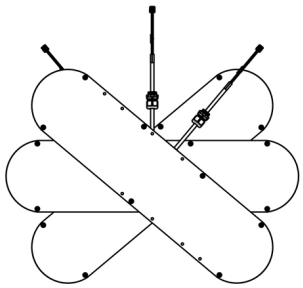
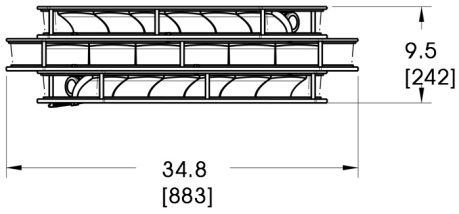
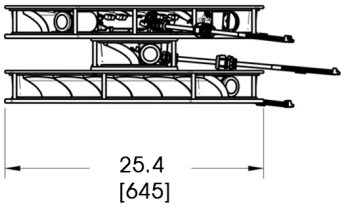
Vigilant® LED High Intensity System L-864/L-856

High Intensity (Red/White) System with Infrared (IR)







Dimensions in inches [mm]

Certifications & Compliance

- FAA AC 150/5345 - 43J*
- FAA EB No. 67D and 98
- IP66
- Transport Canada Car 621.19
- ICAO Annex 14
- NEMA 4X

Features & Benefits

- 5 year warranty
- ETL verified to FAA standards*
- IR wavelength at 850 nm
- Superior surge and lightning protection
- Controller can be mounted at the base of the structure
- IP66/NEMA 4X outdoor rated enclosures
- Low power consumption
- IP66 rated light fixtures
- Impact and vibration resistant
- Provision for padlock on the enclosure
- Patented optics for minimal down light/ground scatter
- Dry contacts for alarm monitoring/status
  - › Photocell alarm
  - › Sync alarm
  - › White mode alarm
  - › Red mode alarm
  - › Communication
  - › Operation mode (day/night)
  - › Power fail

Technical Information:

Flash head weight:	63 lbs (30 kg)
Operating voltage:	208–277 VAC 50/60 Hz
Effective intensity:	White Day - 270,000 cd White Twilight - 20,000 cd White Night - 2,000 cd Red - 2,000 cd IR - 246 mW/sr
Wattage:	White Day - 220 W White Twilight - 40 W White Night - 30 W Red/IR - 33 W
Power factor:	> 0.9
Ambient temperature:	-40 °F to +131 °F (-40 °C to +55 °C)
Synchronization:	Multiple unit sync from single controller

All values typical unless otherwise stated (tolerance ± 10%)

US Patents: #7,281,821 | #9,423,086 | #9,581,309 (other patents pending)

Part Number	Description	Voltage	Certification/Compliance
D366-A57-270	Flash head (120°) and power supply	208–277 VAC	FAA/TC/ICAO
D366-A57-CTRAC	Base controller w/ display	208–277 VAC	FAA/TC/ICAO
D366-A57-CTRACN	Base controller w/ display and integrated INEM	208–277 VAC	FAA/TC/ICAO
D256-6000-PEC	Day/Twilight/Night photocell w/ enclosure and 3/4 inch conduit entry	—	FAA/TC/ICAO
D1CW-KIT-AOL	Aviation obstruction light (AOL) & power supply kit for FAA, Types C & F	208–277 VAC	FAA/TC/ICAO

*Certification pending
Intertek verified FAA compliant system number D366A57SYS (system number not for order)

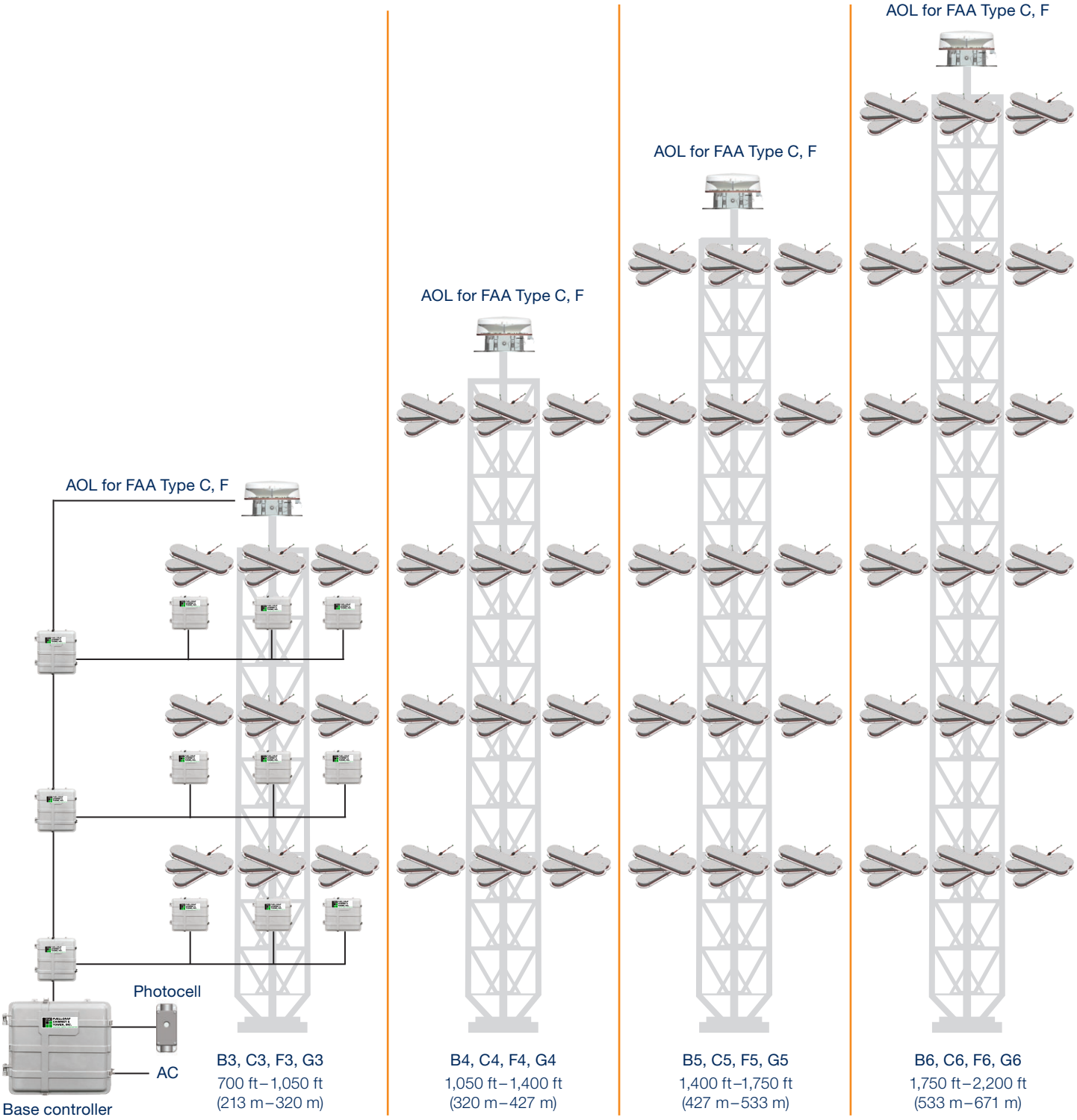
Vigilant® LED High Intensity System L-864/L-856

High Intensity (Red/White) System with Infrared (IR)

FAA Type B, C, F & G

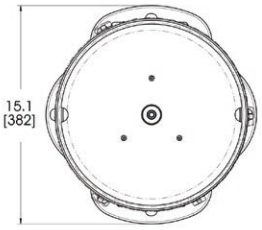
Application

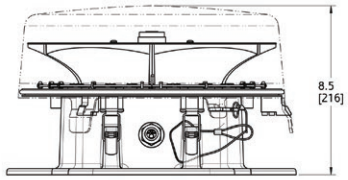
The Dialight Vigilant® High Intensity Red/White System is the first all LED L-864/L-856 unit designed for the lighting of communication towers, chimneys, smoke stacks, broadcast towers and other tall obstructions to aerial navigation, as specified by the FAA and ICAO.



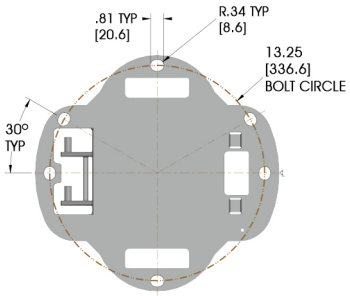
Vigilant® LED Medium Intensity System L-864 / L-865

Medium Intensity (Red / White) System with Infrared (IR)

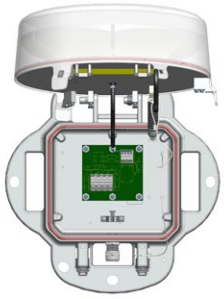




Dimensions in inches [mm]



Flip top design for simple installation



Certifications & Compliance

- FAA AC 150/5345 - 43J
- FAA EB No. 67D and 98
- IP66
- Transport Canada Car 621.19
- ICAO Annex 14
- NEMA 4X

Features & Benefits

- 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
- Universal 120–277 VAC input or 48 VDC input
- IP66/NEMA 4X outdoor rated enclosure
- GPS synchronized controller available
- Provisions for padlock on the enclosure

Cable

- Recommended UV rated 4 conductor cable with metal foil and braid. 14AWG (2.08 mm2) for lengths up to 680' (207 m) or 12AWG (3.31 mm2) for lengths above 680' (207 m).
- Complete kits available: D1, E1, E1+1, E2, D2, E2+1 and D2+1

Technical Information:

Flash head weight:	21 lbs (9.5 kg)
Operating voltage:	120-277 VAC 50/60 Hz or 48 VDC power factor corrected supply
Supply voltage ranges:	Nominal ± 10%
Effective intensity:	White Day - 20,000 cd White Night- 2,000 cd Red Night - 2,000 cd IR - 246 mW/sr
Flash head power:	White Day - 36 W (system = 75 w) White Night - 4 W (system = 10 w) Red/IR Night - 15 W (system = 28 w)
Power factor:	> 0.9
Operating temperature:	-40 °F to +131 °F (-40 °C to +55 °C)
Synchronization:	Multiple unit sync from single controller

All values typical unless otherwise stated (tolerance ± 10%)

US Patents: #7,208,881 | #7,568,821 | #7,604,380 | #7,777,424 | #9,423,086 | #9,476,548 | #9,581,309

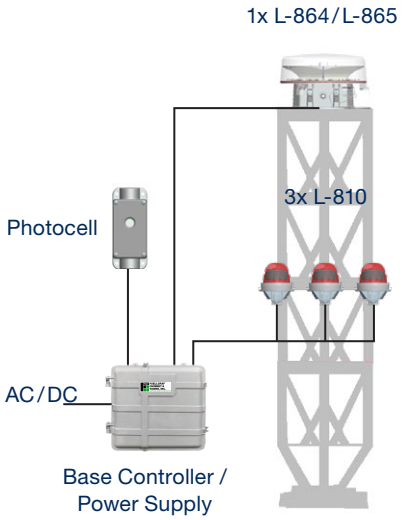
Vigilant® LED Medium Intensity System L-864/L-865

Medium Intensity (Red/White) System with Infrared (IR)

FAA Type D & E

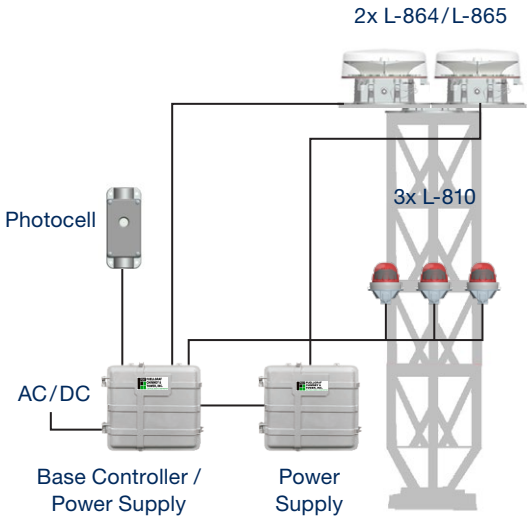
Application

Dialight's LED based dual (Red/White) obstruction system is ideal for D & E style FAA communication tower types and can be used to mark other structures as well. The operation of the lights is configurable and fully monitored. The side markers can be run in steady burn or flashing mode. The lights are ETL verified to the FAA requirements.



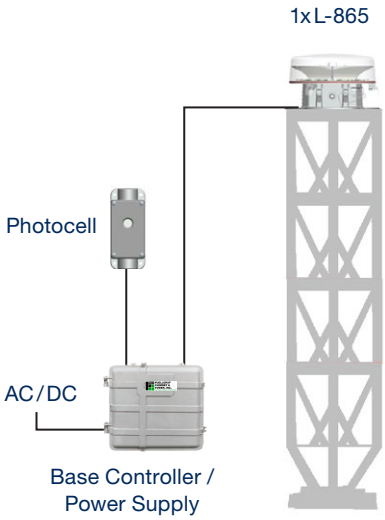
E1

200 ft–350 ft
(61 m–107 m)



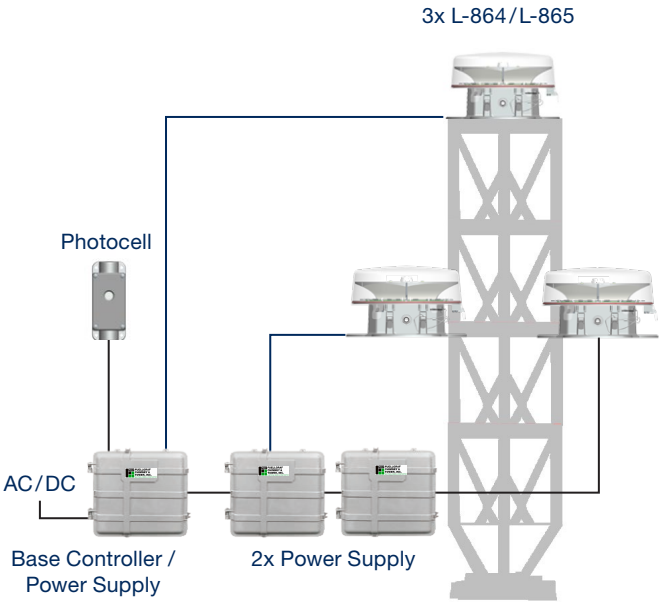
E1+1

200 ft–350 ft
(61 m–107 m)



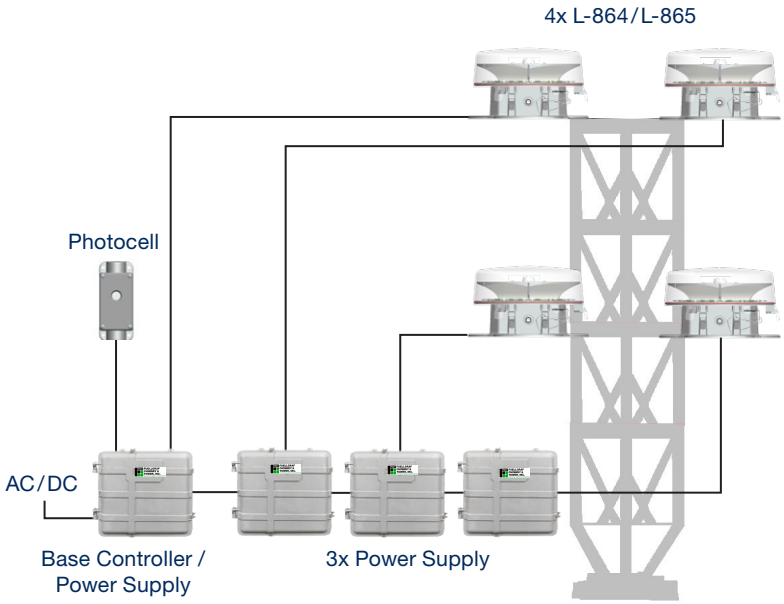
D1

200 ft–350 ft
(61 m–107 m)



D2/E2

350 ft–700 ft
(107 m–213 m)



D2+1/E2+1

350 ft–700 ft
(107 m–213 m)

Vigilant® LED Medium Intensity System L-864 / L-865

Medium Intensity (Red / White) System with Infrared (IR)

LED Flash Head (L-864 / L-865)

Part Number	Description
D1CWFH409	Dual Red / White Medium Intensity Flash Head w/ IR*

LED Side Markers L-810

Input	Part Number	Description
12-48 VDC	RTOCR28001	L-810 Low Intensity Side Marker w/ IR: DC Input*

Controllers

Input	Part Number	Description
120-277 VAC	D1CWCTR409	Dual Red / White Medium Intensity Controller w/ IR: AC Input
48 VDC	D1CWCTR449	Dual Red / White Medium Intensity Controller w/ IR: DC Input

Power Supply

Input	Part Number	Description
120-277 VAC	D1CWPS9409	Dual Red / White Medium Intensity Power Supply w/ IR: AC Input
48 VDC	D1CWPS9449	Dual Red / White Medium Intensity Power Supply w/ IR: DC Input

Photocell

Part Number	Description
D2566000PEC	Photocell: Single 3/4" NPT Entry

Cable

Tower Height	Description
up to 680 ft (207 m)	14 AWG (2.08 mm^2) UV rated 4 conductor cable with metal foil and braid
above 680 ft (207 m)	12 AWG (3.31 mm^2) UV rated 4 conductor cable with metal foil and braid

*Compliant to FAA Engineering Brief 98 and FAA AC 150/5345 - 43J
** Intertek verified FAA compliant system numbers D1CW1x409SYS (System numbers not for order).