

The SL-75 lantern is a next-generation solar marine lantern with up to 5NM visible range. Its dual panel design is unique in its ability to 'track the sun' and operate reliably in low sunlight environments such as the UK, Canada and Europe.

### Key Features:

- Intensity range of up to 5NM
- Dual high performance solar modules, angled for maximum sunlight capture
- Enhanced optics
- Bluetooth programming and maintenance
- GPS synchronisation and Satellite Connectivity as options

| Standard      | Optional |
|---------------|----------|
| IR Programmer | SATCOM   |
| Bluetooth     | GPS Sync |



### Bluetooth Programming and Maintenance

Completely programmable via the SealitePro® App, configure and monitor the SL-75 from a distance up to 50 metres. An inbuilt solar calculator confirms the lanterns optimal operating performance, at the set location.

### Dual High Performance Solar Modules

Angled solar modules obtain maximum sunlight capture, allowing the unit to operate reliably in a range of low sunlight environments. Tilted solar modules are less susceptible to fouling or snow cover.

### GPS Synchronisation (optional)

Synchronise two or more lanterns to flash in unison via an internal GPS module. Synchronised flash helps to clearly distinguish from other aids to navigation and background lighting - ideal for rivers, marina entrances, channel marking and aquaculture applications.

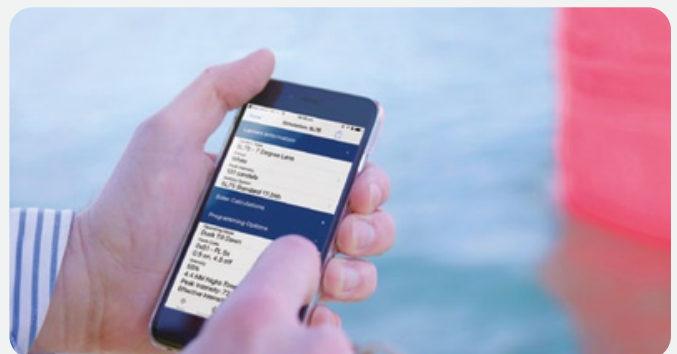
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### Monitoring & Control System (optional)

Access real-time diagnostic data and adjust lantern settings via cell-phone. Lantern can be configured to send alarms via SMS text messages or email including lantern reporting.

### Accessible Via Star2M

The SL-75 is available with an optional integrated Iridium® Satellite module enabling two-way monitoring and control using the Iridium® Low Earth Orbit satellite network.



## SL75

## Light Characteristics

|                                 |                                               |
|---------------------------------|-----------------------------------------------|
| Light Source                    | High Efficiency LED                           |
| Available Colours               | Red, Green, White, Yellow, Blue               |
| Typical Maximum Intensity (cd)* |                                               |
| SL-75-7D                        | Red - 76 Green - 104 White - 131 Yellow - 65  |
| SL-75-5D                        | Red - 111 Green - 129 White - 183 Yellow - 87 |
| Visible Range (NM)              | 3-5                                           |
| Horizontal Output (degrees)     | 360                                           |
| Vertical Divergence (degrees)   | 7 (standard) / 5 (optional)                   |
| Available Flash Characteristics | 310 plus custom characters                    |
| Intensity Adjustments           | Multiple intensity settings                   |
| LED Life Expectancy (hours)     | > 100,000                                     |

## Electrical Characteristics

|                     |                                          |
|---------------------|------------------------------------------|
| Current Draw (mA)   | Refer to Sealite Power Calculator        |
| Circuit Protection  | Integrated                               |
| Nominal Voltage (V) | 3.6                                      |
| Autonomy (days)     | >30 (14 hour darkness, 12.5% duty cycle) |
| Temperature Range   | -40 to 80°C                              |

## Solar Characteristics

|                   |                  |
|-------------------|------------------|
| Solar Module Type | Monocrystalline  |
| Output (watts)    | 5 (2 x 2.5 watt) |

## Power Supply

|                                  |                 |
|----------------------------------|-----------------|
| Battery Type                     | High grade NiMH |
| Battery Capacity (Ah) - Standard | 17.2            |
| - Large                          | 21.5            |
| - X Large                        | 28.8            |
| Nominal Voltage (V)              | 3.6             |

## Physical Characteristics

|                         |                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------|
| Body Material           | LEXAN® Polycarbonate – UV-stabilised                                                         |
| Lens Material           | LEXAN® Polycarbonate – UV-stabilised                                                         |
| Lens Design             | Single LED Optic                                                                             |
| Mounting                | 3 types: 3 & 4 hole 200mm bolt pattern, 3 hole 150mm bolt pattern, 4 hole 162mm bolt pattern |
| Height (mm/inches)      | Standard: 314 / 12 3/8 SATCOM: 361 / 14 7/32                                                 |
| Width (mm/inches)       | 231 / 9 1/8                                                                                  |
| Mass (kg/lbs)           | 2.5 / 5 1/2 (standard model)                                                                 |
| Product Life Expectancy | Up to 12 years ^                                                                             |

## Compliance

|                    |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| CE                 | IFCC Part 15 Rules & ICES-003<br>EN61000-6-1:2007, IEC61000-6-1:2005,<br>EN61000-6-3:2007, IEC61000-6-3:2006 |
| IALA               | Signal colors compliant to IALAE-200-1                                                                       |
| Ingress Protection | IP68                                                                                                         |

## Intellectual Property

|                   |                                                                                                                                                                                                                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trademarks        | SEALITE® and Star2M® are registered trademarks of Sealite Pty Ltd                                                                                                                                                                                                                                  |
| Warranty *        | 3 years                                                                                                                                                                                                                                                                                            |
| Options Available | <ul style="list-style-type: none"> <li>Satellite Connectivity</li> <li>GPS Synchronisation</li> <li>Monitoring &amp; Control System</li> <li>SL-75-5D (5 Degree divergence model)</li> <li>Charging Port</li> <li>21Ah and 29Ah larger battery capacity options</li> <li>Bird Deterrent</li> </ul> |



\*Specifications subject to change or variation without notice  
 \*Subject to standard terms and conditions  
 † Intensity setting subject to solar availability  
 ^ Refer to the Sealite website under the warranty section

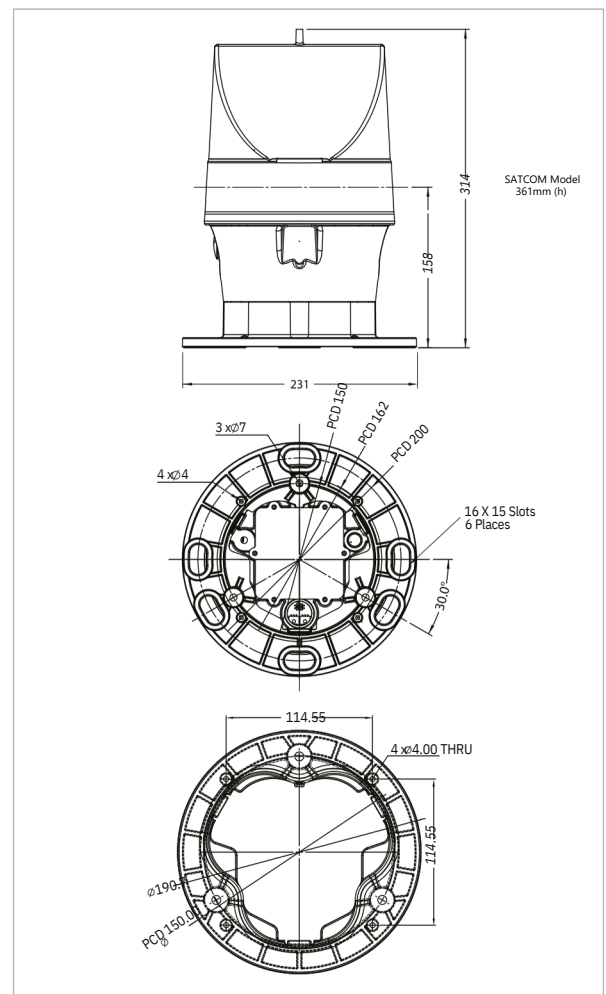
## Ordering This Product

SL-75-[XXD]-[BX]-[X]-[XX]-[XX]



- Product Number**
- Lens Option:**  
05D 5 Degree  
07D 7 Degree
- Battery Option:**  
B1 17Ah battery  
B2 21Ah battery  
B3 29Ah battery
- LED Option:**  
W White  
Y Yellow  
G Green  
R Red  
B Blue
- Internal Options**  
00 No internal options  
01 GPS  
02 Satellite (GPS)
- External Options**  
00 No external options  
01 On/Off Switch  
02 Charge Port  
03 On/Off Switch + Charge Port

## Technical Illustrations



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