The Vigilant™ Series L-810 RTO Infrared (IR) obstruction light from Dialight incorporates both Red and IR LEDs in a single unit to ensure visibility around military bases, airfield perimeters, buildings, towers, and other obstructions for aircraft pilots, both during normal flight or when aided by night vision systems. Night Vision Goggles (NVGs) and Aviator’s Night Vision Imaging System (ANVIS) often employ Class A, B, and C filters. These filters can reduce LED sources that emit light in the visible spectrum. The Vigilant IR Series overcomes this obstacle by combining visible red LEDs and IR LEDs in a single unit.

The Dialight Vigilant RTO Series obstruction light utilizes a unique optical, electrical, and mechanical design. The RTO is the most universal, compact, and efficient obstruction light in the world. These products have been ETL Certified to the FAA requirements. Also available as a single fixture for direct replacement of incandescent lamp/lens technology.

Features & Benefits

- Available in 120-240 VAC and 12-48 VDC
- Simple retro-fit using existing wiring and housing
- Weather/corrosion resistant lamp assembly and housing
- Self-contained wiring compartment eliminates additional boxes
- Threaded 1” and 3/4” bottom hub for mounting
- Can be operated steady or flashed
- Uses 95% less energy than incandescent
- 5 year warranty
- Resistant to shock and vibration
- IP65 / IP66 / NEMA 4X
Vigilant™ L-810 RTO Infrared (IR) LED Obstruction Lights

Container Specifications
Container Dimensions:
- Retro Unit: 7.60” x 5.25” x 5.75”
  193mm x 133mm x 146mm
- Single Unit: 7.60” x 5.25” x 5.75”
  193mm x 133mm x 146mm
- Dual Unit: 18.6” x 12.5” x 6.40”
  472mm x 318mm x 163mm

Container Weight:
- Retro Unit: 1.25 lbs
- Single Unit: 2.00 lbs
- Dual Unit: 4.60 lbs

Electrical Specifications
Supply Voltage Ranges: Nominal +/- 10%
Nominal Input Power:
- 5.5W (FAA 120–240 VAC Units)
- 5.0W (FAA 12–48 VDC Units)
Peak IR Intensity: 860 nanometers
Power Factor: >0.9 (All AC units)
Operating Temp: -40ºF to +131ºF (-40ºC to +55ºC)

Order Codes
- RTOCR07001 Single fixture 120–240 VAC
- RTOCR08001 Single fixture 12–48 VDC
- RTOCR07002 Dual fixture 120–240 VAC
- RTOCR08002 Dual fixture 12–48 VDC
- RTOCR07004 Single retro-fit fixture 120–240 VAC
- RTOCR08004 Single retro-fit fixture 12–48 VDC

Certified to: FAA AC NO: 150/5345-43F
FAA Engineering Brief No. 67
Qualified By: Intertek ETL