

### **SC 160 II**

# Self-contained LED lantern for buoys and beacons

SC 160 II is a long range self-contained LED lantern with best-in-class optical performance for fixed and floating structures. The lantern includes solar panels, battery and change controller. This lantern is designed for harsh marine environments and for long uninterrupted operation.

- Range up to 10 NM @0.74T and 14 NM @0.85T depending on the georaphical location
- Standard IALA colours red, green, white and yellow
- Lantern made of rugged injection moulded aluminium housing and UV resistant polyethylene body
- Integrated flasher with day-night switch and solar charger
- Standard VRLA battery and ventilated battery compartment
- Solar modules covered with tempered glass
- Adjustable intensity and range
- Available with narrow (5°) or wide (10°) vertical divergence
- Programmable with Bluetooth control mobile app up to 50m radius
- Other wireless programming options available such as Sabik Easy Programmer or PC/USB inter face
- Integrated event log for 365 days
- Optional integrated GPS sychronization and GSM remote monitoring
- External charge port or external solar module



#### Integrated AIS

- Available in two models: Type 1 (FATDMA) and Type 3 (RATDMA)
- AIS transponder integrated in the top part of the lantern
- Integrated GPS antenna and external VHF antenna included in the delivery
- Extremely low power consumption when used as Type 1 < 45 mW with 1 message / 3 minutes (about 0.09 Ah/day)
- Support messages: 6 and 21
- Supports up to 10 virtual AtoN:s

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## **SC 160 II**

#### Performance

	Vertical divergence  @ 50% peak intensity	Peak intensity red	Peak intensity green	Peak intensity yellow	Peak intensity white
SC-160-2-10D	10°	550 cd	550 cd	800 cd	1100 cd
SC-160-2-05D	5°	1 000 cd	1 000 cd	1200 cd	1850 cd
Power consumption  @ peak intensity		13 W	16 W	16 W	16 W

#### **Electrical specification**

Nominal operating voltage	12 VDC / 24 VDC
Operating voltage range	10 - 32 VDC
Solar panel charger	16 A PWM charger

#### Main technical specification

Lens visual / Mechanical diameter	160 mm
Lens material	UV stabilized acrylic
Light source	High Power Light Emitting Diodes
Solar modules	3 × 11 W
Battery	VRLA GEL-Type, 60 Ah / 12 V
Weight	35 kg / 77.1 lb
Temperature range	-40° to +60°C / -40° to +140°F
Installation	3 x M12 on 330 mm dia

#### **Functional features**

Remote monitoring	Optional: GSM & AIS
Programming	Infra red programmer
Sychronization	Wire sync, optional: GPS
Flash character	246 standard + 1 custom character
Day / night mode	Automatic and programmable 0.3% - 100% intensity

#### **Product code**

Code	Note
SC160-2V-cddd-OPT	
V	VRLA Battery
С	Colour (W, R, G, or Y)
ddd	Divergence (05D or 10D) 10D: 10° 05D: 5°
OPT	Option (1L, 4L, 8L, 9L, 11L, AIS1 or AIS3)

#### Product code example: SC160-2V-R10D-4L

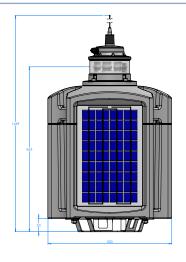
- SC160-2V-R10D is the code for SC160 II with VRLA battery and red color with 10-degree-lens
- $\emph{4L}$  is a selection of option integrated GPS sync including GPS atenna

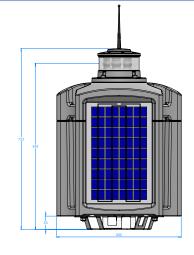
#### **Option matrix**

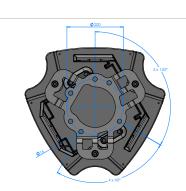
1L: Optical feedback	Integrated LED performance measurement	
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4L: GPS sync	Integrated GPS sync including GPS antenana	
OL - Limbe Cornerd COM - CDC	Integrated GSM / GPS based monitoring	
9L: LightGuard GSM + GPS	including GSM / GPS antennas	
11L: Battery control card	Control card for secondary (emergency) battery	
AIS1	Lantern with integrated AIS type 1	
AIS3	Lantern with integrated AIS type 3	

#### Dimensions

Product	Packing dimensions (DxWxH) mm	Gross weight kg	Packing dimensions (DxWxH) inch	Gross weight lb
SC-160-2	540×540×880	51	21.3×21.3×34.6	112.4







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