



## Profile

*Since 2007 Ray Dynamics is one of the leading manufacturers of LED based Aviation Obstacle Lighting products as per ICAO norms an flight simulator trainer devices in LED lighting history RAY DYNAMICS products stands as a pioneer and is a part of our effort to constantly provide the Indian market with high quality products and services. Riding on this segment with esteemed customer support and geared up to spice the competition with its impulsive products. Having maintained a leading Image by leveraging high quality technology with its thorough understanding of the Indian market, Ray Dynamics is confident that its products will fascinate the users across India with agility, comfort and affordable price. This will provide impetus to Ray Dynamics aim to capitalize on the emerging opportunities in the Indian next generation industry and maintain its competitiveness across all market segments.*

5<sup>th</sup> July 2024

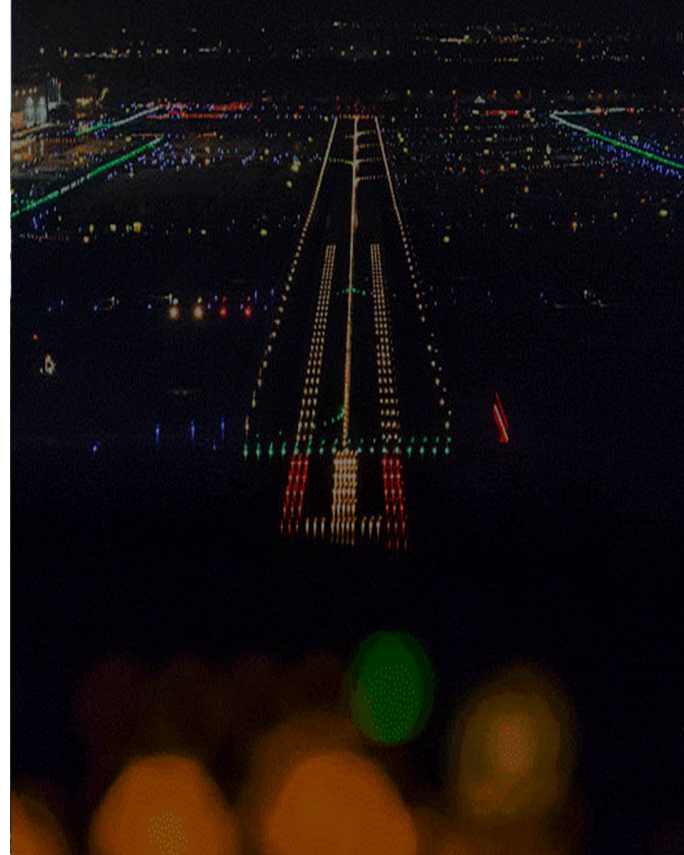
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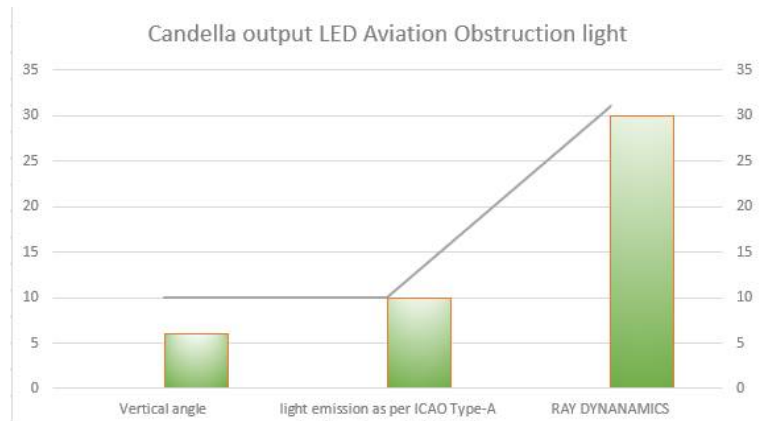
**Aviation Portable Solar  
Ground Warning Light**

here



# Aviation Portable Solar Ground Warning Light

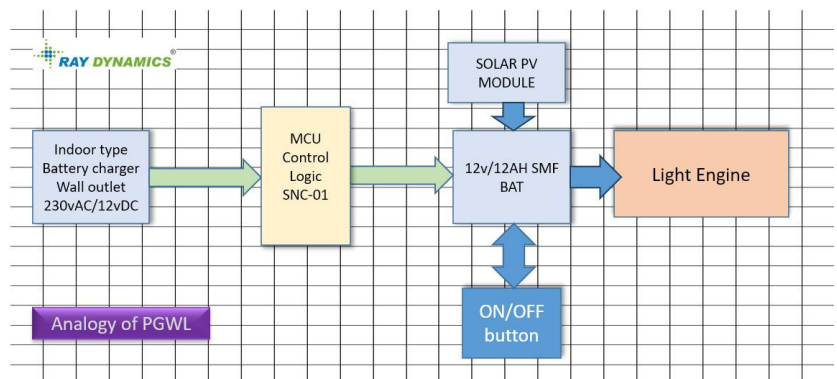
Compliances as per



*NOTE : Image is for purely illustrative purpose only. Actual final product may vary in design and tech spec...*

Salient Features::

- Solar based LED technology
- Type-A compliance as per ICAO Annex 14
- Long life time >50K hours life expectancy
- Low power consumption
- Stabilized RED light output
- Lightweight and compact
- Low wind load factor
- Portable
- Wide operating temperature
- Degree of protection: IP66
- Hybrid with external voltage charging port

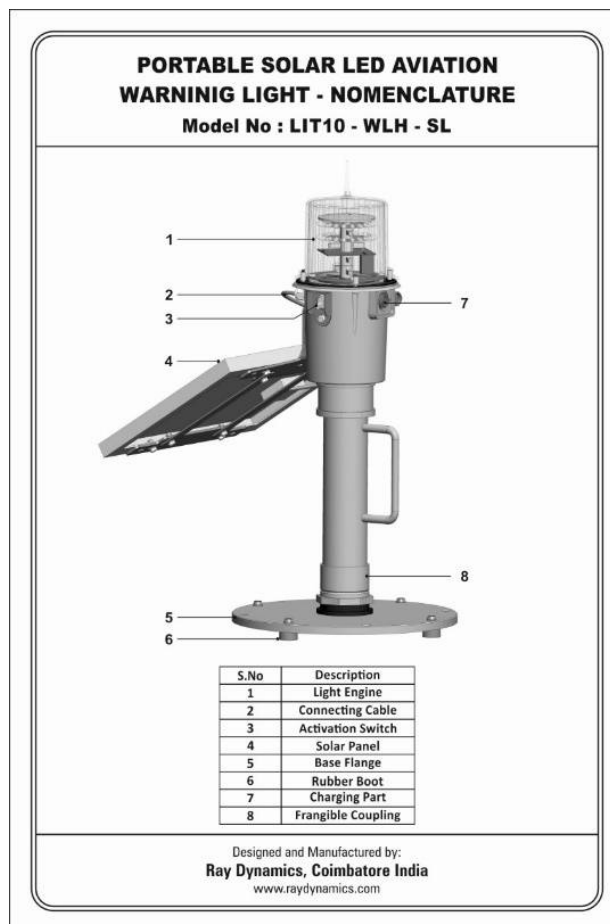


Marketed and distributed by Ray Dynamics

## Technical Specification:

<b>PHYSICAL CHARECTERESTICS</b>	
Main Frame body	LM-6 Grade Aluminum alloy
PV Support Frames	MS black powder coated
Coating	PP grade powder coat YELLOW
Light engine lens / UV	Makrolon Poly Carbonate UL94-V UV resistance clear
Sunshine Test	Bayer Material science-Makrolon 2407 Polycarbonate as per OE test / tech report
Lens design	Patented secondary optics design with bird spike
Hardware's	Stainless steel Grade 306
PCB's	Glass epoxy FR-IV grade UVLO94 flammability
Mounting	Free floor mount with frangible coupling
Ingress Protection	IP-66 light engine
Gaskets	Ozone resistant all weather anti cracking material
Portability	YES
Product weight	14 Kgs appx
Operating temperatures	-10 Deg C to +55 Deg C
<b>OPTICAL &amp; ELECTRICAL CHARECTERESTICS</b>	
Light Engine	Hi efficiency RED LED with steady light output
LED Life expectancy	50,000 burning hours (under standard conditions)
Beam spread	Type-A >20Cd / 360 Deg horizontal beam spread / upto +10 Deg vertical beam spread / as per ICAO Annex 14 requirements / advisory
Compliance	In accordance with Low intensity Type-A as per ICAO Annexure-14 Vol-I requirements
Photometric category	As per ICAO Type-A Low intensity fixed candela output only in CAT-I/II/III conditions
Mode of operation	Solar / Grid mains AC/DC adapter charging HYBRID type
Solar Panel	Anti-glare 10Watts/12V (10-21Voutput /600mA max output
Mains Charging	230/12v Mains adaptor charging provision
Battery	13AH 143whLithium-ion Battery with in-built BMS
Lamp On/OFF	Via IP65 switch
Power supply management	Fully solid state PWM based MCU controlled
Charger control	Next gen microcontroller PWM based with intelligent algorithm integrated charge controller
Autonomy on full charge	Upto 36hrs** on full charge
Battery dead reserve	Upto 3 days (lamp off condition)
LED Circuit Redundancy	Series parallel with solid bus connect type
Day / Night sensing	Automatic
Cable Glands	PG9 Nylon weather proof type
Annunciation	Via inbuilt LED indicator in light engine
<b>TESTS</b>	
Dry Test	<b>As per</b> IS:9000 (Part3/Sec5) 1977

Cold Test	IS:9000 (Part3/Sec4) 1977
Salt Mist Test	IS:9000 (Part XI) : 1983
Ingress Protection	IP-66 (IEC 60529 Edition 2.2
Insulation Resistance at 500VDC	50.79GOhms
Di Electric Strength	1KV for 1Min between terminal & body
Day / Night sensing	Automatic
LED	High efficiency RED LED's
Solar Panel	10wp/12v
Battery replacement	Maintenance free site replaceable type
Wind Test	67 m/sec (241Km/Hr) in wind tunnel
Patents & Trademarks	LENS & Wireless hardware are under patent and RAYDYNAMICS is registered trademark
Model Number / Make	<b>LIT10-WLH -SL / Ray Dynamics</b>
Country of origin/Yr of manufacture	<b>INDIA / 2024</b>
** Subject to 12Hrs per day operation and day time solar/adapter charging for minimum 7hrs	





**Certification:**



**Note : All specifications/dimensions are subject to change due continual R&D efforts in manufacturing**

Designed and Manufactured by :  **RAY DYNAMICS**® INDIA | [www.raydynamics.com](http://www.raydynamics.com) | [sales@raydynamics.com](mailto:sales@raydynamics.com)