Dialight

Vigilant® D1CW Medium Intensity System
E1 System

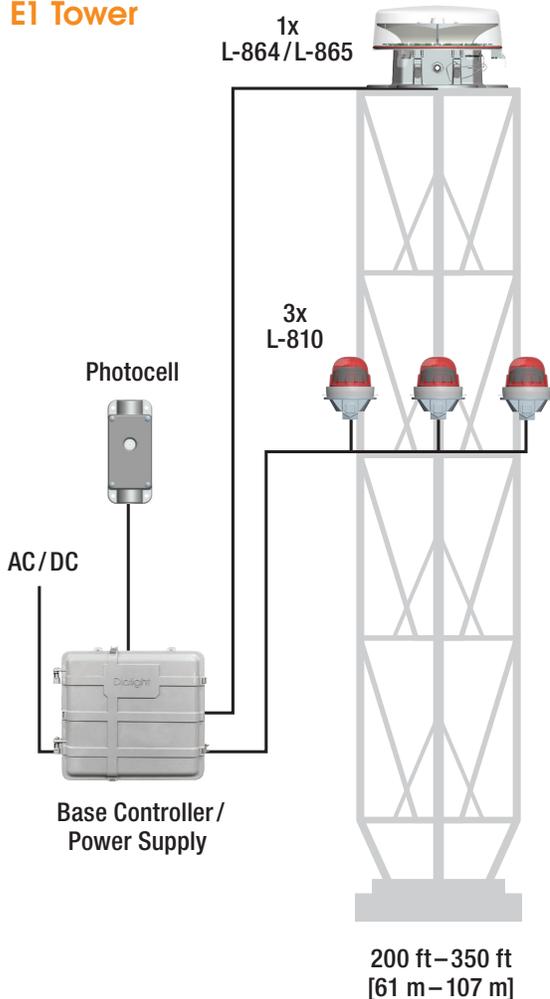## L-864 / L-865 Dual Red/White with Infrared (IR)

Dialight is the market leader in LED obstruction solutions with over 20 years of design and manufacturing experience. Dialight offers the industry's most reliable, energy-efficient and comprehensive line of LED-based obstruction systems in the world. Precision patented optics ensure maximum safety with minimal ground scatter for community friendly illumination. Dialight systems offer a small, light-weight flash head for ease of installation, and our low-maintenance fixtures virtually eliminate tower climbs and unplanned site visits for years, dramatically reducing maintenance costs and non-compliance risk. Dialight controlled LED obstruction solutions can be seamlessly integrated into existing operation and control centers while providing additional valuable information, both locally and remotely.

Certifications & Compliance

- **FAA AC 150/5345 - 43J**
- FAA EB No. 67D & 98
- IP66 / NEMA 4X
- ICAO Annex 14
- DGAC Mexico
- Transport Canada Standard 621

Standard Features

- 5 year warranty
- ETL verified to FAA standards
- IR wavelength at 850 nm
- Superior surge and lightning protection
- Patented optics for minimal down light / ground scatter
- Remote monitoring options available
- Integrated controller with LCD backlit display
- Provisions for padlock on the enclosure

E1 Tower

1x
L-864 / L-865

3x
L-810

Photocell

AC / DC

Base Controller /
Power Supply

200 ft – 350 ft
[61 m – 107 m]

D1CW-KIT-STD-E1A Obstruction Lighting System Kit

This kit, supplied on a pallet, provides all the necessary lighting and hardware to install a new Dialight Vigilant E1 system on a tower 200 ft – 350 ft (61 m – 107 m).
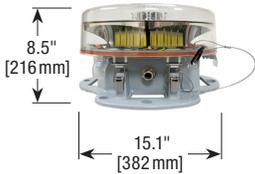
Component P/N	Description	Qty
D1CW-CTR-409	Dual Strobe L-864 / L-865 + IR Controller & Power Supply 120 – 277 VAC	1
D1CW-FH-409	Dual Strobe L-864 / L-865 + IR Flash Head	1
RTO-CR28-001	Side Marker L810 Low Power 12 – 48 VDC, Red + IR FAA	3
D256-6000PEC	Photocell, ¾" NPT, Cast Enclosure	1
CAB-050183	Photocell Cable, 50 ft, 18 AWG / 3 Conductor	1
CAB-300183	Side Marker Cable, 300 ft, 18 AWG / 3 Conductor	1
CAB-400144BF	Strobe Cable, 400 ft, 14 AWG / 4 Conductor	1
D1RW-HDWR-E1	E1 Hardware Kit (L-810 Mounts, Junction Box, Hardware, and Tape)	1

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Specifications D1CW-KIT-STD-E1A System Kit

Controller	Power Consumption	Power Input
D1CW-CTR-409 L-864/L-865 Controller & Power Supply 19.4 x 19.4 x 8.4" (Mounting dimension 20.4 x 12.0") IP66, NEMA 4X	Full System: White Day = 75 w White Night = 10 w Red/IR Night = 28 w	Power input 120–277 VAC Power factor > 0.9 Frequency 50–60 Hz

Lighting	Effective Light Intensity	Cables
D1CW-FH-409 L-864/L-865 Flash Head 21 lbs (9.5 kg) IP66, NEMA 4X (13.25 bolt circle)	White Day = 20,000 cd White Night = 2,000 cd Red = 2,000 cd IR = 246 mW/sr	**CAB-400144BF** 400 ft Flash Head Cable 14 AWG 4 conductors with foil & braid UL and CSA
RTO-CR28-001 L-810 Single Side Marker 2.0 lbs (0.91 kg) IP66, NEMA 4X	Red = 32 cd IR = 4 mW/sr	**CAB-300183** 300 ft Side Marker Cable 18 AWG 3 conductors UL and CSA

8.5" [216mm]

15.1" [382mm]

Photocell	Spec	
D256-6000PEC Photocell 2.0 lbs (0.91 kg) IP66, NEMA 4X	• Long life (10+ years) • No adjustments required • Flat or conduit ¾" NPT mounted	**CAB-050183** 50 ft Photocell Cable 18 AWG 3 conductors UL and CSA

Relay Board Alarm Dry Contact LEDs

AL1 =	AL2 =	AL3 =	AL4 =	AL5 =	AL6 =	AL7 =	AL8 =
L-810 Side Marker board communication status	Lighting synchronization status	L-864 / L-865 Flash Head status	Photocell status	Day / night transition status	Internal communication status	L-810 Side Marker status	Photocell mode (day or night)