



The VARI\*LITE® VL6C™ spot luminaire is an improved version of the VL6B™ luminaire and features a 700 watt short arc lamp and a new cold mirror reflector to provide an extremely bright and flat field. The luminaire is small, lightweight and virtually silent.

The VL6C spot luminaire accepts a wide variety of colors and gobos. Two fixed wheels are included, one factory configured for gobos and the second for color filters. Automated zoom optics and edge control along with a rotating gobo wheel complement the fixed wheels and beam size iris functions for a wide variety of effects. A standard palette of gobos and colors is provided with the unit. Custom gobos are also available.

The VL6C luminaire can be controlled from any VARI\*LITE console or from most DMX-512 consoles.

# VL6C™

s p o t l u m i n a i r e

## Programmable Functions

- Zoom Optics:** Continuously variable field angle from 19° to 43°, programmable over a timed range of 2 seconds to 20 minutes.
- Intensity Control:** Full field dimming designed for both smooth timed fades and strobe effects.
- Color and Gobo Wheels:** 2 wheels, each providing 11 easily loaded positions for user-selectable color and gobo choices.
- Rotating Gobo Wheel:** 6 position gobo wheel. Smooth and stepless individual gobo rotation over a range from .2 RPM to 80 RPM in either direction. Angular resolution is .3°.
- Edge and Pattern Focus:** Variable beam focus to soften edges of gobos or spots.
- Pan and Tilt:** Smooth, time controlled continuous motion by way of a digital servo system.
- Range:** Pan - 360°, Tilt - 270°.
- Max Velocity:** 240° per second.
- Accuracy:** 0.3° resolution.

## Description

- Source:** 700 Watt Short Arc Lamp      Color Temperature      5600°K  
CRI      80
- Output:** 15,500 lumens.
- Power Requirements:** Lamp power from the APS6™ module in the Modular Power Distribution Rack at 90 to 264 VAC, 50/60 Hz. Luminaires are powered through the Smart Repeater™ or Smart Repeater™ Plus processing unit.
- Reflector:** Precision glass reflector with dichroic cold mirror coating.
- Operational Temperature:** -20° to 120°F (-29° to 49°C).
- Cooling:** Forced air.
- Control:** Completely compatible with VARI\*LITE automated lighting systems, featuring the Virtuoso™ and Artisan® console families. Also compatible with a wide variety of DMX-512 consoles.
- Mounting Position:** The VL6C spot luminaire can be mounted and operated in any orientation.
- Spacing:** Hangs on 19 in. (483 mm) centers.
- Weight:** 29 lbs (13.2 kg).

## Accessories

- |              |  |
|--------------|--|
| 71.2528.0700 | 700 Watt Short Arc Lamp                                  |
| 22.9634.0145 | Series 300™ Safety Cable                                 |
| 22.9634.0161 | Series 300 Floor Stand                                   |
| 22.9634.0217 | Series 300 Truss Hook                                    |
| 25.7042.0006 | 6 ft. Shielded Series 300 Lamp Cable                     |
| 25.7042.0012 | 12 ft. Shielded Series 300 Lamp Cable                    |
| 25.7042.0020 | 20 ft. Shielded Series 300 Lamp Cable                    |
| 25.7155.0050 | 50 ft. Shielded Series 300 Lamp Cable (Smart Lamp Plus)  |
| 25.7155.0100 | 100 ft. Shielded Series 300 Lamp Cable (Smart Lamp Plus) |
| 25.7155.0XXX | Custom Length Shielded Series 300 Lamp Cable*            |
| 20.9623.0111 | Smart Repeater™ Unit                                     |
| 20.9623.0600 | Smart Repeater™ Plus Unit                                |
| 20.9625.0024 | Series 300 Molded Plastic Work Trunk                     |
| 20.9625.0112 | Luminaire Case   |

\*Cannot exceed 200 ft. in length.



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## Specifications

The unit is an integrally designed, remote controlled, motorized spot luminaire. The housing and yoke are constructed of aluminum and steel for lightweight strength and are forced-air cooled using two virtually silent fans. The rear lamp cap is removable, providing easy access to the lamp for replacement.

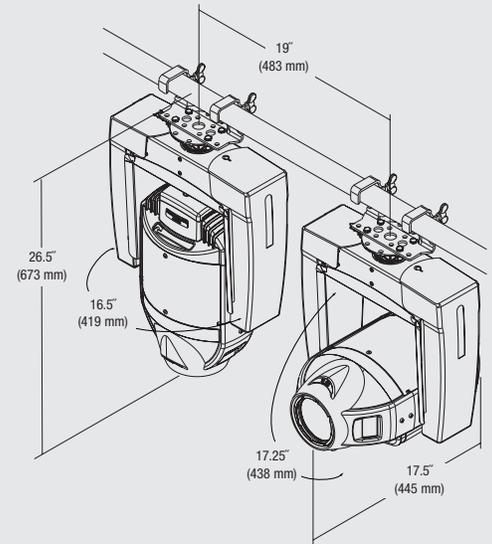
Two enclosed, high torque servomotors permit movement of the head on a horizontal plane of 360° and on a vertical plane of 270°. Control cabling runs internally to prevent tangling. The pan and tilt are belt-driven, providing positional resolution and repeatability of 0.3° on either axis. Manual override under power will not harm the drive mechanism.

Each unit is equipped with an on-board microprocessor providing diagnostic and self-calibration functions. In the event the luminaire encounters any physical obstruction during calibration, the pan and tilt motors will automatically be disabled preventing damage to the mechanisms.

The unit contains two rotating, easily removable filter wheels. Each wheel is capable of holding up to eleven interchangeable, user-selectable dichroic color or gobo choices. The wheels are capable of spinning continuously. A six-position rotating, indexable gobo wheel is also provided. Two motors provide independent drive regardless of direction of movement. All gobos are easily removable from the unit. Positional accuracy of the filter frame in reference to the beam is ensured by the microprocessor, which maintains count of both stepper motors and optical sensors that define the open white positions.

The unit contains an aluminum bladed dimmer mechanism that provides full field dimming and allows for smooth timed fades, fast blackouts and strobing effects. A mechanical iris provides continuous beam size control for both rapid changes and smooth timed beam angle changes. Variable beam focus is provided to soften edges of gobos or spots and provide gobo crossfades. The zoom optics system provides adjustable field angle from 19° to 43°. Using the beam size iris, the luminaire can reach an 8° field angle.

Control cable to luminaire provides both digital control signals and power from the Smart Repeater™ or Smart Repeater™ Plus unit. A safety cable is provided with each unit, and a floor stand is available. Exterior finish is black epoxy coat. Total weight does not exceed 29 lbs (13.2 kg). The unit is CE-marked.



## Photometric Data\*

VL6C Spot Luminaire — 700W Metal Halide					
Zoom Lens Positions	Candela* (cd)	Beam Angle (DEGREES)	Beam Diameter TN <sup>1</sup>	Field Angle (DEGREES)	Field Diameter TN <sup>1</sup>
NFOV	297,000	15.0°	.263	18.5°	.326
MFOV	104,000	25.0°	.443	30.5°	.545
WFOV	50,000	34.5°	.621	42.5°	.777

<sup>1</sup> Multiply distance by Tn to determine coverage.

To calculate center beam Illuminance (I), at a specific distance (D):  $I = \frac{cd}{D^2}$   
 — if (D) is in feet, (I) is in foot candles  
 — if (D) is in meters, (I) is in lux

\* All data taken with seasoned light source at 20 hours of life.

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Express yourself.

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VARI\*LITE® automated lighting equipment is made in the U.S.A. Vari-Lite products are protected by patents granted and pending in the U.S. and other countries.

Vari-Lite, Inc.  
201 Regal Row  
Dallas, TX 75247  
1.877.VARILITE  
fax: 214.630.5867  
www.vari-lite.com



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