

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 × 18 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

Optional: GSM & AIS
Infra red programmer
Wire sync, optional: GPS
246 standard + 1 custom character
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°	
Option (1L, 4L, 8L, 9L, 11L, AIS1 or AI		

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

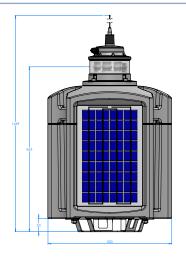
- SC160-2V-R10D is the code for SC160 II with VRLA battery and red color with 10-degree-lens
- $\emph{4L}$ is a selection of option integrated GPS sync including GPS atenna

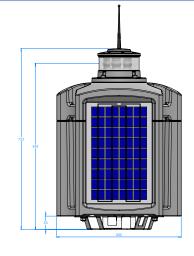
Option matrix

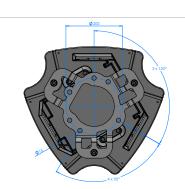
1L: Optical feedback	Integrated LED performance measurement
4L: GPS sync	Integrated GPS sync including GPS antenana
9L: LightGuard GSM + GPS	Integrated GSM / GPS based monitoring including GSM / GPS antennas
11L: Battery control card	Control card for secondary (emergency) battery
AIS1	Lantern with integrated 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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