



VLS-46 Ultra

Adjustable LED sector light
25 NM by night, 6,2 NM by day

The VLS-46 Ultra is ideal for harbours with narrow or difficult approaches. The modular design allows up to seven projectors to be placed side by side. This can be used to create unique sector angles, flash patterns and intensities.

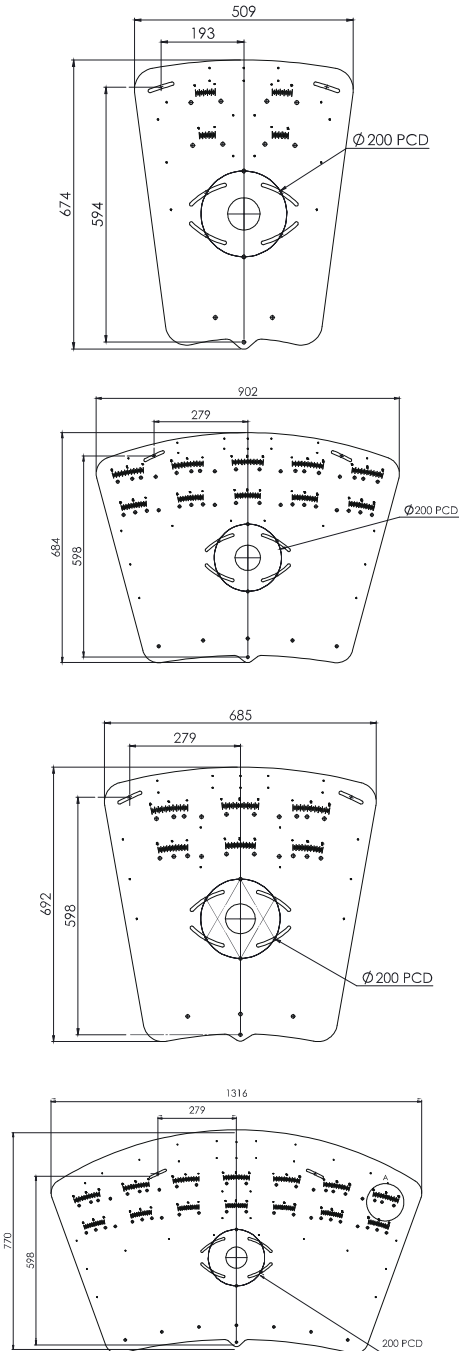
The VLS-46 Ultra has been designed to take advantage of the latest LED technology. The key features include:

- **Peak intensity up to 167000 cd**
- **1 minute of arc boundary precision when viewed from 5000 metres**
- **Large vertical divergence for visibility by all types of vessels**
- **Only one tower is required, compared with range lights. This reduces the installation and maintenance cost by half**
- **Sectors are adjustable. Each projector can be individually adjusted to the width required for the application, within the limits defined in this brochure and product manual**
- **Range 33,2 NM by night and 4,7 NM by day @ 0,85T**
- **Energy-efficient LED technology is ideal for solar-powered sites**
- **Maintenance-free design (no moving parts) will save money and time**
- **Lightweight marine-grade aluminium construction makes the unit light and easy to handle. For example, three 5° projectors including mounting plate weigh approximately 21.8 kg**



Performance

Product	Horizontal divergence	Vertical divergence @ peak intensity	Peak intensity red	Peak intensity green	Peak intensity white
VLS-46U-5D	5°	3.6°	42 000 cd	140 777 cd	167 000 cd
VLS-46U-10D	10°	7.2°	11 320 cd	39 151 cd	45 500 cd
Power consumption @ peak intensity			58 W	85 W	67 W



Optical specification

Light source	High Power Light Emitting Diode (LED)
Horizontal divergence	5°, adjustable from 0.5° – 5° (linear adjustment) 10°, adjustable from 1.0° – 10° (linear adjustment)
Temperature control	LEDs monitored for constant intensity control and over temperature protection

Main technical specification

Nominal range	5 degrees, up to 21,0 NM 10 degrees, up to 17,8 NM
Lens	Acrylic and glass
Base	Marine grade aluminium
Body	Marine grade aluminium and injection moulded UV stable plastic
Designed service life	10 years
Weight	2.4 - 19.1 kg
Temperature range	-30° to +50°C / -22° to +122°F
Voltage	10 - 30 VDC
Solar charger	N/A
Degree of protection	IP67
Cable length	1.5 m

Order Overview VLS-46 Ultra

Product code

Code	Note
VLS-46U-D-Cc(-Cc)(-Cc)(-Cc)(-GS)-BPY	
D	Divergence
C	Color (R, G, W)
c	Quantity of projectors in that colour (1-7)
BPY	Base plate (BP2, BP3, BP5, BP7)

Option matrix

GS	Internal GPS sync module as factory option
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