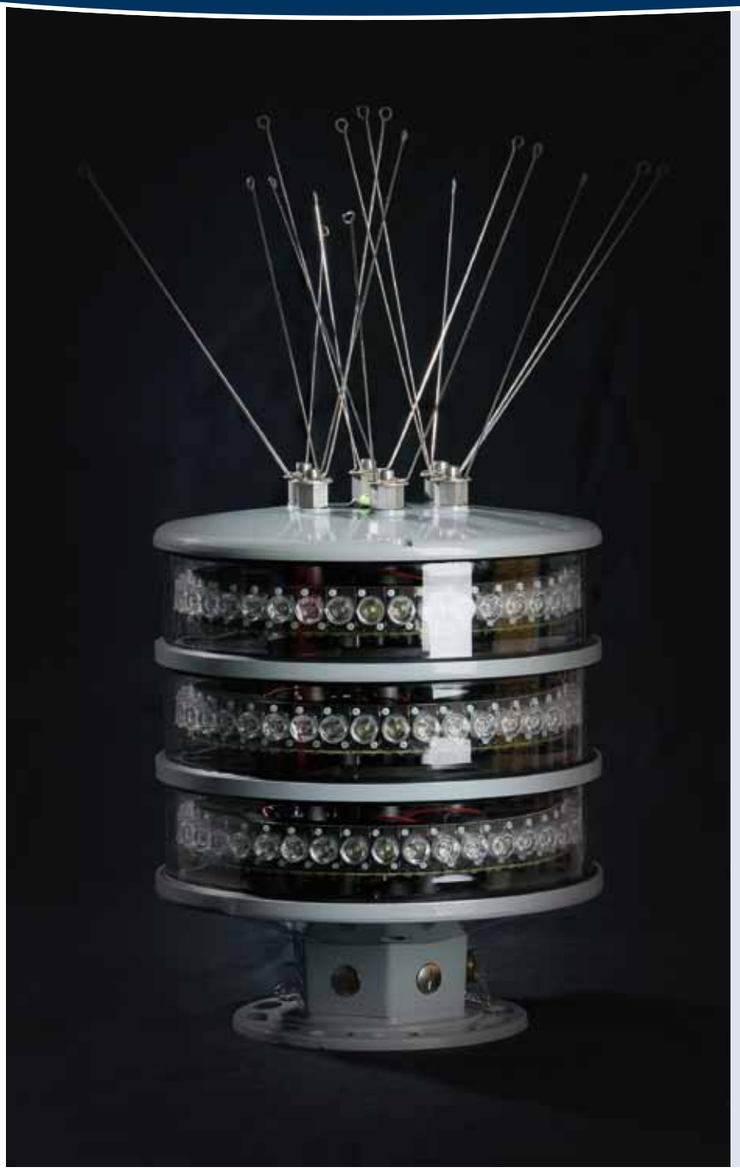
LED 350 HIW

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.

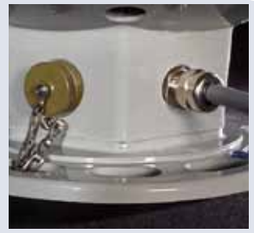
- **High intensity compared to standard buoy lights**
- **Wide vertical divergence suitable for large floating stations like light ships, LANBY's, elastic beacons, etc**
- **Can be supplied with up to 3 tiers, giving a 4.500 cd luminous intensity white**
- **Standard IALA colours Red, Green, White, Yellow**
- **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.

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.

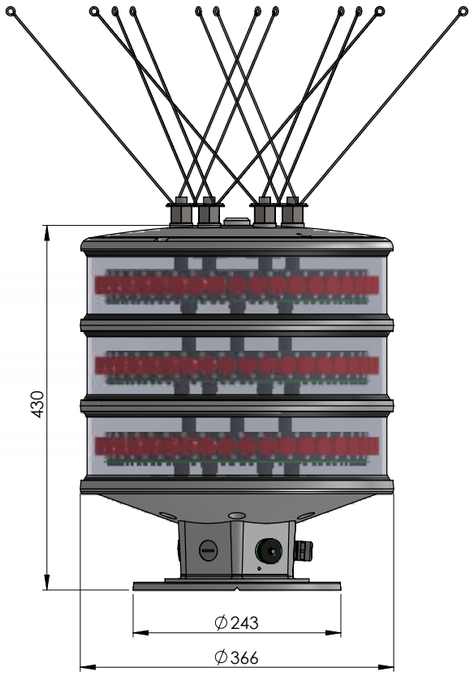
Bird spikes
Stainless steel bird deterrents as standard. Easy to replace. Offers great protection against large birds like cormorants. Spike design to prevent injury to service technicians.

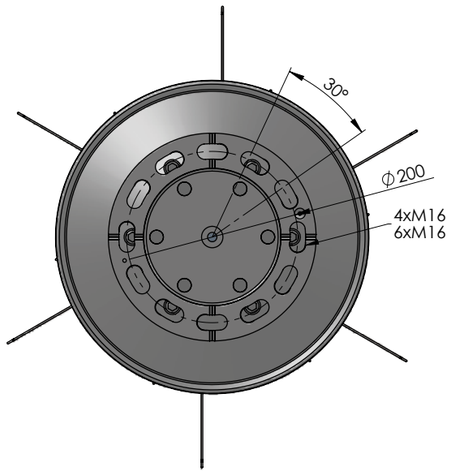
Level indicator
The lantern can easily be levelled in field using the integrated bubble level indicator.

Grounding plug
The base plate has a grounding plug as standard to enable good protection for electromagnetic interference

Lantern optics with a wide vertical divergence

Technical Specification LED 350 HIW





Optical performance

Maximum fixed luminous intensity				
1-tier, 50 W	600 cd	900 cd	1.100 cd	600 cd
2-tiers, 100 W	1.200 cd	1.800 cd	2.200 cd	1.200 cd
3-tiers, 150 W	1.800 cd	2.700 cd	3.300 cd	1.800 cd

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°…+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

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

LED-350 HIW 1 LAYER	LED-350 HIW 2 LAYER	LED-350 HIW 3 LAYER	Colour
980224HIW	980228HIW	980232HIW	white
980221HIW	980225HIW	980230HIW	red
980223HIW	980227HIW	980233HIW	green
980222HIW	980226HIW	980231HIW	yellow