

VARI*LITE

VL3600 PROFILE IP

USER MANUAL

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. 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

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 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 Strand system, service, and safety guidelines, may cause harmful interference to radio communications.

As tested under this standard:

FCC 47CFR 15B cIA*CEI

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

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



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

- 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/vl3600-profile-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

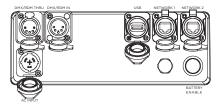
CONNECTING POWER

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



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

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



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

For three-phase power at 208 volts RMS:

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

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 (1000W LED)

AC VOLTAGE AT 60HZ	TOTAL CURRENT
120V	12.66A
180V	8.22A
208V	7.12A
230V	6.32A
240V	6.12A

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 0 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 0 0 1
Male Conn.		Data (-)	Data (+)	Data (-)	Data (+)	3 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.

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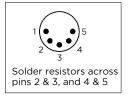
TABLE 2. RECOMMENDED CABLES

TYPE	PAIRS	ΖΩ*	JACKET	AWG	USE	TEMP (°F)	TEMP (°C)
			E	BELDEN CAI	BLES		
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	224P 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.

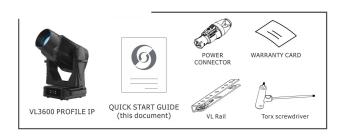


TABLE 3. INCLUDED ITEMS

HANGING THE FIXTURE

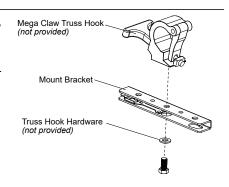
The VL3600 Profile IP can be hung horizontally or 45° vertically from any structure designed to work with the type of load created by this moving luminaire. Two mounting truss hooks or other mounting hardware are required. Many compatible truss hooks are available from different manufacturers for your 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 (also refer to "Truss Hook Hardware (by others)" on page 23) for additional information) on two provided truss hook brackets as required as shown in Figure 2-7.

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.

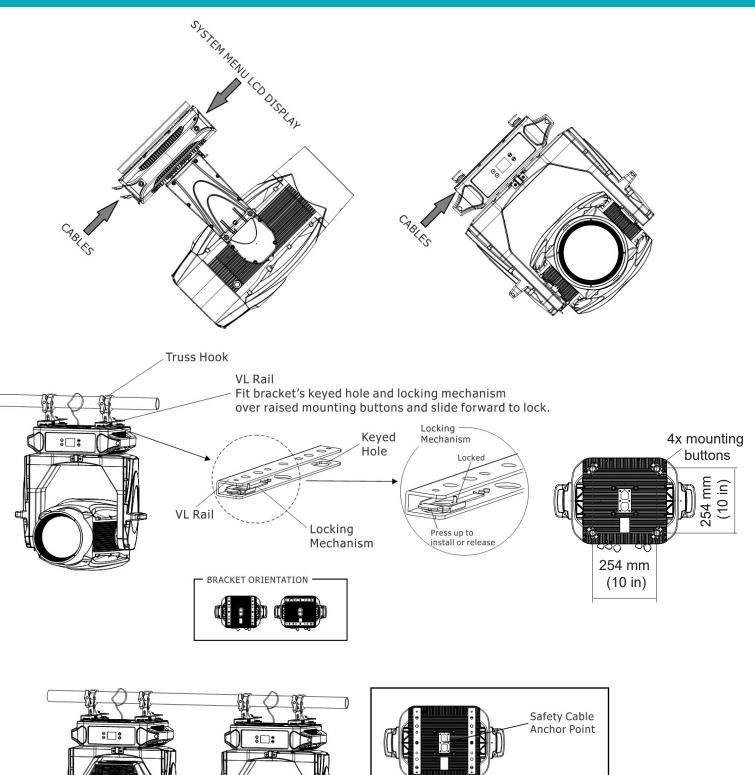
WARNING: Ensure that the bracket locking mechanism is fully seated after the bracket is installed on the luminaire.

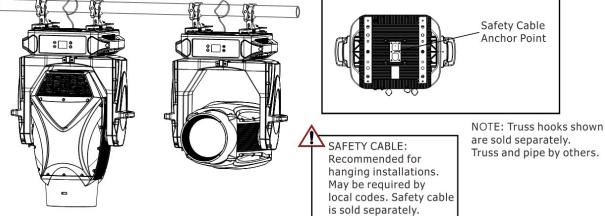
Installing in Truss:

- 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.

VL3600 PROFILE IP





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, uninterrupted airflow for cooling and movement.

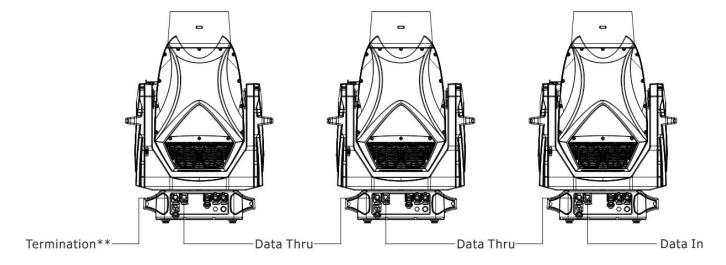
CONNECTING DATA AND POWER

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.

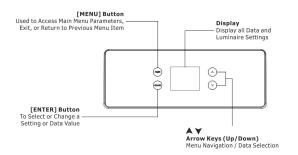
PROGRAM STARTING ADDRESS WITHOUT CALIBRATION

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:

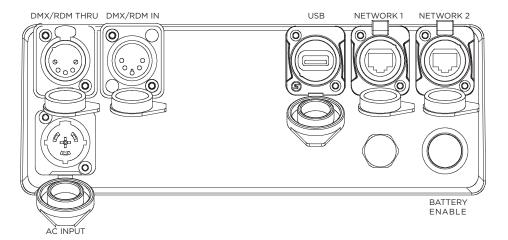
- Power the luminaire on. As soon as the display says 'Calibrating' touch and hold the MENU button.
- After a few seconds, release the menu button and then program address as in Program Starting Address above.

NOTE: The luminaire will require a reset to restore control.



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:

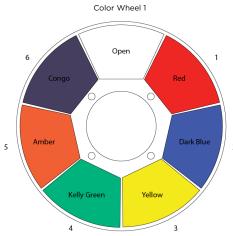
- Luminaire head, yoke, and enclosure sub-assemblies shall be equally supported and constrained where no one sub-assembly (head, yoke, or enclosure) fully supports the entire mass of the luminaire.
- The interior of the case shall be of high quality and uniform density foam. The foam shall be of the 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

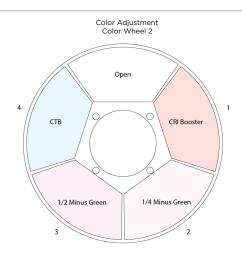
The VL3600 Profile IP contains two fixed color wheels. One holds the normal fixed colors and the second the color adjustments (CRI Booster, 1/4 and 1/2 Minus Green and CTB).

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



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

192 - 223



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

VL*FX WHEEL

6

The effects wheel offers 3 images.

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

208







1. Amoeboid Chamber

2. Dichrofusion

3. Concurrent

GOBO WHEEL

The VL3600 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.











Leary Breakup





5. Dust





9. Blobs

10. Pipes Breakup

бово			
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	126 - 146 136	
7	147 - 167	157	
8	168 - 188	178	
9	189 - 209	199	
10	210 - 230	220	

CAUTION: VL3600 Profile IP accepts glass gobos only. Use of metal gobos in these luminaires may damage

Gobo Wheel 2





1. Night Sky



2. New Twirler



3. Bricked Out



4. Horizontal Slits







6. Honeycomb Reverse



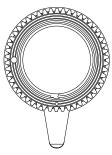
7. On the Rocks

CORO	INDEX		ROTA	ROTATION		MEGA STEPPING	
GOBO SLOT	CENTED OF		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	

gobo assembly and will void the luminaire warranty.

Γ	29.8mm	24mm	1.1mm*	Yes
	GOBO DIAMETER	IMAGE AREA DIAMETER	GLASS THICKNESS	CARRIER REQUIRED?

^{*}Glass gobo's thicker then 1.1mm may be installed (as long as they fit within the carrier) but may need to be glued into place using quality clear silicon RTV.



Rotate Gobo Carrier with Magnet 3033002536



Rotate Gobo Carrier 303300235



Fixed Gobo Carrier 3033002537

Compatible carriers for gobos are shown below.

REMOVE AND INSTALL LUMINAIRE COVERS

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

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

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

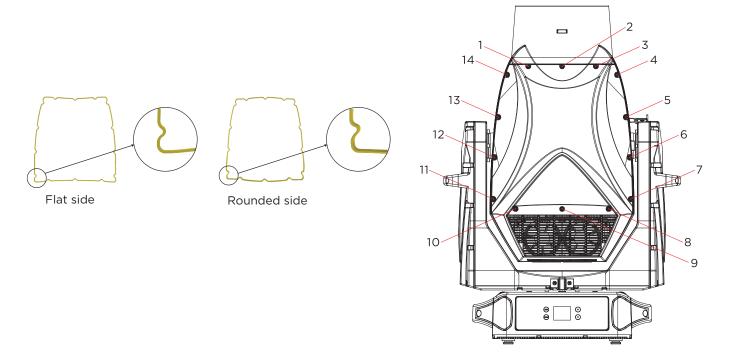
To remove head covers:

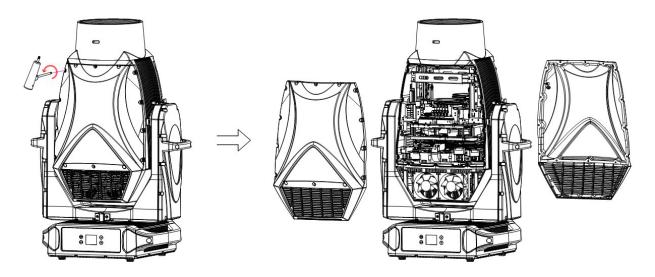
- Step 1. Remove power from luminaire.
- Step 2. Using a Torx T-20 driver (one is supplied with each luminaire) remove the 14 x M4x12mm SHCP T20 screws at each cover. There is no need to remove the waterproof silicon gasket.

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)

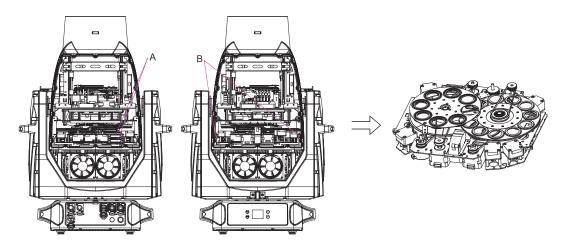




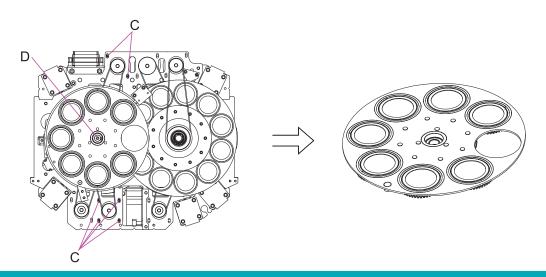
Step 10. Tighten all remaining positions 1,2,3,5,6,8,9,10,12,13 to 20 kgf.cm (1.96 Nm / 1.45 lbf.ft)

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

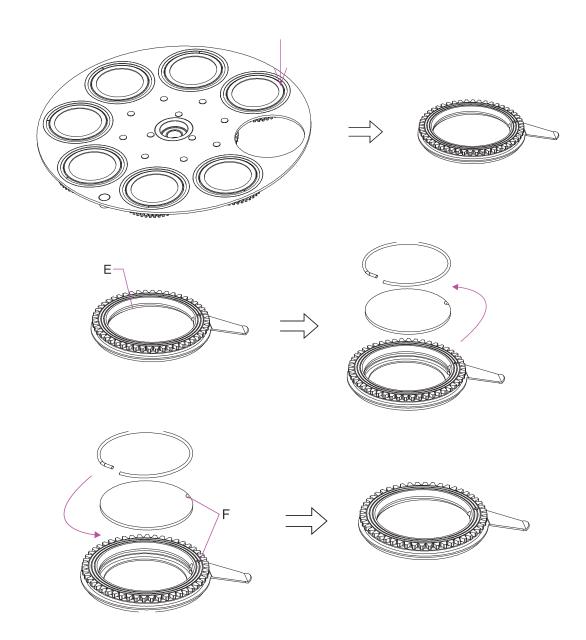
REPLACE A ROTATING GOBO



To replace a rotating gobo (see below):



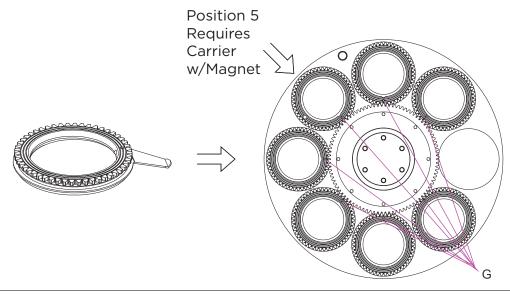
- Step 1. Remove power from luminaire.
- Step 2. Remove top and bottom head covers as described on previous page.
- Step 3. Remove the 4 screws and disconnect the DB Plug at A.
- Step 4. On the other side, remove the 2 screws at B and remove the gobo/color assembly.
- Step 5. Press down on the edge of the rotating gobo carrier you wish to remove and slowly pull out.
- Step 6. 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 7. 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 8. 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 9. 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.



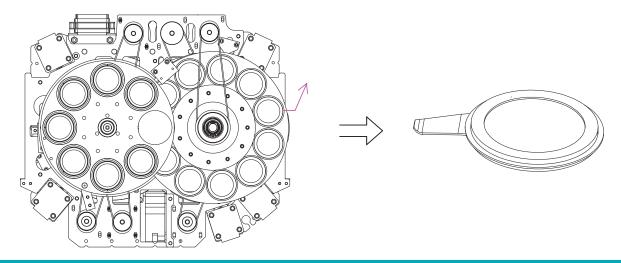
NOTE: Position 5 carrier requires a magnet to calibrate the gobo index/rotation. Always ensure the carrier in that position has a magnet installed.

- Step 10. Replace the gobo wheel on the bulkhead and re-install in fixture. Follow instructions on replacing the covers.
- Step 11. Power and test.

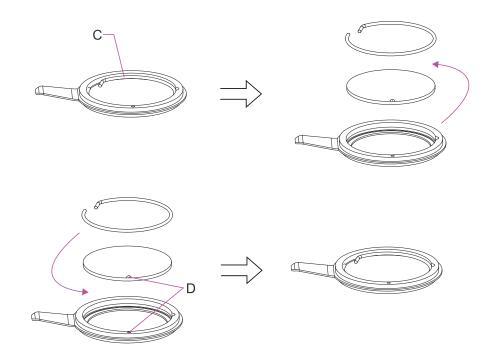
REPLACE A FIXED GOBO

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	CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	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	32767	0-65535	540° Total Pan Rotation
4	4	Pan Low	32/6/	0-65555	540 Total Pari Rotation
5	5	Tilt High	32767	0-65535	270° Total Tilt
6	6	Tilt Low	32/6/	0-65535	270° Total Tilt
7	7	Focus High	32767	0.65575	Focus control
8	8	Focus Low	32/6/	0-65535	Default value 50% Focus range
9	9	Zoom High	70767	0.65575	Zoom control
10	10	Zoom Low	32767	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
				0 - 255	8-bit control of Color Adjustment (Color Wheel 2).
				0 - 30	Open
		Color		31 - 60	CRI Booster
15	15	Adjustment (Color Wheel 2)	0	61 - 90	1/2 Minus Green
		(30101 1111001 2)		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
		(Color Wheel)		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	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
16-BIT	16-BIT EXTENDED (DEFAULT)	PARAMETER			
(22.7.62.7			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
		Gobo Wheel 1 (Fixed)	0	0 - 20	Open - No Gobo
				21 - 41	Gobo 1 Leafy Breakup
				42 - 62	Gobo 2 Medium Circle
				63 - 83	Gobo 3 Square Pile
				84 - 104	Gobo 4 Confusion
18	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
1.5		Control		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
				26 - 30	Gobo 5 Super Alpha Rays Index
			0	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	20	Gobo Wheel 2		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 Byte		32757 - 32780	Rotation STOP
~~		LOW Dyte		32781 - 65535	Rotate Slow to Fast >>>

DMX	CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
16-BIT	16-BIT EXTENDED (DEFAULT)	PARAMETER			
(5217(6217)			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.
				0 -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 Byte	32767	0 - 32756	Rotate Fast to Slow <<<
26	26	Low Byte		32757 - 32780	Rotation STOP
				32781 - 65535	Rotate Slow to Fast >>>

DMX	CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
16-BIT	16-BIT EXTENDED (DEFAULT)	1711011121211	DEIMOEIG	IV W C D I IX	
(BEI AGEI)			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	0.7	VLFX		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	0-255	Iris size control
28	28	Iris		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
38	38	Prism 1	0 - 255	6 - 10	Index
50	30	(Triangular)	0 233	11 - 15	Rotate Normal
				16 - 20	Rotate with Mega Stepping
				21 - 255	Reserved Values

DMX CHANNEL		PARAMETER DEFAULTS	DEFAULTS	RANGE DMX	DESCRIPTION
16-BIT	16-BIT EXTENDED (DEFAULT)	PARAMETER			
39	39	Prism 1 (Index/Rotate) High Byte		0 - 65535 0 - 32756	16-bit control of prism rotation and index. Rotate Fast to Slow <<<
40	40	Low Byte	32767	32757 - 32780 32781 - 65535	Rotation STOP Rotate Slow to Fast >>>
				0 - 255 0 - 5 6 - 10	Controls Prism mechanism with following values. Open Index
41	41	Prism 2 (Flat)	0 - 255	11 - 15 16 - 20 21 - 255	Rotate Normal Rotate with Mega Stepping Reserved Values
42	42	Prism 2 (Index/Rotate) High Byte	32767	0 - 65535 0 - 32756	16-bit control of prism rotation and index. Rotate Fast to Slow <<<
43	43	Low Byte	32707	32757 - 32780 32781 - 65535	Rotation STOP Rotate Slow to Fast >>>
44	44	Frost	0	0-255 0 - 10 11 - 20 21 - 25 26 - 36 37-255	Control of dual frost No Frost Frost 1 Frost 1+2 Frost 2 Reserved
45	45	Strobe	0	0 - 5 6 - 10 11 - 125 126 - 130 131 - 245 246 - 250 251 - 255	Shutter open Shutter closed Strobe Slow>>>>>Fast 0.5Hz-30Hz Shutter open Strobe Random/Random Sync* Slow>>>>>Fast Shutter open Shutter open Shutter closed *See Programmers channel for mode slection
46	46	Future use channel	0		Channel reserved for future use

DMX	CHANNEL	DADAMETED	DEFAULTS	RANGE DMX	DESCRIPTION
16-BIT	16-BIT EXTENDED (DEFAULT)	PARAMETER	DEPAULIS	RANGE DIVIX	DESCRIPTION
	(DEFAULT)				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
				81 - 85	Edge Tracking Off (Default
				86 - 90	Reserved Values
				91 - 95	Color Snap Off (Default)
47	47	Programmers Channel	()	96 - 100	Color Snap On (de-activates color timing channel)
47	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.



16-BIT EXTRIDED (DEFAULT)	DMX	CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
1	16-BIT	EXTENDED	1711011121211	5217(6216	IVIIIVE DI IX	DESCRIPTION
Page	(DEPAULI)			0 - 255		
Sample					0-4	Automatic fan/output adjustment (Default)
Set discrete value of desired effect, wait >3 sec then set value to (Idle). 0 - 5	48	53	Fan Control	0	05 - 255	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
Second Control Full Luminaire ReCal - also used to wake from shutdown					0 - 255	Set discrete value of desired effect, wait >3 sec
11 - 15					0 - 5	Idle (Default to 0)
16 - 20 ReBoot 21 - 25 Display - Menu On (Will 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 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 149 - 150 Fan Control Off (Default) 151 - 155 ReCal Position 156 - 160 ReCal Color 161 - 165 ReCal Beam 166 - 170 ReCal Optics 176 - 180 Reser fixture to defaults 181 - 185 CTB Correction Off (Default) 181 - 185 CTB Correction Off 191 - 195 Reserved					6 - 10	
21 - 25					11 - 15	Fixture Shutdown
26 - 30					16 - 20	ReBoot
Sample					21 - 25	Display - Menu On (Will unlock if locked)
Status Check 91 - 95 Side Hang Disable (Default)					26 - 30	Display - Menu Off
91 - 95					31 - 85	Reserved
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 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 191 - 195 Reserved					86 - 90	Status Check
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 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 191 - 195 Reserved					91 - 95	Side Hang Disable (Default)
111 - 115					96 - 100	Side Hang Enable
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 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 191 - 195 Reserved Reserved 121 - 125 Whisper Mode 126 - 125 Whisper Mode 126 - 125 Whisper Mode 121 - 125 Whisper Mode 126 - 125 Whisper Mode					101 - 110	Reserved
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 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 191 - 195 Reserved					111 - 115	Standard Mode (Default)
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 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 191 - 195 Reserved	49	54		0	116 - 120	Studio 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 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			Control			Whisper Mode
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) 186 - 190 CTB Correction On 191 - 195 Reserved						
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 191 - 195 Reserved						
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 191 - 195 Reserved						
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 191 - 195 Reserved						
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 191 - 195 Reserved						
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 191 - 195 Reserved						
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 191 - 195 Reserved						
171 - 175 ReCal Gobo 176 - 180 Reset fixture to defaults 181 - 185 CTB Correction Off (Default) 186 - 190 CTB Correction On 191 - 195 Reserved						
176 - 180 Reset fixture to defaults 181 - 185 CTB Correction Off (Default) 186 - 190 CTB Correction On 191 - 195 Reserved						·
181 - 185 CTB Correction Off (Default) 186 - 190 CTB Correction On 191 - 195 Reserved						
186 - 190						
191 - 195 Reserved						
106 LI 1104roch 11/1017					191 - 195	LED Refresh 900Hz



DMX	CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
16-BIT	EXTENDED (DEFAULT)				
				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
				211	LED Refresh 4500Hz
				212	LED Refresh 5000Hz
				213	LED Refresh 5500Hz
				214	LED Refresh 6000Hz
				215	LED Refresh 6500Hz
				216	LED Refresh 7000Hz
40		Luminaire		217	LED Refresh 7500Hz
49	54	Control Continued	0	218	LED Refresh 8000Hz
				219	LED Refresh 8500Hz
				220	LED Refresh 10// LE
				221	LED Refresh 10 EKUz
				222	LED Refresh 10.5KHz LED Refresh 11KHz
				223	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	PARAMETER DEFAULTS	RANGE DMX	DESCRIPTION
16-BIT	16-BIT EXTENDED (DEFAULT)	,_,_,			
		Luminaire	0	240	LED Refresh 21.5KHz
				241	LED Refresh 22KHz
				242	LED Refresh 22.5KHz
				243	LED Refresh 23KHz
49	54	Control		244	LED Refresh 23.5KHz
		Continued		245	LED Refresh 24KHz
				246	LED Refresh 24.5KHz
				247	LED Refresh 25KHz
				248 - 255	Reserved

Timing Channel Values

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		6.8
35		7
36	14	7.2
37	17	7.4
38	15	7.4
39	15	7.8
40		8
41	16	8.2
42	10	8.4
43	17	
43	17	8.6
44		8.8

% VALUES	TIME (SEC)
76 VALUES	9
10	9.2
10	9.4
10	
19	9.6
	9.8
20	10
20	10.2
	10.4
01	10.6
21	11
00	11
22	12
	12
0-	13
23	13
	14
24	14
	14
	15
25	15
	16
26	16
	16
	17
27	17
	18
28	18
	18
	19
29	19
	20
30	20
	20
	21
31	21
	21
	22
32	22
	23
33	23
-	23
	24
34	24
	25
35	25
	18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

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	10	34	
112	44	34	
113	77	34	
114		35	
115	45	35	
116	13	36	
117	46	36	
118	10		
119		36	
120	47	37	
	47	37	
121 122	48	38 38	
	40		
123		38	
124	40	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	
173	68	58	
174		58	
175		59	
176	69	59	
177		59	
178		60	
179	70	60	
	-		

SEC) 5 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
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95	
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110	
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120	
130	
130	
140	
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140	
150	
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170	
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0	

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.

VL1600 PROFILE RDM PRODUCT PARAMETER IDS					
Model ID	Manufacturer	Vendor ID	Model Description	Product Category	
0x03E	Vari-Lite	0x564C	VL3600 PROFILE IP	0x0102	

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

GET ALLOWED	SET ALLOWED	RDM PARAMETER IDS	VALUE	COMMENT	ESTA STANDARD	REQUIRED / IMPLEMENTED
Category - N	letwork Mana	agement				
		DISC_UNIQUE_BRANCH	0x0001		X	Х
		DISC_MUTE	0x0002		X	X
		DISC_UN_MUTE	0x0003		X	Х
Χ		PROXIED_DEVICES	0x0010			
Χ		PROXIED_DEVICES_COUNT	0x0011			
Χ	Х	COMMS_STATUS	0x0015			
Category - S	tatus Collect	ion				
Χ		QUEUED_MESSAGE	0x0020			
Χ		STATUS_MESSAGES	0x0030			X
Χ		STATUS_ID_DESCRIPTION	0x0031			X
	Χ	CLEAR_STATUS_ID	0x0032			
Χ	X	SUB_DEVICE_STATUS_ REPORT_THRESHOLD	0x0033			
Category - R	DM Informati	ion				
Χ		SUPPORTED_PARAMETERS	0x0050		X	X
X		PARAMETER_DESCRIPTION	0x0051		X	X
Category - P	roduct Inforn	mation				
Χ		DEVICE_INFO	0x0060		X	X
Χ		PRODUCT_DETAIL_ID_LIST	0x0070			
Χ		DEVICE_MODEL_DESCRIPTION	0x0080			X
X		MANUFACTURER_LABEL	0x0081			X
Χ	Χ	DEVICE_LABEL	0x0082			X
Χ	Χ	FACTORY_DEFAULTS	0x0090			X
Χ		LANGUAGE_CAPABILITIES	0x00A0			
Χ	X	LANGUAGE	0x00B0			
X		SOFTWARE_VERSION_LABEL	0x00C0		X	X
X		BOOT_SOFTWARE_VERSION_ ID	0x00C1			
Χ		BOOT_SOFTWARE_VERSION_ LABEL	0x00C2			
Category - D	MX512 Setup)				
Χ	Х	DMX_PERSONALITY	0x00E0			X
Х		DMX_PERSONALITY_ DESCRIPTION	0x00E1			Х
Χ	X	DMX_START_ADDRESS	0x00F0		X	X
Χ		SLOT_INFO	0x0120			X
Χ		SLOT_DESCRIPTION	0x0121			X
Χ		DEFAULT_SLOT_VALUE	0x0122			X
Category - S	Sensors 0x02	xx				
Χ		SENSOR_DEFINITION	0x0200			X
Χ	X	SENSOR_VALUE	0x0201	Fan speed and temperatures		X
	X	RECORD_SENSORS	0x0202			
Category - D	immer Settin	ngs 0x03xx				
Χ	X	Dimmer Curve	0x0343			X
Χ		Dimmer Curve Description	0x0344			Χ



GET ALLOWED	SET ALLOWED	RDM PARAMETER IDS	VALUE	COMMENT	ESTA STANDARD	REQUIRED / IMPLEMENTED
X	X	Modulation Frequency	0x0347			Х
Х		Modulation Frequency Description	0x0348			X
Category - P	ower / Lamp	Settings 0x04xx				
Χ	Χ	DEVICE_HOURS	0x0400			X
Χ		LAMP_HOURS	0x0401			X
Χ		LAMP_STRIKES	0x0402			X
X		LAMP_STATE	0x0403			X
X		LAMP_ON_MODE	0x0404			X
X		DEVICE_POWER_CYCLES	0x0405			X
Category - D	isplay Setting	gs 0x05xx				
X	Χ	DISPLAY_INVERT	0x0500			X
X	Χ	DISPLAY_LEVEL	0x0501			X
Category - C	onfiguration	0x06xx				
X	Х	PAN_INVERT	0x0600			X
X	Χ	TILT_INVERT	0x0601			Х
Х	Χ	PAN_TILT_SWAP	0x0602			X
X	X	REAL_TIME_CLOCK	0x0603			
Category - IF	% DNS Conf	iguration 0x07xx	_	'		
×		LIST_INTERFACES	0x0700	This is required if any IP setting is used	X*	Х
X		INTERFACE_LABEL	0x0701			X
X		INTERFACE_HARDWARE_ ADDRESS_TYPE1	0x0702			
X	Χ	IPV4_DHCP_MODE	0x0703			
X	Χ	IPV4_ZEROCONF_MODE	0x0704			
Х		IPV4_CURRENT_ADDRESS	0x0705			X
Х	Χ	IPV4_STATIC_ADDRESS	0x0706			X
	Χ	INTERFACE_RENEW_DHCP	0x0707			
	X	INTERFACE_RELEASE_DHCP	0x0708			
	Х	INTERFACE_APPLY_ CONFIGURATION	0x0709	Required if support 0x0703, 0x0704, or 0x0706	X*	X
Х	Χ	IPV4_DEFAULT_ROUTE	0x070A			
Х	Χ	DNS_IPV4_NAME_SERVER	0x070B			
Х	Χ	DNS_HOSTNAME	0x070C			
X	X	DNS_DOMAIN_NAME	0x070D			
Category - C	ontrol 0x10x	X				
X	X	IDENTIFY_DEVICE	0x1000		Х	X
	Χ	RESET_DEVICE	0x1001			X
X	X	POWER_STATE	0x1010			X
X	X	PERFORM_SELFTEST	0x1020	All Test, Pan/Tilt, Encoder		Х
X		SELF_TEST_DESCRIPTION	0x1021			X
	X	CAPTURE PRESET	0x1030	See E1-20_2010a		
Χ	Χ	PRESET PLAYBACK	0x1031	Table A-7 defines		

GET ALLOWED	SET ALLOWED	RDM PARAMETER IDS	VALUE	COMMENT	ESTA STANDARD	REQUIRED / IMPLEMENTED
	ESTA Reserved Future RDM Manufacturer-Specific PIDs		0x7FE0- 0x7FFF 0x8000- 0xFFDF			
Х	X	Output Power Mode	0x8A97	Value range depends on options (Standard, Studio, etc)		X
X	X	Pan/Tilt Feedback (On/Off)	0x8AD3			X
×	Х	Display On Time	0x8AA0	Value range depends on options		Х
×	Х	LED Dimmer Curve	0x8AA1	Value range depends on options		
Χ	Χ	Pan Tilt Movement (On/Off)	0x8AA2			X
X	Χ	Head Motor Movement (On/Off)	0x8AA3			X
X	X	Auto Shutdown Mode	0x8AA4	Value range depends on options		Χ
X	Χ	LED Hours	0x8AA5			X
X	Χ	Dim Snap (On/Off)	0x8AA6			X
X	Χ	Color Snap (On/Off)	0x8AA7			Χ
X	Χ	Auto Fan Mode (On/Off)	0x8AA8			X
X	Х	Gamma Shift	0x8AA9	Value range depends on options		
X	Х	Tungsten Dimming (On/Off)	AAA8x0			
X	Х	CTB Correction (On/Off)	0x8AAB			
Х	Х	LED Refresh Rate	0x8AAC	*** part of section 0x0300 now***		
Χ	Х	Side Hang (On/Off)	0x8AAD			
X	Х	Focus Track (On/Off)	0x8AAE			
	Х	Control Signel select DMX only/ ARtNET (On/Off)	0x8AAF			Х
	X	Recalibrate Fixture (Level)	0x8AB0	different levels (all, position, color, etc)		X
X	Х	DMX Fail (Hold, Blackout, GOTO Preset)	0x8AB1			X
×	Х	ArtNet Universe	0x8AB2	*** part of section 0x0300 now***		X
Х	Х	ArtNet Net	0x8AB3	*** part of section 0x0300 now***		X
Х	Х	ArtNet Sub-Net	0x8AB4	*** part of section 0x0300 now***		X
X	Х	ArtNet Ethernet IP	0x8AB5	*** part of section 0x0300 now***		
Х	Х	ArtNet Ethernet Sub-Net Mask	0x8AB6	*** part of section 0x0300 now***		
Х	Х	Manual PRESET Playback Power Up Preset	0x8AB7			X
Х	Х	Manual PRESET Playback Preset Intensity	0x8AB8			X
X	Х	Manual PRESET Playback Priority	0x8AB9			X



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

5 OPERATION

MENU FUNCTIONS

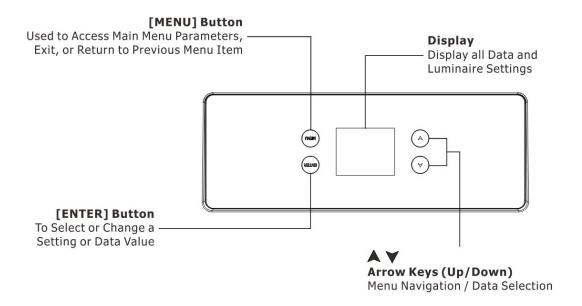
To access the menu, touch the MENU button. Then use the ARROW buttons to navigate through the menu items in the list. Touch ENTER to select. Repeat as needed to move through the menu lists. Once you have reached your desired selection, use the ARROW buttons to choose or set desired setting and then touch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

The VL3600 Profile IP 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

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 Curve			Default
		Dimming Curve	S Curve			
			Linear Curve			
		Dim Coop	On (Fast)			
		Dim Snap	Off (Slow)			Default
			Standard			Default
		Output Mode	Studio			
			Whisper			
		Fan Channel	On			
		Fan Channel	Off			Default
		Fan Mode	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			
		1711112				

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 Continued	20KHz			
			20.5KHz			
			21.5KHz			
	LED Continued		22KHz			
			22.5KHz			
	ELD Continued		23KHz			
			23.5KHz			
			24KHz			
			24.5KHz			
			25KHz			
			2.00			Default
Configure			2.10			
			2.20			
Continued		Gamma Shift	2.30			
			2.40			
			2.50			
			2.60			
			2.70			
			2.80			
		Pan/Tilt	Enable			Default
	Movement	•	Disable			
		Side Hang	Enable			
			Disable			Default
	Cal-Position	Home				Default
		DMX	1			-
		Orientation	Up			Default
			Down			-
			30 Sec			Default
	Display	On time	5 Min			
			10 Min			
			On			Defeat
		Screen Lock (Auto screen lock)	On			Default
			Off			
	Focus Track	Enable				Defeat
		Disable				Default

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT			
	5 II C 1 M 1	Enable							
Configure Continued	Follow Spot Mode	Disable				Default			
Continued	Reset Defaults	Are you sure?							
	Address	001~459 (16 Bit Enhance	ed) 001-464 (16 Bit	t)		001			
	DMX Mode	16 Bit Enhanced				Default			
	DINX Mode	16 Bit	16 Bit						
		Ch 1 - Intensity XXX (value)							
	Data	Ch 2 - Intensity Fine XX	Ch 2 - Intensity Fine XXX (value)						
		All functions							
		Swap Pan/Tilt	Off			Default			
		Swap Fally Till	On						
	Pan/Tilt	Invert Pan	Off			Default			
		invert i dii	On						
		Invert Tilt	Off						
		mivere rine	On						
		DMX Only			Default				
		Art-Net	Off			Default			
		71101100							
	Select Signal	sACN				Default			
DMX			On						
		Wireless DMX	Off			Default			
			On						
	Wireless DMX	Unlink	No						
			Yes						
		Set Universe	0 - 15						
	Set Artnet	Net	0 - 127						
		Sub-Net	0 - 15						
	Set sACN	Set Universe	1 - 32000						
		Priority	0 - 200						
			IP1: 2.xxx.xxx.xxx						
	Ethernet Setings	Ethernet IP	IP2: 10.xxx.xxx.xx						
			Manual	XXX.XXX.XXX					
		Ethernet Mask	xxx.xxx.xxx						
	DMX Fail	DMX Hold				Default			
		Blackout							
		Goto Preset	1 0 20						

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT		
	Status	No Errors of displays a	list of errors					
	ReCal (Fixture)	Are You Sure?						
	Reboot Fixture	Are You Sure?						
	Version	MM/DD/YY						
	Fixture Hours	xxxxxxxh						
Fixture	Crossload (Software)	Send						
		Service Settings	Service Settings Authorized use only. See Service Manual					
			. =:1	No USB Device	Yes			
	Service	USB	Log File	or Are You Sure?	No			
			Reset Log	Yes				
			Reset Log	No				
			Save Config	No USB Device or Are You	Yes			
		USB Continued	Save Comig	Sure?	No			
				No USB Device	Yes			
			Restore Config	or Are You Sure?	No			
				No USB Device	Yes			
	Service Continued		Save Presets	or Are You				
	Service continued			Sure?	No			
			Restore Presets	No USB Device or Are You	Yes			
				Sure?	No			
				NO USB Device of	or			
			Update OS	No Update File o	r			
				MM/DD/YY	Are You Sure?			
					PowerFan 1: xxxx rpm			
				PowerFan 2: xxxx rpm				
				PowerFan 3: xxxx rpm				
				PowerFan 4: xxxx rpm				
Fixture Continued				H/SinkFan1: xxxx				
				H/SinkFan2: xxxx rpm				
				H/SinkFan3: xxxx				
				H/SinkFan4: xxxx				
				LEDFan2: xxxx rp				
			Fan Check	CMYFan: xxxx rp				
	Service Continued Diagnostics		Fall Clieck	GoboFan: xxxx rp				
				FrameFan: xxxx r				
					•			
				HeadFan1: xxxx rpm				
				HeadFan3: xxxx i	HeadFan2: xxxx rpm			
					HeadFan4: xxxx rpm HeadFan5: xxxx rpm			
				HeadFan6: xxxx I				
				P/TFan: xxxx rpn				
				LensFan: xxxx rp				
			LED Temp	LED: Cur xx °C M				
			LED Jellih	LLD. Cui XX C M	un nn 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						
Test -		Cyan	Run Cyan test						
	Test Channel	Yellow	Run Yellow test						
		Magenta	Run Magenta tes	t					
		СТО	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						
		Gobo Wheel 3	Run Gobo3 test						
		Iris	Run Iris test						
		Frame1A	Run Frame1A tes	t					
		Frame1B	Run Frame1B tes	t					
		Frame2A	Run Frame2A tes	st					
		Frame2B	Run Frame2B tes	st					
	Test Channel	Frame3A	Run Frame3A tes	st					
	Continued	Frame3B	Run Frame3B tes	st					
Test		Frame4A	Run Frame4A tes	st					
Continued		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 E	3_Encoder						
		xxxxxxx - Displays Pan N	4_Encoder						
	Encoder Tilt	xxxxxxx - Displays Tilt B	_Encoder						
		xxxxxxx - Displays Tilt M	I_Encoder						

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT
		Power Up Preset	1 to 20			
		Preset Intensity	0 - 255			
	Playback	Priority	Preset			Default
	Flayback	Priority	DMX			
		Power Up?	Preset Off			Default
		1 Ower op:	Preset On			
		Load Preset	1 to 20			
			Intensity	0 - 255		
			Strobe	0 - 255		
			Pan	0 - 255		
			Tilt	0 - 255		
			Cyan	0 - 255		
			Yellow	0 - 255		
			Magenta	0 - 255		
Manual			СТО	0 - 255		
Preset			Color Wheel 2	0 - 255		
			Color Wheel 1	0 - 255		
	Edit		Color Wheel Spin	0 - 255		
		Edit Settings	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		
			Prism 1	0 - 255		
			Prism 2	0 - 255		
			Zoom	0 - 255		
			Focus	0 - 255		

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 mode, refresh rate, and gamma.

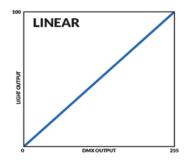
LED Engine Hours

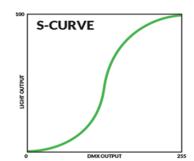
Displays the current LED engine hours.

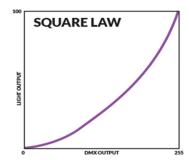
Dimming Curve

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).

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 comes 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.xxx range and IP2 will choose the 10.xxx.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.

Restore 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 [ENTER]. 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

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

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.

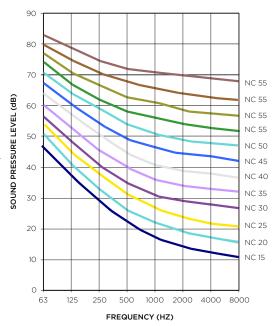
Boost mode - LED output boosted to >100% of standard output. Fan speeds increased to manage heat level of LED (may be limited to only run for XX hours). Fixture will not exceed NC45-NC55 sound levels in this mode.

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.



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	TBC	Fan off	NC15	25

	OCTAVE BAND CENTER FREQUENCY (HZ)								
NOISE	63	125	250	500	1000	2000	4000	8000	
CITIZITION			Sc	OUND PRESSU	RE LEVELS (D	В)			
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-jar



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TECHNICAL SUPPORT

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entertainment.service@signify.com

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VL3600 PROFILE IP USER MANUAL

DOCUMENT NUMBER: REV

VERSION DATE: JULY 7, 2023