

### **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
- Available with AIS











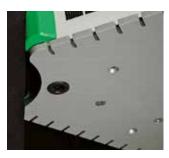
Bird spike
Bird spike with thread to be
installed in the center of the



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.



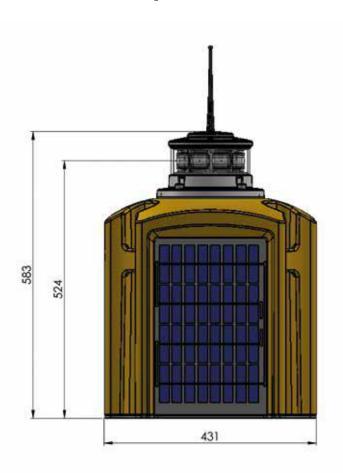
Programming with PC
Using Sabik USB interface.

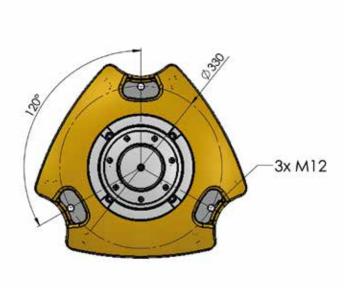


AIS Option Lantern can be equipped with integrated AIS transponder type 1 or type 3



## **Technical Specification SC 160 I**





#### **Optical Performance**

	1150 cd	1200 cd	1000 cd	1850 cd
Power consumption	13 W	16 W	16 W	16 W
Maximum fixed inten	sity SC 160 IW	(10° @ 50% neak	intensity FWHM)	
Maximum fixed inten	sity SC 160 IW	(10° @ 50% peak	intensity FWHM)	
Maximum fixed intens	sity SC 160 IW	(10° @ 50% peak	intensity FWHM)	1100 cd



#### **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
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 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.11

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