

SC 160 I

Self-contained LED lantern for buoys and beacons

SC 160 I is a 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 (Tc=0,74) 11 NM (Tc=0,85) depending on geographical location
- Standard IALA colours Red, Green, White, Yellow
- Lantern made of rugged injection moulded aluminium housing and UV resistant polyethylene body
- Integrated flasher with day-light 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 50 m radius
- Other wireless programming options available such as Sabik Easy Programmer or PC/USB interface
- Integrated event log for 365 days
- Optionally integrated GPS synchronization and GSM Remote monitoring





Bird spike

Bird spike with thread to be installed in the center of the lantern top.



Solar Modules

Solar modules with tempered glass front integrated in the PE-housing.



Remote monitoring

GSM unit and antenna integrated in the lantern for remote monitoring and control. For more information, please see the LightGuard Section.



Installation

The bottom plate of the SC 160 I supports installation on structures with 3 x M12 bolts on a 330 mm diameter.



VRLA Battery

Maintenance free lead acid battery with a designed lifetime of 7 years.



Sabik Easy Programmer

User friendly and compact wireless two way programmer.



Bluetooth® Control

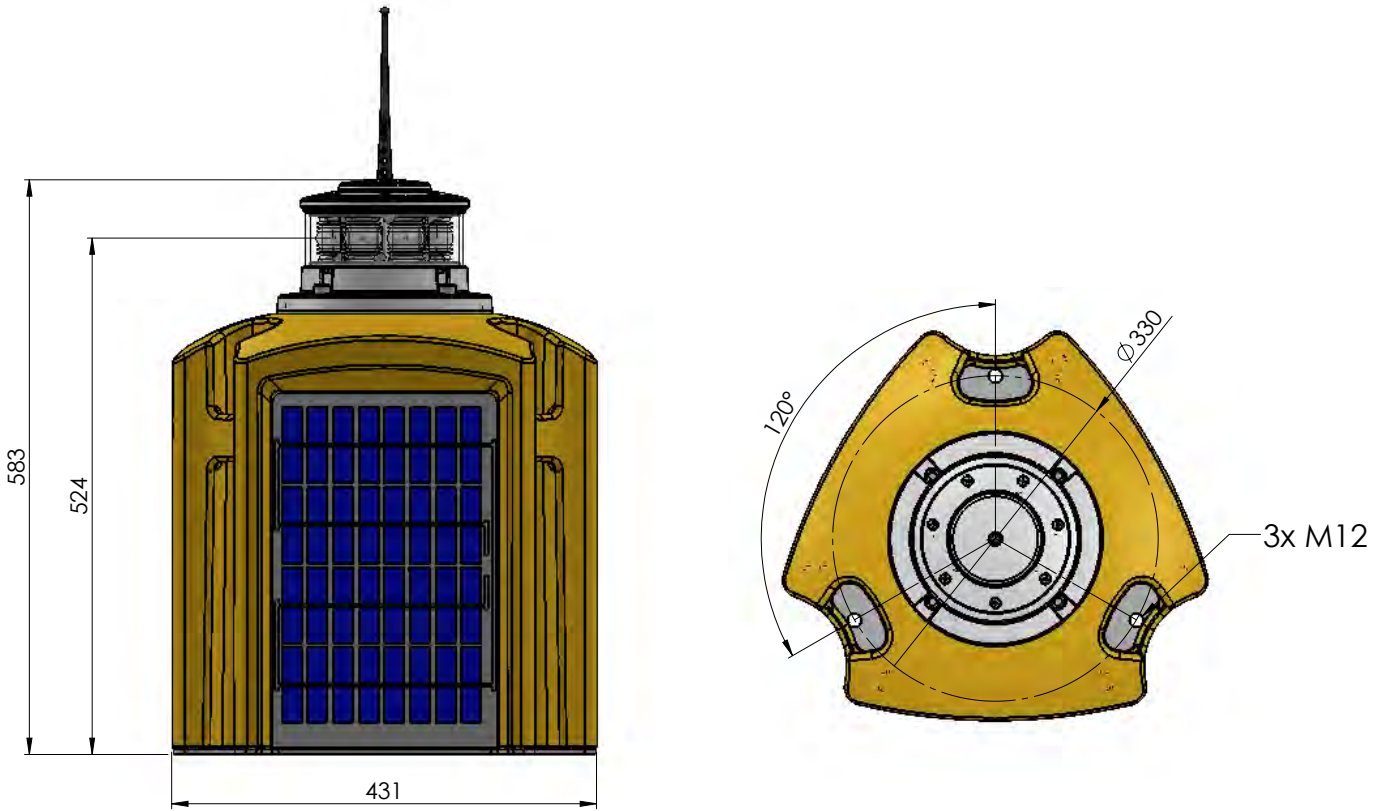
Lantern can be programmed and battery status checked up to 50 meters distance with an app for Android and iOS.



Programming with PC

Using Sabik USB interface.

Technical Specification SC 160 I



Optical Performance

Maximum fixed intensity SC 160 IN (5° @ 50% peak intensity FWHM)

	1150 cd	1200 cd	1000 cd	1850 cd
Power consumption	13 W	16 W	16 W	16 W

Maximum fixed intensity SC 160 IW (10° @ 50% peak intensity FWHM)

	620 cd	720 cd	620 cd	1100 cd
Power consumption	13 W	16 W	16 W	16 W

Main Technical Specification

Lens visual/Mechanical diameter	160 mm
Lens material	UV stabilized acrylic
Light source	High Power Light Emitting Diodes (LEDs)
Vertical divergence options	5°@50% of peak intensity (FWHM) 10°@50% of peak intensity (FWHM)
Solar modules	3 x 10 W
Battery	VRLA GEL-Type, 32Ah/12V
Weight	27 Kg
Overall height	583 mm
Overall width	431 mm dia.
Power consumption	13W - 16W
Installation	3 x M12 on 330 mm dia.

Order Overview SC 160 I

Option matrix

Optical feedback OPT 1L	Integrated LED performance measurement
GPS sync OPT 4L	Integrated GPS sync including GPS antenna
LightGuard GSM + GPS OPT 9L	Integrated GSM/GPS based monitoring including GSM/GPS antennas
Battery control card OPT 11L	Control card for secondary (emergency) battery

SC160 I with VRLA Battery

N = Narrow (5° @ 50 % peak intensity)		W = Wide (10° @ 50 % peak intensity)	
Red	SC160-1NVR	Red	SC160-1WVR
Yellow	SC160-1NVY	Yellow	SC160-1WVY
Green	SC160-1NVG	Green	SC160-1WVG
White	SC160-1NVW	White	SC160-1WVW

Example: SC160-1WVW-OPT11

- **SC160-1WVW** is the code for SC160 I with VRLA battery and wide lens in white
- with a selection of option 11 control card for secondary (emergency) battery