

VL500A™ Wash

l u m i n a i r e



Back by popular demand, the VARI***LITE**® VL500A™ Wash luminaire is based upon the Emmy® Award-winning VL5™ Wash luminaire, but with significant design improvements.

The patented and innovative DICHRO***TUNE**™ radial color mixing system employs three sets of 16 radially mounted dichroic blades – magenta, blue, and amber – designed to produce a smooth, full spectrum of color cross-fades.

This luminaire is also available with pastel versions of the standard colors. The pastel colors offer a softer Broadway-type color palette often used in live theater.

For intensity control, the VL500A employs a mechanical dimming mechanism consisting of 16 radially mounted metal dimmer blades to regulate fixture output. For beam control, the VL500A may be purchased with six interchangeable lens options, including clear, stipple (included in stock fixture), 8-row, 10-row, 12-row, and Buxom.

The VL500A is designed with natural convection cooled lamps, and internally cooled electronics which utilize low velocity, low noise micro-fans. Two on-demand fans are mounted internally in the yoke arms and activate only in extreme conditions where ambient temperature exceeds 41°C, or if fixture is mounted in a horizontal position. (700W Ballast has an additional on-demand fan that activates in same conditions.) User override is possible through the unit's menu display.

The VL500A connects to its external ballast unit that mounts near the luminaire. Simply plug in DMX512 and power, and the VL500A may be controlled through a variety of DMX512 lighting control consoles.

The VL500A comes standard with an on-board, backlit, invertible LCD display. This enhanced display is easy to read with or without the backlight on. The display also has an optional extended remote function, which allows “shop” addressing and adjustment of other fixture parameters by means of a battery-powered, hand-held controller, thereby avoiding the need to power the light.

Programmable Functions

Intensity Control:	Internal mechanical douser.
Color Mixing System:	Patented DICHRO* TUNE radial color changing mechanism features independent magenta, blue, and amber color control.
Beam Control:	A selection of six easily interchangeable front lenses work with the internal diffusing mechanism to provide a variety of beam sizes and shapes (Stipple lens comes in the standard model).
Pan and Tilt:	Smooth, time-controlled continuous motion by way of a high-power stepper motor system capable of 0.3° resolution.
Range:	Pan - 540°, Tilt - 270°.

Description

Source:	MSR700/2 700W Arc Lamp	Color Temperature 7200K
Power Requirements:	700W Arc	100-240VAC, 50/60Hz
Reflector:	Precision parabolic glass reflector system with dichroic cold mirror coating.	
Operational Temperature:	-20° to 122°F (-29° to 50°C)	
Cooling:	Natural convection cooling supported by on-demand micro-fans for high temperature applications.	
Control:	Completely compatible with a variety of DMX512 lighting control consoles.	
DMX Channels:	8-13 channels depending upon mode selected.	
Mounting Position:	May be mounted and operated in any orientation.	
Spacing:	Hangs on 19 inch (48.26 cm) centers	
Weight:	Luminaire – 43 lbs. (19.5 kg); External ballast – 16.6 lbs. (7.55 kg)	

Ordering Information

Standard Color Dichroic Glass

20.9685.0006 VL500A Wash luminaire, 700W Arc Lamp with External Ballast

Pastel Color Dichroic Glass

20.9685.0016 VL500A Wash luminaire, 700W Arc Lamp with External Ballast

Accessories

71.9685.0702	MSR700/2 Arc Replacement Lamp
42.9685.0201	Clear Lens (VNSP)
42.9685.0207	Stipple Lens (NSP) Standard with Fixture
42.9685.0203	8-Row Lenticular Lens (MFL)
42.9685.0206	10-Row Lenticular Lens (MFL)
42.9685.0204	12-Row Lenticular Lens (WFL)
42.9685.0205	Buxom Lens (VWFL)
22.9620.0194	Safety Cable Assembly
55.6840.0001	Truss Hook, Mega-Clamp (Round and Square)
55.6841.0001	Truss Hook, Mega-Claw (for 2" Round Tube)



VARI***LITE**®
Express yourself.

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Specifications

Each unit is an integrally designed, remote controlled, motorized wash luminaire. The head, yoke, and enclosure housing are constructed of aluminum alloy and steel for lightweight strength and durability. The front nose ring and rear housing shall be hinged and latched, providing easy access to the lamp and lens for replacement.

Each unit shall be equipped with an on-board microprocessor to control all actions of the luminaire, providing diagnostic and self-calibration functions, as well as internal test routines and software update capabilities.

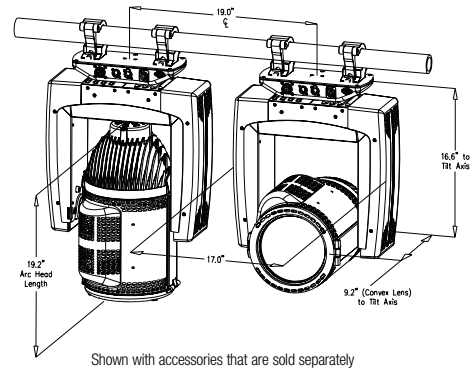
Each unit shall have three-color changers holding a minimum of 16 frames of standard dichroic media (magenta, blue, and amber), or with a pastel color mixing set as requested by the specifier, providing a full spectrum of color cross-fades, with a wide range in the saturated colors.

Each unit shall contain one internal douser mechanism holding a minimum of 16 metal dimmer blades that intercept the beam and provide continuous time variable diffusion range for each of the available lenses.

Each unit shall utilize an 700W (7200-degree color temperature) arc lamp and externally mounted ballast. The luminaire shall employ internally mounted blackout panels for dimming operation, and shall be natural convection cooled with the added use of on-demand micro-fan control.

Pastel (Dichroic Glass) Feature:

Pastel Color Feature: As an option, the luminaire shall be made available with "pastel" or lighter colored magenta and blue color filters. The luminaire, fitted with pastel-colored dichroic glass, shall maintain the electrical specifications of the standard version of the VL500A Wash luminaire.



Shown with accessories that are sold separately

Photometric Data*

700W lamp (7200K Color Temperature)						
Lens	Lumens	Candela (cd)	Foot Candles (measured at 124 inches)	Lux (measured at 3.149 meters)	Beam Angle (degrees)	Field Angle (degrees)
Clear	14,200	948,304	2,616	28,190	3.0	9.0
Stipple	12,400	2,558,277	18,753	201,859	7.6	14.6
8-Row	7,380	204,121	1,684	18,080	13.0	15.6
10-Row	8,040	158,280	1,750	18,820	11.6	18.0
12-Row	6,220	55,568	1,480	15,232	12.0	27.0
Buxom	11,600	26,392	5,213	55,434	15.9	67.8

VARI***LITE**® VL500A™ Ballast Specifications (700W Ballasts)

Input

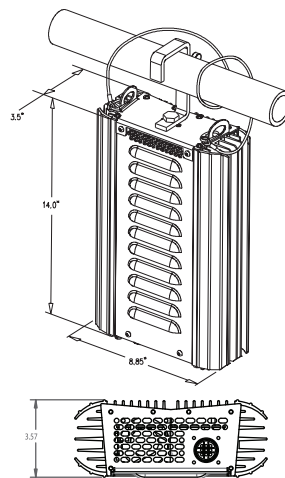
Voltage Range	100 VAC to 240 VAC, Auto-Ranging
Frequency	47 to 63 Hz
Current Range	3.8 A to 12 A
Power Factor	> .97 at 115 VAC > .95 @ 230 VAC

Output

Open Circuit Voltage	400 V
Lamp Voltage	64 V
Lamp Current	11.0 A
Lamp Power	700 W
Output Current Shape	Square Wave
Output Frequency	250 Hz
High Frequency Ripple Current	4%

Weight and Dimensions

Mounting Position	Recommended ballast orientation is vertical (fins up/down as shown in drawing)
Weight	16.6 lbs. (7.55 kg)
Ambient Temperature	40° (maximum)



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