



# VL1000™ ERS

automated ellipsoidal  
reflector spotlight

The VARI\*LITE® VL1000™ ERS luminaire combines the functionality of one of the most popular conventional lighting tools — the ellipsoidal reflector spotlight — with the versatility of an automated luminaire.

Automated functions include CYM color mixing, rotating gobos, variable diffusion and a zoom lens that ranges from 19° to 36° for normal imaging and a super zoom function that ranges to 70°.

Tungsten versions VL1000T, VL1000TI and VL1000TS deliver 10,000 lumens with the consistent color temperature of a tungsten source. The VL1000TS model includes an automated, four-blade shutter mechanism that provides control of all shutter functions popular in conventional ellipsoidal reflector spotlights. Model VL1000TI includes a beam size iris.

## Tungsten

### Programmable Functions

<b>Zoom Optics:</b>	Continuously variable field angle in imaging range from 19° to 36°; super zoom angles to 70° is programmable over a timed range of 2 seconds to 20 minutes.
<b>Color Mixing:</b>	A fully cross-fading CYM color system is included.
<b>Diffusion:</b>	Field or gobo can be continuously and smoothly diffused to wash.
<b>Rotating Gobo Wheel:</b>	Six-position rotating gobo wheel with five rotatable, indexable gobo positions and one open position.
<b>Shutter (Framing Models):</b>	Four-blade system can frame and crop beam field and gobos. Each individual shutter is capable of translating to beam center while also rotating $\pm 35^\circ$ . Entire shutter rotates $\pm 45^\circ$ .
<b>Beam Size Control (Iris Models):</b>	In addition to the zoom optics, a mechanical iris provides continuous beam size control for both rapid changes and smooth timed beam angle changes.
<b>Pan &amp; Tilt:</b>	Smooth, timed continuous motion using stepper motors with encoder correction. Pan range is 540°; tilt is 270°. Resolution is 0.1°. Unit will calibrate to support close hangs (yoke-to-yoke).

### Description

<b>Source:</b>	1000 W Tungsten Halogen Lamp	Color Temp:	3200K
		Output:	10,000 Lumens
		Rated Life:	300 Hours
<b>Power Requirements:</b>	Depending on voltage, 1 to 2 A are supplied to the Tungsten models through standard AC distribution.		
<b>Reflector:</b>	Precision glass reflector with dichroic cold mirror coating.		
<b>Operational Temperature:</b>	-20° to 122°F (-29° to 50°C).		
<b>Cooling:</b>	Free convection cooling when hung. Floor mounted units and extreme ambient temperatures activate a low-noise, forced-air cooling system.		
<b>Control:</b>	Completely compatible with a wide variety of DMX-512 consoles.		
<b>Mounting Position:</b>	The VL1000 ERS luminaire can be mounted and operated in any orientation.		
<b>Spacing:</b>	Full range of motion on 26.5" centers. Hangs as close as 20.0".		
<b>Weight:</b>	70 lbs (32 kg).		

### Accessories

71.2554.0100	1000 Watt Tungsten Lamp, 100 VAC
71.2554.0115	1000 Watt Tungsten Lamp, 115 VAC
71.2554.0230	1000 Watt Tungsten Lamp, 230 VAC
55.6840.0001	Truss Hook, Mega-Clamp, Round and Square
55.6841.0001	Truss Hook, Mega-Claw for 2" Round Tube
41.6010.XXXX	Gobo, VL1000 (Specify pattern from catalog to complete P/N.)



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### Photometric Data\*

FIELD ANGLE (Degrees)	FIELD DIAMETER TN <sup>1</sup>	BEAM ANGLE (Degrees)	BEAM DIAMETER TN <sup>1</sup>	CANDELA (cd)
<b>VL1000 ERS — 1000W Tungsten Halogen (100V Lamp)</b>				
19.5	.344	14.5	.254	151,300
27.0	.480	20.0	.353	85,700
37.0	.669	26.5	.471	44,400
70.0 (Super Zoom)	1.40	30.0	.536	21,400
<b>VL1000 ERS — 1000W Tungsten Halogen (115V Lamp)</b>				
19.5	.344	14.5	.254	146,200
27.0	.480	20.0	.353	82,000
37.0	.669	27.0	.480	42,700
70.0 (Super Zoom)	1.40	31.0	.555	20,700
<b>VL1000 ERS — 1000W Tungsten Halogen (230V Lamp)</b>				
19.5	.344	14.0	.246	127,400
27.0	.480	20.0	.353	70,200
37.0	.669	26.5	.471	36,300
70.0 (Super Zoom)	1.40	30.5	.545	17,580

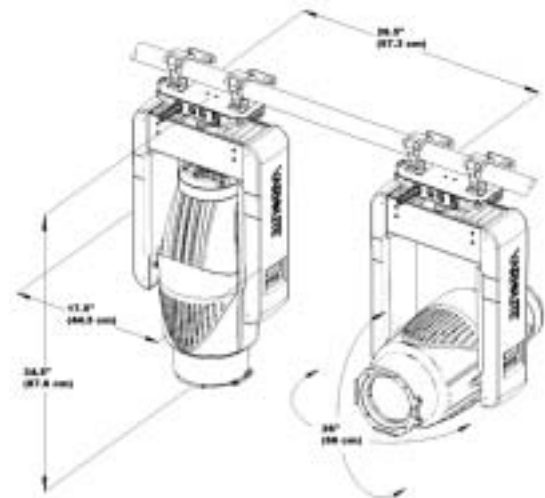
\* All data taken with seasoned light source at 20 hours of life.

<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

### Models

MODEL	PART NUMBER	SOURCE	FRAMING SHUTTERS	IRIS
VL1000 T	20.9663.0001.01	Tungsten	No	No
VL1000 TS	20.9663.0001.02	Tungsten	Yes	No
VL1000 TI	20.9663.0001.03	Tungsten	No	Yes



### Specifications

The unit is an integrally designed, remote-controlled, automated ellipsoidal reflector spot luminaire. An integral enclosure/pan tube supports the luminaire with provisions for two hooks. The pan tube serves as an interconnection point for power and data. Low noise fans provide forced-air cooling for internal components during extreme operating conditions. The rear cap provides three-point lamp adjustment and easy access to the lamp for replacement.

A dimmed lamp power cable, an AC input connector, and two, five-pin DMX-512 compatible connectors (in and through) are provided. The unit can be controlled by a wide variety of DMX-512 consoles.

Each unit is equipped with a high-speed processor providing diagnostic and self-calibration functions as well as internal test routines and software update capabilities. A yoke arm mounted panel and display provide the user interface.

The unit contains independent stepper motors to provide movement of the head through 540° in the horizontal plane (pan) and 270° in the vertical plane (tilt). The luminaire calibrates to minimize hanging distances.

A zooming multi-element optical system provides continuous focus of gobo images for field angles from 19° to 36°. A super zoom function provides field angles to 70°. Independent control of edge is provided.

A CYM color mixing system is provided for a broad range of user color selection. A variable diffusion stage is also included. This stage provides controlled reduction of the contrast ratio of imagery and beam edges. The effect is a continuous transition from spotlight to floodlight.

A six-position gobo wheel with five rotatable, indexable gobo positions and one open position is included. Gobos are easily installed and removed. (A wide selection of gobos is available from Vari-Lite.)

Framing shutter models contain four shutter blades that translate radially across the beam. Each individual shutter is capable of translating to beam center while also rotating ±35°. The framing shutter mechanism rotates as a unit ±45°.

Iris models contain a beam size iris suitable for producing narrow beams and cropping gobos. The unit is ETL and ETLc certified and CE marked. Exterior finish is black. Custom colors may be special ordered.

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