



# **WL HI-200K High Intensity Aviation Obstruction Light**

## **Instruction Manual**

Rev: 0.0V

## **Descriptions**

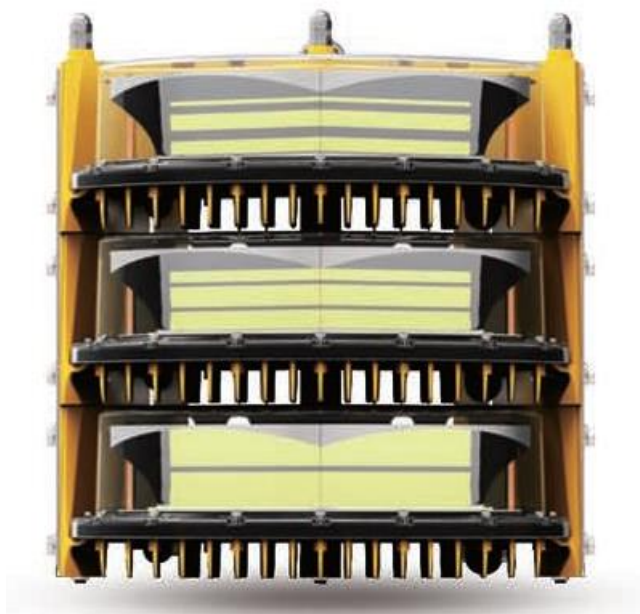
The WL HI-200K series high intensity obstruction light is designed in accordance to the ICAO Annex 14 Volume 1 – 6<sup>th</sup> Edition July 2013 Chapter 6 Type A/B and FAA AC 150/5345-43F.E.B.#67 Dual type L856/857.

The WL HI-200K is used for day-time, twilight & night-time, marking Towers (Telecom, GSM), Smokestacks, Buildings and any other potentially hazardous obstructions to air traffic with a flashing white safety light.

The enclosure is made of die casting aluminum with a powder coated finish, light weight, waterproof, shockproof and corrosion resistant.

The light source consists of high powered long life LED technology with a UV stabilized polycarbonate lens and reflector-housing which also minimizes light pollution.

The ICAO standards state that a high intensity aircraft warning light must operate 24hours. The light intensity must be: during the day-time: 200,000cds, twilight: 20,000cds and night-time: 2,000cds.



❖ **Above:** The “WL HI-200K” White Flashing High Intensity Type A Aircraft Warning Light

## **Main functions and features**

- Modular design and meets optics standard, compact size and high efficiency
- Based on LED technology
- Ultra-capacitor charge and discharge power supply
- Auto intensity compensation if failure detected with any channel driver
- Auto power off when working temperature over 90°
- LED failure detection: FDR 12.5% (1 tier) – FDR 6.25% (2 tiers) – FDR 4.16% (3 tiers)
- Flash rate(s): 20fpm, 30fpm, 40fpm & 60fpm
- Lamp housing – ABS reflector with polycarbonate housing, with good anti-impact strength, thermal stability, high transmittance
- Typical LED lifetime: ≥50, 000hrs
- GPS wireless synchronization between 2 or more Delta lights, RS485 interface Modbus Standard.
- Low wind load factor

## Specifications

Electrical Characteristics:

<b>Operating Voltage Lamp</b>	100-130VAC 50/60Hz
	200-260VAC 50/60Hz
	48VDC
<b>Power Consumption</b>	Average 200W @ day mode 40fpm 270,000 L-856
	Average 150W @ day mode 40fpm 140,000 L-857
	Average 240W @ day mode 40fpm 200,000 ICAO A
	Average 130W @ day mode 40fpm 100,000 ICAO B
<b>Lightning Protection</b>	6Kv

Mechanical Characteristics:

<b>Body Material</b>	Powder coated die casting Aluminium
<b>Body Colour</b>	Yellow RAL 1003
<b>Operating Temperature</b>	-40° to +60°
<b>Weight</b>	Flash-head: 18kg    Junction box: 7.3kg
<b>Installation</b>	Angle bracket 9.2kg
<b>IP rating</b>	IP66

Optical Characteristics:

<b>Intensity</b>	270,000cd @day mode White flashing ±25%
	140,000cd @day mode White flashing ±25%
	200,000cd @day mode White flashing ±25%
	100,000cd @day mode White flashing ±25%
<b>Horizontal beam spread</b>	120°
<b>Vertical beam spread</b>	5°
<b>Flash pattern</b>	20fpm / 30fpm / 40fpm ( <i>default</i> ) / 60fpm
<b>Optics</b>	Reflector with PC cover

