LED 350 HIW
High intensity LED light for large floating stations

LED 350 HIW is a high intensity LED beacon for ranges up to 12 nautical miles. It is designed for floating stations where a vertical beam typical for a buoy light is required.

- High intensity compared to standard buoy lights
- Wide vertical divergence suitable for large floating stations like light ships, LANBY’s, elastic beacons, etc
- Can be supplied with up to 3 tiers, giving a 4,500 cd luminous intensity white
- Standard IALA colours Red, Green, White, Yellow
- Rugged aluminium housing for installation in marine environment
- Suitable for solar and battery operation
- Integrated flasher with day light switch and a 16 ampere solar panel charger
- Field adjustable intensity and range
- Optionally integrated GPS synchronization
- Optionally integrated GSM Remote monitoring

High Power LEDs
Each tier consists of 42 high power LEDs all equipped with their own secondary lens producing a uniform horizontal output.

Bird spikes
Stainless steel bird deterrents as standard. Easy to replace. Offers great protection against large birds like cormorants. Spike design to prevent injury to service technicians.

Level indicator
The lantern can easily be levelled in field using the integrated bubble level indicator.

PDA Programmer
Wireless two-way communication using a Windows based PDA with infra-red port. Flash code, range and photocell switch level etc. can be set. With the Programmer also the event log can be retrieved.

Installation
The bottom plate of the LED 350 HIW supports installation on structure using 3 x M12 bolts or 4 x M12 bolts on a 200 mm radius. PTFE breathing vent for pressure release.

Additional cable entry
Equipped as standard with two cable entries. If the secondary entry is needed e.g. for a solar module standard M20 cable gland can be fitted.

Marine Lanterns
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### Technical Specification LED 350 HIW

**Optical performance**

<table>
<thead>
<tr>
<th>Maximum fixed luminous intensity</th>
<th>1 tier, 50 W</th>
<th>2 tiers, 100 W</th>
<th>3 tiers, 150 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 tier, 50 W</td>
<td>600 cd</td>
<td>1,200 cd</td>
<td>1,800 cd</td>
</tr>
<tr>
<td>2 tiers, 100 W</td>
<td>1,200 cd</td>
<td>2,200 cd</td>
<td>3,200 cd</td>
</tr>
<tr>
<td>3 tiers, 150 W</td>
<td>1,800 cd</td>
<td>2,700 cd</td>
<td>3,800 cd</td>
</tr>
</tbody>
</table>

**Main Technical Specification**

- **Lens visual/Mechanical diameter**: 350 mm
- **Lens material**: UV stabilized Polycarbonate
- **Light source**: High Power Light Emitting Diodes (LEDs)
- **Vertical divergence**: 10° @ 50 % (±1°) and 18° @ 10 % (±2°) of peak intensity
- **Unit lifetime**: Up to 10 years
- **Weight**: 10 kg for single tier unit, add 4 kg for each tier
- **Temperature range**: -40°C to 60°C
- **Supply Voltage**: 9 – 30 VDC
- **Solar panel charger**: 16 ampere PWM charger. Solar panel production (Ah) is logged
- **Power consumption**: 50 watts/tier

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### Order Overview LED 350 HIW

#### Option matrix

- **LightGuard GSM**: Integrated GSM based monitoring with GSM antenna
- **LightGuard GSM + GPS**: Integrated GSM based monitoring with GSM/GPS antennas
- **GPS sync**: Integrated GPS sync only unit with GPS antenna in lantern top
- **Optical Feedback System**: Integrated LED performance measurement
- **External baffles**: External baffles when unit is supplied with colored sectors

For Monitoring we recommend LightGuard Basic.

#### Product codes

<table>
<thead>
<tr>
<th>LED-350 HIW</th>
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<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 LAYER</td>
<td>2 LAYER</td>
<td>3 LAYER</td>
<td></td>
</tr>
<tr>
<td>1 tier, 50 W</td>
<td>1 tier, 50 W</td>
<td>1 tier, 50 W</td>
<td>white</td>
</tr>
<tr>
<td>2 tiers, 100W</td>
<td>2 tiers, 100W</td>
<td>2 tiers, 100W</td>
<td>yellow</td>
</tr>
<tr>
<td>3 tiers, 150 W</td>
<td>3 tiers, 150 W</td>
<td>3 tiers, 150 W</td>
<td>green</td>
</tr>
</tbody>
</table>