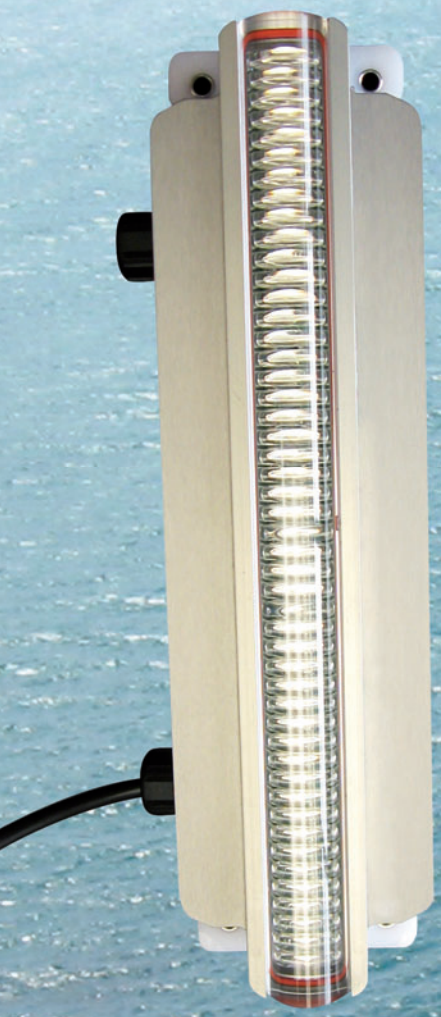
Vega guides the way

VLL-43
LED LINEAR LEAD LIGHT

UP TO 11NM NIGHT AT 0.74T



The VLL-43 Linear Lead Light forms part of the Vega LED marine light family. The optical system utilises an acrylic lens to capture and project the light from the high-powered LEDs. The LEDs are precisely graded and placed to produce a light beam with minimum variation in intensity. The lead light is available in 5 colours, red, green, white, yellow, and blue.

Any number of these lights can be used to achieve the desired range. Each unit has its own control board and can be operated individually allowing each unit to have a different intensity, flash character, or synch delay.

Programming of the VLL-43 could not be easier. Once set the VLL-43 provides automatic Schmidt-Clausen correction for the flash character to increase the peak intensity and maintain the effective range of the light. The peak output intensity cannot exceed the maximum output of the light.

Other programmable features include:

- Separate intensity settings for day and night.
- Nine night/day transition settings.
- Up to 246 standard flash characters.
- One programmable custom character.
- Up to 20 factory set customer characters.
- Wired synch with options of master/slave.
- Synch delay from 0.1 to 9.9 seconds
- Battery low voltage cut off.
- Optional PIN code for programming.

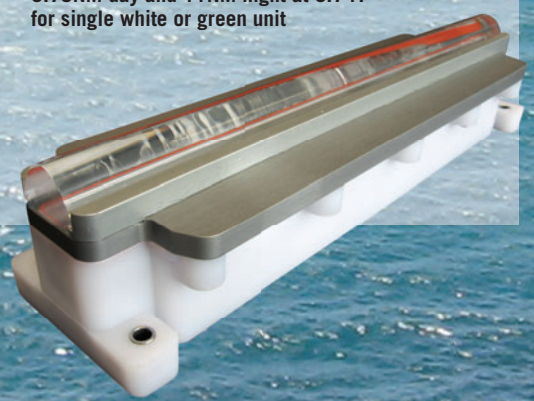
Programming uses the Vega IR programmer. Additional options include:

- External GPS synch using the Vega VSU-29 unit.
- VegaWeb monitoring using the Mini VegaWeb unit.

THE BEAM OF THE LIGHT HAS A HORIZONTAL DIVERGENCE OF 8.5 DEGREES AT 50% AND 15 DEGREES AT 10% OF THE PEAK INTENSITY

USE MULTIPLE UNITS TO OBTAIN DESIRED RANGE

0.75NM day and 11NM night at 0.74T for single white or green unit



IALA AISM

ISO 9001
BUREAU VERITAS Certification

SPECIFICATIONS

Optical Performance

Max Peak / Effective Candela (CD)

	Red	Green	White	Yellow	Blue
Max Peak	1740	2900	3110	1120	630
Max Effective	1390	2360	2360	959	496

- Horizontal divergence of 8.5° at 50% and 15° at 10% of the peak intensity.
- Up to 15 effective intensity settings matching common range requirements.
- Automatic Schmidt-Clausen intensity correction up to the maximum peak intensity available.
- Colours meet IALA chromaticity requirement.
- Nine levels to determine day/night transition. IALA recommendation included.
- Hard wire flash sync with delay capability from 0.1s to 9.9s
- Tested in the Vega zero range light tunnel.

Electrical

Battery Voltage	12VDC
Operating Voltage	9 to 18VDC

Typical Current at Max Peak / Effective Candela (mA):

	Red	Green	White	Yellow	Blue
Max Peak	900	760	700	860	640
Max Effective	580	490	420	550	410

Night off Current	4.0mA
Day Current	0.5mA

- For on currents at lower intensity settings refer to VLL-43 product manual
- For VSU-29 GPS sync unit current, refer to VSU-29 manual
- For VegaWeb monitoring unit currents, refer to VegaWeb product manual.

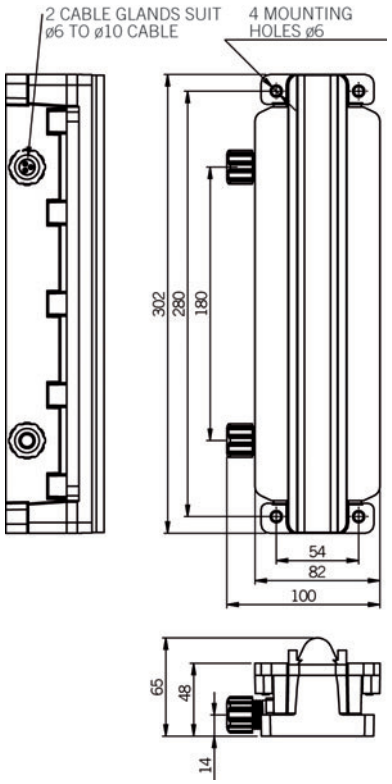
Mechanical & Environment

Temperature	-30° to +60° Celsius
Intrusion rating	IP 68
Cooling	Convection only
Sealing	Fully sealed
Salt	Continuous exposure salt water and spray
Wind	Withstand winds to 140Kt

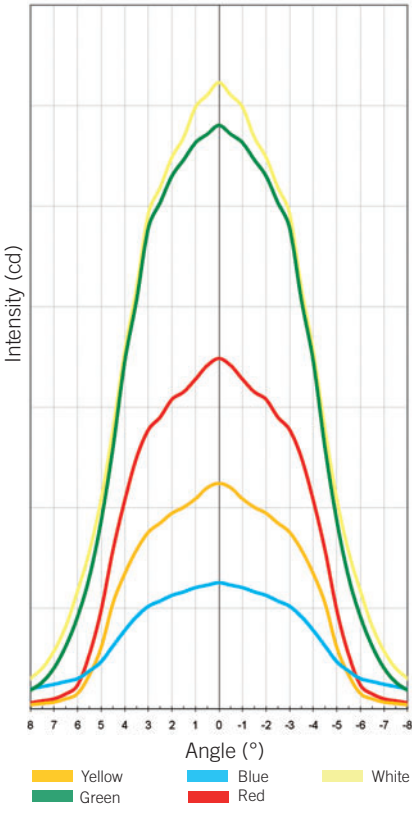
Material for Lantern:

Lens	Optical grade acrylic
Housing	Anodised marine grade aluminium heat sink, and high impact ASA plastic
Sealing	O-rings
Bird Spikes	None
Weight	1.3Kg
Dimensions	See drawings
Mounting	4 holes 6mm diameter
Service Life	10 years
Warranty	1 year. Refer Vega warranty conditions.

DIMENSIONS



INTENSITY PROFILES



DISTRIBUTOR

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