

VARINE VL3600 PROFILE IP VL3600 LT PROFILE IP

INTRODUCTION

OUR GOAL

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.

TECHNICAL SUPPORT

Our Service and Support team is tasked with online and field support, repair, demo, commissioning, maintenance contracts, and technical training for fixtures and systems. In addition, this team plays a large role in Systems sales, responsible for administering final commissioning, record-keeping, and organizing services. Refer to the back cover of this user manual for contacts in your region or visit **WWW.VARI-LITE.COM/SUPPORT**.

CUSTOMER SERVICE

Customer Service is responsible for boxed goods and spare parts quotations, order entry and fulfilment, project delivery, lead times, and general account management. They also manage all after sales warranty fulfilment, RGA, and repairs invoicing in tandem with our After Sales Service & Support team. Visit our website to find a customer service agent in your region.

ADDITIONAL DOCUMENTATION

Additional product documentation, including DMX maps, software, and photometric reports, is available for download on our website.

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 Website: www.usitt.org

ABOUT THIS DOCUMENT

Read all instructions before installing or using this product. Retain this user manual for future reference. Additional product information and descriptions may be found on the product data sheet(s) which can be downloaded from the Vari-Lite website at WWW.VARI-LITE.COM.

This user manual provides necessary information regarding safety, installation, operation and routine maintenance for Vari-Lite VL3600 Profile IP Series. 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 user manual covers the following model(s):

- VL3600 Profile IP; order code(s) 74817-001, 74817-101, 74817-011, 74817-111
- VL3600 LT Profile IP; order code(s) 74817-050, 74817-150, 74817-051, 74817-151

SAFETY WARNINGS AND NOTICES

Read this user manual in full before attempting to install, operate or maintain the fixture to which it relates. This user manual is intended to provide general guidance to such suitably qualified personnel. Installation and operation of the fixture are to be performed by qualified personnel only.

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

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

- Fixtures must be installed per the IP rating as marked on the unit. Failure to follow those markings may cause an unsafe condition and void warranty.
- Use safety tether when mounting.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- Not for residential use. Do not use this equipment for other than intended use.
- Note distance requirement(s) from combustible materials or illuminated objects. Do not mount near gas or electric heaters.
- Install only in locations with adequate ventilation. Ensure sure that ventilation slots are not blocked.
- Ensure that the voltage and frequency of the power supply match the power requirements of the fixture.
- The fixture must be earthed/grounded to the appropriate conductor.
- Do not operate fixture outside the specified ambient temperature range.
- Do not connect the fixture to any dimmer pack.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition and void warranty.
- Refer service to qualified personnel. This fixture contains no user serviceable parts.
- Prior to first use, carefully inspect fixture to ensure no damage has occurred during shipping.
- Materials used in the manufacturing process can cause strong odors when the product is new. These odors dissipate over time.
- Prior to each use, carefully inspect power cables and replace any damaged cables.
- Exterior surfaces of the luminaire will be hot during operation. Take appropriate precautions.
- Continuous use of the fixture may shorten the lifespan. Power down the fixture when not in use.
- Do not cycle power on and off repeatedly. Disconnect mains power if the fixture is not used for an extended period.
- Clean fixtures regularly, particularly when working in a dusty environment.
- Never touch power cables or wires while the fixture is powered on.
- Avoid entangling power wires with other cables.
- In the event of a serious operating problem, immediately discontinue using the fixture.
- 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.
- Original packing materials can be reused for transporting the fixture.
- Do not look directly at the LED light beam while the fixture is on.
- 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.
- The light source contained in this luminaire shall only be replaced by the manufacturer or service agent or similarly qualified person.

SAVE THESE INSTRUCTIONS.

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. Caution Against Direct Sunlight Through Front Lens Assembly

CAUTION AGAINST DIRECT SUNLIGHT THROUGH FRONT LENS ASSEMBLY

The design and nature of the front lens assembly in Vari-Lite LLC luminaires is to efficiently focus the light energy from the luminaire's lamp for maximum light output.

- When the front lens assembly is exposed to direct sunlight or intense light from neighboring fixtures, the lens will collect and intensify this light and focus it back into the fixture. Intense sunlight or beams from other fixtures can cause damage to internal assemblies contained within the fixture.
- When fixture is not in use and direct sunlight or other intense light is present, position luminaires so their front lens assembly it not directly exposed to the light source.

CAUTION AGAINST DAMAGED LENSES, SHEILDS OR SCREENS

• Replace shields, lenses or ultraviolet screens if they have become visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches



CAUTION AGAINST POWERING LUMINAIRES FROM DIMMER CIRCUITS

It is not recommended to power any Vari-Lite LLC 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 eventually results in power problems, luminaire mis-operation and/or failure.

- When using a power distribution rack, do not use dimmer or non-dim modules to power any Vari-Lite LLC luminaire. Damage to the luminaire can occur.
- Using a dimmer or non-dim module to power your Vari-Lite LLC luminaire will void your luminaire's warranty.

CAUTION AGAINST THE USE OF THIRD PARTY PARTS OR ACCESSORIES

- Heat and heat distribution are important factors when operating Vari-Lite LLC luminaires. Vari-Lite LLC luminaires are designed to dissipate heat efficiently and safely. Any blockages or obstructions, such as aftermarket baffles, covers, enclosures, etc. can interrupt the luminaire's ability to dissipate heat properly and can damage the luminaire.
- Vari-Lite LLC cannot be responsible for issues arising from non-approved parts and accessories installed on or used with any Vari-Lite LLC product. Customers of such products should contact the manufacturer directly for assistance and support.

TRANSPORTING LUMINAIRES

When shipping or transporting luminaires, Vari-Lite LLC recommends that the luminaire(s) be sufficiently protected against any (including, but not limited to) shock, vibration, drops, jarring, exposure to the environment, etc.

Failure to sufficiently protect any Vari-Lite LLC luminaire during shipping or transportation will result in damage and void the luminaire's warranty. Vari-Lite LLC will not be responsible for any shipping damage or breakage of any product under any circumstances. Vari-Lite LLC will not be responsible for any third party case manufacturer's cases.

NOTE: As with all automated luminaires, proper handling and suitable protective shipping cases should be used when transporting fixtures to reduce the risk of damage.

TRANSPORTATION AND SHIPPING CASE REQUIREMENTS

Cases to transport Vari-Lite LLC luminaires should meet the following loading requirements:

- Luminaire head, yoke, and enclosure sub-assemblies shall be equally supported and constrained where no one sub-assembly (head, yoke, or enclosure) fully supports the entire mass of the luminaire.
- The interior of the case shall be of high quality and uniform density foam. The foam shall be of the same type and density throughout as to equally and uniformly support loading at every contact surface.
- The case shall, when laid on any of its six (6) surfaces, maintain the loading requirements outlined above.
- All cases not meeting the aforementioned loading requirements, with wheels, shall have markings on the exterior of the case that the unit is to be transported on it wheels only (e.g. "Case must be transported and remain [at all times] on its wheels").

COMPLIANCE NOTICE



FCC DECLARATION OF CONFORMITY

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 guide-lines, 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.

EU DECLARATION OF CONFORMITY We, Vari-Lite LLC., 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

HOW TO OBTAIN WARRANTY SERVICE

A copy of the Limited Warranty card was included in the shipping package for this product.

To obtain warranty service, please contact customer service at 1-214-647-7880, or **entertainment.service signify.com** and request a Return Material Authorization (RMA) for warranty service. You will need to provide the model and serial number of the item being returned, a description of the problem or failure and the name of the registered user or organization. If available, you should have your sales invoice to establish the date of sale as the beginning of the warranty period. Once you obtain the RMA, pack the unit in a secure shipping container or in its original packing box. Be sure to clearly indicate the RMA number on all packing lists, correspondence, and shipping labels. If available, please include a copy of your invoice (as proof of purchase) in the shipping container.

With the RMA number written legibly on or near the shipping address label, return the unit, freight prepaid, to:

Vari-Lite LLC Attention: Warranty Service (RMA# _____) 10911 Petal Street Dallas, Texas 75238 USA

As stated in the warranty, it is required that the shipment be insured and FOB our service center.

IMPORTANT! When returning products to Vari-Lite for repairs (warranty or out-of-warranty) from a country other than the USA, "Vari-Lite LLC", must appear in the address block as the Importer of Record (IOR) on all shipping documentation, Commercial Invoices, etc. This must be done in order to clear customs in a timely manner and prevent returns.

1 DESCRIPTION

FEATURES - VL3600 PROFILE IP

- Large-scale profile luminaire with 180mm front lens and 45,000 lumens of output Ideal for key or effect lighting in the largest of productions.
- IP65 outdoor rating and market leading size-to-weight ratio Outstanding performance no matter the weather, with weight and size closer to a 1000W IP20 fixture than any other IP65 fixture in its class.
- CMY+CTO graduated color wheel mixing system Provides a wide color mixing spectrum with a homogenization of color that completely fills the front lens at all times, improving direct view applications on stage or on camera.
- Wire Free Data Connection Featuring the latest Lumen Radio CRMX TimoTwo[™] is fitted as standard. Allowing for cable-free data connection of your DMX (RDM) 512 data to the fixture. The Dynamic nature of the TimoTwo[™] ensures an improved cognitive coexistence of wireless data, third-party lighting control support, and RDM control.
- •Touring and Installations versions available. Touring version fitted with entertainment industry standard chassis mounted IP65 Power and DMX connectors. Installation version fitted with captive Power and DMX terminated to standard entertainment industry IP65 inline connectors.

- V*Track Calibration System* Size and power with none of the unwanted movement. Limit movement during calibration and reduce start up time. Reduce risk of the fixture hitting set objects or shaking the rig. *Patent Pending
- Color quality enhancement control Dedicated color enhancement wheel, which include CRI boost filter and a selection of minus green.
- Full set of fixture features to meet the needs of the most demanding show – Two Gobo wheels with interchanging gobos, four blade full wipe framing system with 120° of rotation, iris and dual prism system which includes both an effects and scenic prism.
- Exclusive VL*FX animation wheel system Gives users access to 3 different animation effects wheels that can create dynamic projected and mid-air effects on their own or layered with gobos and prisms.

For detailed product information, please refer to the Product Guide at https://www.vari-lite.com/global/products/vl3600profile-ip

FEATURES - VL3600 LT PROFILE IP

- Long throw production profile luminaire with high levels of illumination (>50,000 Lux @ 10m / 4722fc @ 32ft.) – highoutput key lighting in the largest of venues.
- Optimized long throw optical system offering a 3° to 42° zoom range tailored zoom for key lighting at distance.
- Large 220mm front lens and matched feature set to the industry-leading VL3600 Profile IP – long-distance key lighting or high-impact effect lighting with consistent look and feel
- IP65 outdoor rating outstanding performance no matter the weather.
- CMY+CTO graduated color wheel mixing system Provides a wide color mixing spectrum with a homogenization of color that completely fills the front lens at all times.
- Color quality enhancement control dedicated color enhancement wheel, which include CRI boost filter and a selection of minus green.
- Exclusive VL*FX animation wheel system Give users access to 3 different animation effects wheels that can create dynamic projected and mid-air effects on their own or layered with gobos and prisms.

- V*Track Calibration* System Size and power with none of the unwanted movement. Limit movement during calibration and reduce start up time. Reduce risk of the fixture hitting set objects or shaking the rig. *Patent Pending
- Wireless DMX using Lumen Radio CRMX TimoTwo™ cable-free connection of your DMX / RDM data to the fixture fitted as standard. Dynamic wireless system that ensures an improved cognitive coexistence across wireless networks.
- Full set of fixture features to meet the needs of the most demanding show – Two Gobo wheels with interchanging gobos, four blade full wipe framing system with 120° of rotation, Iris and dual prism system which includes both an effects and scenic prism.
- Touring and Installations versions available. Touring version with chassis mounted IP65 Power and DMX connectors.
 Installation version fitted with IP65 inline connectors.

For detailed product information, please refer to the Product Guide at https://www.vari-lite.com/global/products/vl3600-ltprofile-ip

Download the product datasheet(s) from the Vari-Lite website at **WWW.VARI-LITE.COM** for the full technical specifications.

2 INSTALLATION & SETUP

POWER AND DATA CABLING REQUIREMENTS

CONNECTING POWER

This fixture requires standard AC power distribution from 120-240VAC, 50/60 Hz. Current required depends on the AC supply voltage and product model

NOTE: The mating True1 IP 65 compatible connector is supplied; however, you will need to purchase or construct a cable appropriate for your application.

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



For single-phase power from 120-240 volts RMS:

	CONNEG
G	AC neutra
≻ /	AC line
<u> </u>	Ground (e

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

CURRENT VERSUS 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.

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.

TABLE 1. CURRENT VS. VOLTAGE

AC VOLTAGE	VL3600 IP PROFILE	VL3600 LT IP PROFILE
120V/60Hz	12.66A	13.47A
180V/60Hz	8.22A	9.21A
208V/60Hz	7.12A	7.76A
230V/50Hz	6.32A	7.31A
240V/50Hz	6.12A	7.01A

DATA CABLE - DMX512/RDM

The luminaire is equipped with two, 5-pin XLR connectors for DATA IN and DATA THRU (out) applications. DATA IN requires a 5-pin, female XLR connector and DATA THRU requires a 5-pin, male XLR connector. When purchasing or constructing data cable, it is important that not only the correct cable type be used, but also quality cable to ensure a reliable DMX512 system. All cable must be IP65 rated or higher. Your cabling should meet the following USITT DMX specification requirements:

- Suitable for use with EIA485 (RS485) operation at 250k baud
- MUST BE IP65 RATED OR HIGHER see below
- Characteristic impedance 85-150 ohms, nominally 120 ohms
- Low capacitance
- Two twisted pairs
- Foil and braid shielded
- 24 AWG min. gauge for runs up to 1000 feet (300m)
- 22 AWG min. gauge for runs up to 1640 feet (500m)

NOTE: Microphone type cable and other general purpose, two-core audio or signal cable are not suitable for use with DMX512.

Refer to the USITT Recommended Practice for DMX512 guide for additional information regarding DMX512 systems.

The XLR 5-pin connectors should be wired as follows:

RECOMMENDED CABLE TYPES/MANUFACTURERS

Pin/Wire Code to XLR Connectors							
Data Thru Cable Pinout	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Data In Cable Pinout	
$1 \underbrace{\bullet}_{2} \underbrace{\bullet}_{3} \underbrace{\bullet}_{4} \underbrace{\bullet}_{5}$	Foil & Braided Shield	1st conductor of 1st twisted pair	2nd conductor of 1st twisted pair	1st conductor of 2nd twisted pair	2nd conductor of 2nd twisted pair	$5 \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \\ 4 \bigcirc \bigcirc \bigcirc \bigcirc 2 \\ 3 \end{bmatrix} 1$	
Male Conn.		Data (-)	Data (+)	Data (-)	Data (+)	Female Conn.	

These are only a few of the suitable cable types. Any quality EIA485, twisted pair, 120 ohm, shielded cable will also work. Refer to **TABLE 2**.

IP65 CONNECTORS

IP65 rated connectors can include, but are not limited to

- NEUTRIK TOP Series
- Seetronic W Series

NOTE: Check cable o-ring and rubber seals prior to use. If damaged or missing required lubricant then the cable should not be used.

TABLE 2. RECOMMENDED CABLES

TYPE	PAIRS	ZΩ*	JACKET	AWG	USE	TEMP (°F)	TEMP (°C)
BELDEN CABLES							
1215A	2	150	PVC	26	IBM Type 6 Office cable	75	24
1269A	2	100	PTFE	22 (solid)	High Temp, Plenum cable	200	93
8102	2	100	PVC	24	UL2919	80	27
8132	2	120	PVC	28	UL2919	80	27
8162	2	100	PVC	24	UL2493	60	16
82729	2	100	PTFE	24	High Temp, Plenum cable	200	93
88102	2	100	PTFE	24	High Temp, Plenum cable	200	93
89696	2	100	PTFE	22	High Temp, Plenum cable	200	93
89729	2	100	PTFE	24	High Temp, Plenum cable	200	93
89855	2	100	PTFE	22	High Temp, Plenum cable	200	93
9729	2	100	PVC	24	UL2493	60	16
9804	2	100	PVC	28	UL2960	60	16
9829	2	100	PVC	24	UL2919	80	27
9842	2	120	PVC	24	UL2919	80	27
PROPEX CABLES							
PC224P	2	110	Polyurethane	22	Heavy Duty and Portable	105	41
PC224T	2	110	PVC	22	UL2464	105	41
PC226T	3	110	PVC	22	UL2464		

* Characteristic impedance

TERMINATION CONNECTOR

A XLR termination connector is required at the last luminaire (or "far end of the line") to prevent signal reflections. Signal reflections may cancel out the signal at certain line lengths, resulting in errors. The terminator is also necessary for software downloads and running tests on multiple luminaires. To construct your own connector, you will need the following components:



- 5-pin, male XLR connector.
- Two 1/4W 5% 120 ohm resistors.

NOTE: A male termination connector is available as an accessory from Vari-Lite.

DATA CABLES - NETWORK/RJ45

The luminaire is equipped with two RJ45 Ethercon compatable connectors. This pair of connectors include a passive pass-thru that will allow signal to pass even if one unit is powered down. Cables should be Cat5, Cat5e or Cat6 and should be equipped with IP65 or higher rated etherCON compatible connectors.





TABLE 3.

INCLUDED ITEMS



HANGING THE FIXTURE

The VL3600 Profile IP and VL3600 LT Profile IP can be hung horizontally or 45° 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.

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.





TRUSS HOOK HARDWARE (BY OTHERS)

When installing hanging hooks on mounting brackets, Vari-Lite strongly recommends the use of a Belleville washer when installing a truss hook or claw. The Belleville washer's size should be approximately 13-25mm (0.5-1.0 in) diameter. Belleville washers are available in various thicknesses and any of the following thicknesses are acceptable for the application described: 0.9.mm, 1.0mm, 1.3mm, 1.9mm (0.035-inch, 0.043-inch, 0.050-inch, 0.073-inch).

The washer serves two purposes:

- **To spread out the load.** When a washer IS NOT used, the bolt head (without a washer) concentrates the load in a smaller area, creating focused stress on the steel bracket, making premature failure possible. A steel washer is recommended to spread this load over a larger surface area.
- **To keep the bolt in place.** The recommended Belleville washer maintains tension in the bolted assembly and prevents it from vibrating loose.

If a Belleville washer is not available, a regular flat washer measuring in diameter of 25mm (1 inch) minimum can be used in conjunction with a suitable split lock washer situated between the bolt head and flat washer.

- Step 2. Determine required configuration of bracket installation. Brackets may be installed in many different orientations.
- 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.

WARNING: Ensure that the bracket locking mechanism is fully seated after the bracket is installed on the luminaire.

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:
 - 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.
- Step 4. Make sure tilt and pan locks are disengaged so luminaire moves freely.
- Step 5. Connect power and data cables.

When the fixture is mounted in a side hanging orientation, you must enable side hang in the menu for proper operation. To enable side hang, press MENU. Select CONFIG > MOVEMENT > SIDE HANG > ENABLE.



FLOOR MOUNTING

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, unin-terrupted airflow for cooling and movement.

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.)
- 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.



POWERING UP

POWER-UP PROCEDURE

When AC power is applied, the luminaire immediately begins a calibration sequence. Pan and Tilt will either move direct to the home position or to the current DMX values depending on menu settings. The internal color and beam mechanisms will also move through a full range of motion. After calibration, the luminaire head will either stop at its "home" position (which positions the pan axis at mid-rotation and the head parallel to the yoke with the lens pointing away from the luminaire enclosure) or move to its current DMX-defined position if DMX data is present. All internal mechanisms also move to their "home" or DMX-defined positions.

CAUTION: Before applying power, be sure the luminaire is hung (or positioned), and the pan and tilt locks are disengaged, so that the head and yoke can move freely without restriction.

To power up:

- Step 1. At each luminaire, apply power connecting the power cable to the unit.
- Step 2. Luminaire automatically steps through calibration and stops at "home" position (only if DMX is not present).

ADDRESSING

PROGRAM STARTING ADDRESS

The address setting for DMX console controlled systems is entered using the Menu Display. The luminaire retains the DMX address even if power is removed.

DMX ADDRESS

To set, edit, and save a DMX address:

- Step 1. Press [MENU].
- Step 2. Press [UP] / [DOWN] arrows until Address appears. Press [ENTER].
- Step 3. Use [UP] and [DOWN] arrow buttons to scroll through all available starting address.
- Step 4. Once correct starting address is selected, press [ENTER] to set..

NOTE: The luminaire has an auto lock function on the Menu Display. To unlock, while touching the ENTER button, touch UP -> DOWN -> UP -> DOWN if unit is sitting. If hanging, while touching the ENTER button, touch DOWN -> UP -> DOWN -> UP.

PROGRAM STARTING ADDRESS WITHOUT CALIBRATION

It is possible to bypass the calibration sequence and go directly to the Menu Display programming in order to pre-program an address setting.

To program starting address without calibrating luminaire:

- Power the luminaire on. As soon as the display says 'Calibrating' touch and hold the MENU button.
- After a few seconds, release the menu button and then program address as in Program Starting Address above.





Program starting address in Battery Mode:

• To activate menu in Battery Mode when the fixture is not connected to a power source, touch and hold the MENU button, and at same time press and hold the battery enable button on the rear. Once the screen boots you can release both and access menu normally. Pressing the MENU button from the top level or home screen will shutoff display.



TRANSPORTING

When shipping or transporting luminaires, Vari-Lite recommends that the luminaire(s) be sufficiently protected against any (including, but not limited to) shock, vibration, drops, jarring, exposure to the environment, etc.

Failure to sufficiently protect any Vari-Lite luminaire during shipping or transportation will result in damage and void the luminaire's warranty. Vari-Lite will not be responsible for any shipping damage or breakage of any product under any circumstances. Vari-Lite will not be responsible for any third-party case manufacturer's cases.

NOTE: As with all automated luminaires, proper handling and suitable protective shipping cases should be used when transporting fixtures to reduce the risk of damage. For more information, please refer to Vari-Lite technical notice (TN-235) "Transportation and Shipping Case Requirements" in the "Support" area of the Vari-Lite web site.

TRANSPORTATION AND SHIPPING CASE REQUIREMENTS

Cases to transport Vari-Lite luminaires should meet the following loading requirements:

- Luminaire head, yoke, and enclosure sub-assemblies shall be equally supported and constrained where no one sub-assembly (head, yoke, or enclosure) fully supports the entire mass of the luminaire.
- The interior of the case shall be of high quality and uniform density foam. The foam shall be of the same type and density throughout as to equally and uniformly support loading at every contact surface.
- The case shall, when laid on any of its six (6) surfaces, maintain the loading requirements outlined above.
- If using the provided SIP, ensure it fits securely into the case.
- All cases not meeting the aforementioned loading requirements, with wheels, shall have markings on the exterior of the case that the unit is to be transported on it wheels only (e.g. "Case must be transported and remain [at all times] on its wheels").

3 OPERATION

COLOR WHEEL

The VL3600 Profile IP and VL3600 LT Profile IP each contains two fixed color wheels. One holds the normal fixed colors and the second the color adjustments (CRI Booster, 1/4 and 1/2 Minus Green and CTB).

NOTE: Fixed colors can only be changed by an authorized service center.



SLOT	DMX RANGE	CENTER
1	32 - 63	48
2	64 - 95	80
3	96 - 127	112
4	128 - 159	144
5	160 - 191	176
6	192 - 223	208



SLOT	DMX RANGE
1	31 - 60
2	61 - 90
3	91 - 120
4	121 - 180

VL*FX WHEEL

The effects wheel offers 3 images.

NOTE: VL*FX Wheel images can only be changed by an authorized service center.



1. Amoeboid Chamber 2. Dichrofusion

3. Concurrent



GOBO WHEEL

9. Blobs

The VL3600 Profile IP and VL3600 LT Profile IP accommodates glass gobos. There are two wheels, with Gobo Wheel 1 offering 10 fixed gobos plus one open position and Gobo Wheel 2 offering 7 rotatable, indexable gobos plus one open position.



CORO		
SLOT	DMX RANGE	CENTER OF IMAGE
1	21 - 41	31
2	42 - 62	52
3	63 - 83	73
4	84 - 104	94
5	105 - 125	115
6	126 - 146	136
7	147 - 167	157
8	168 - 188	178
9	189 - 209	199
10	210 - 230	220

10. Pipes Breakup

CAUTION: VL3600 Profile IP and VL3600 LT Profile IP accepts glass gobos only. Use of metal gobos in these luminaires may damage gobo assembly and will void the luminaire warranty.

Gobo Wheel 2



1. Night Sky



2. New Twirler







5. Super Alpha Rays

6. Honeycomb Reverse

7. On the Rocks

GOBO	INDEX		ROTATION		MEGA STEPPING	
SLOT	DMX RANGE	CENTER OF IMAGE	DMX RANGE	CENTER OF IMAGE	DMX RANGE	CENTER OF IMAGE
1	6 - 10	8	46 - 50	48	86 - 90	88
2	11 - 15	13	51 - 55	53	91 - 95	93
3	16 - 20	18	56 - 60	58	96 - 100	98
4	21 - 25	23	61 - 65	63	101 - 105	103
5	26 - 30	28	66 - 70	68	106 - 110	108
6	31 - 35	33	71 - 75	73	111 - 115	113
7	36 - 40	38	76 - 80	78	116 - 120	118

GOBO	MATERIAL	REFLECTION	THICKNESS	OUTER SIZE	IMAGE SIZE	CARRIER
Rotating Gobo Black and White, VL3600 Profile IP	Corning glass with aluminum & titanium film	>88%	1.1mm*	29.8mm	24mm	Yes
Rotating Gobo Black and White, VL3600 LT Profile IP	Corning glass with aluminum & titanium film	>92%	1.1mm*	29.8mm	24mm	Yes
Rotating Gobo On the Rocks	high-temp glass	0%	2.5mm	29.8mm	22mm	Yes
Fixed Gobo Black and White, VL3600 Profile IP	Corning glass with aluminum & titanium film	>88%	1.1mm*	29.8mm	24mm	Yes
Fixed Gobo Black and White, VL3600 LT Profile IP	Corning glass with aluminum & titanium film	>92%	1.1mm*	29.8mm	24mm	Yes
VLFX Black and White	Boro-3	>95%	1.1mm	64.3mm	62mm	No
VLFX Color	Corning glass with normal film	0%	1.6mm	64.3mm	62mm	No

*Custom glass gobos thicker than 1.1mm should be installed into the carrier and secured in place with a high quality clear silicon RTV in lieu of the stock conical spring. Vari-Lite recommends 'Loctite Brand 5083 Translucent Dual-Cure Silicon Adhesive'. The maximum height of the Rotating Gobo Carrier is 4.8mm, and the maximum height for the Fixed Gobo Carrier is 2.8mm. The specified maximum height shall include the gobo and the silicon RTV

Compatible carriers for gobos are shown below.



Rotate Gobo Carrier with Magnet 3033002536



Rotate Gobo Carrier 3033002535

Fixed Gobo Carrier 3033002537

REMOVE AND INSTALL LUMINAIRE COVERS

WARNING: This procedure should only be performed by authorized service personnel. Refer to the VL3600 Profile IP & VL3600 LT Profile IP Service Manuals for additional details.

VL3600 Profile IP Series luminaires require special attention when the removal of any covers is required. The seals must be inspected, and care taken when replacing the covers. Both VL3600 Profile IP and VL3600 LT Profile IP are same.

WARNING: Failure to follow instructions may cause damage to unit and void warranty. Only authorized sevice personnel should attempt.

To remove head covers:

Step 1. Remove power from luminaire.

Step 2. Using a Torx T-20 driver (one is supplied with each luminaire) remove the 14 x M4x12mm SHCP T20 screws at each cover. There is no need to remove the waterproof silicon gasket.

NOTE: There is a tether connecting the covers to the luminaire. If removing, use caution when re-attaching to avoid damage to threads.

To replace head covers (See Fig below):

- Step 1. If gasket has been removed, inspect the groove and remove any residue. Place the flat side of the IP sealing gasket inward and the rounded side outward.
- Step 2. Align the gasket with the groove and install it, again with the flat side in the groove. The rounded side should protrude out of the groove about 1mm.
- Step 3. Install 1 x M4x12mm SHCP T20 screw into position 9 two-thirds of the length.
- Step 4. Install 2 xM4x12mm SHCP T20 screws into positions 8 and 10 two-thirds of the length.
- Step 5. Install 1 x M4x12mm SHCP T20 screw into position 2 two-thirds of the length.
- Step 6. Install 2 x M4x12mm SHCP T20 screws into positions 1 and 3 two-thirds of the length.
- Step 7. Install the remaining M4x12mm SHCP T20 screws into positions 4,5,6,7,11,12,13 and 14 two-thirds of the length.
- Step 8. Tighten positions 7 and 14 to 20 kgf.cm (1.96 Nm / 1.45 lbf.ft)
- Step 9. Tighten positions 4 and 11 to 20 kgf.cm (1.96 Nm / 1.45 lbf.ft)
- Step 10. Tighten all remaining positions 1,2,3,5,6,8,9,10,12,13 to 20 kgf.cm (1.96 Nm / 1.45 lbf.ft)

WARNING: If the gasket has any damage or 'dents' it must be replaced.



Flat side

Rounded side





REPLACE A ROTATING GOBO

To replace a rotating gobo (see below):

- Step 1. Remove power from luminaire.
- Step 2. Remove top and bottom head covers as described on previous page.
- Step 3. Remove the 4 screws and disconnect the DB Plug at A.
- Step 4. On the other side, remove the 2 screws at B and remove the gobo/color assembly.



Step 5. Loosen the screws at C and slide motors towards wheel. Remove screw at D and remove gobo wheel.Step 6. Press down on the edge of the rotating gobo carrier you wish to remove and slowly pull out.





- Step 7. Remove the Spring at E with an appropriate tool like tweezers. There is some silicon RTV holding the gobo/spring into the carrier, carefully remove it before removing the spring to avoid damage to the gobo.
- Step 8. Do not touch the surface of the gobo with bare fingers (wear gloves). Put the gobo and the spring back into the carrier, aligning the mark on the gobo with the mark on the carrier as shown in F. The coated side should face upwards. Apply a small amount of silicon RTV to hold the gobo in place.
- Step 9. Ensure the sun gear on the gobo wheel is oriented so that all 7 timing marks on the sun gear align with the timing marks on the gobos (G below). If they do not, turn the sun gear until all gobos are aligned.

NOTE: Take care when removing wheels as there are spacers present. Ensure you keep track of these and replace in the proper orientation/position.



- Step 10. Insert the gobo holder back into the rotating gobo wheel ensuring the timing mark on the gobo carrier aligns with the timing mark on the sun gear.
- Step 11. Replace the gobo wheel on the bulkhead and re-install in fixture. Follow instructions on replacing the covers.
- Step 12. Power and test.

REPLACE A FIXED GOBO



NOTE: Position 5 carrier requires a magnet to calibrate the gobo index/rotation. Always ensure the carrier in that position has a magnet installed.

To replace a fixed gobo (see below):

- Step 1. Remove power from luminaire.
- Step 2. Remove top and bottom covers as described above.
- Step 3. Remove the gobo/color assembly as described above.
- Step 4. Gently lift the fixed gobo carrier you wish to remove from the edge of the gobo wheel and slowly pull it out.
- Step 5. Remove the Spring at C with an appropriate tool like tweezers. There is some silicon RTV holding the gobo/spring into the carrier, carefully remove it before removing the spring to avoid damage to the gobo.



- Step 6. Do not touch the surface of the gobo with bare fingers (wear gloves). Put the gobo and the spring back into the carrier, aligning the mark on the gobo with the mark on the carrier as shown in D. The coated side should face upwards. Apply a small amount of silicon RTV to hold the gobo in place.
- Step 7. Insert the fixed gobo carrier back into the fixed gobo wheel. Re-install the bulkhead into the fixture. Follow the instructions to re-install the covers.
- Step 8. Power and test.



DMX OPERATION

DMX MAPS

The 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.

DMX CHANNEL					DESCRIPTION
16-BIT	16-BIT EXTENDED (DEFAULT)				
1	1	Intensity High	0	0-65535	16-Bit control of Dimming
2	2	Intensity Low			
3	3	Pan High	70767	0-65575	540° Total Dan Potation
4	4	Pan Low	32707	0-05555	
5	5	Tilt High	70767	0 65575	
6	6	Tilt Low	32767	0-05535	
7	7	Focus High	70707	0.05575	Focus control
8	8	Focus Low	32767	0-05535	Default value 50% Focus range
9	9	Zoom High	70767	0.05575	Zoom control
10	10	Zoom Low	32/6/	0-65535	Default value 50% zoom range
11	11	Cyan	0	0 - 255	Cyan Color Control 0-100% saturation
12	12	Yellow	0	0 - 255	Yellow Color Control 0-100% saturation
13	13	Magenta	0	0 - 255	Magenta Color Control 0-100% saturation
14	14	CTO Wheel	0	0 - 255	CTO Color Control 0-100% saturation
	15	Color Adjustment (Color Wheel 2)	0	0 - 255	8-bit control of Color Adjustment (Color Wheel 2) .
				0 - 30	Open
				31 - 60	CRI Booster
15				61 - 90	1/2 Minus Green
				91-120	1/4 Minus Green
				121180	СТВ
				181-255	Reserved
				0 - 255	8-bit control of Color Wheel. (spin speed slow to fast from control channel) OPEN (centered at 0)
				0-31	Open
				32-63	Red Center - 48
16	16	Color Wheel 1	0	64-95	Dark Blue Center - 80
10	10	(Color Wheel)	0	96-127	Yellow Center - 112
				128-159	Kelly Green Center - 144
				160-191	Amber Center - 176
				192-223	Congo Blue Center - 208
				224-255	Open

DMX CHANNEL					
16-BIT	16-BIT EXTENDED (DEFAULT)	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
				0 - 255	
				0 - 5	Linear Movement using shortest (quickest) path.
				6 - 10	Linear Movement using normal (longest) path.
				11 - 15	Wheel Spin CW (Forward)
		Color Wheel 1		16 - 20	Wheel Spin STOP
17	17	Control	0	21 - 25	Wheel Spin CCW (Reverse)
				26 - 56	Color Shake Quickest Path (Slow to Fast) For fastest shake set color timing to 0
				57 - 87	Color Shake Normal Path (Slow to Fast) For fastest shake set color timing to 0
				88 - 255	Reserved Values
				0-255	8-bit control of Gobo Wheel See channel 19 for control options
	18			0 - 20	Open - No Gobo
				21 - 41	Gobo 1 Leafy Breakup
		Gobo Wheel 1 (Fixed)		42 - 62	Gobo 2 Medium Circle
			Ο	63 - 83	Gobo 3 Square Pile
				84 - 104	Gobo 4 Confusion
18				105 - 125	Gobo 5 Dust
				126 - 146	Gobo 6 Neurons
				147 - 167	Gobo 7 Radial Breakup
				168 - 188	Gobo 8 Staples
				189 - 209	Gobo 9 Blobs
				210 - 230	Gobo 10 Pipes Breakup
				231 - 255	Open - No Gobo
				0 - 255	Used as a control channel for different movement options for Gobo Wheel 1 (Channel 18)
				0 - 5	Gobo Selection using shortest (quickest) path.
				6 - 10	Gobo Selection using normal (longest) path.
				11 - 20	Reserved Values
				21 - 50	Wheel Spin CW Forward (Fast to Slow)
19	19	Gobo Wheel 1	0	51 - 60	Wheel Spin STOP
15	15	Control	Ũ	61 - 90	Wheel Spin CCW Reverse (Slow to Fast)
				91 - 120	Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0
				121 - 150	Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0
				151 - 180	Reserved Values
				181 - 210	Reserved Values
				211 - 255	Reserved Values

DMX CHANNEL		PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
16-BIT	16-BIT EXTENDED (DEFAULT)				
				0 - 255	8-bit control of Gobo Wheel 2. See channel 21 for Index/Rotation See channel 23 for control options.
				0 - 5	Open - No Gobo
				6 - 10	Gobo 1 Night Sky Index
				11 - 15	Gobo 2 New Twirler Index
				16 - 20	Gobo 3 Bricked Out Index
				21 - 25	Gobo 4 Horzonal Slits Index
		Gobo Wheel 2	Ο	26 - 30	Gobo 5 Super Alpha Rays Index
	20			31 - 35	Gobo 6 Honey Comb Reverse Index
				36 - 40	Gobo 7 On the Rocks ndex
				41 - 45	Open - No Gobo
				46 - 50	Gobo 1 Night Sky Rotate
				51 - 55	Gobo 2 New Twirler Rotate
20				56 - 60	Gobo 3 Bricked Out Rotate
				61 - 65	Gobo 4 Horzonal Slits Rotate
				66 - 70	Gobo 5 Super Alpha Rays Rotate
				71 - 75	Gobo 6 Honey Comb Reverse Rotate
				76 - 80	Gobo 7 On the Rocks Rotate
				81 - 85	Open - No Gobo
				86 - 90	Gobo 1 Night Sky Rotate Mega Stepping
				91 - 95	Gobo 2 New Twirler Rotate Mega Stepping
				96 - 100	Gobo 3 Bricked Out Rotate Mega Stepping
				101 - 105	Gobo 4 Horzonal Slits Rotate Mega Stepping
				106 - 110	Gobo 5 Super Alpha Rays Rotate Mega Stepping
				111 - 115	Gobo 6 Honey Comb Reverse Rotate Mega Stepping
				116 - 120	Gobo 7 On the Rocks Rotate Mega Stepping
				121 - 255	Open - No Gobo
21	21	Gobo Wheel 2 Rotate/Index		0 - 65535	16-bit control of index and rotation of gobo wheel 2.
		High Byte	32767	0 - 32756	Rotate Fast to Slow <<<
22	22	Low Duto		32757 - 32780	Rotation STOP
22	22	LOW Byte		32781 - 65535	Rotate Slow to Fast >>>

DMX CHANNEL		DADAMETED		RANGE DMX	DESCRIPTION
16-BIT	16-BIT EXTENDED (DEFAULT)				
				0 - 255	Used as a control channel for different movement options for Gobo Wheel 2 (Channel 20)
				0 - 5	Gobo Selection using shortest (quickest) path.
				6 - 10	Gobo Selection using normal (longest) path.
				11 - 20	Reserved Values
				21 - 50	Wheel Spin CW Forward (Fast to Slow)
				51 - 60	Wheel Spin STOP
23	23	Gobo Wheel 2	0	61 - 90	Wheel Spin CCW Reverse (Slow to Fast)
		Control		91 - 120	Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0
			-	121 - 150	Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0
				151 - 180	Gobo Twist Quickest Path (Slow to Fast) For fastest twist set gobo timing to 0
				181 - 210	Gobo Twist Normal Path (Slow to Fast) For fastest twist set gobo timing to 0
				211 - 255	Reserved Values
				0 - 255	8-bit control of VLFX (Gobo Wheel 3). See Channel 27 for control options.
				O -10	Open - No Gobo
				11 -33	Gobo 1 Amoeboid chamber Index
				34 -56	Gobo 2 Dichrofusion Index
				57 -79	Gobo 3 Concurrent Index
				80 -90	Open - No Gobo
24	24	VLFX (Gobo	0	91 -113	Gobo 1 Amoeboid chamber Rotate
		Wheel 3)		114 -136	Gobo 2 Dichrofusion Rotate
				137 -159	Gobo 3 Concurrent Rotate
				160 -170	Open - No Gobo
				171 -193	Gobo 1 Amoeboid chamber Rotate Mega Stepping
				194 -216	Gobo 2 Dichrofusion Rotate Mega Stepping
				217 -239	Gobo 3 Concurrent Rotate Mega Stepping
				240 -255	Open - No Gobo
25	25	VLFX (Gobo Wheel 3)		0 - 65535	16-bit control of index and rotation of VLFX (Gobo wheel 3).
		Rotate/Index High Bvte	32767	0 - 32756	Rotate Fast to Slow <<<
				32757 - 32780	Rotation STOP
26	26	Low Byte		32781 - 65535	Rotate Slow to Fast >>>

DMX CHANNEL		PARAMETER DEFAULTS	DEFAULTS	RANGE DMX	DESCRIPTION
16-BIT	16-BIT EXTENDED (DEFAULT)				
				0 - 255	Used as a control channel for different movement options for Gobo Wheel 3 (24)
				0 - 5	Gobo Selection using shortest (quickest) path.
				6 - 10	Gobo Selection using normal (longest) path.
				11 - 20	Reserved Values
				21 - 50	Wheel Spin CW Forward (Fast to Slow)
				51 - 60	Wheel Spin STOP
07	07	VLFX	2	61 - 90	Wheel Spin CCW Reverse (Slow to Fast)
27	27	Gobo Wheel 3 Control	0	91 - 120	Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0
				121 - 150	Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0
				151 - 180	Gobo Twist Quickest Path (Slow to Fast) For fastest twist set gobo timing to 0
				181 - 210	Gobo Twist Normal Path (Slow to Fast) For fastest twist set gobo timing to 0
				211 - 255	Reserved Values
				0-255	Iris size control
28	28	Iris	0	0 - 200	Iris beam size open to closed
				201 - 255	Iris pulse slow to fast
29	29	Frame 1A	0	0 - 255	Controls Framing Shutter 1A from Open (DMX 0) to Full (DMX 255).
30	30	Frame 1B	0	0 - 255	Controls Framing Shutter 1B from Open (DMX 0) to Full (DMX 255).
31	31	Frame 2A	0	0 - 255	Controls Framing Shutter 2A from Open (DMX 0) to Full (DMX 255).
32	32	Frame 2B	0	0 - 255	Controls Framing Shutter 2B from Open (DMX 0) to Full (DMX 255).
33	33	Frame 3A	0	0 - 255	Controls Framing Shutter 3A from Open (DMX 0) to Full (DMX 255).
34	34	Frame 3B	0	0 - 255	Controls Framing Shutter 3B from Open (DMX 0) to Full (DMX 255).
35	35	Frame 4A	0	0 - 255	Controls Framing Shutter 4A from Open (DMX 0) to Full (DMX 255).
36	36	Frame 4B	0	0 - 255	Controls Framing Shutter 4B from Open (DMX 0) to Full (DMX 255).
37	37	Frame Rotate	128	0 - 255	Controls Framing Shutter mechanism from +/- 60°
				0 - 255	Controls Prism mechanism with following values.
				0 - 5	Open
70	70	Prism 1	0 255	6 - 10	Index
30	30	(Triangular)	0 - 255	11 - 15	Rotate Normal
				16 - 20	Rotate with Mega Stepping
				21 - 255	Reserved Values

DMX CHANNEL					
16-BIT	16-BIT EXTENDED (DEFAULT)	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
		Prism 1		0 - 65535	16-bit control of prism rotation and index.
39	39	(Index/Rotate) High Byte	30767	0 - 32756	Rotate Fast to Slow <<<
10	10		52/0/	32757 - 32780	Rotation STOP
40	40	Low Byte		32781 - 65535	Rotate Slow to Fast >>>
				0 - 255	Controls Prism mechanism with following values.
				0 - 5	Open
41	41		0 055	6 - 10	Index
41	41	Prism 2 (Flat)	0 - 255	11 - 15	Rotate Normal
				16 - 20	Rotate with Mega Stepping
				21 - 255	Reserved Values
		Prism 2		0 - 65535	16-bit control of prism rotation and index.
42	42 42 (Index/Rotate) High Byte	(Index/Rotate) High Byte	32767	0 - 32756	Rotate Fast to Slow <<<
47	47			32757 - 32780	Rotation STOP
43	43	Low Byte		32781 - 65535	Rotate Slow to Fast >>>
		Frost	0	0-255	Control of dual frost
				0 - 10	No Frost
4.4				11 - 20	Frost 1 (light)
44	44			21 - 25	Frost 2 (heavy)
				26 - 36	Open
				37-255	Both Frost 1 & 2 (very heavy)
				0 - 5	Shutter open
				6 - 10	Shutter closed
				11 - 125	Strobe Slow>>>>>Fast 0.5Hz-30Hz
				126 - 130	Shutter open
45	45	Strobe	0	131 - 245	Strobe Random/Random Sync* Slow>>>>>Fast
				246 - 250	Shutter open
				251 - 255	Shutter closed *See Programmers channel for mode slection
46	46	Future use channel	0		Channel reserved for future use

DMX CHANNEL		DADAMETED			DESCRIPTION
16-BIT	16-BIT EXTENDED (DEFAULT)	PARAMETER	DEFAULIS	RANGE DMA	DESCRIPTION
					Functions do not require 3 second DMX rule, except as noted. Mode will change once DMX level is reached
				0-40	Idle
				41 - 45	Dimming Curve Linear (3 second rule)
				46 - 50	Dimming Curve S-Curve (3 second rule)
				51 - 55	Dimming Curve Square Curve (Default)** (3 second rule)
				56 - 60	Dimmer Snap On
				61 - 65	Dimmer Snap Off (Default)
				66 - 70	Reserved Values
				71 - 75	Reserved Values
				76 - 80	Edge Tracking On
	47	Programmers Channel		81 - 85	Edge Tracking Off (Default
			0	86 - 90	Reserved Values
				91 - 95	Color Snap Off (Default)
47				96 - 100	Color Snap On (de-activates color timing channel)
47				101 - 105	Reserved Values
				106 - 110	Strobe Random (Default)
				111 - 115	Strobe Random Sync
				116 - 120	Reserved Values
				121 - 125	Reserved Values
				126 - 130	Reserved Values
				131 - 135	Reserved Values
				136 - 140	Reserved Values
				141 - 145	Reserved Values
				146 - 150	Reserved Values
				151 - 155	Reserved Values
				156 - 160	Reserved Values
				161 - 165	Reserved Values
				166 - 170	Reserved Values
				171 - 175	Reserved Values
				176 - 255	Reserved Values
	48	Focus Timing	255	0 - 255	Adjustment of fixture timing to control Pan/Tilt mechanisms. See Timing Channel Values
	49	Optics Timing	255	0 - 255	Adjustment of fixture timing to control lensing mechanisms. See Timing Channel Values.
	50	Color Timing	255	0 - 255	Adjustment of fixture timing to control color mechanisms. See Timing Channel Values.
	51	Beam Timing	255	0 - 255	Adjustment of fixture timing to control beam shaping mechanisms. See Timing Channel Values.
	52	Gobo Timing	255	0 - 255	Adjustment of fixture timing to control gobo mechanisms. See Timing Channel Values.

Image: Parameter Note PARAMETER Parameter Note PARAMETER Parameter Note PARAMETER Parameter Note Parameter Note 16-81 EXTENDED (OFFAULT) 0	DMX	CHANNEL				
48 53 Fan Control 0 0 255 Dynamically control fan speed vis LED Output 10 Automatic fan/output adjustment (Default) Linear control of fan speed and LED max output ¹ DMX 5 = Highest Constant Fan Speed (Whisper mode) 10 05 255 Firster Constant Fan Speed (Whisper mode) 11 15 Fan Control 0 <th>16-BIT</th> <th>16-BIT EXTENDED (DEFAULT)</th> <th>PARAMETER</th> <th>DEFAULTS</th> <th>RANGE DMX</th> <th>DESCRIPTION</th>	16-BIT	16-BIT EXTENDED (DEFAULT)	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
48 53 Fan Control 0 Automatic fan/output adjuitsment (Default) Linear control of fan speed and LED max output' by developed (Distandard mode) DSS 5 = Lowest Constant Fan Speed (Whisper mode) Standard mode only. Function is dec-activated if Studio or Boost modes are selected via Dmx or User interface *Standard mode only. Function is dec-activated if Studio or Boost modes are selected via Dmx or User interface *Standard mode only. Function is dec-activated if Studio or Boost modes are selected via Dmx or User interface *Standard mode only. Function is decativated Standard mode (Default to 0) Standard mode (Default to 0) Standard mode (Default) Standard mode (Default)					0 - 255	Dynamically control fan speed vs LED Output operation. Control values as follows
48 53 Fan Control 0 0 05 - 255 Unear control of fan Speed (Misper mode) 05 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255 0, 5 - 255					0-4	Automatic fan/output adjustment (Default)
49 54 Luminaire Control 0 255 Schedulto 0 11 5 1/dle Control 1/dle 0/dle 21 25 Display Meuno 0/dle 0/dle 22 25 Display Meuno 0/dle 0/dle 22 25 Display Meuno 0/dle 0/dle 23 25 Display Meuno 0/dle 0/dle 20 25 Display Meuno 0/dle 0/dle 31 85 Reserved 0/dle 0/dle 0/dle 101 10 Reserved 0/dle 0/dle 0/dle 0/dle 101 10 Reserved 0/dle 10/dle 126 136 140 16 120 12/dle 0/dle 0/dle 12/dle 12/dle 12/dle 12/dle 0/dle 12/dle 12/dle 12/dle 12/dle 12/dle 12/dle 12/dle 12/dle	48 5	53	Fan Control	0	05 - 255	Linear control of fan speed and LED max output* DMX 5 =Highest Constant Fan Speed (Standard mode) DMX 255 = Lowest Constant Fan Speed (Whisper mode) * Standard mode only. Function is dec-activated if Studio or Boost modes are selected via Dmx or User Interface **Note channel is deactivated by default. The function requires activation for use. Activation is from the UI or the luminaire control channel
 49 54 Luminaire Control 6 - 10 Full Luminaire Fuld Luminaire					0 - 255	Control Channel used for full fixture settings Set discrete value of desired effect, wait >3 sec then set value to 0 (Idle).
 49 54 Luminaire Control 6 - 10 Full Luminaire ReCal - also used to wake from shutdown 11 - 15 Fixture Shutdown 16 - 20 ReBoot 21 - 25 Display - Menu Oft (Uill unlock if locked) 26 - 30 Display - Menu Off 31 - 85 Reserved 86 - 90 Status Check 91 - 95 Side Hang Disable (Default) 96 - 100 Side Hang Disable (Default) 96 - 100 Side Hang Disable (Default) 96 - 100 Standard Mode (Default) 110 - 110 Reserved 111 - 115 Standard Mode (Default) 116 - 120 Studio Mode 121 - 125 Whisper Mode 126 - 135 Reserved 136 - 140 Fan On (Default) 141 - 145 Fan Auto 146 - 148 Fan Control Off (Default) 149 - 150 Fan Control Off (Default) 151 - 155 ReCal Position 156 - 160 Recal Color 166 - 170 Recal Color 161 - 165 Recal Color 166 - 170 Recal Color<			54 Luminaire 0	0 - 5	Idle (Default to 0)	
 49 54 54 Luminaire Control 16 - 20 Rebot 21 - 25 Display - Menu Off 26 - 30 Display - Menu Off 31 - 85 Reserved Status Check 91 - 95 Side Hang Disable (Default) 96 - 100 Side Hang Disable (Default) 96 - 100 Side Hang Disable (Default) 101 - 110 Reserved 101 - 110 Reserved 101 - 110 Reserved 111 - 115 Standard Mode (Default) 101 - 110 Reserved 111 - 115 Standard Mode (Default) 112 - 125 Whisper Mode 114 - 145 Fan Auto 114 - 145 Fan Control Of (Default) 114 - 148 Fan Control Of (Default) 115 - 155 ReCal Position 115 - 155 ReCal Optics 116 - 165 ReCal Optics 117 - 175 ReCal Optics 117 - 175 Recal Optics 117 - 180 Rest fixture to defaults 118 - 185 TB Correction Off (Default) 181		54			6 - 10	Full Luminaire ReCal - also used to wake from shutdown
 49 54 Luminaire Control 16 - 20 ReBoot 21 - 25 Display - Menu On (Will unlock if locked) 26 - 30 Display - Menu Off 31 - 85 Reserved 66 - 90 Status Check 91 - 95 Side Hang Disable (Default) 96 - 100 Side Hang Disable (Default) 101 - 110 Reserved 101 - 110 Reserved 111 - 115 Standard Mode (Default) 116 - 120 Studio Mode 121 - 125 Whisper Mode 126 - 135 Reserved 136 - 140 Fan On (Default) 141 - 145 Fan Auto 146 - 148 Fan Control On 149 - 150 Fan Control On 149 - 150 Fan Control Off (Default) 151 - 155 ReCal Position 156 - 160 ReCal Optics 166 - 170 ReCal Optics 166 - 170 ReCal Optics 171 - 175 ReCal Optics 176 - 180 Reset fixture to defaults 181 - 185 CTB Correction Off (Default) 186 - 190 CTB Correction Off (Default) 					11 - 15	Fixture Shutdown
 49 54 54 Luminaire Control 54 Luminaire Control 1 1<					16 - 20	ReBoot
 49 54 Luminaire Control Nethic Served 101-110 Reserved 101-110 Reserved 101-110 Reserved 101-110 Standard Mode (Default) 116-100 Studio Mode 116-100 Studio Mode 116-110 Reserved 116-110 Reserved 116-110 Reserved 116-110 Reserved 116-110 Standard Mode (Default) 116-112 Whisper Mode 116-113 Reserved 116-114 Fan Control Off (Default) 116-1145 Recal Position 116-1165 Recal Gobo 116-1165 Recal Gobo 116-1160 Resert fixture to defaults 118-185 CTB Correction Off (Default) 118-185 CTB Correction Off (Default) 					21 - 25	Display - Menu On (Will unlock if locked)
 49 54 Luminaire Control Neve Name 101-100 Reserved 101-100 Reserved 101-110 Reserved 101-110 Reserved 116-120 Studio Mode (Default) 116-120 Studio Mode 121-125 Whisper Mode 126-135 Reserved 136-140 Fan On (Default) 141-145 Fan Auto 146-148 Fan Control On 149-150 Fan Control Off (Default) 151-155 ReCal Position 156-160 ReCal Position 156-160 ReCal Optics 166-170 ReCal Optics 171-175 ReCal Gobo 176-180 Reservetion Off (Default) 181-185 CTB Correction Off (Default) 					26 - 30	Display - Menu Off
 49 54 5					31 - 85	Reserved
 49 49 54 54 Luminaire Control P 96 - 100 Side Hang Enable 101 - 110 Reserved 111 - 115 Standard Mode (Default) 116 - 120 Studio Mode 121 - 125 Whisper Mode 126 - 135 Reserved 136 - 140 Fan On (Default) 141 - 145 Fan Auto 146 - 148 Fan Control Off (Default) 149 - 150 Fan Control Off (Default) 151 - 155 ReCal Position 156 - 160 ReCal Position 166 - 170 ReCal Optics 166 - 170 ReCal Optics 171 - 175 ReCal Gobo 181 - 185 CTB Correction Off (Default) 					86 - 90	Status Check
 49 54 Luminaire Control 0 101 - 110 Reserved 111 - 115 Standard Mode (Default) 116 - 120 Studio Mode 121 - 125 Whisper Mode 126 - 135 Reserved 136 - 140 Fan On (Default) 141 - 145 Fan Auto 146 - 148 Fan Control On 149 - 150 Fan Control Off (Default) 151 - 155 ReCal Position 156 - 160 ReCal Position 156 - 160 ReCal Destion 166 - 170 ReCal Optics 171 - 175 ReCal Optics 171 - 175 ReCal Gobo 176 - 180 Reset fixture to defaults 181 - 185 CTB Correction Off (Default) 186 - 190 CTB Correction Off (Default) 					91 - 95	Side Hang Disable (Default)
 49 49 54 <					96 - 100	Side Hang Enable
 49 54 54 14 54 14 54 14 54 14 54 5					101 - 110	Reserved
 49 54 5					111 - 115	Standard Mode (Default)
Control121 - 125Whisper Mode126 - 135Reserved136 - 140Fan On (Default)141 - 145Fan Auto146 - 148Fan Control On149 - 150Fan Control Off (Default)151 - 155ReCal Position156 - 160ReCal Color166 - 170ReCal Optics171 - 175ReCal Gobo171 - 175ReCal Gobo181 - 185CTB Correction Off (Default)186 - 190CTB Correction On	49			0	116 - 120	Studio Mode
126 - 135 Reserved 136 - 140 Fan On (Default) 141 - 145 Fan Auto 146 - 148 Fan Control On 149 - 150 Fan Control Off (Default) 151 - 155 ReCal Position 156 - 160 ReCal Color 166 - 170 ReCal Optics 171 - 175 ReCal Gobo 176 - 180 Reset fixture to defaults 181 - 185 CTB Correction Off (Default)			Control		121 - 125	Whisper Mode
136 - 140 Fan On (Default) 141 - 145 Fan Auto 146 - 148 Fan Control On 149 - 150 Fan Control Off (Default) 151 - 155 ReCal Position 166 - 160 ReCal Color 166 - 170 ReCal Optics 171 - 175 ReCal Gobo 176 - 180 Reset fixture to defaults 181 - 185 CTB Correction Off (Default)					126 - 135	Reserved
141 - 145 Fan Auto 146 - 148 Fan Control On 149 - 150 Fan Control Off (Default) 151 - 155 ReCal Position 156 - 160 ReCal Color 161 - 165 ReCal Beam 166 - 170 ReCal Optics 171 - 175 ReCal Gobo 176 - 180 Reset fixture to defaults 181 - 185 CTB Correction Off (Default)					136 - 140	Fan On (Default)
146 - 148 Fan Control On 149 - 150 Fan Control Off (Default) 151 - 155 ReCal Position 156 - 160 ReCal Color 161 - 165 ReCal Beam 166 - 170 ReCal Optics 171 - 175 ReCal Gobo 176 - 180 Reset fixture to defaults 181 - 185 CTB Correction Off (Default) 186 - 190 CTB Correction On					141 - 145	Fan Auto
149 - 150 Fan Control Off (Default) 151 - 155 ReCal Position 156 - 160 ReCal Color 161 - 165 ReCal Beam 166 - 170 ReCal Optics 171 - 175 ReCal Gobo 176 - 180 Reset fixture to defaults 181 - 185 CTB Correction Off (Default) 186 - 190 CTB Correction On					146 - 148	Fan Control On
151 - 155 ReCal Position 156 - 160 ReCal Color 161 - 165 ReCal Beam 166 - 170 ReCal Optics 171 - 175 ReCal Gobo 176 - 180 Reset fixture to defaults 181 - 185 CTB Correction Off (Default) 186 - 190 CTB Correction On					149 - 150	Fan Control Off (Default)
156 - 160 ReCal Color 161 - 165 ReCal Beam 166 - 170 ReCal Optics 171 - 175 ReCal Gobo 176 - 180 Reset fixture to defaults 181 - 185 CTB Correction Off (Default) 186 - 190 CTB Correction On					151 - 155	ReCal Position
161 - 165ReCal Beam166 - 170ReCal Optics171 - 175ReCal Gobo176 - 180Reset fixture to defaults181 - 185CTB Correction Off (Default)186 - 190CTB Correction On					156 - 160	ReCal Color
166 - 170ReCal Optics171 - 175ReCal Gobo176 - 180Reset fixture to defaults181 - 185CTB Correction Off (Default)186 - 190CTB Correction On					161 - 165	ReCal Beam
171 - 175ReCal Gobo176 - 180Reset fixture to defaults181 - 185CTB Correction Off (Default)186 - 190CTB Correction On					166 - 170	
176 - 180 Reset fixture to defaults 181 - 185 CTB Correction Off (Default) 186 - 190 CTB Correction On					1/1 - 1/5	Recal GODO
186 - 190CTB Correction OnCTB Correction On					1/0 - 180	CTR Correction Off (Default)
186 - 180 CTB Correction On					196 - 100	
101 - 105 Decoved					100 - 190	Reserved
191-195 Reserved 196 I ED Dafrach 900H7					196	I ED Refresh 900Hz

DMX CHANNEL					
16-BIT	16-BIT EXTENDED (DEFAULT)	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
				197	LED Refresh 910Hz
				198	LED Refresh 920Hz
				199	LED Refresh 930Hz
				200	LED Refresh 940Hz
				201	LED Refresh 950Hz
				202	LED Refresh 960Hz
				203	LED Refresh 980Hz
				204	LED Refresh 990Hz
				205	LED Refresh 1000Hz
				206	LED Refresh 1500Hz (Default)
				207	LED Refresh 2500Hz
				208	LED Refresh 3000Hz
				209	LED Refresh 3500Hz
				210	LED Refresh 4000Hz
		Luminaire Control Continued		211	LED Refresh 4500Hz
				212	LED Refresh 5000Hz
				213	LED Refresh 5500Hz
				214	LED Refresh 6000Hz
				215	LED Refresh 6500Hz
	54			216	LED Refresh 7000Hz
				217	LED Refresh 7500Hz
49			0	218	LED Refresh 8000Hz
				219	LED Refresh 8500Hz
				220	LED Refresh 9000Hz
				221	LED Refresh 10KHz
				222	LED Refresh 10.5KHz
				223	LED Refresh 11KHz
				224	LED Refresh 11.5KHz
				225	LED Refresh 12.5KHz
				226	LED Refresh 13KHz
				227	LED Refresh 13.5KHz
				228	LED Refresh 14KHz
				229	LED Refresh 14.5KHz
				230	LED Refresh 15KHz
				231	LED Refresh 16.5KHz
				232	LED Refresh 17KHz
				233	LED Refresh 17.5KHz
				234	LED Refresh 18KHz
				235	LED Refresh 18.5KHz
				236	LED Refresh 19KHz
				237	LED Refresh 19.5KHz
				238	LED Refresh 20KHz
				239	LED Refresh 20.5KHz

DMX CHANNEL		PARAMETER DEFAULTS	RANGE DMX	DESCRIPTION	
16-BIT	16-BIT EXTENDED (DEFAULT)				
		Luminaire Control Continued	0	240	LED Refresh 21.5KHz
				241	LED Refresh 22KHz
				242	LED Refresh 22.5KHz
				243	LED Refresh 23KHz
49	54			244	LED Refresh 23.5KHz
				245	LED Refresh 24KHz
				246	LED Refresh 24.5KHz
			-	247	LED Refresh 25KHz
				248 - 255	Reserved

DMX	% VALUES	TIME (SEC)
0		Full Speed
1		0.2
2		0.4
3	1	0.6
4		0.8
5	2	1
6		1.2
7		1.4
8	3	1.6
9		1.8
10	4	2
11		2.2
12		2.4
13	5	2.6
14		2.8
15	6	3
16		3.2
17		3.4
18	7	3.6
19		3.8
20	8	4
21		4.2
22		4.4
23	9	4.6
24		4.8
25	10	5
26		5.2
27		5.4
28	11	5.6
29		5.8
30		6
31	12	6.2
32		6.4
33	13	6.6
34	15	6.8
 		7
35	14	72
30	17	7.4
	15	7.4
20	10	7.0
		7.0 0
40	16	<u></u> о า
41	10	<u>۵.</u> 2
42	17	8.4
43	17	8.6
44		8.8

Timing Channel Values

DMX	% VALUES	TIME (SEC)
45		9
46	18	9.2
47		9.4
48	19	9.6
49		9.8
50		10
51	20	10.2
52		10.4
53		10.6
54	21	11
55		11
56	22	12
57		12
58		13
59	23	13
60		14
61	24	14
62		14
63		15
64	25	15
65		16
66	26	16
67		16
68		17
69	27	17
70		18
71	28	18
72		18
73		19
74	29	19
75		20
76	30	20
77		20
78		21
79	31	21
80		21
81		22
82	32	22
83		23
84	33	23
85		23
86		24
87	34	24
88		25
89	35	25

DMX	% VALUES	TIME (SEC)
90		25
91		26
92	36	26
93		27
94	37	27
95		27
96		28
97	38	28
98		29
99	39	29
100		29
101		30
102	40	30
103		30
104		31
105	41	31
106		32
107	42	32
108		32
109		33
110	43	33
111		34
112	44	34
113		34
114		35
115	45	35
116		36
117	46	36
118		36
119		37
120	47	37
121		38
122	48	38
123		38
124		39
125	49	39
126		39
127		40
128	50	40
129		41
130	51	41
131		41
132		42
133	52	42
134		43

Timing Channel Values - continued

DMX	% VALUES	TIME (SEC)
135	53	43
136		43
137		44
138	54	44
139		45
140	55	45
141		45
142		46
143	56	46
144		47
145	57	47
146		47
147		48
148	58	48
149		49
150	59	49
151		49
152		50
153	60	50
154		50
155		51
156	61	51
157		52
158	62	52
159		52
160		53
161	63	53
162		54
163	64	54
164		54
165		55
166	65	55
167		56
168	66	56
169		56
170		57
171	67	57
172		58
17.3	68	58
174		58
175		59
176	69	59
177		59
178		60
170	70	60
1/9	/0	00

DMX	% VALUES	TIME (SEC)
180		65
181	71	65
182		65
183		70
184	72	70
185		75
186	73	75
187		75
188		80
189	74	80
190		85
191	75	85
192		85
193		90
194	76	90
195		95
196	77	95
197		95
198		100
199	78	100
200		110
201	79	110
202		110
203		120
204	80	120
205		120
206	81	130
207		130
208		140
209	82	140
210		140
211		150
212	83	150
213		160
214	84	160
215		160
216		170
217	85	170
218		180
219	86	180
220		180
221		190
222	87	190
223		200
224	88	200
	1	

DMX	% VALUES	TIME (SEC)
225		200
226		210
227	89	210
228		210
229		220
230	90	220
231		230
232	91	230
233		230
234		240
235	92	240
236		250
237	93	250
238		250
239		260
240	94	260
241		270
242	95	270
243		270
244		280
245	96	280
246		290
247	97	290
248		290
249		300
250	98	300
251		310
252	99	310
253		310
254		310
255	100	Follows Cue Data

4 RDM PARAMETER IDs

Remote Device Management (RDM) is a protocol enhancement to USITT DMX512 that allows bi-directional communication between a lighting or system controller and attached RDM compliant devices over a standard DMX line. This protocol will allow configuration, status monitoring, and management of these devices in such a way that does not disturb the normal operation of standard DMX512 devices that do not recognize the RDM protocol.

VL3600 PROFILE IP SERIES RDM PRODUCT PARAMETER IDS								
Model ID	lel ID Manufacturer Vendor ID Model Description Product Category							
0x003E	Vari-Lite	0x564C	VL3600 PROFILE IP	0x0102				
0x0042	Vari-Lite	0x564C	VL3600 LT PROFILE IP	0x0102				

The table on the following pages outlines and describes all the RDM parameters IDs associated with the fixtures.

GET ALLOWED	SET ALLOWED	RDM PARAMETER IDS	VALUE	COMMENT	ESTA STANDARD	REQUIRED / IMPLEMENTED		
Category - Network Management								
		DISC_UNIQUE_BRANCH	0x0001		Х	Х		
		DISC_MUTE	0x0002		Х	Х		
		DISC_UN_MUTE	0x0003		X	Х		
Х		PROXIED_DEVICES	0x0010					
Х		PROXIED_DEVICES_COUNT	0x0011					
Х	Х	COMMS_STATUS	0x0015					
Category - S	tatus Collecti	on						
Х		QUEUED_MESSAGE	0x0020					
Х		STATUS_MESSAGES	0x0030			Х		
Х		STATUS_ID_DESCRIPTION	0x0031			Х		
	Х	CLEAR_STATUS_ID	0x0032					
Х	Х	SUB_DEVICE_STATUS_ REPORT_THRESHOLD	0x0033					
Category - R	DM Informati	on						
Х		SUPPORTED_PARAMETERS	0x0050		Х	Х		
Х		PARAMETER_DESCRIPTION	0x0051		Х	Х		
Category - P	roduct Inform	nation						
Х		DEVICE_INFO	0x0060		х	Х		
Х		PRODUCT_DETAIL_ID_LIST	0x0070					
Х		DEVICE_MODEL_DESCRIPTION	0x0080			Х		
Х		MANUFACTURER_LABEL	0x0081			Х		
Х	Х	DEVICE_LABEL	0x0082			Х		
Х	Х	FACTORY_DEFAULTS	0x0090			Х		
Х		LANGUAGE_CAPABILITIES	0x00A0					
Х	Х	LANGUAGE	0x00B0					
Х		SOFTWARE_VERSION_LABEL	0x00C0		Х	Х		
×		BOOT_SOFTWARE_VERSION_ ID	0x00C1					
×		BOOT_SOFTWARE_VERSION_ LABEL	0x00C2					
Category - D	MX512 Setup							
Х	Х	DMX_PERSONALITY	0x00E0			Х		
x		DMX_PERSONALITY_ DESCRIPTION	0x00E1			Х		
Х	Х	DMX_START_ADDRESS	0x00F0		X	Х		
Х		SLOT_INFO	0x0120			Х		
Х		SLOT_DESCRIPTION	0x0121			Х		
Х		DEFAULT_SLOT_VALUE	0x0122			Х		
Category - S	Sensors 0x02>	<x .<="" td=""><td></td><td></td><td></td><td></td></x>						
Х		SENSOR_DEFINITION	0x0200			Х		
×	Х	SENSOR_VALUE	0x0201	Fan speed and temperatures		Х		
	Х	RECORD_SENSORS	0x0202					
Category - D	immer Settin	gs 0x03xx						
Х	Х	Dimmer Curve	0x0343			Х		
Х		Dimmer Curve Description	0x0344			Х		

GET ALLOWED	SET ALLOWED	RDM PARAMETER IDS	VALUE	COMMENT	ESTA STANDARD	REQUIRED / IMPLEMENTED
Х	Х	Modulation Frequency	0x0347			х
Х		Modulation Frequency Description	0x0348			Х
Category - P	ower / Lamp	Settings 0x04xx				
Х	Х	DEVICE_HOURS	0x0400			Х
Х	Х	LAMP_HOURS	0x0401			
Х	Х	LAMP_STRIKES	0x0402			
Х	Х	LAMP_STATE	0x0403			
Х	Х	LAMP_ON_MODE	0x0404			
Х	Х	DEVICE_POWER_CYCLES	0x0405			
Category - D	isplay Setting	gs 0x05xx	-			
Х	Х	DISPLAY_INVERT	0x0500			
Х	Х	DISPLAY_LEVEL	0x0501			
Category - C	Configuration	0x06xx			· · · · · · · · · · · · · · · · · · ·	
Х	Х	PAN_INVERT	0x0600			
Х	Х	TILT_INVERT	0x0601			
Х	Х	PAN_TILT_SWAP	0x0602			
Х	Х	REAL_TIME_CLOCK	0x0603			
Category - I	P & DNS Conf	iguration 0x07xx		1	· · · · · · · · · · · · · · · · · · ·	
x		LIST_INTERFACES	0x0700	This is required if any IP setting is used	X*	х
Х		INTERFACE_LABEL	0x0701			Х
×		INTERFACE_HARDWARE_ ADDRESS_TYPE1	0x0702			
Х	Х	IPV4_DHCP_MODE	0x0703			
Х	Х	IPV4_ZEROCONF_MODE	0x0704			
Х		IPV4_CURRENT_ADDRESS	0x0705			Х
Х	Х	IPV4_STATIC_ADDRESS	0x0706			Х
	Х	INTERFACE_RENEW_DHCP	0x0707			
	Х	INTERFACE_RELEASE_DHCP	0x0708			
	х	INTERFACE_APPLY_ CONFIGURATION	0x0709	Required if support 0x0703, 0x0704, or 0x0706	X*	×
Х	Х	IPV4_DEFAULT_ROUTE	0x070A			
Х	Х	DNS_IPV4_NAME_SERVER	0x070B			
Х	Х	DNS_HOSTNAME	0x070C			
Х	Х	DNS_DOMAIN_NAME	0x070D			
Category - C	Control Ox10x	×				
Х	Х	IDENTIFY_DEVICE	0x1000		х	Х
	Х	RESET_DEVICE	0x1001			Х
Х	Х	POWER_STATE	0x1010			
Х	х	PERFORM_SELFTEST	0x1020	All Test, Pan/Tilt, Encoder		
Х		SELF_TEST_DESCRIPTION	0x1021			
	Х	CAPTURE PRESET	0x1030	See E1-20_2010a		
Х	Х	PRESET PLAYBACK	0x1031	Table A-7 defines		

GET ALLOWED	SET ALLOWED	RDM PARAMETER IDS	VALUE	COMMENT	ESTA STANDARD	REQUIRED / IMPLEMENTED
ESTA Reserv	ed Future RD	Μ	0x7FE0- 0x7FFF			
Manufacture	r-Specific PID	s	0x8000- 0xFFDF			
х	Х	Output Power Mode	0x8A97	Value range depends on options (Standard, Studio, etc)		Х
Х	Х	Pan/Tilt Feedback (On/Off)	0x8AD3			
Х	Х	Display On Time	0x8AA0	Value range depends on options		Х
х	Х	LED Dimmer Curve	0x8AA1	Value range depends on options		
Х	Х	Pan Tilt Movement (On/Off)	0x8AA2			
Х	Х	Head Motor Movement (On/Off)	0x8AA3			
х	Х	Auto Shutdown Mode	0x8AA4	Value range depends on options		
Х	Х	LED Hours	0x8AA5			
Х	Х	Dim Snap (On/Off)	0x8AA6			
Х	Х	Color Snap (On/Off)	0x8AA7			
Х	Х	Auto Fan Mode (On/Off)	0x8AA8			
x	х	Gamma Shift	0x8AA9	Value range depends on options		
Х	Х	Tungsten Dimming (On/Off)	0x8AAA			
Х	Х	CTB Correction (On/Off)	0x8AAB	*** part of section		
х	Х	LED Refresh Rate	0x8AAC	0x0300 now***		
Х	Х	Side Hang (On/Off)	0x8AAD			
Х	Х	Focus Track (On/Off)	0x8AAE			
	Х	Control Signel select DMX only/ ARtNET (On/Off)	0x8AAF			
	Х	Recalibrate Fixture (Level)	0x8AB0	different levels (all, position, color, etc)		
Х	Х	DMX Fail (Hold, Blackout, GOTO Preset)	0x8AB1			
х	Х	ArtNet Universe	0x8AB2	*** part of section 0x0700 now***		
×	Х	ArtNet Net	0x8AB3	*** part of section 0x0700 now***		
×	Х	ArtNet Sub-Net	0x8AB4	*** part of section 0x0700 now***		
х	Х	ArtNet Ethernet IP	0x8AB5	*** part of section 0x0700 now***		
Х	Х	ArtNet Ethernet Sub-Net Mask	0x8AB6	*** part of section 0x0700 now***		
Х	Х	Manual PRESET Playback Power Up Preset	0x8AB7			
Х	Х	Manual PRESET Playback Preset Intensity	0x8AB8			
х	Х	Manual PRESET Playback Priority	0x8AB9			

GET ALLOWED	SET ALLOWED	RDM PARAMETER IDS	VALUE	COMMENT	ESTA STANDARD	REQUIRED / IMPLEMENTED
x	×	Manual PRESET Playback Power Up?	0x8ABA			
Х	Х	LED Color Calibration (On/Off)	0x8ABB			

5 OPERATION

MENU FUNCTIONS

To access the menu, touch the MENU button. Then use the ARROW buttons to navigate through the menu items in the list. Touch ENTER to select. Repeat as needed to move through the menu lists. Once you have reached your desired selection, use the ARROW buttons to choose or set desired setting and then touch ENTER to store. Touching the MENU button will return to the previous menu level.

The VL3600 Profile IP Series 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.
- Test test functions of parameters
- · Manual Preset edit and set the manual presets within the fixture

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 Menu as desired

NOTE: The luminaire has an auto lock function on the Menu Display. To unlock, while touching the ENTER button, touch UP -> DOWN -> UP -> DOWN if unit is sitting. If hanging, while touching the ENTER button, touch DOWN -> UP -> DOWN -> UP.



NOTE: Menu functions are subject to activation in subsequent software releases. Please check software release notes for details

VARI*****LITE

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT
Address	001~459 (16 Bit Enhan	ced) 001-464 (16 Bit)				001
		LED Hours	XXXXXX h			
			Square Law			Default
		Dimming Curve	S Curve			<u>.</u>
			Linear			
		D : 0	Snap On (Fast)			
		Dim Snap	Snap Off (Slow)			Default
			Standard			Default
		Output Mode	Studio			
			Whisper			
			On			
		Fan Channel	Off			Default
			On			
		Fan Mode	Auto			Default
			900Hz			
			910Hz			
			920Hz			
			930Hz			
			940Hz			
			950Hz			
			960Hz			
			980Hz			
			990Hz			
			1000Hz			
Configure	LED		1500Hz			Default
			2500Hz			
			3000Hz			
			3500Hz			
			4000Hz			
			4500Hz			
		Refresh Rate	5000Hz			
			5500Hz			
			6000Hz			
			6500Hz			
			7000Hz			
			7500Hz			
			8000Hz			
			8500Hz			
			9000Hz			
			10KHz			
			10.5KHz			
			11KHz			
			11.5KHz			
			12.5KHz			
			13KHz			
			13.5KHz			
			14KHz			

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT
			14.5KHz			
			15KHz			
			16.5KHz			
			17KHz			
			17.5KHz			
			18KHz			
			18.5KHz			
			19KHz			
			19.5KHz			
		Refresh Rate	20KHz			
		Continued	20.5KHz			
			21.5KHz			
			22KHz			
	LED Continued		22.5KHz			
	LED Continued		23KHz			
			23.5KHz			
			24KHz			
			24.5KHz			
			25KHz			
			2.00			Default
			2.10			·
Configure			2.20			
Continued		Gamma Shift	2.30			
			2.40			
			2.50			
			2.60			
			2.70			
			2.80			
		Don /Tilt	Enable			Default
	Mayamant	Parly Tilt	Disable			
	Hovement	Sido Hang	Enable			
			Disable			Default
	Cal-Position	Home				Default
	Cal-Fosition	DMX				
		Orientation	Up			Default
			Down			
			30 Sec			Default
	Display	On time	5 Min			
	Display	On time	10 Min			
			On			
		Screen Lock (Auto	On			Default
		screen lock)	Off			
	Focus Track	Enable				
	FOCUS IRACK	Disable				Default

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT			
		Enable							
Configure	Follow Spot Mode	Disable				Default			
Continued	Reset Defaults	Are you sure?	Are you sure?						
	Address	001~459 (16 Bit Enhanc	ed) 001-464 (16 Bi	t)		001			
		16 Bit Enhanced				Default			
	DMX Mode	16 Bit							
		Ch 1 - Intensity XXX (value)							
	Data	Ch 2 - Intensity Fine XX	Ch 2 - Intensity Fine XXX (value)						
		All functions							
		0 D (71)	Off			Default			
		Swap Pan/Tilt	On						
	D (71)		Off			Default			
	Pan/Tilt	Invert Pan	On						
			Off			Default			
		Invert Tilt	On						
		DMX Only				Default			
			Off			Default			
		Art-Net	On			_			
	Select Signal	sACN	Off			Default			
DMX			On						
		Wireless DMX	Off			Default			
			On						
	Wireless DMX	Unlink	No			Default			
			Yes						
		Set Universe	0 - 15						
	Set Artnet	Net	0 - 127						
		Sub-Net	0 - 15						
		Set Universe	1 - 32000						
	Set sacn	Priority	0 - 200						
			IP1: 2.xxx.xxx.xxx						
	Eth ann at Catin an	Ethernet IP	IP2: 10.xxx.xxx.xx	κx					
	Ethernet Setings		Manual	xxx.xxx.xxx.xxx					
		Ether Mask IP	xxx.xxx.xxx.xxx						
		DMX Hold				Default			
	DMX Fail	Blackout							
		Goto Preset	Goto Preset 1 to 20						
	Status	No Errors of displays a	list of errors						
	ReCal (Fixture)	Are You Sure?							
	Reboot Fixture	Are You Sure?							
Fixture	Version	MM/DD/YY							
	Fixture Hours	xxxxxxh							
	Crossload (Software)	Send							
	Service	Service Settings	Authorized use o	only. See Service M	lanual				

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT
		USB	Log File	No USB Device	Yes	
				or Are you Sure?	No	
					Yes	
				Reset Log	No	
			_	No USB Device	Yes	
			Save Config	or Are You Sure?	No	
			Restore Config	No USB Device or Are You Sure?	Yes	
					No	
			Save Presets	No USB Device or Are You	Yes	
					No	
				No USB Device or Are You	Yes	
			Load Presets		Νο	
				NO USB Device o	ır	
			Update OS	No Update File o	r	
				MM/DD/YY	Are You Sure?	
				PowerFan 1: xxxx rpm		
Fixture	Service Continued		PowerFan 2: xxxx PowerFan 3: xxxx H/SinkFan1: xxxx H/SinkFan2: xxxx H/SinkFan3: xxxx	PowerFan 2: xxxx	rpm	
Continued				PowerFan 3: xxxx	rpm	
				rpm		
				H/SinkFan2: xxxx rpm		
				H/SinkFan3: xxxx rpm		
				H/SinkFan4: xxxx rpm		
				LEDFan1: xxxx rpm		
				LEDFan2: xxxx rpm		
		Diagnostics	Fan Check	GoboFan: xxxx rpm		
		Diagnostics		FrameFan: xxxx rpm		
				HeadFan1: xxxx rpm		
				HeadFan2: xxxx rpm		
				HeadFan3: xxxx rpm		
				HeadFan4: xxxx rpm		
				HeadFan5: xxxx rpm		
				HeadFan6: xxxx r	pm	
				P/TFan: xxxx rpm	1	
				LensFan: xxxx rpm		
			LED Temp	LED: Cur xx °C M	°C Max xx °C	

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT			
	All Test	Run 'ALL TEST'							
	Pan/Tilt Test	Run 'PAN/TILT TEST'							
		Intensity Run Intensity test							
		Pan	Run Pan test						
		Tilt	Run Tilt test						
		Focus	Run Focus test						
		Zoom	Run Zoom test						
		Cyan	Run Cyan test						
		Yellow	Run Yellow test						
		Magenta	Run Magenta test						
		CTO Wheel	Run CTO test	Run CTO test					
		Color Wheel 2	Run Color2 test						
		Color Wheel 1	Run Color1 test						
		Gobo Wheel 1	Run Gobo1 test						
		Gobo Wheel 2	Run Gobo2 test						
	T	Gobo Wheel 3	Run Gobo3 test						
- .	Test Channel	Iris	Run Iris test						
Test		Frame1A	Run Frame1A tes	it					
		Frame1B	Run Frame1B test						
		Frame2A	Run Frame2A test						
		Frame2B	B Run Frame2B test						
		Frame3A	Run Frame3A tes	st					
		Frame3B	Run Frame3B test						
		Frame4A	Run Frame4A te	st					
		Frame4B	Run Frame4B tes	st					
		Frame Rotate	Run FrameR test						
		Prism1	Run Prism1 test						
		Prism2	Run Prism2 test						
		Frost	Run Frost test						
		Strobe Run Strobe test							
	Encoder Pan	xxxxxxx - Displays Pan B_Encoder							
		xxxxxxx - Displays Pan M_Encoder							
	En en deu Till	xxxxxxx - Displays Tilt B_Encoder							
	Encoder Th	xxxxxxx - Displays Tilt M_Encoder							
	Playback	Power Up Preset	1 to 20						
Manual Preset		Preset Intensity	0 - 255						
		Driority	Preset			Default			
		PHONEY	DMX						
		Power Up2	Preset Off			Default			
		Fower op:	Preset On						
		Load Preset	1 to 20						
		Edit Settings	Intensity	0 - 255					
	Edit		Strobe	0 - 255					
			Pan	0 - 255					
			Tilt	0 - 255					
			Cyan	0 - 255					

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT		
			Yellow	0 - 255				
			Magenta	0 - 255				
			СТО	0 - 255				
			Color Wheel 2	0 - 255				
			Color Wheel 1	0 - 255				
			Color Wheel Spin	0 - 255				
			Gobo 1 Selection	0 - 255				
			Gobo 2 Selection	0 - 255				
			Gobo 2 Indx/ Rot 0 - 255					
			Gobo 3 Selection	0 - 255				
			Gobo 3 Indx/ Rot	0 - 255	0 - 255			
			Prism 1	0 - 255				
			Prism 2	0 - 255				
			Zoom	0 - 255				
			Focus	0 - 255				
		Edit Settings Continued Iris 0 - 255 Frost 0 - 255 Frame 1A 0 - 255 Frame 1B 0 - 255 Frame 2A 0 - 255 Frame 2B 0 - 255 Frame 3A 0 - 255 Frame 3B 0 - 255 Frame 4A 0 - 255 Frame 4B 0 - 255 Frame 4B 0 - 255 Frame 4B 0 - 255 Frame 70 - 255 Frame 4B Frame 70 - 255 Frame 4B	Iris	0 - 255				
Manual Preset	Edit Continued		Frost	0 - 255				
Continued			Frame 1A	0 - 255				
			Frame 1B	0 - 255				
			Frame 2A	0 - 255				
			Frame 2B	0 - 255	0 - 255			
			Frame 4A	0 - 255				
			Frame 4B	0 - 255				
			Frame Rotate	0 - 255				
				None	Are You Sure?			
				Figure 8	Are You Sure?			
				Arc	Are You Sure?			
			Movement		Slow			
			Shape	Speed	Medium	Default		
					Fast			
				Size	Small			
					Medium	Default		
		Chana	1.45.00		Large			
		Store	1 thru 20	Are You Sure?				
				Are You Sure?				
		Clear All Presets	Are You Sure?					

ADDRESS

ADDRESS

Sets the starting DMX address for the fixture. Can also be set via RDM.

CONFIGURE

LED

This menu allows for viewing the LED engine hours, setting the dimming curve, dim snap, output mode, fan channel, fan mode, refresh rate, and gamma.

LED Engine Hours

Displays the current LED engine hours.

Dimming Curve

Select from Linear, S-Curve and Square Law. Can also be set via the programmer channel and RDM.

Dim Snap



Dim Snap On allows for fastest output changes between levels but reduces smoothness dimming the LED engine. Dim Snap Off ensures all fades between output levels remains smooth and flicker free but limits fast, instant snaps between levels. Can also be set via the programmer channel and RDM.

Output Mode

Standard mode provides full LED output. Studio mode reduces fan speed to reduce the fan noise of the fixture. Whisper mode decrease the fan noise further. In both Studio mode and Whisper mode, the LED output will decrease accordingly. Can also be set via the control channel and RDM.

Fan Control Channel

By default, the fan control channel is disabled. You can enable the fan control channel by selecting ON from this menu. Can also be enabled or disabled via the control channel.

Fan Mode

Fan On runs fans at continuous max speed based on Output Mode. Fan Auto will reduce/increase speed on demand based on LED operating temperature. The fan will not exceed the maximum permissible level based on Output Mode. Can also be set via the control channel and RDM. See Appendix B.

Refresh Rate

Choose the refresh rate of the LED engine (see Display Menu Tree for list).

VARI******LITE

Gamma Shift

Choose the Gamma shift of the LED engine from 2.00 to 2.80

MOVEMENT

Pan/Tilt

Enable allows for the feedback of the encoders to correct the position of pan/tilt in the case of an uncommanded move. Disable prevents this correction, allowing the unit to by positioned by hand.

Side Hang

Enable allows for the fixture to be mounted at up to a 45° angle from horizontal. Disable should be used when hanging normally.

CAL-POSITION

Home

During calibration, pan and tilt will move to the center (50%) of travel. Once calibration has completed, the fixture will move to the current DMX value of pan and tilt.

DMX

During calibration, pan and tilt will move directly to the current DMX value of pan and tilt.

DISPLAY

Orientation

Sets the orientation of the display. Up should be chosen if the fixture is sitting on its base. Down should be chosen if the fixture is hanging.

On Time

Sets how long the display remains illuminated after the last button touch. Choose from 30 seconds, 5 minutes, 10 minutes, or always on.

Screen Lock

By default, the screen will auto lock to prevent unathorized access. This can be disabled by selecting Off.

FOCUS TRACK

With focus track enabled, once you set a focus (edge) value, running the zoom channel will hold that focus on your image. If you then adjust the focus channel, it will jump to that position based on the DMX value. Disabled will cause the lenses to always move based on the DMX values.

FOLLOW SPOT MODE

Enabling Follow Spot Mode allows the fixture to be hand positioned without the use of DMX. All other functions are still dependent on DMX control. The pan and tilt motors do provide resistance and breaking. If you disable Follow Spot Mode, the pan and tilt will return to the correct position based on the DMX value.

RESET DEFAULTS

Resets all the factory defaults of the fixture. This includes setting the DMX Address to 001. Can also be done via RDM and via the control channel.

NOTE: Control channel will not change the current DMX address.



DMX

ADDRESS

Sets the starting DMX address of the fixture. Can also be set via RDM.

DMX MODE

16Bit Enhanced

Includes luminaire timing channels. See DMX map.

16Bit

Omits luminaire timing channels. See DMX map.

DATA

Allows the current DMX value present on each of the luminaire's DMX channels to be viewed.

PAN/TILT

Swap Pan/Tilt

Choose ON to have the pan mechanism controlled via the tilt DMX channels and vice versa. OFF behaves normally.

Invert Pan

Choose ON to reverse the direction of pan. OFF behaves normally.

Invert Tilt

Choose ON to reverse the direction of tilt. OFF behaves normally.

SELECT SIGNAL

DMX Only

Fixture only responds to DMX via the onboard XLR connector input.

ART-NET

Fixture responds to ART-NET via the onboard RJ45 connector input if set to ON.

sACN

Fixture responds to sACN via the onboard RJ45 connector input if set to ON.

Wireless DMX

Fixture responds to the built in Wireless DMX if set to ON and paired with appropriate transmitter.

NOTE: Lumenradio CRMX devices provided by others.

WIRELESS DMX

VL3600 Profile IP Series come with a built in Wireless DMX receiver. It supports Lumenradio CRMX format. Follow their instructions to configure the transmitter and prepare for pairing.

Unlink

If the luminaire has been paired with a transmitter, it will remain paried to that transmitter unless you come to the Unlink options and then choose Yes. At that point, fixture will pair with a transmitter that is in pair mode.



SET ART-NET

Set Universe

Select the Art-Net universe you wish to connect to (0 to 15)

Net

Select the Art-Net Net you wish to connect to (0 to 127)

Sub-Net

Select the Art-Net Sub-net you wish to connect to (0 to 15)

SET sACN

Set Universe

Select the sACN universe you wish to connect to (1 to 32,000)

Set Priority

Select the sACN priority you wish (0 to 200)

ETHERNET SETTINGS

Ethernet IP

Choose the factory preset IP address for the fixture. IP1 will choose an IP address in the 2.xxx.xxx range and IP2 will choose the 10.xxx.xxx. This will be based on a sub-net mask of 255.0.0.0. Manual allows you to create a custom IP address of your choosing, ensuring you adhere to the correct sub-net mask.

Ethernet Mask IP

Allows you to set you Ethernet Sub-Net Mask if using a manual IP address.

DMX FAIL

DMX Hold

If DMX is lost, fixture will maintain its present state until DMX is restored.

Blackout

If DMX is lost, fixture will go to blackout until DMX is restored.

Goto Preset

If DMX is lost, fixture will go to the preset (1 through 20).

FIXTURE

STATUS

Shows list of error message from previous calibration. If none, it will say No Errors.

RECAL

Runs the calibration routine within the fixture. Can be performed via the control channel or RDM.

REBOOT FIXTURE

Restarts the entire operating system of the fixture. Can be performed via the control channel or RDM.

VERSION

Shows the current software version of the fixture. Version is listed in MM/DD/YY format. Can be viewed via RDM.

FIXTURE HOURS

Shows the accumulated hours the fixture has been powered on. Can be viewed via RDM.

CROSSLOAD (SOFTWARE)

Allows the current version of software installed in the fixture to be sent to other units via an attached DMX cable.

SERVICE

Service Settings - Password protected

This is for the use of authorized service personnel only. Refer to Service Manual for information.

USB

Log File

Saves a .csv file on the usb drive that contains information about the unit, including settings and previous error messages.

Reset Log

Clears the log file so the next time it is recorded will only include items after the file has been cleared.

Save Config

Saves the current configuration of the fixture (including all settings) that can then be restored into another fixture (i.e., replacing a unit in a system).

Restore Config

Allows the configuration that was saved to the USB in another fixture to be loaded into this fixture. Note the Config needs to have already been loaded onto the USB drive (see previous).

Save Presets

Stores the current presets on the USB drive. These can then be loaded into a different fixture or back into the same unit.

Load Presets

Load the saved presets on the USB drive into the current fixture. Note they presets need to have already been loaded onto the USB drive (see previous).

Update OS

A USB drive may be used to update the firmware of the fixture. Visit **WWW.VARI-LITE.COM** to download the latest version. Save to the root level of the USB drive. Install drive into the USB port on the connector panel. Choose Update OS from the menu. Select the version you wish to install and touch [ENTER]. Software will install.

Diagnostics

Fan Check

Displays all fan speeds in RPM.

LED Temp

Displays the current and maximum temperature (since the last power cycle) of the LED engine in °C.

TEST

ALL TEST

Runs the self-test of all functions. To stop the test, press [MENU].

PAN/TILT TEST

Runs the self-test of pan/tilt. to stop the test, press [MENU].

TEST CHANNEL

Choose the function you wish to test from the list and touch [ENTER]. The self-test will run. To stop the test touch [MENU].

ENCODER PAN

Displays the value of the two absolute value encoders for pan. Pan M displays the value of the motor encoder, and Pan B displays the secondary pan encoder. If pan/tilt movement is enabled, the fixture will return to previous position after movement.

ENCODER TILT

Displays the value of the two absolute value encoders for tilt. Tilt M displays the value of the motor encoder, and Tilt B displays the secondary tilt encoder. If pan/tilt movement is enabled, the fixture will return to previous position after movement.

MANUAL PRESET

PLAYBACK

Power Up Preset

Selects the preset (1 to 20) that will be played back after power up if enabled.

Preset Intensity

Selects the master intensity of a preset being played back (0 to 255).

Priority

Choose Preset if you always want a preset to playback. Choose DMX if you only want a preset to playback if there is no DMX present.

Power Up?

Choose Preset On if you want the fixture to playback the preset at power up. Choose Preset Off if you do not want a preset to play.

EDIT

Load Preset

Select from preset 1 to 20 and touch [ENTER]. That preset will be played back.

Edit Settings

Choose the function from the list you wish to edit and touch [ENTER]. Use the [UP]/[DOWN] buttons to set desired value. Touch [ENTER] to store. Then continue to adjust all function desired. Movement Shape allows you to select from 3 preset movement effects (Figure 8, Arc, Line) and also set the speed (slow, medium, fast) and size (small, medium, large). Choose none if no movement effect is desired.

Store

After setting all your functions, select which preset number you wish to store (1 to 20) and touch [EN-TER]. Touch [ENTER] again to confirm when prompted.

Clear

Select the preset (1 to 20) you wish to clear and touch [ENTER]. Touch [ENTER] again to confirm when prompted.

Clear All Presets

When prompted, touch [ENTER] to confirm and all presets (1 to 20) will be erased.

WARNING: Clearing the presets CANNOT be undone!

Presets can also be stored via a DMX controller using the control channel.

APPENDIX A

CARE AND MAINTENANCE

TROUBLESHOOTING

The following are a few common problems that may occur during operation.

The unit does not work; light and fan do not turn on

- Check the connection of power and main fuse.
- Measure the mains voltage on the main connector.

Not responding to DMX controller

- Check DMX connectors, cables to see if they link properly.
- Check the address settings and DMX polarity.
- If you have intermittent DMX signal problems, check the pins on connectors or on DMX PCB of the unit or the previous one.
- Try to use another DMX controller.
- Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

CLEANING

The cleaning of internal lenses must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the fixture's optics.

General cleaning guidelines:

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 30 days.

CLEANING OPTICS, FILTERS AND GOBOS

WARNING: Remove power from luminaires before performing maintenance.

WARNING: Acetone is a harsh cleaning agent and solvent. Acetone is very flammable.

Handle acetone according to manufacturer's safety instructions and precautions.

The front lens, optics/color filters may require cleaning after extended use.

- FRONT LENS: Use a isopropyl alcohol with a soft, lint-free cloth to clean the front lens.
- OPTICS/COLOR FILTERS/ GOBOS: Use Acetone or Isopropyl Alcohol along with a soft, lint-free cloth to clean the optics/color filters.

CAUTION: Do not continuously rub color filters or reflector - it may damage or remove the optical coating.

APPENDIX B FAN SPEED AND CONTROL

ADDENDUM

FAN SPEED AND CONTROL

All Vari-Lite luminaires will be governed by the same fan speed vs. noise levels. vs. maximum power output rules as detailed below. The noise related to these levels will conform to the Noise Criteria levels, details of which are contained within this document.

There are three control parameters that can be selected separately or in conjunction (when permitted) to manage fan speed vs. noise levels vs. maximum power output.

NOTE: Not all fixtures have all modes or functions. Refer to DMX map and User Interface menu tree to see if your product has one or more of these functions.

Output Modes

These modes are selectable at the fixture's DMX control channel or via the fixture's user interface screen.

Boost mode - LED output boosted to >100% of standard output. Fan speeds increased to manage heat level of LED (may be limited to only run for XX hours). Fixture will not exceed NC45-NC55 sound levels in this mode.

Standard mode - Full LED output. Fan speed is set to cool LED appropriately but not exceed NC40 sound level in this mode.

Studio mode - Fan speed reduced to achieve 10% dB reduction from Standard mode and not exceed NC35 sound level. LED output is approximately 80% of Standard output to ensure LEDs operate at optimum temperature and output efficiency. Fan speed remains constant and does not ramp up or down.

Whisper mode - Fan speed reduced to achieve 30% dB reduction from Standard mode and not exceed NC25 sound level. LED output is approximately 60% of Standard output to ensure LEDs operate at optimum temperature and output efficiency. Fan speed remains constant and does not ramp up or down.

Silent mode - fans are turned off or turn very slowly to not contribute to fixture noise. LED output is capped to ensure LEDs operate at optimum temperature and output efficiency. Fans are either off or fan speed remains constant. Target NC15 sound level in this mode



FREQUENCY (HZ)

MODE	LED OUTPUT	FAN SPEED	NOISE CRITERION	EQUIVALENT SOUND LEVEL DBA (@3M)
Boost Mode	>100%	Boosted fan speed constant	NC45	50
Standard Mode	Full 100%	Full 100% constant	NC40	45
Studio Mode	80%	Appropriate speed to reduce dB levels >10% of full speed	NC35	40
Whisper Mode	60%	Appropriate speed to reduce dB levels >30% of full speed	NC25	35
Silent Mode	ТВС	Fan off	NC15	25

	OCTAVE BAND CENTER FREQUENCY (HZ)								
	63	125	250	500	1000	2000	4000	8000	
Charlenton	SOUND PRESSURE LEVELS (DB)								
NC-15	47	36	29	22	17	14	12	11	
NC-20	51	40	33	26	22	19	17	16	
NC-25	54	44	37	31	27	24	22	21	
NC-30	57	48	41	35	31	29	28	27	
NC-35	60	52	45	40	36	34	33	32	
NC-40	64	56	50	45	41	39	38	37	
NC-45	67	60	54	49	46	44	43	42	
NC-50	71	64	58	54	51	49	48	47	
NC-55	74	67	62	58	56	54	53	52	
NC-60	77	71	67	63	61	59	58	57	
NC-65	80	75	71	68	66	64	63	62	
NC-70	83	79	75	72	71	70	69	68	

vls adm fan-tk-jan

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VARI***LI**TE

TECHNICAL SUPPORT

GLOBAL 24HR TECHNICAL SUPPORT:

Call: +1 214 647 7880 entertainment.service@signify.com

NORTH AMERICA SUPPORT: Call: 877-VARI-LITE (877-827-4583) entertainment.service@signify.com

EUROPEAN CUSTOMER SERVICE:

entertainment.europe@signify.com

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VL3600 PROFILE IP SERIES USER MANUAL

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