

## SC 160 II

Self-contained LED lantern for buoys and beacons

SC 160 II is a self-contained LED lantern with best in class optical performance for fixed and floating structures with longer range. 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 10 NM ( $T_c=0,74$ )  
14 NM ( $T_c=0,85$ ) depending on geographical location
- Standard IALA colours Red, Green, White, Yellow
- Lantern made of rugged injection moulded aluminium housing and body of UV resistant polyethylene
- Integrated flasher with day-light switch and solar charger
- Standard VRLA battery and ventilated battery compartment
- Adjustable intensity and range
- Available with narrow ( $5^\circ$ ) or wide ( $10^\circ$ ) 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
- Auxiliary connector for external charger or external solar module
- Available with AIS option





#### 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.



#### Auxiliary connector

Auxiliary connector enables external charging or additional solar modules.



#### 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 4.4. or above and for iOS.



#### Programming with PC

Using Sabik USB interface.



#### Installation

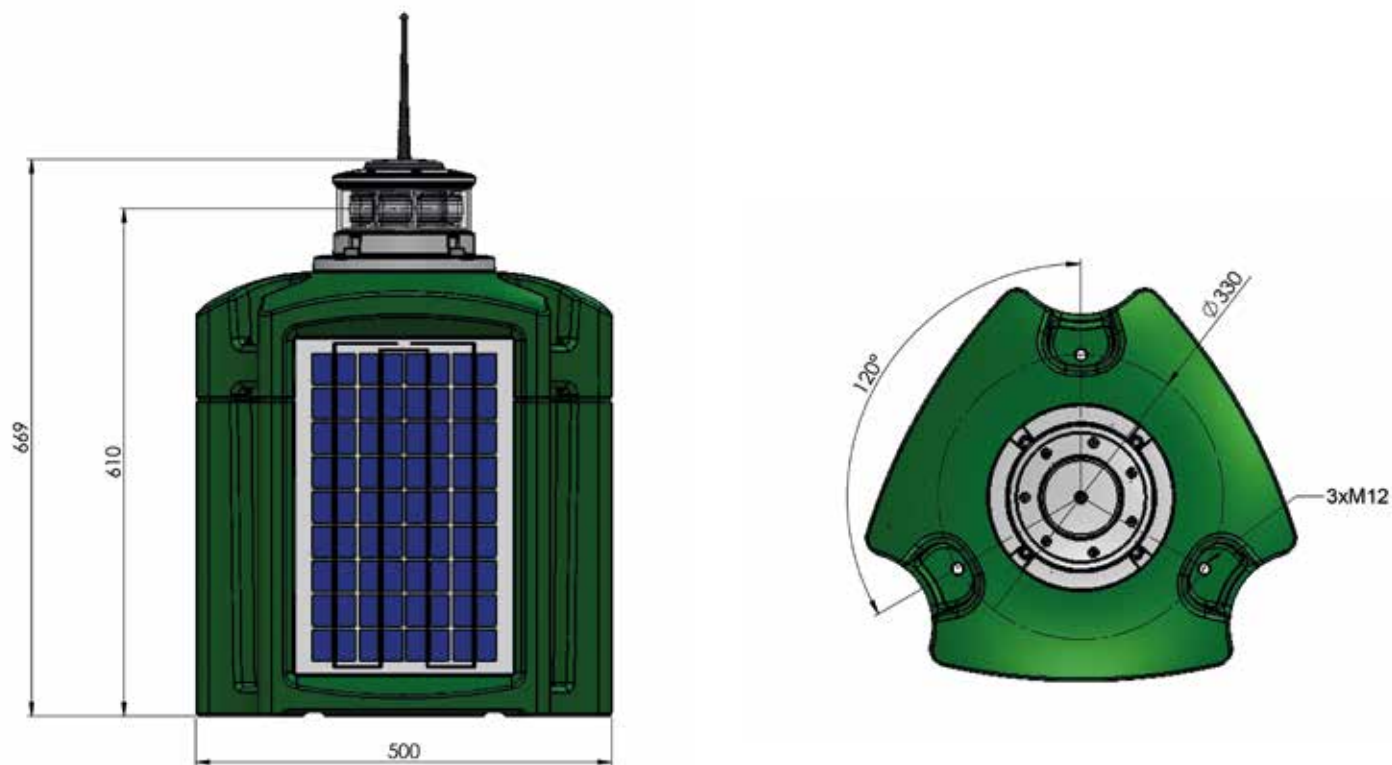
Mounting holes with metal inserts.



#### AIS Option

Lantern can be equipped with integrated AIS transponder type 1 or type 3

## Technical Specification SC 160 II



### Optical Performance

#### Maximum fixed intensity SC 160 IIN (5° @ 50% peak intensity)

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

#### Maximum fixed intensity SC 160 IIW (10° @ 50% peak intensity)

	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	5°@50% of peak intensity (FWHM) 10°@50% of peak intensity (FWHM)
Solar modules	3 x 11 W
Battery	VRLA GEL-Type, 60Ah/12V
Weight	35 Kg
Overall height	669 mm
Overall width	500 mm dia.
Power consumption	13W - 16W
Installation	3 x M12 on 330 mm dia.

## Order Overview SC 160 II

### 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
BBattery control card OPT 11L	Control card for secondary (emergency) battery
Automatic Identification System OPT AIS	OPT AIS 1: Lantern with integrated AIS type 1 OPT AIS 3: Lantern with integrated AIS type 3 Refer page 140

### SC160 II with VRLA Battery

N = Narrow (5° @ 50 % peak intensity)		W = Wide (10° @ 50 % peak intensity)	
Red	SC160-2NVR	Red	SC160-2WVR
Yellow	SC160-2NVY	Yellow	SC160-2WVY
Green	SC160-2NVG	Green	SC160-2WVG
White	SC160-2NVW	White	SC160-2WVW

### Example: SC160-2WVR.4

- **SC160-2WVR** is the code for SC160 II with VRLA battery and wide lens in red
- **4** is a selection of option 4L GPS sync including GPS antenna