About Dialight

Dialight (LSE: DIA.L) is leading the energy efficient LED lighting revolution around the world for industrial and hazardous areas as well as transportation and infrastructure applications. For 40 years it has been committed to the development of LED lighting solutions that enable organizations to vastly reduce energy use and maintenance needs, improve safety, ease disposal and reduce CO2 emissions.

Features & Benefits

- 5 year full performance warranty
- Resistant to shock and vibration
- High impact polycarbonate lens, UV, scratch & chemical resistant lens coating
- Reduction in expensive tower climbs and maintenance costs / unplanned site visits
- Requires smaller gauge wire
- Smallest Flash Head in the Industry
- Community friendly lighting system

Dialight Timeline

1999 → First ever FAA certified LED L810
2001 → First ever FAA certified LED L864
2007 → First ever FAA certified LED L864/L865
2011 → First ever FAA certified LED L856
2012 → First ever FAA certified L856/L864

Typical Applications

Regulated Primary Markets
- Telecom
- Broadcast
- Chimney
- Turbines
- Wire Crossings
- Tall Structures
- Obstruction Areas
- Wind
- Marine
- Utilities

Dialight's LED Technology Innovations Over the Years

First ever FAA certified LED obstruction light

Vigilant® LED Based L-865 High Intensity (White) Strobe

Vigilant® LED Based L-864/L-865 Flashing Dual (White/Red) Strobe

Vigilant® LED Based L-866/L-885 LED (White/Red) Catenary Strobe

Vigilant® LED Based L-864 Red Medium Intensity Beacon

Vigilant® LED Based Medium Intensity Red Infrared (IR) Beacon

Vigilant® LED Based GPS Beacon Wind Market

Vigilant® LED Based RTO L-810 Red LED Obstruction Lights

Vigilant® LED Based 860 L-810 Red LED Obstruction Lights

Class I Div. 2 and ATEX Rated Obstruction Lights for Hazardous Locations

View Dialight Case Studies at:

PPL Generation: http://www.dialight.com/Assets/Brochures_And_Catalogs/Signaling/MDEXMMCMX001.pdf

PPL Power Generation: http://www.dialight.com/Assets/Brochures_And_Catalogs/Signaling/PPL_Case_Study.pdf

Century: http://www.dialight.com/Assets/Brochures_And_Catalogs/Signaling/MDTFCTRAX001.pdf

www.dialight.com
Application:
The Dialight Vigilant® High Intensity LED White Strobe is the first all LED L-856 unit designed for the lighting of communication towers, smoke stacks, broadcast towers and other tall obstructions to aerial navigation, as specified by the FAA. A high intensity system consists of 3 flash heads, 3 power supplies per level and 1 controller for the entire system. The flash heads will be placed on up to six levels of the structure for a maximum of 18 synchronized flash heads for a single tower. The 3 flash heads will provide 360 degrees of coverage.

Unlike conventional Xenon flashtube technology, Dialight’s LED system requires little or no maintenance during its lifetime, drastically reducing costs associated with tower climbs. Working voltages of less than 200VDC are significantly less than those of Xenon flashtube designs; therefore, this system represents an advance in safety. Use of LED technology also provides a more shock and vibration resistant design, ensuring consistent flash intensity every time.

This IP66 rated product is factory sealed to ensure water tight seals are not compromised over the life of the strobe. Additionally, like all of Dialight’s Obstruction Lights, patented optics provide sharp cutoff drastically minimizing light pollution and ground scatter.

Certifications & Ratings
• FAA AC NO: 150/5345-43G
• FAA Engineering Brief No. 67
  (Check FAA Website for current certification)
• IP 66

Qualified By
• Intertek ETL

Compliant to
• DGAC Mexico
• Canadian Aviation Regulation CAR 621.19 (Transport Canada)

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<td>Controller</td>
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<td>D156-6000NT</td>
<td>Night photocell</td>
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<td>D156-6000TW</td>
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<td>D156-6001JBX</td>
<td>Junction box</td>
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<td>Set of boards needed to connect an external red system to a high intensity system</td>
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<td>D156-AL8INT</td>
<td>Set of boards needed to connect an external system</td>
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Vigilant® LED Based L-856/L-864
High Intensity (White/Red) Strobe

Application:
The Dialight Vigilant® High Intensity Red/White Strobe is the first all LED L-865 unit designed for the lighting of communication towers, smoke stacks, broadcast towers and other tall obstructions to aerial navigation, as specified by the FAA. A high intensity system consists of 3 flash heads, 3 power supplies per level and 1 controller for the entire system. The flash heads will be placed on up to six levels of the structure for a maximum of 18 synchronized flash heads for a single tower. The 3 flash heads will provide 360 degrees of coverage.

Unlike conventional Xenon flashtube technology, Dialight’s LED system requires little or no maintenance during its lifetime, drastically reducing costs associated with tower climbs. Working voltages of less than 200VDC are significantly less than those of Xenon flashtube designs; therefore, this system represents an advance in safety. Use of LED technology also provides a more shock and vibration resistant design, ensuring consistent flash intensity every time.

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- FAA Engineering Brief No. 67
  (Check FAA Website for current certification)
- IP 66

Qualified By
- Intertek ETL

Compliant to
- DGAC Mexico
- Canadian Aviation Regulation CAR 621.19 (Transport Canada)

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<tr>
<td>D156-6000NT</td>
<td>(1) - Night photocell</td>
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<td>D156-6000TW</td>
<td>(1) - Twilight photocell</td>
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<td>D156-6001JBX</td>
<td>(1) - Junction box</td>
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<td>D156-REDINT</td>
<td>(1) - Set of boards needed to connect an external red system to a high intensity system</td>
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<tr>
<td>D1RW-C13-AL8</td>
<td>(1) - L-856/L-864 antenna obstruction light and AOL interface boards</td>
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Unit Weight: 63 lbs
Operating Voltage: Universal 120 - 277V AC 50/60Hz
Effective Intensity:
- White Day 270,000 cd
- White Twilight 20,000 cd
- White Night 2,000 cd
- Red 2,000 cd

Wattage:
- White Day 220W
- White Twilight 40W
- White Night 30W
- Red Night 30W

Power Factor: >0.9
Ambient Temp: +40ºF to +131ºF (-40ºC to +55ºC)
Synchronization:
- Multiple unit sync from single controller
  (Operates with other manufacturers of GPS sync devices)

www.dialight.com
Vigilant® LED Based L-864/L-865
Flashing Dual (White/Red) Strobe

Dimensions in Inches [mm]

Certifications & Ratings
• FAA AC NO: 150/5345-43G
• FAA Engineering Brief No. 67
  (Check FAA Website for current certification)
• DGAC Mexico
• IP 66

Qualified By
• Intertek ETL
• CSA

Compliant to
• Canadian Aviation Regulation CAR 621.19 (Transport Canada)

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<td>D1RW-9004</td>
<td>Driver</td>
<td>Driver</td>
<td>120-240V AC/ 48V DC</td>
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Application:
The all LED Dialight Vigilant® medium intensity white strobe and red beacon is designed for the lighting of communication towers, smoke stacks wind generators and other obstructions to aerial navigation, as specified by the FAA and FCC. The Dual L-864/L-865 uses LED technology for light output from both the red beacon and white strobe.

Unlike conventional Xenon flashtube technology, little or no maintenance is required during its lifetime. Working voltages of less than 200VDC are significantly less than those of Xenon flashtube designs; therefore, this system represents an advance in safety. The Dialight Dual L-864/L-865 LED beacon operates from a 48VDC supply. The power supply / control box can be located up to 550 ft away from the light engine, such as at the base of the tower.

Flip top design for simple installation
Vigilant® L-866/L-885 LED (White/Red)
Catenary Strobe

Application:
The Dialight Vigilant™ L-866 / L-885 Catenary White Strobe and Red Beacon is designed to be incorporated into medium intensity L-866 and flashing red obstruction L-885 systems. Applications include the lighting of structures supporting overhead cables above canyons, valleys and waterways as specified by the FAA. The Dual L-866 / L-885 uses LED technology for light output for both the Red Beacon and White Strobe. Unlike conventional Xenon flashtube technology, little or no maintenance is required during its lifetime. Working voltages of less than 200VDC are significantly less than those of Xenon flashtube designs; therefore, this system represents an advance in safety. The Dialight Dual L866 / L885 LED beacon operates from a 120/240 VAC, 50/60 Hz supply. The power supply / control box can be located up to 550 ft away.

Certifications & Ratings
• FAA AC NO: 150/5345-43G
• FAA Engineering Brief No. 67
  (Check FAA Website for current certification)
• IP 66

Qualified By
• Intertek ETL
• CSA

Compliant to
• Canadian Aviation Regulation CAR 621.19 (Transport Canada)
• DGAC  Mexico

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<td>FAA L-866/L-885</td>
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Flip top design for simple installation
Certifications & Ratings:
• FAA AC NO: 150/5345-43G
• FAA Engineering Brief No. 67 (Check FAA Website for current certification)
• DGAC Mexico
• IP 66

Qualified By:
• Intertek ETL
• CSA

Compliant to:
• Canadian Aviation Regulation CAR 621.19 (Transport Canada)

Application:
The Dialight Vigilant® L-864 LED based medium intensity red beacon utilizes state-of-the-art optical design to achieve the most compact, efficient, FAA compliant L-864 device in the market. While it readily interfaces into existing installations, its robust, low power design will provide years of maintenance free service.

The L-864 has extremely low RF interference and is ideal for the most difficult environments, including "hot" AM towers.

| Unit Weight: | 20lbs (9Kg) |
| Operating Voltage: | AC: Universal 120-240 VAC 50/60Hz power factor corrected supply  
DC: 24-48V DC - +10% |
| Supply Voltage Ranges: | Nominal +/- 10% |
| Effective Intensity: | 2,000 cd |
| Wattage: | 3.3W (16.7% duty cycle)  
20 flashes per minute with 0.5 second on time |
| Operating Temp: | -40ºF to +131ºF (-40ºC to +55ºC) |
| Power Factor: | >0.9 |

Order codes:

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www.dialight.com
Vigilant® L-864 LED Based Medium Intensity Red Infrared (IR) Beacon

Certifications & Ratings:
- FAA AC NO: 150/5345-43G
- FAA Engineering Brief No. 67
  (Check FAA Website for current certification)
- IP 66

Qualified By:
- Intertek ETL
- CSA

Compliant to:
- Canadian Aviation Regulation CAR 621.19 (Transport Canada)
- DGAC Mexico

Application:
Dialight’s Vigilant L-864 LED Based Medium Intensity Red Infrared Beacon incorporates both Red and IR LEDs in a single unit to ensure visibility for aircraft pilots around military bases, airfield perimeters, buildings, towers, and other obstructions, both during normal flight or when aided by night vision systems.

| Unit Weight: | 20lbs (9kg) |
| Operating Voltage: | Universal 120-240 VAC 50/60Hz power factor corrected supply |
| Supply Voltage Ranges: | Nominal +/- 10% |
| Effective Intensity: | 2,000 cd |
| Wattage: | 40W (Steady burn) |
| | 7W (16.7% duty cycle) |
| | 20 flashes per minute with 0.5 second on time |
| Operating Temp: | -40ºF to +131ºF (-40ºC to +55ºC) |
| Power Factor: | >0.9 |

Infrared (IR) Spectrum
Provides improved visibility while using night vision goggles

Order codes:

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<tr>
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<th>Description</th>
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<td>FAA L-864</td>
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*For Retrofit adapter see page 6
Application:
The LED Beacon with GPS technology, when utilized with multiple SFM's (Synchronized Flashing Modules), provides the synchronized flashing function (proper sequence of ON / OFF time) for multiple LED Beacons or LED obstruction lights.

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<th>Feature &amp; Benefits</th>
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<td>Patented Optics</td>
<td>Provides minimum ground scatter for a “community-friendly” lighting system</td>
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<tr>
<td>Flip top design</td>
<td>for simple installation</td>
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**Certifications & Ratings**
- FAA AC No. 150/5345-43
- FAA Engineering Brief No. 67
  (Check FAA Website for current certification)
- IP 66

**Qualified By**
- Intertek ETL

**Compliant to:**
- Canadian Aviation Regulation CAR 621.19 (Transport Canada)
- DGAC Mexico

**Part Number** | **Description** | **Voltage** | **Certification / Compliance**
--- | --- | --- | ---
D464-A13-001-GPS | Beacon with Integrated GPS; Monitoring | 120-240 VAC; 50/60 Hz | FAA

**Order codes:**
- D464-A13-001-GPS
- Beacon with Integrated GPS; Monitoring

**Unit Weight:** 20lbs (9kg)

**Operating Voltage:** 120-240 VAC, 50/60 Hz; Switch Selectable

**Flash Rate:** 20, 30, or 40 (± 1%) flashes per minute (switch selectable); (½ ON and ½ OFF)

**Effective Intensity:** 2,000 cd

**Wattage:**
- 20W (Steady burn)
- 3.3W (16.7% duty cycle) 20 flashes per minute with 0.5 second on time

**Power Factor:** > .9

**Operating Temp:** 40° F to +131° F (-40° C to +55° C)
**Vigilant® LED Based RTO L-810 Red LED Obstruction Lights**

**US Patent #7,604,384**

**Single Fixture**

- Unit Weight: 1.25lbs (0.56 kg) (Retro Unit)
- 2.00lbs (0.91 kg) (Single Unit)
- 4.60lbs (2.09 kg) (Dual Unit)

**Dual Fixture**

- **Supply Voltage Ranges:** Nominal +/- 10%
- **Power Factor:** >0.9 (All AC units)
- **Operating Temp:** -40ºF to +131ºF (-40ºC to +55ºC)

**Certifications & Ratings**

- FAA AC NO: 150/5345-43G
- FAA Engineering Brief No. 67 (Check FAA Website for current certification)
- DGAC Mexico
- IP 66
- NEMA 4X
- Qualified By: Intertek ETL
- Lighting Sciences Canada

**Compliant to**

- ICAO Aerodromes Design Manual, Chapter 18
- Canadian Aviation Regulation CAR 621.19 (Transport Canada)
- Nachrichten für Luftfahrer Teil I Langen, 6. Januar 2005
- German Air Traffic Control Notices For Pilots Part I 6, January 2005

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**Application:**

The Dialight Vigilant® RTO L-810 is the most universal, compact and efficient obstruction light in the world. ETL Certified to the FAA requirements, the RTO signal is also ICAO and Transport Canada compliant. A variety of mounting options are available including a single signal for direct replacement of incandescent lamp/lens technology.
Vigilant® LED Based 860
L-810 Red LED Obstruction Lights

Dimensions in Inches [mm]

Certifications & Ratings
• FAA AC NO: 150/5345-43G
• FAA Engineering Brief No. 67
  (Check FAA Website for current certification)
• DGAC Mexico
• IP 65
• IP 66
• NEMA 4X

Qualified By
• Intertek ETL
• Lighting Sciences Canada

Compliant to
• ICAO Aerodromes Design Manual, Chapter 18
• Canadian Aviation Regulation CAR 621.19 (Transport Canada)
• Nachrichten für Luftfahrer Teil I Langen, 6. Januar 2005
• German Air Traffic Control Notices For Pilots Part I 6, January 2005
• CASA

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<td>Dual Fixture</td>
<td>CASA, 100cd</td>
<td>230 VAC</td>
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All candela’s are minimums
See www.dialight.com for more informations

Dialight also offers these LED obstruction lights for use in Hazardous Locations (Class I, Div. 2)

SafeSite® L-810 Red LED Obstruction Lights  SafeSite® 810 LED Steady Burn Visual Signals  SafeSite® FLS Flashing Visual Signals

Unit Weight: 7.14 lb (3.23 kg) (Single Unit)
16.06 lb (7.28 kg) (Dual Unit)

Wattage:
15W / 120mA (120 VAC Units) (+/- 10%)
16W / 120mA (230 VAC Units - 60 Hz) (+/- 15%)
16W / - (230 VAC Units - 50 Hz)
24W / 2.0A (12 VDC Units - Standard)
20W / 920mA (24 VDC Units)
13W / 275mA (48 VDC Units)

Operating Temp: -67ºF to +131ºF (-55ºC to +55ºC)
SafeSite® LED Based Obstruction Lighting Products
Dialight also offers these Class I Div. 2 and ATEX Rated Obstruction Lights for Hazardous Locations

**SafeSite® L-864/L-865 Flashing Dual LED (White/Red) Strobe**

The all LED Class I, Div 2 Dialight Medium Intensity White Strobe and Red Beacon is designed for lighting of chimneys, flare stacks, and any other types of obstruction to aviation in hazardous areas such as power plants, refineries and chemical plants.

**SafeSite® L-864 Red LED Medium Intensity Beacon**

The all LED Class I, Div 2 Dialight Medium Intensity White Strobe and Red Beacon is designed for lighting of chimneys, flare stacks, and any other types of obstruction to aviation in hazardous areas such as power plants, refineries and chemical plants.

**SafeSite® L-810 Red LED Steady Burn Visual Signal Lights**

LED Based L810 Red Obstruction light certified to meet both the rigorous FAA requirements for red LED obstruction lights and Class I, Division 2 and ATEX certifications for hazardous area lighting locations. It is available in 120 or 230 volt versions and can be ordered as single or dual units.

**SafeSite® L-810 LED Steady Burn Colored Visual Signal Lights**

Dialight’s steady burn LED Based Class I, Division 2 and ATEX approved Visual Signals are used in a wide range of industries for visual indication in hazardous environments. Versions of this fixture are available in 120VAC or 230VAC.

**SafeSite® FLS Flashing Colored Visual Signal Lights**

Dialight's newest addition to their line of Class I, Division 2 Visual Signal Lights, the FLS Series Flashing Signals are used in a wide range of industries for visual indication in hazardous environments. Versions of this fixture are available in 120VAC, 230VAC or 12-48 VDC.