



SC 160 I

Self-contained LED lantern for buoys and beacons

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

- Range up to 8 NM @0.74T and 11 NM @0.85T depending on the geographical 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, Li-on battery optional
- 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 interface
- Integrated event log for 365 days
- Optional integrated GPS synchronization 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

Performance

	Vertical divergence @ 50% peak intensity	Peak intensity red	Peak intensity green	Peak intensity yellow	Peak intensity white
SC-160-1-10D	10°	550 cd	550 cd	800 cd	1 100 cd
SC-160-1-05D	5°	1 000 cd	1 000 cd	1 200 cd	1 850 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 x 10 W
Battery	VRLA GEL-Type, 32 Ah / 12 V Li-on, 35 Ah / 12 V
Weight	27 kg / 59.5 lb 20 kg with Li-on battery / 44.1 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
Synchronization	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
SC160-1b-cddd -OPT	
b	Battery option (V or Li)
c	colour (W, R, G, or Y)
ddd	Divergence (05D or 10D) 10D: 10° 05D: 5°
OPT	Option (1L, 4L, 9L, 11L, AIS1 or AIS3)

Product code example: SC160-1V-W10D-4L

- SC160-1V-W10D is the code for SC160 I with VRLA battery in white color and 10-degree-lens
- 4L is a selection of option integrated GPS sync including GPS antenna

Option matrix

1L: Optical feedback	Integrated LED performance measurement
4L: GPS sync	Integrated GPS sync including GPS antenna
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-160-1	480x450x800	35	18.9x17.7x31.5	77.2

