# SP-401 LED Elevated Obstruction Light

## Features
- Operates 365 days on solar energy
- Wireless mesh control
- 280 hrs of light autonomy

## Technical Specifications

### Optics
- 37 cd light output (peak)
- Omnidirectional type
- LED lifespan: 100,000 hrs
- Maximum power consumption: 1.8 W
- NVG-compatible (optional)
- Color: red
- User-replaceable

### Battery
- 2 x built-in batteries
- Autonomy: 280 hrs (minimum intensity)
- Total capacity: 216W (2x9Ah/12V)
- Deep-cycle VRLA, 12V/9Ah
- Lifespan: 1,200 cycles
- Designed for 4-5 years
- Air transportable
- User-replaceable
- Standard type, available worldwide

### Solar Power Supply
- 20W solar panel, separately installed
- Poly- or monocrystalline type
- Standard optimal inclination (upon request)
- Lifespan: 15 years
- Built-in inverter 12-36V/2A

### Certification
- ICAO, Annex 14th, Volume I, 7th Edition dated July 2016, Table 6-2 & Appendix 1, Figure A1-1b

### Operating Modes
- Steady / Flashing / Dusk till dawn
- Visible / Infrared (optional) / Visible + Infrared (optional)

### Control & Monitoring
- Wireless mesh type network
- Up to 1.5 km operating range
- Activation options:
  - Via UR-201 Control & Monitoring Unit
  - Via ALCMS Computer Interface
  - Via UR-101 Handheld Controller
- Emergency ON/OFF button
- Self-diagnostics
- Real-time monitoring via ALCMS (Airfield Lighting Control and Monitoring System)

### Environmental Conditions
- Temperature range: -20 to 50 ºC (-4 to 122 ºF)
- Ingress protection: IP-67
- Wind Speed: 160 kph

### Casing And Components
- Casing made of UV-stabilized Lexan polycarbonate
- Outer UV-resistant glass dome
- Detachable antenna
- Pressure stabilizing valve: yes
- Battery level indicator: yes
- Carrying handle (optional)
- Casing lifespan: 15 years
- Casing color: aviation yellow
- Frangible mounting compliant with ICAO regulations
- Dimensions (LxWxH): 528 mm x 450 mm x 442 mm
- Weight: 12.4 kg

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**APPLICATION**

Low intensity obstruction aviation light; designed for usage as Obstacle light in Airports or Helipads located in regions without access to electricity and high photovoltaic potential.
1. Aluminum adapter for glass dome
2. Rubber protection
3. Glass dome
4. LED Optics, omnidirectional type
5. Radio antenna for wireless control & monitoring
6. Micro-computer with integrated radio transceiver
7. Rubber protection
8. UV-stabilized Lexan polycarbonate casing
9. Emergency ON/OFF button
10. Charging port for solar panel
11. Protective plate
12. 2 x batteries built-in, VLRA type 12V/9Ah
13. 20W Solar panel with standard optimal inclination
14. Frangible mounting
15. Solar holder

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**PHOTOMETRIC PERFORMANCE**

S4GA performance

Required by ICAO

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**SHIPPING DATA**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions of Package (LxWxH)</th>
<th>Gross Weight</th>
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</thead>
<tbody>
<tr>
<td>SP-401 Lighting Unit with accessories</td>
<td>600 mm x 400 mm x 360 mm</td>
<td>13 kg</td>
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