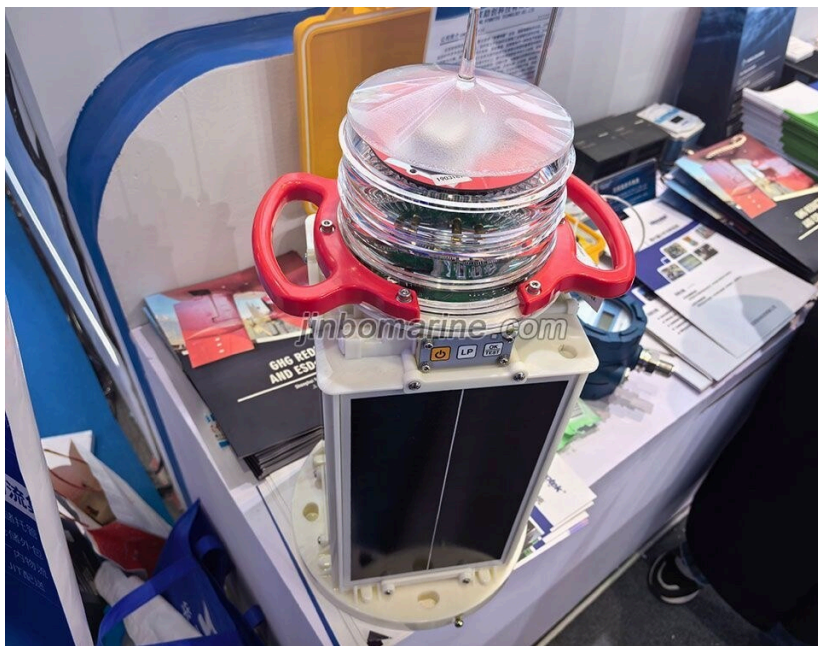


**LIFE-SAVING LIGHT**

# DX-SC160 Fully Integrated AIS LED Navigation Light

DX-SC160 is a fully integrated AIS LED navigation light designed for buoys, ships, and coastal aids. It combines solar panel, battery, AIS transponder, and LED lantern in one compact IP68 unit, eliminating the need for e...

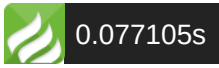
- ISO9001 Supplier
- Class Certificate
- Export Supply



### Key Highlights

<b>Category</b>	Life-Saving Light
<b>Standard</b>	ISO
<b>Material</b>	240mm x 240mm x 455mm Packaging Dimensions 277mm x 281mm x 537mm Install...
<b>Weight / Size</b>	Weight 9.3kg Dimensions Buoy Light:
<b>Certificate</b>	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.



Technical Specifications			
<b>Category</b>	Life-Saving Light	<b>Model / SKU</b>	DX-SC160-Fully-Integrated-AIS-LED-Navigation-Light
<b>Standard</b>	ISO	<b>Material</b>	240mm x 240mm x 455mm Packaging Dimensions 277mm x 281mm x 537mm Installation Dimensions Compliant with domestic and international standards Continuous Operation in Overcast/Rainy Conditions $\geq 25$ days AIS Features Operating Frequency 161.975MHz, 162.025MHz Modulation Mode GMSK/FSK Frequency Error $\pm 0.5$ kHz Transmission Power 1W 2W 5W 6W 12.5W (select option) Average Power Consumption Continuous mode $\leq 1$ W (Low power mode $\leq 0.7$ W) Message Format Messages 21, 6 adjustable, supports multiple formats Operating Mode Default Mode Three SOTDMA (FATDMA, RATDMA, SOTDMA adjustable) Light Features Len material Acrylic Base material ABS+PC Light Colors Red/Green/Yellow/White/Blue Light Intensity 256 adjustable levels Daylight Threshold Digital photosensitive, adjustable threshold Beam Distance 5-8nm Emission Angle Buoy Light $\geq 8^\circ$ , Fixed Light $\geq 2.5^\circ$ Battery Features Battery Type LiFePO4 Battery Capacity $\geq 640$ Wh
<b>Weight / Size</b>	Weight 9.3kg Dimensions Buoy Light:	<b>Certificate</b>	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS
<b>Warranty</b>	12 Months unless specified otherwise	<b>Origin</b>	China

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- China DX-SC160 Fully Integrated AIS LED Navigation Light:
- Technical Data:
- KEY ADVANTAGES

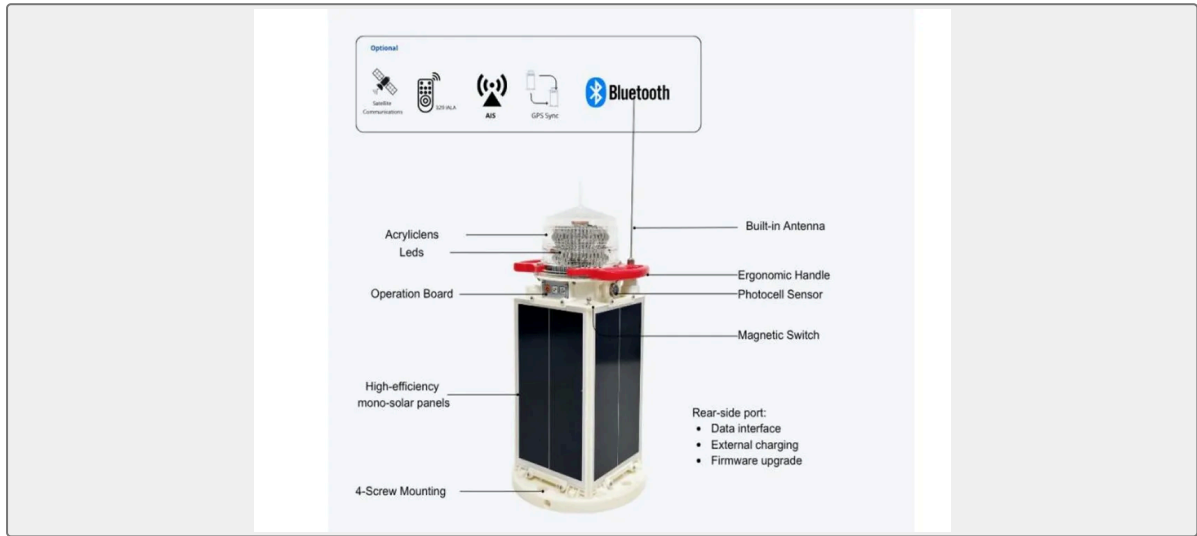


## China DX-SC160 Fully Integrated AIS LED Navigation Light:

DX-SC160 is a fully integrated AIS LED navigation light designed for buoys, ships, and coastal aids. It combines solar panel, battery, AIS transponder, and LED lantern in one compact IP68 unit, eliminating the need for external wiring or power supply.

With dual-mode GPS + Beidou positioning, it supports AIS Messages 6, 8, 21, and 14, enabling real-time transmission of light status, location, and battery data to monitoring platforms. Available in full IALA colors (Red, Green, Yellow, White), the DX-SC160 is ideal for 5NM range safety marking.

Certified to CE and ISO9001, and supporting OEM customization, it's a reliable, low-maintenance solution for maritime authorities and offshore projects worldwide.



## KEY ADVANTAGES

The AIS60 All-in-one Solar Navigation Lantern is available in two models: Type I and Type III. These models meet international maritime standards.

This product supports standard AIS messages (Messages 21, 6, and 8), and it is capable of additional messages such as Messages 7, 12, 20, and 25.

It offers two AIS transmit power options:  $\leq 6W$  and  $\leq 12.5W$ , ensuring effective communication over various distances.

It offers 256 IALA-compliant flashing patterns, accompanied by a comprehensive guide.

The device offers dual-mode positioning with Beidou and GPS, ensuring precise navigation data.

This Solar Navigation Lantern is available in five colors and features adjustable brightness levels (0 to 5). It is customizable for different buoy environments.

The visibility range is from 3 to 8 nautical miles, and the AIS signal transmission range is up to 25 nautical miles.

Remote maintenance checks are conducted via an additional chip, thereby eliminating the need for manual inspections at the buoy.

## Technical Data:

Category	Specification	Details
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Overall Features	Operating Voltage	DC: 10.5V—14.4V
	Solar Panels	Vertical: 4x7W
	Charging Current	Typical value 400mA
	Operating Temperature	-35°C to +60°C
	Parameter Loading	RS232, Button
	Waterproof Level	IP68
	Net. Weight	9.3kg
	Dimensions	Buoy Light: 240mm x 240mm x 489mm
	Fixed Light: 240mm x 240mm x 455mm	
	Packaging Dimensions	277mm x 281mm x 537mm
	Installation Dimensions	Compliant with domestic and international standards
	Continuous Operation in Overcast/Rainy Conditions	≥25 days
AIS Features	Operating Frequency	161.975MHz, 162.025MHz
	Modulation Mode	GMSK/FSK
	Frequency Error	±0.5kHz
	Transmission Power	1W 2W 5W 6W 12.5W (select option)
	Average Power Consumption	Continuous mode ≤1W (Low power mode ≤0.7W)
	Message Format	Messages 21, 6 adjustable, supports multiple formats
	Operating Mode	Default Mode Three SOTDMA (FATDMA, RATDMA, SOTDMA adjustable)
Light Features	Len material	Acrylic
	Base material	ABS+PC
	Light Colors	Red/Green/Yellow/White/Blue
	Light Intensity	256 adjustable levels
	Daylight Threshold	Digital photosensitive, adjustable threshold
	Beam Distance	5-8nm
	Emission Angle	Buoy Light ≥8°, Fixed Light ≥2.5°
Battery Features	Battery Type	LiFePO4 Battery
	Battery Capacity	≥640Wh

