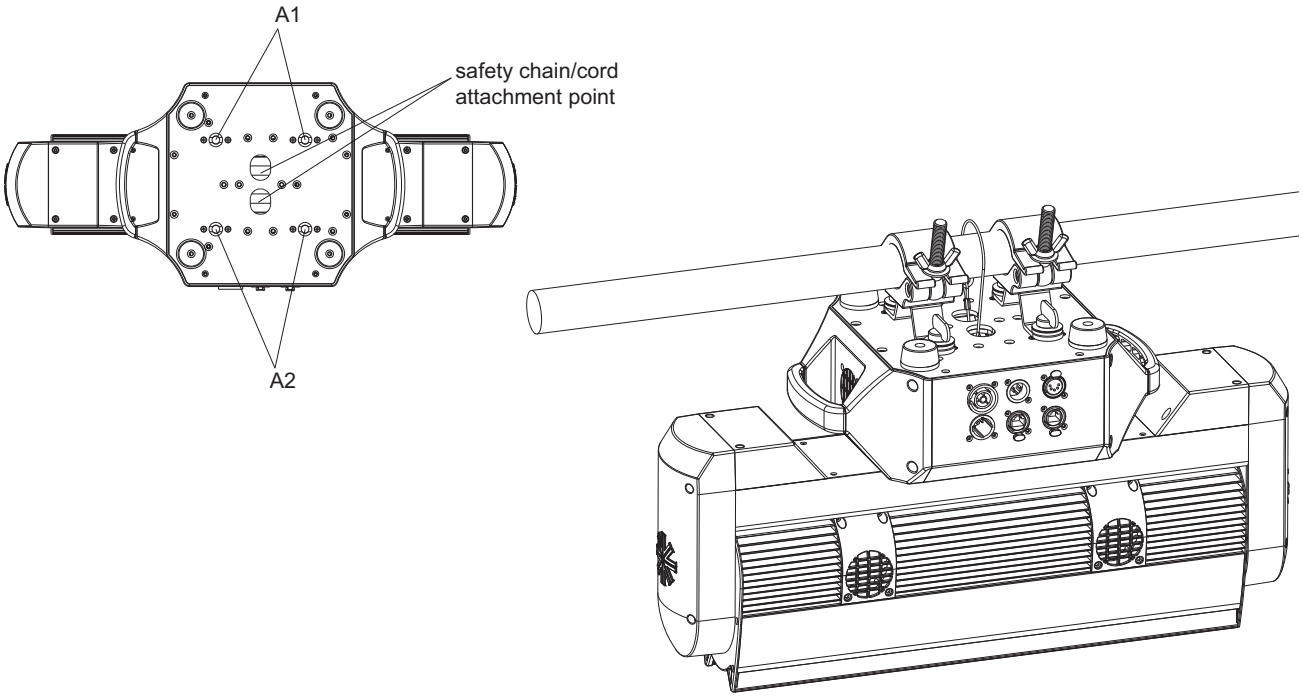


Figure 5: Installing Brackets on Luminaire Enclosure

Installing in Truss:

Step 1. Using two people, lift luminaire into mounting position.

Step 2. Secure in place with truss hooks. 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 by looping it at least once around safety cable anchor point rod (refer to **Figure 5**).

CAUTION: Install a safety chain/cord that can hold at least 10 times the weight of the fixture. Never use the carrying handles for attachment.

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 VL 800 BeamLine luminaire's LCD Display and Menu System provides local control for accessing the following settings:

- Address – to set the DMX address
- Configure – various parameter settings, set luminaire ID
- Fixture – fixture status, recalibrate, reboot, software version, view fixtures hours, etc.
- DMX – change the map, set address
- 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 6**.

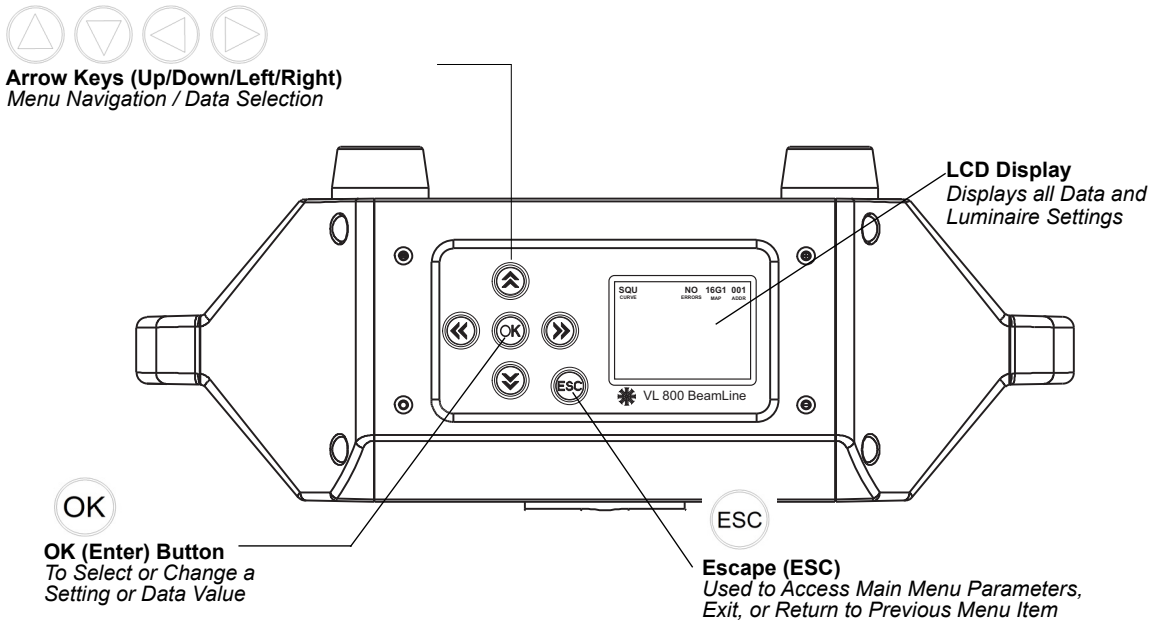


Figure 6: Menu Control

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:

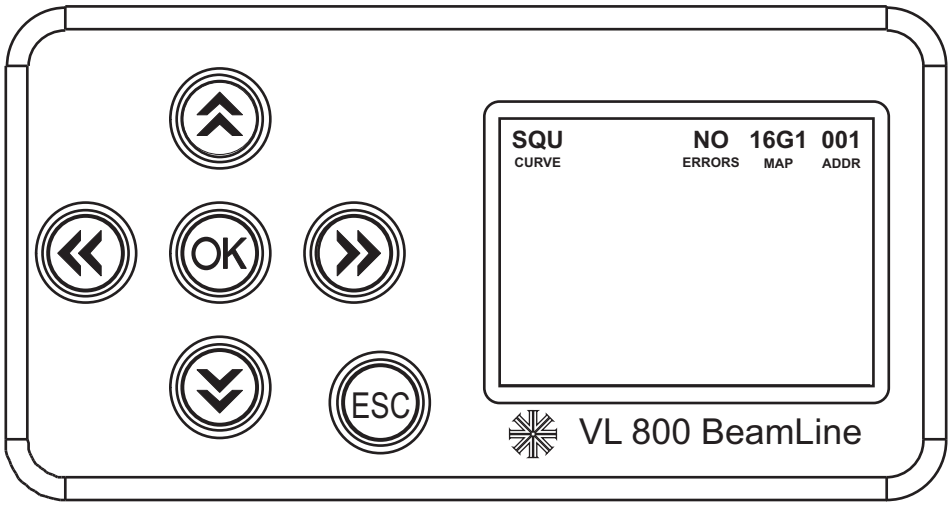
Step 1. Press [ESC].
Step 2. Press [Up] / [Down] arrows until `Address` (DMX Address) appears. Press OK [Enter].
Step 3. Use [Left] and [Right] arrow buttons to scroll through all digits.
Step 4. Once at desired digit, use [Up] and [Down] arrows to change highlighted digit.
Step 5. Once digit is set, 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.

Other LCD Display Features

Status Bar

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

- `CURVE` – Displays dimmer curve type (linear curve/s-curve/square curve/PL curve)
- `ERRORS` – Displays number of Errors or NO for zero errors.
- `MAP` – Displays DMX map. For example, '16E' for Enhanced or '16' for standard. Other DMX map modes are 16-G1, 16-G3, 16-G12, 8-G1, 8-G3, 8-G12, et al.
- `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.



Quick Reference DMX Map

The summary list for the 16-Bit Mode DMX map is as indicated in Table 1-3.

Table 1-3: 16-Bit VL 800 BeamLine Luminaire DMX Channel Summary Listing

1 Group Mode (Default Mode)			
DMX Channel	**Description**	**DMX Channel**	**Description**
1, 2	Pan	12	Intensity Timing
3, 4	Tilt	13	Color Timing
5	Pan Control	14	Focus Timing
6	Tilt Control	15	Control
7, 8	Intensity	16, 17	Red
9	Color Pre-Set	18, 19	Green
10	Strobe Rate	20, 21	Blue
11	Strobe Duration	22, 23	White

3 Group Mode					
DMX Channel	**Description**	**DMX Channel**	**Description**	**DMX Channel**	**Description**
1, 2	Pan	12	Intensity Timing	24, 25	Red (Group 2)
3, 4	Tilt	13	Color Timing	26, 27	Green (Group 2)
5	Pan Control	14	Focus Timing	28, 29	Blue (Group 2)
6	Tilt Control	15	Control	30, 31	White (Group 2)
7, 8	Intensity	16, 17	Red (Group 1)	32, 33	Red (Group 3)
9	Color Pre-Set	18, 19	Green (Group 1)	34, 35	Green (Group 3)
10	Strobe Rate	20, 21	Blue (Group 1)	36, 37	Blue (Group 3)
11	Strobe Duration	22, 23	White (Group 1)	38, 39	White (Group 3)

12 Group Mode							
DMX Channel	**Description**	**DMX Channel**	**Description**	**DMX Channel**	**Description**	**DMX Channel**	**Description**
1, 2	Pan	22, 23	White (Group 1)	52, 53	Blue (Group 5)	82, 83	Green (Group 9)
3, 4	Tilt	24, 25	Red (Group 2)	54, 55	White (Group 5)	84, 85	Blue (Group 9)
5	Pan Control	26, 27	Green (Group 2)	56, 57	Red (Group 6)	86, 87	White (Group 9)
6	Tilt Control	28, 29	Blue (Group 2)	58, 59	Green (Group 6)	88, 89	Red (Group 10)
7, 8	Intensity	30, 31	White (Group 2)	60, 61	Blue (Group 6)	90, 91	Green (Group 10)
9	Color Pre-Set	32, 33	Red (Group 3)	62, 63	White (Group 6)	92, 93	Blue (Group 10)
10	Strobe Rate	34, 35	Green (Group 3)	64, 65	Red (Group 7)	94, 95	White (Group 10)
11	Strobe Duration	36, 37	Blue (Group 3)	66, 67	Green (Group 7)	96, 97	Red (Group 11)
12	Intensity Timing	38, 39	White (Group 3)	68, 69	Blue (Group 7)	98, 99	Green (Group 11)
13	Color Timing	40, 41	Red (Group 4)	70, 71	White (Group 7)	100, 101	Blue (Group 11)
14	Focus Timing	42, 43	Green (Group 4)	72, 73	Red (Group 8)	102, 103	White (Group 11)
15	Control	44., 45	Blue (Group 4)	74, 75	Green (Group 8)	104, 105	Red (Group 12)
16, 17	Red (Group 1)	46, 47	White (Group 4)	76, 77	Blue (Group 8)	106, 107	Green (Group 12)
18, 19	Green (Group 1)	48, 49	Red (Group 5)	78, 79	White (Group 8)	108.109	Blue (Group 12)
20, 21	Blue (Group 1)	50, 51	Green (Group 5)	80, 81	Red (Group 9)	110, 111	White (Group 12)

The summary list for the 8-Bit Mode DMX map is as indicated in Table 1-4.

Table 1-4: 8-Bit VL 800 DMX Channel Summary Listing

1 Group Mode			
DMX Channel	**Description**	**DMX Channel**	**Description**
1, 2	Pan	11	Intensity Timing
3, 4	Tilt	12	Color Timing
5	Pan Control	13	Focus Timing
6	Tilt Control	14	Control
7	Master Intensity - High	15	Red
8	Color Pre-Sets	16	Green
9	Strobe Rate	17	Blue
10	Strobe Duration	18	White

3 Group Mode					
DMX Channel	**Description**	**DMX Channel**	**Description**	**DMX Channel**	**Description**
1, 2	Pan	11	Intensity Timing	19	Red (Group 2)
3, 4	Tilt	12	Color Timing	20	Green (Group 2)
5	Pan Control	13	Focus Timing	21	Blue (Group 2)
6	Tilt Control	14	Control	22	White (Group 2)
7	Master Intensity - High	15	Red (Group 1)	23	Red (Group 3)
8	Color Pre-Sets	16	Green (Group 1)	24	Green (Group 3)
9	Strobe Rate	17	Blue (Group 1)	25	Blue (Group 3)
10	Strobe Duration	18	White (Group 1)	26	White (Group 3)

12 Group Mode							
DMX Channel	**Description**	**DMX Channel**	**Description**	**DMX Channel**	**Description**	**DMX Channel**	**Description**
1, 2	Pan	20	Green (Group 2)	37	Blue (Group 6)	54	White (Group 10)
3, 4	Tilt	21	Blue (Group 2)	38	White (Group 6)	55	Red (Group 11)
5	Pan Control	22	White (Group 2)	39	Red (Group 7)	51	Red (Group 10)
6	Tilt Control	23	Red (Group 3)	40	Green (Group 7)	52	Green (Group 10)
7	Master Intensity - High	24	Green (Group 3)	41	Blue (Group 7)	53	Blue (Group 10)
8	Color Pre-Sets	25	Blue (Group 3)	42	White (Group 7)	54	White (Group 10)
9	Strobe Rate	26	White (Group 3)	43	Red (Group 8)	55	Red (Group 11)
10	Strobe Duration	27	Red (Group 4)	44	Green (Group 8)	56	Green (Group 11)
11	Intensity Timing	28	Green (Group 4)	45	Blue (Group 8)	57	Blue (Group 11)
12	Color Timing	29	Blue (Group 4)	46	White (Group 8)	58	White (Group 11)
13	Focus Timing	30	White (Group 4)	47	Red (Group 9)	59	Red (Group 12)
14	Control	31	Red (Group 5)	48	Green (Group 9)	60	Green (Group 12)
15	Red (Group 1)	32	Green (Group 5)	49	Blue (Group 9)	61	Blue (Group 12)
16	Green (Group 1)	33	Blue (Group 5)	50	White (Group 9)	62	White (Group 12)
17	Blue (Group 1)	34	White (Group 5)	51	Red (Group 10)		
18	White (Group 1)	35	Red (Group 6)	52	Green (Group 10)		
19	Red (Group 2)	36	Green (Group 6)	53	Blue (Group 10)		

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