guides the way

VEGA PRODUCT LINE OCTOBER 2011

Products


Time
VLB-2
VLB-67 WRECK
VLB-67
VLB-36 OBSTACLE LIGHT
VLB-42
VLB-36 WRECK
VLB-36SC
VLB-36SA
VLB-44 Traffic Light
VLB-44
VLB-44
Punta Cumplida Lighthouse
VLB-92 OMNI-MEGA
VLB-44 (2x1)
VRB-25
VSL-73 2.5U
VSL-73 0.5U
VLS-46
PEL Light
VRL-74 UNI-MEGA
VRL-91 UNI-MEGA
VLL-43
Extra Low Range Beacon 1-2NM
Low Range Beacon 2-4NM
Mid Range Beacon 4-6.5NM
Long Range Beacon 6-14NM
Ultra Long Range Beacon 15-20NM
All Round Sector Light
Sector Light
Range Light

New ProductsReleased 2010 / 2011

VLB-2
1-2NM Beacon

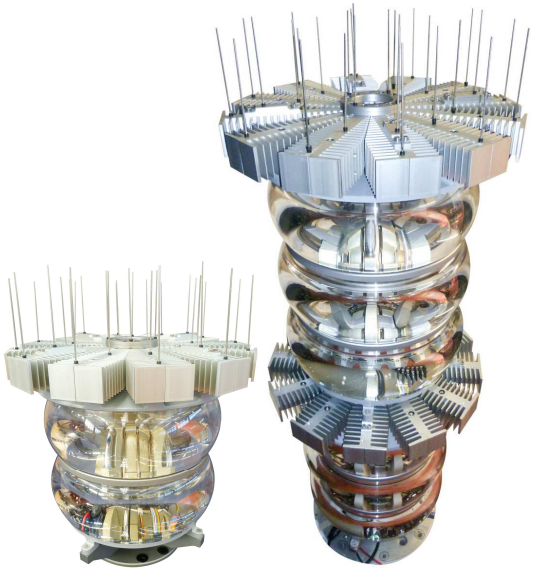
VLB-67
3-4NM Beacon

VLB-36
Obstacle Light

VLB-44
Traffic Light

New ProductsReleased 2010 / 2011

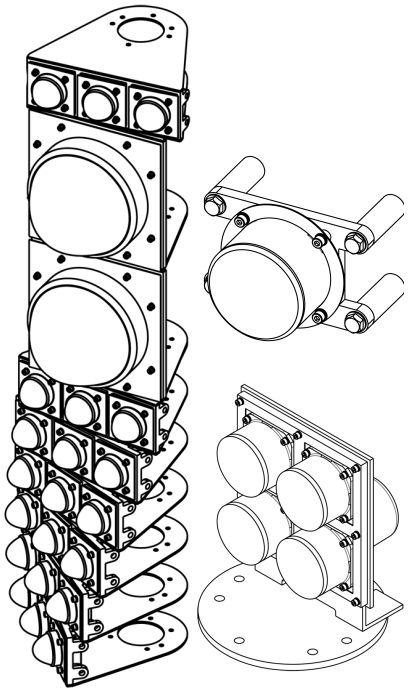
VSL-73
360° LED Sector Light



VLB-92
Omni-Mega

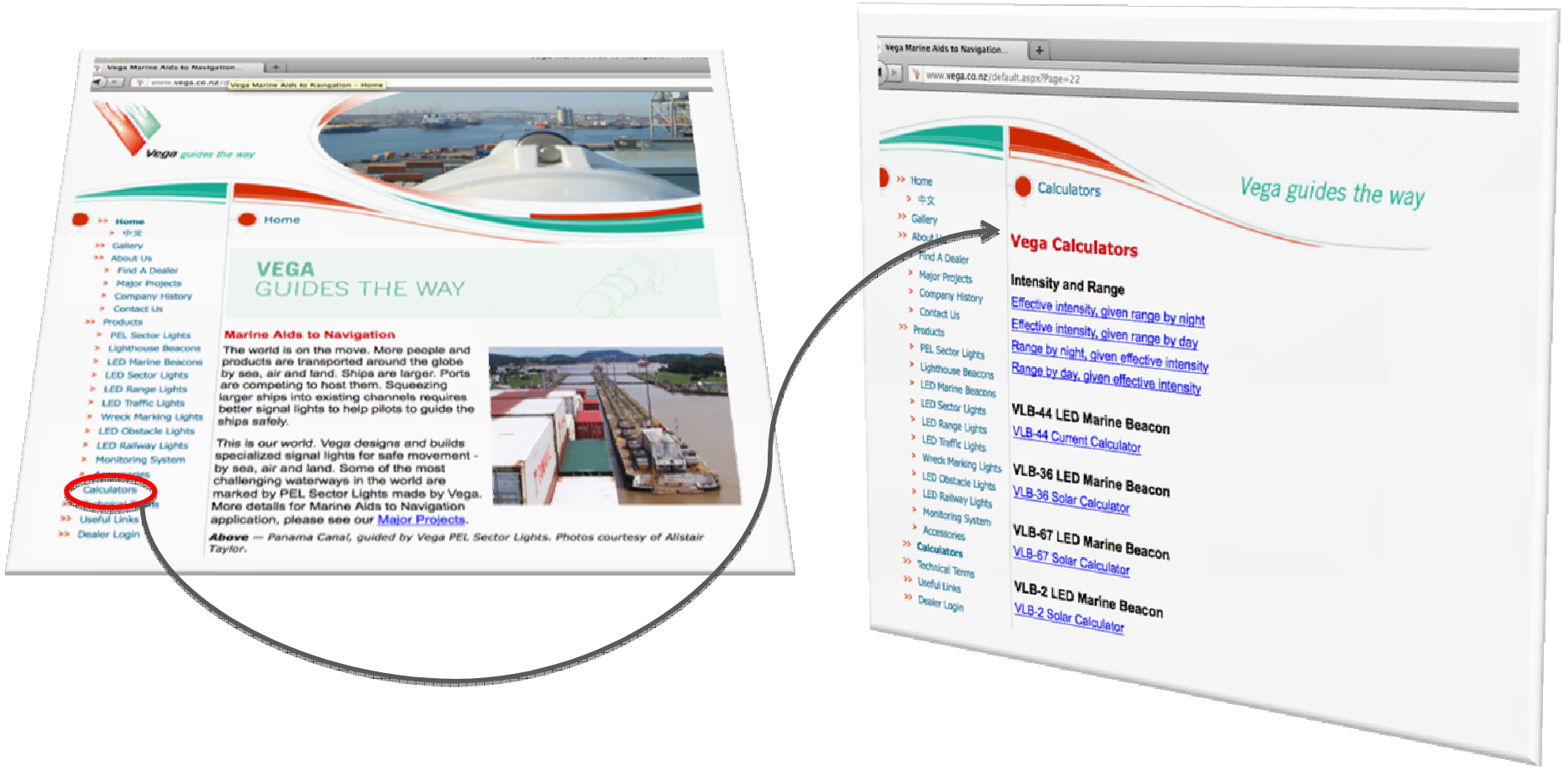
VRL-91
Uni-Mega

VRL-91
Rotating Beacon



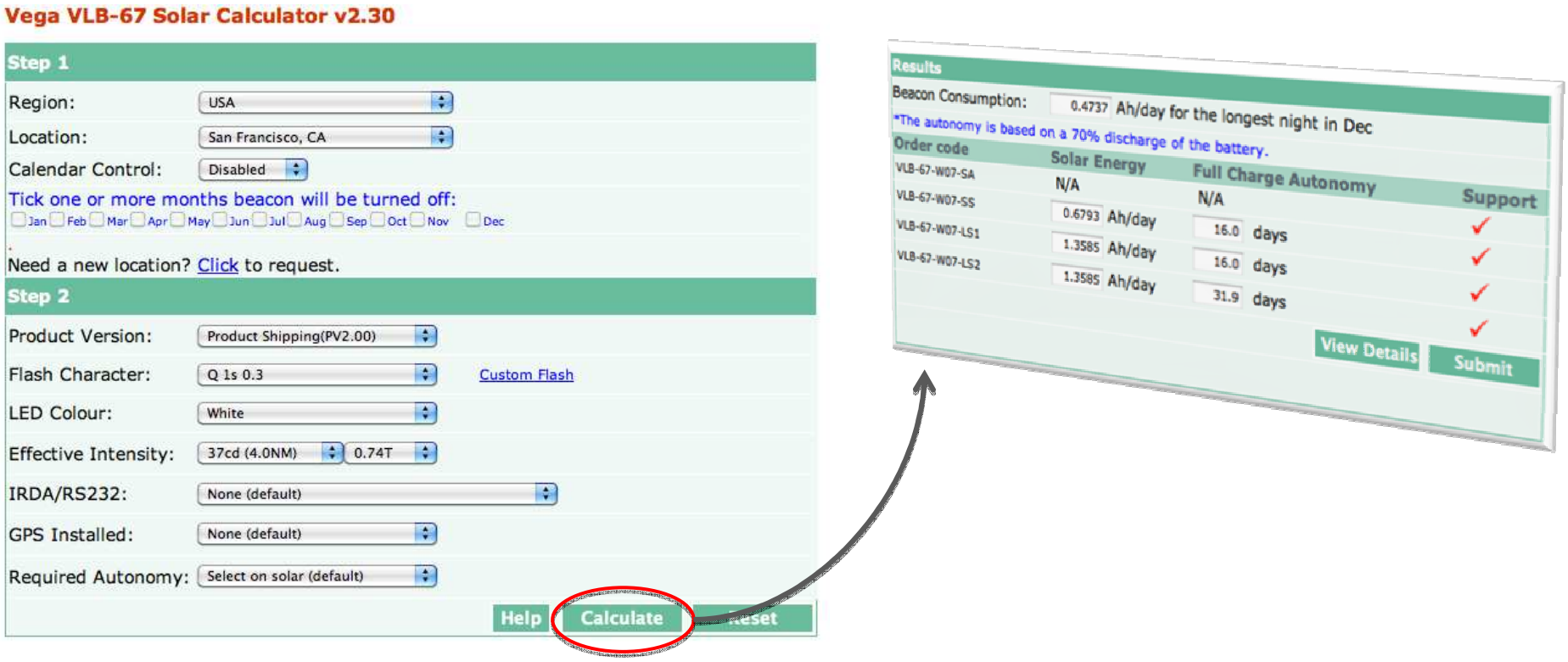
VRL-74
LED Range Light

Web Based Calculators

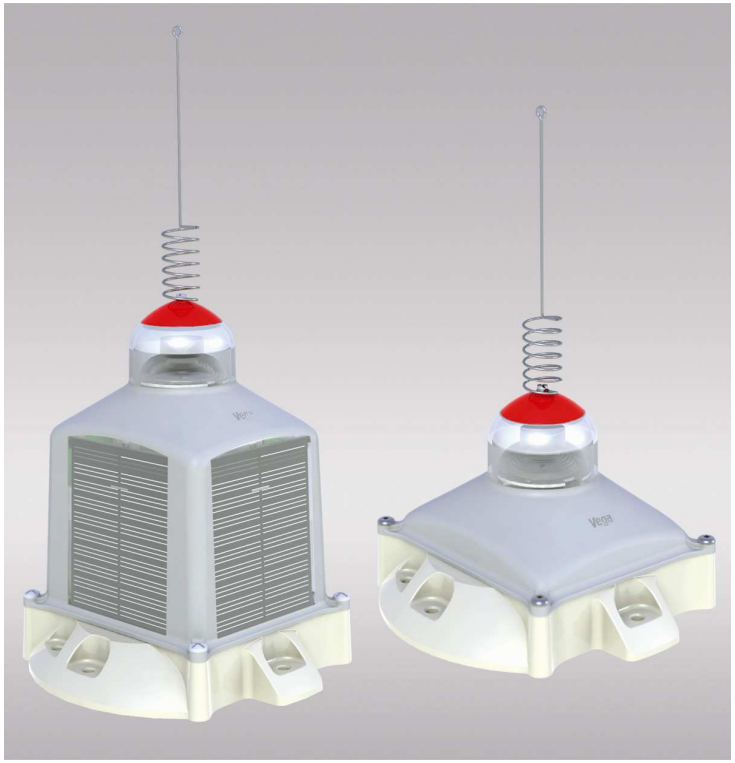


Web Based Calculators

Example: San Francisco, white, Q 1 second, 4NM

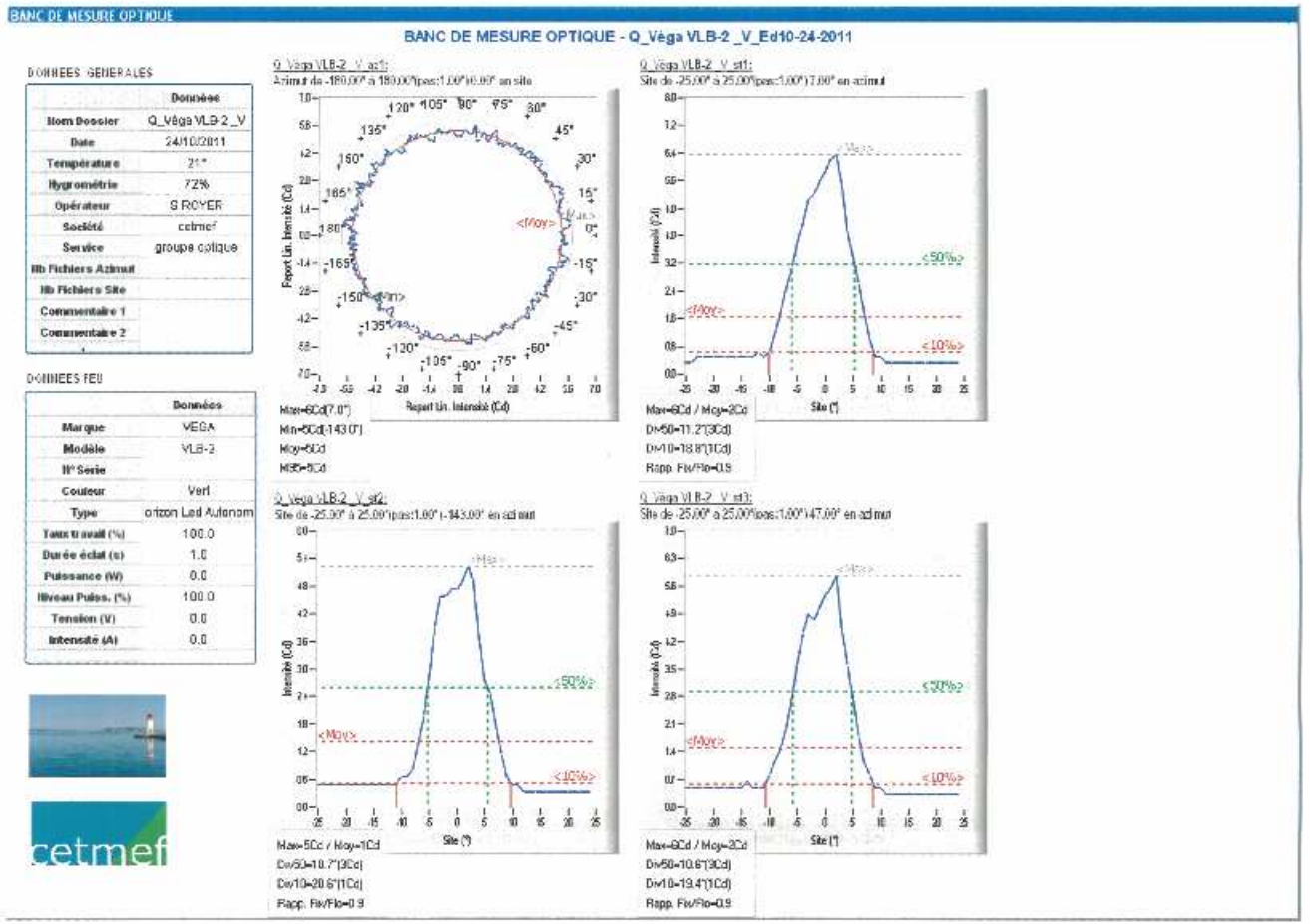


VLB-2 1-2NM LED Beacon



- Standalone or Self Contained
- 10 years life with replaceable battery
- 7 degrees lens
- 150mm PCD mounting
- Can be used over a high degree of latitudes and flash characters
- Self Contained unit with 3.2W of solar panels
- Modular battery pack of one or two 9Ah batteries
- Programmed with TVIR Programmer or with IRDA using computer
- Transport mode for out of the box usage without further programming
- Calendar mode for winter shut down
- Optional charging plug
- Standalone version has space to fit AC to DC power converter

VLB-2 1-2NM LED Beacon



VLB-67 3-5NM LED Beacon

- Stand Alone or Self Contained
- 10 plus year life with replaceable battery
- 7 degrees lens
- 200mm PCD mounting
- Standard Self Contained unit has 7.2 watt solar and one 12Ah battery
- Large Self Contained unit has 14.4 watt solar with one or two 12Ahbatteries
- Programmed with TVIR Programmer or with IRDA using computer
- Transport mode for out of the box usage without further programming
- Calendar mode for winter shut down
- Optional charging plug
- Optional RS 232 Data Port
- Optional alarm monitoring output signal
- Optional GPS synchronization
- Optional sync wire for Self Contained units (standard for Standalone unit)
- Standalone version has space to fit AC to DC power converter

VLB-36 4-7NM LED Beacon

- Standalone or Self Contained
- 10 years life with replaceable battery
- 7 and 10 degrees lens options
- 200mm PCD mounting
- 3 sizes of solar bodies to match beacon to location, range, and duty cycle
- Hard wire and GPS sync options
- Standalone base has space to fit AC to DC power converter
- Programmed with TVIR Programmer

VLB-36/67 Emergency
Wreck Marking Beacon

- **VLB-36 Meets IALA recommendation (O-133) for wreck light**
- Yellow and blue alternating light
- Range 4NM at 0.74T
- 7 degrees vertical divergence
- Character:
  Blu1.0s + 0.5s + Y1.0s + 0.5s = 3.0s
- Hard wire and GPS sync options
- VLB-67 model has less range

VLB-36 Obstacle Light (ICAO Type A & B)
VLB-67 Obstacle Light (ICAO Type A)

- **Meets ICAO requirements for aviation obstacle light**
- Available in all colors (R, G, W, Y)
- Asymmetrical lens with peak at 8 degrees above horizontal
- Can be mounted upside down for bridge marking applications

VLB-44 6-14NM LED Beacon

- Multitier form 1 to 8 tiers
- 3 lens options 2.5, 5, 10 degrees
- 200mm PCD Mounting
- 3 and 4-hole mount options
- Hard wire sync standard
- Use multiple units for 15 and 16NM range
- Programmed with TVIR Programmer

Multi-unit application 15NM range

VLB-44 LED Traffic Light Beacon

Day Range up to 1NM

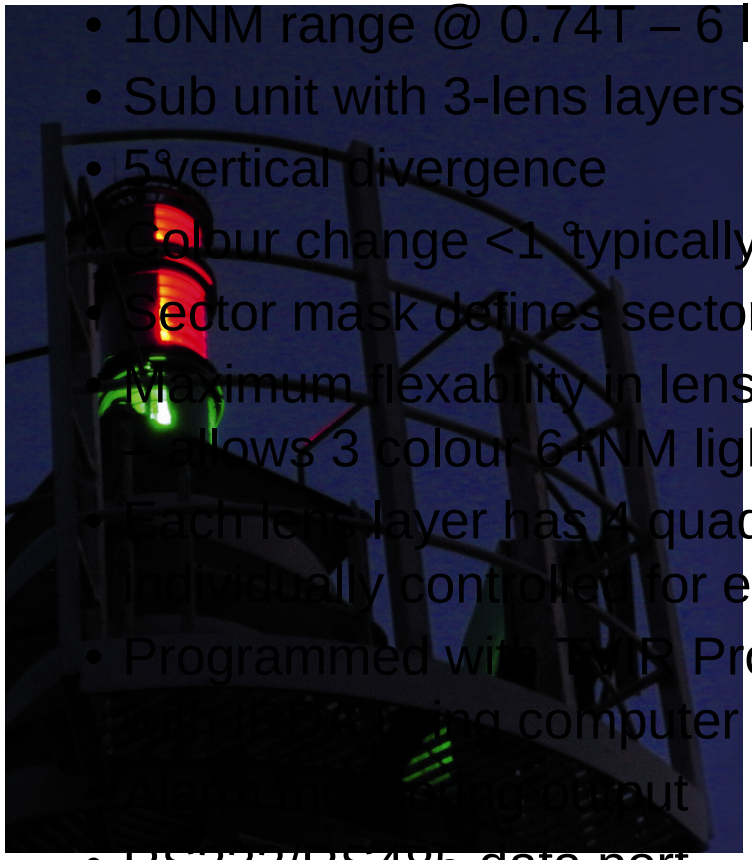
- Variation of VLB-44 Beacon for use in harbour traffic light systems
- Constructed with differing divergent lenses to match the day range requirement to tower height
- Combination of 2.5, 5, 10 degrees, and wide angle asymmetrical lenses
- Allows remote selection of multiple flash characters, Day/Night, and ON/OFF
- Spreadsheet calculator available to optimize performance
- Programmed with TVIR Programmer

VLB-92 OMNI-MEGA

Long Range LED Beacon 16-20NM

- Vertical divergence 3 degrees at 50% intensity
- Modular up to 2 units each containing 3 lenses
- 18NM white using 2 lenses (24 LEDs)
- 3 or 4 hole 200mm PCD mounting
- ON / OFF operation override
- Beacon ON output
- Alarm monitor output
- AIS hard wire Message 21 interface
- Hard wire sync
- Optional RS232/RS485 interface
- Number of tiers depends on color, range, and flash character
- Programmed with TVIR Programmer or with IRDA using computer
- Main or standby units can be mounted on top of each other.

VLS-73 All Round 360°LED Sector Light



- 10NM range @ 0.74T – 6 lens layers/unit
- Sub unit with 3-lens layers
- 5°vertical divergence
- Colour change <1 °typically 0.3 °
- Sector mask defines sector angles
- Maximum flexability in lens layer colour
- Allows 3 colour 6 NM light in one unit
- Each lens layer has 4 quadrants that are individually controlled for energy efficiency
- Programmed with TMR Programmer or
- RS232/RS485 data port

VLS-46 LED Sector Projector

Day Range of 0.75NM; Night Range of 12NM

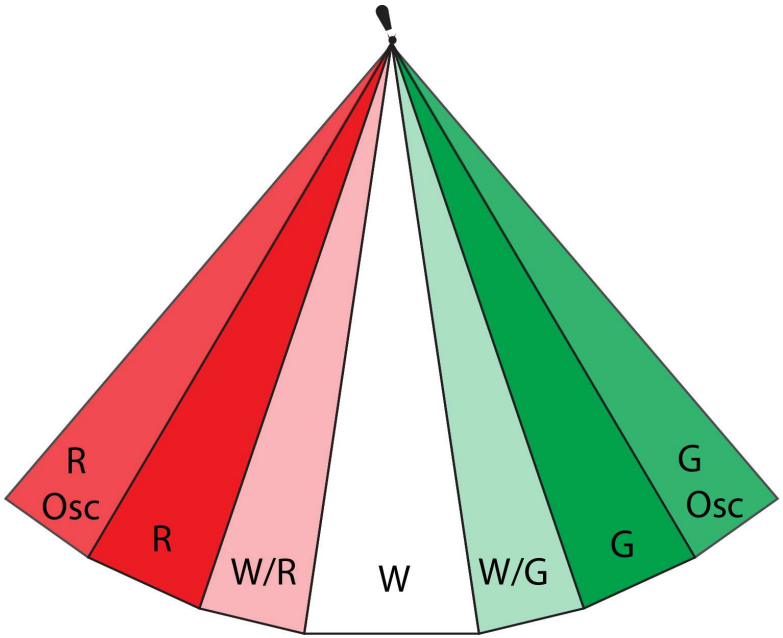
- Directional sector light
- Fixed sector (no oscillating boundary)
- 246 flash characters
- Day and night intensity settings
- Day and night transition synchronized
- Two beam widths of 5 and 10 degrees
- Aperture adjustable 10-100%
- Red, white, green lanterns
- Hard wire and GPS sync options
- Programmed with TVIR Programmer

PEL Sector Light

Day Range up to 6NM; Night Range up to 23NM

- Directional sector light
- Fixed and oscillating boundary sectors
- Day and night intensity settings
- Halogen lamps
- Two models PEL-6 and PEL-3
- Multiple beam widths, 3.5, 5, 7, 10, 15, and 20 degrees

PEL Sector Light
Oscillating Boundary



- **Oscillating boundaries increase sectors form 3 to 5 or 7 sectors**
- **Lateral position can be judged in oscillating sector by proportion of oscillating colors in flash character**

PEL Projects

Port of Durban Deepening Project 6NM by Day

- 6 x PEL-6-5D Sector Lights
- Synchronised Oscillating Boundary using precision motion control
- Boundary resolution better than 1.5 minutes of arc

VRB-25 Rotating Beacon
Up to 23NM

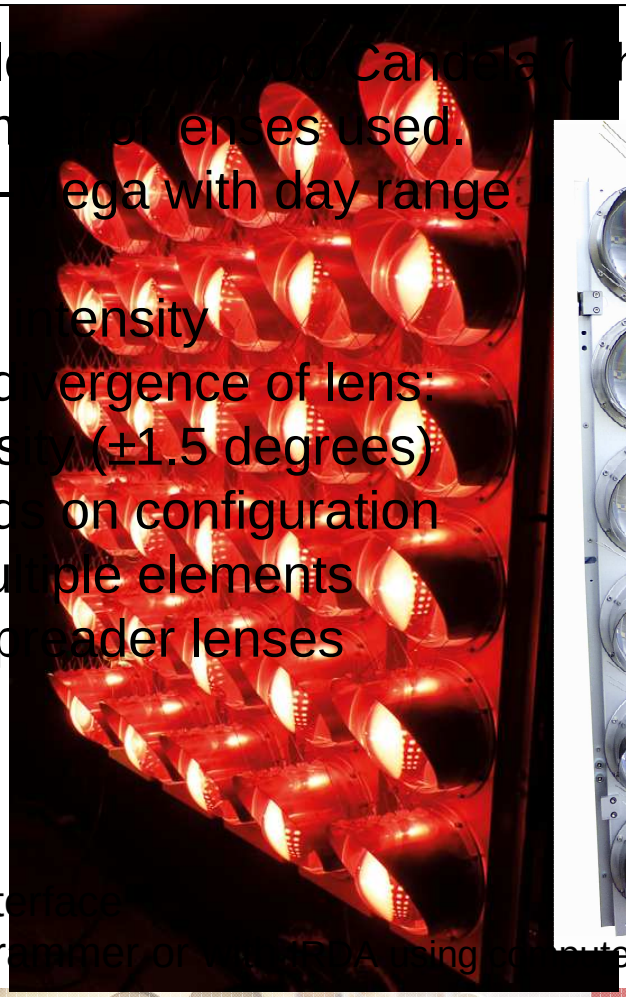
- Range is dependent on rotation speed and lamp wattage
- 6 or 8 panel units
- Halogen lamps max 100w
- Electronically commutated motor for rotation
- 6 position lamp changer
- 200mm PCD mounting

VLL-43 LED Linear Lead Light
Day Range 0.75NM; Night Range 12NM

- 8 degrees horizontal divergence
- 20 degrees vertical divergence
- Intensity settings for day and night
- Day/night transition sync between units
- Can use multiple units to increase range
- Hard wire sync standard
- Programmed with TVIR Programmer

VRL-91 UNI-MEGA
High Power LED Range Light

- Intensity of single LED/l[illegible]Candela (White)
- Range depends on num[illegible]enses used. Vega has delivered Uni-[illegible]ega with day range over 10NM @ 0.74T
- Separate day and night [illegible]ensity
- Vertical and horizontal d[illegible]ergence of lens: 3 degrees at 50% intens[illegible] (±1.5 degrees)
- Horizontal width depend[illegible]on configuration
  (1) Long range uses mu[illegible]ple elements
  (2) Lower range uses sp[illegible]ader lenses
- ON/OFF control
- Alarm monitoring output
- RS232/RS485 data port
- Hard wire sync
- AIS hard wire message 21 int[illegible]
- Programmed with TVIR Progra[illegible]mer or [illegible]ing [illegible]puter



VRL-91 UNI-MEGA

High Power LED Range Light

BANC DE MESURE OPTIQUE

BANC DE MESURE OPTIQUE - Essai Vega_Ed10-26-2011

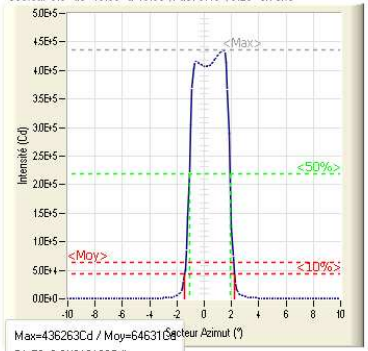
DONNEES GENERALES

	Données
Nom Dossier	Essai Vega
Date	
Température	
Hygrométrie	
Opérateur	S ROYER
Société	cetmef
Service	groupe optique
Nb Fichiers Azimut	
Nb Fichiers Site	
Commentaire 1	
Commentaire 2	

DONNEES FEU

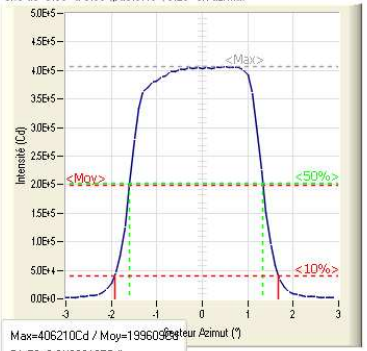
	Données
Marque	
Modèle	
N° Série	
Couleur	
Type	
Taux travail (%)	100.0
Durée éclat (s)	1.0
Puissance (W)	0.0
Niveau Puiss. (%)	100.0
Tension (V)	5.79
Intensité (A)	9.0

Essai Vega_az1_S0.0:
Secteur 0.0° de -10.00° à 10.00°(Pas: 0.10°) 0.20° en site

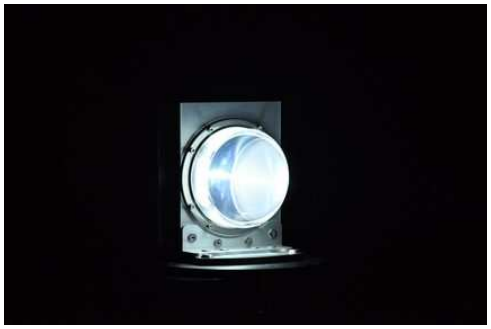


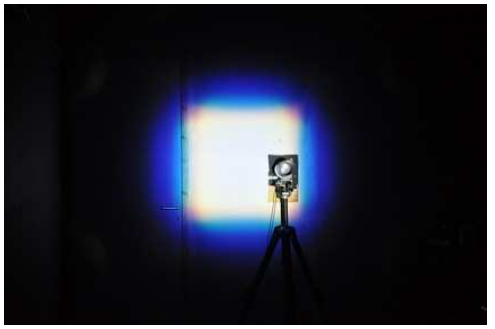
Max=436263Cd / Moy=64631Cd
Div50=3.0°(218132Cd)
Div10=3.6°(43626Cd)
Rapp. Fix/Flo= N/A

Essai Vega_st1:
Site de -3.00° à 3.00°(pas:0.10°) 0.20° en azimut



Max=406210Cd / Moy=199605Cd
Div50=2.9°(203105Cd)
Div10=3.6°(40621Cd)
Rapp. Fix/Flo= N/A

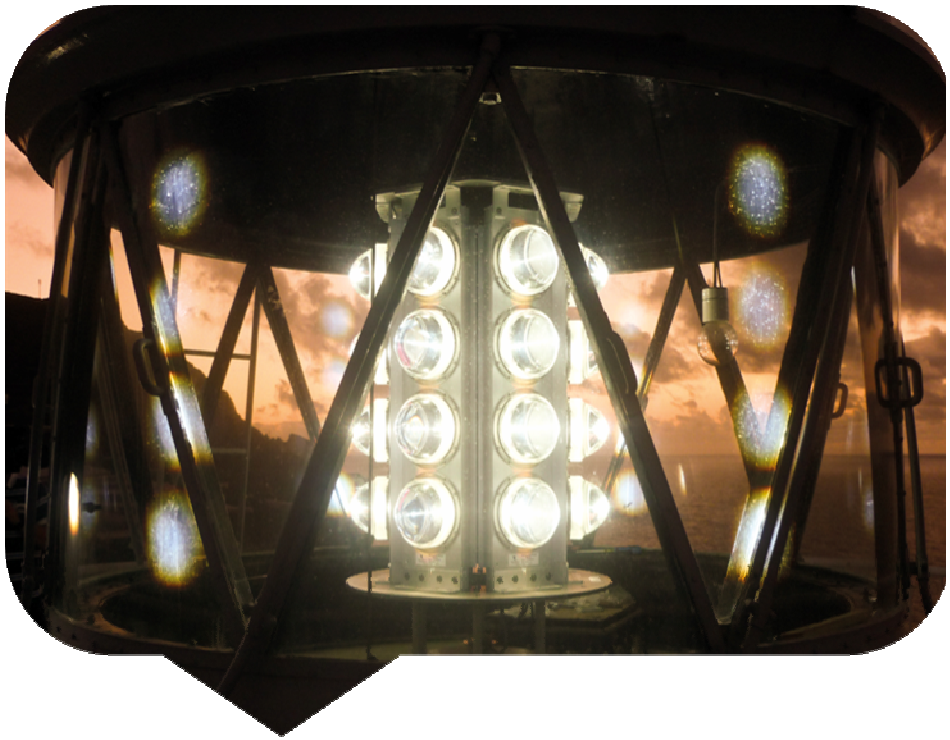




cetmef

VRL-91 UNI-MEGA
High Power LED Rotating Beacon

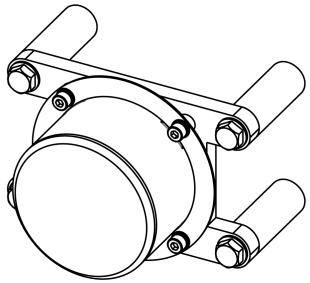
- High intensity LED/Lens
- Range depends on number of lenses and rotation speed
- Intensity of single LED/lens>400,000 Candela (white)
- Vertical divergence of 3 degrees at 50% of center intensity
- Used for refurbishment of traditional lighthouses – utilizes existing turntable and slip rings
- Programmed with TVIR Programmer or with IRDA using computer
- ON/OFF control
- Alarm monitoring output
- RS232/RS485 data port
- Hard wire sync • AIS hard wire message 21 interface

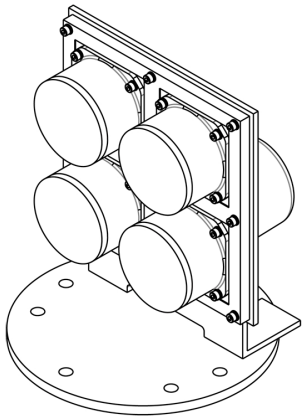


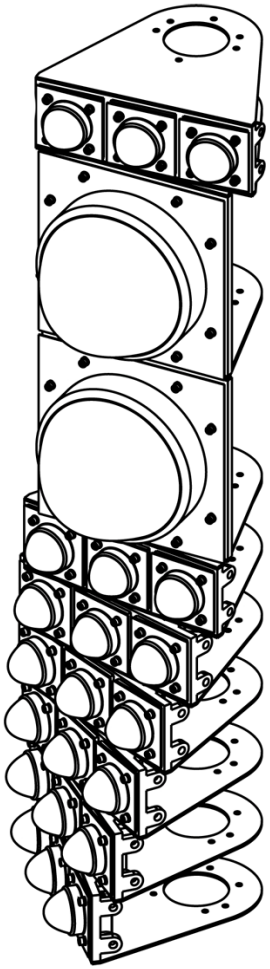
Punta Cumplida Lighthouse
Range 24NM @ 0.74T

VRL-74
Long Range LED Range Light

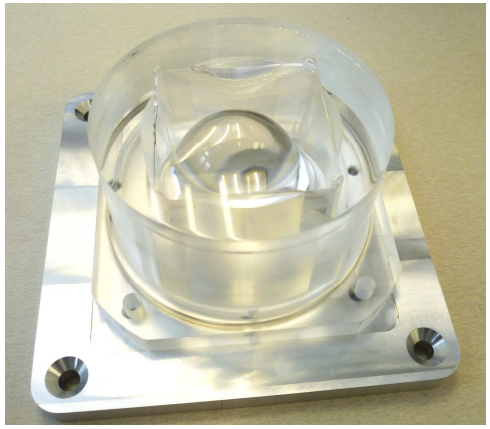
- Lower cost solution than VRL-91 Uni Mega Range Light
- Day range depends on number of lenses used.
  Typically used up to 7NM @ 0.74T
- Separate day and night intensity
- Intensity of single element >100,000 Candela (white)
- ±1.5°vertical and horizontal divergence 50% of cen ter intensity
- Horizontal and vertical configuration is depended on
  (1) Long range by using multiple lenses
  (2) Lower range by using spreader lenses
- Programmed with TVIR Programmer or
  with IRDA using computer
- ON/OFF control
- Alarm monitoring output
- RS232/RS485 data port
- Hard wire sync
- AIS hard wire message 21 interface

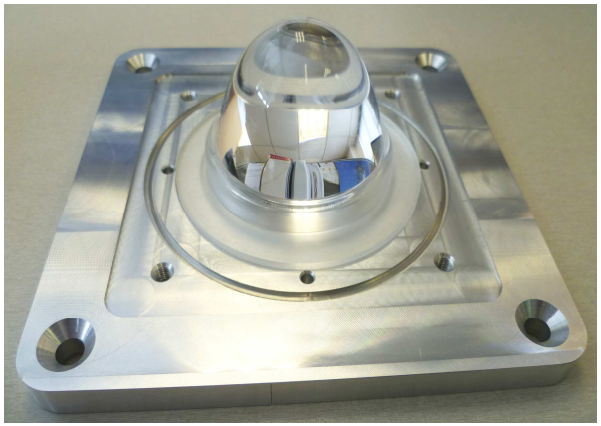






VRL-74
Long Range LED Range Light

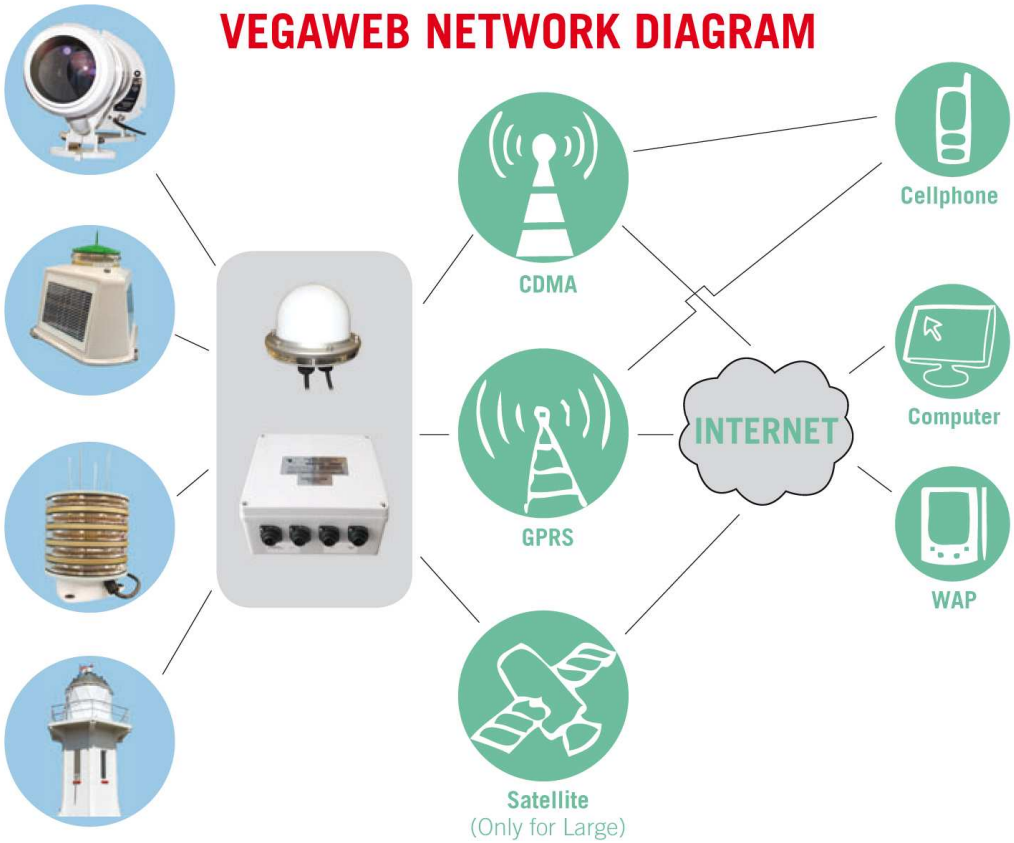




VSU-29 GPS Sync Unit

- **GPS synchronization unit**
- Both positive and negative sync transition outputs
- Can be used with PEL lights and all Vega LED beacons
- Sync delay up to 9.9 sec if required
- Pole or VLB-44 mounting
- GPS or UTC timing

VegaWeb
Monitoring System



Details

2 Models

- Standard for PEL & rotating beacons
- Mini for LED lights

2 Monitoring System

- Internet based (Large + Mini)
- SMS status (Mini)

3 Communication Options

- GSM / GPRS cellular network
- CDMA cellular network
- Orbcomm or Iridium satellite
- Ethernet for connection to proprietary networks
- Options
  - GPS for position monitoring
  - Accelerometer for collision monitoring

Alarm Notified

- SMS to cellphone
- email

Access

- From anywhere
- Vega hosted or
- Customer hosted (conditions apply)

Thank you!

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