

# Vanguard Medium FTS 370d LED

## Medium Intensity Dual LED Aviation Obstruction Lighting System

### Compliance and Applications

The Vanguard Medium FTS 370d is a dual FAA L-864/L-865 medium intensity LED lighting system for structures between 200' and 700' AGL (FAA E-type towers). Certified to the latest FAA specification, the FTS 370d uses a single cable for communication as well as beacon and marker power to simplify installation and use.

Designed for the long term, FTS 370d's firmware is remotely upgradeable for compatibility with future upgrades. A single enclosure houses a low voltage environment that makes it safe for technicians to service during active operation.

Apart from FAA certification, the FTS 370d system also meets FAA L-885 low intensity catenary requirements and complies with CAR 621 2nd edition for medium intensity CL-864/CL-865 flashing lights and ICAO 6th edition standards for medium intensity Type A/Type B obstacle lights.

### Standard Features

- Infrared (IR) lighting – NVG and NVIS compatibility using 850nm IR LEDs per FAA AC 150/5345-43J
- Interleaved LEDs and bypass circuitry provide longer life by allowing the loss of individual LEDs up to the 25% limit
- Surge immunity of 25kA to withstand 99% of all lightning strikes
- Patented Fresnel optics minimizes ground scatter to surrounding community
- Ruggedized photodiode, including metal housing and shielded cable
- Input power breaker switch eliminates replaceable fuses
- Aircraft Detection Lighting Systems (ADLS) interface
- Automatic failsafe switches to day mode if no mode change detected
- 4-line OLED backlit display for visibility in any lighting conditions
- Dry contact monitoring (day, night, marker, PED, GPS, comm alarms and mode status)
- Compliant with FAA AC 70/7460-1M
- 5-year warranty



### System Options

- SMART card – monitor and control the system remotely and receive full diagnostic information through LTE modem or Ethernet-based connectivity. SNMP, Modbus or Eagle protocols may be used.
- LTE modem for improved communication stability
- Outdoor Wi-Fi antenna for onsite diagnostics and lighting inspections
- GPS synchronization
- Upgrade firmware remotely
- TECK90 cable option – provides protection from RF interference and damage on high-power broadcast towers up to 700' AGL

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SPECIFICATIONS	
Regulatory Compliance	FAAAC 150/5345-43J L-864, L-865, L-866, L-885
	FAAAC 70/7460-1M
	ICAO Annex 14 6th edition Medium Intensity types A and B
	Transport Canada CAR 621 2nd edition CL-864/CL-865
	DGAC L-864/L/865
	CSA CE
Input Voltage	100-240 VAC ±48 VDC (optional)
Frequency	50-60 Hz
FH Dimensions	15.8 dia. x 7.3" (401 dia. x 185.4 mm)
FH Weight	26.3 lb. (11.92 kg)
FH Aerodynamic Wind Area	99.1 in <sup>2</sup> (0.06 m <sup>2</sup> )
Marker Power Consumption*	2.1w (3.4w with IR)
Marker Dimensions	9 x 2.8 x 2.1" (228.6 x 71.1 x 53.3 mm)
Marker Weight	1.6 lb. (0.7 kg)
Controller Dimensions	23 x 17.1 x 6.4" (584.2 x 434.3 x 162.6 mm)
Controller Weight	44 lb. (20 kg)
Protection Rating	IP66, NEMA 4X

POWER CONSUMPTION		Wattage (IR)	Flash Rate**	Flash Intensity
L-864/ L-865	Day (white)	80w (70w)	40 fpm	20,000 ±25%ECD
	Night (red)	40w (40w)	20/30/40 fpm	2,000 ±25%ECD
	Night (white)	40w (40w)	40 fpm	2,000 ±25%ECD
L-866/ L-885	Day (white)	110w (100w)	60 fpm	20,000 ±25%ECD
	Night (red)	50w (50w)	60 fpm	2,000 ±25%ECD
	Night (white)	50w (50w)	60 fpm	2,000 ±25%ECD

**FAA DUAL TOWER LIGHTING**

**FAA AC 70/7460-1M**

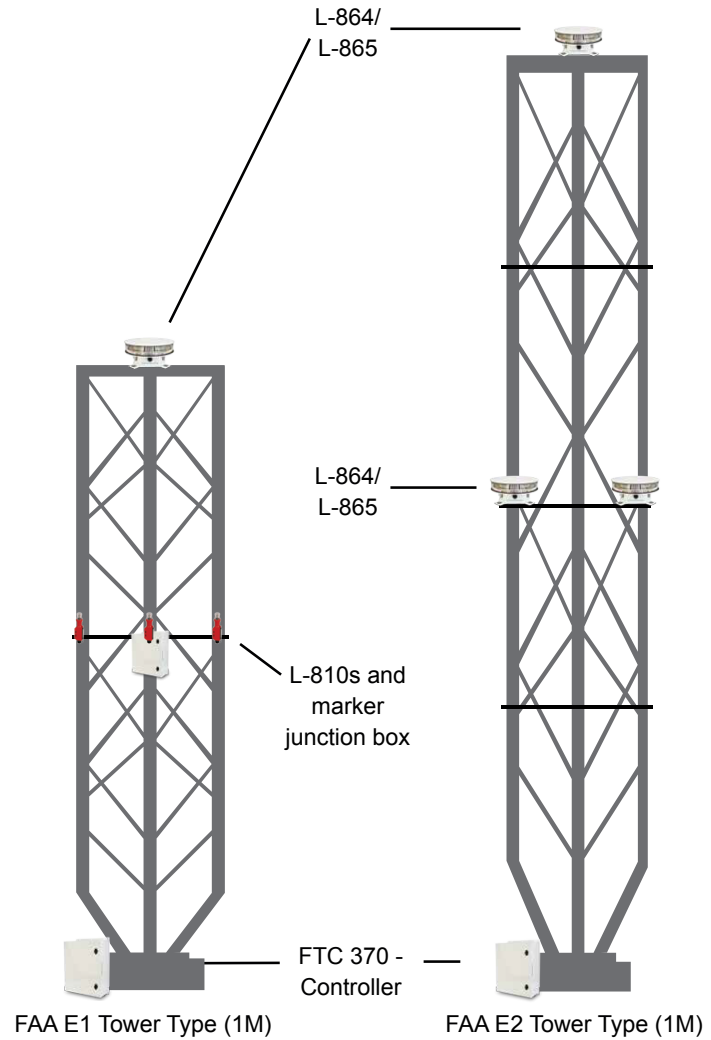
- **Tower Type E1:** 200-350' including any appurtenances with 1 red/infrared/white medium intensity L-864/L-865 beacon and 2 or more L-810 red/infrared marker lights flashing in sync with the L-864 at 30 fpm
- **Tower Type E2:** 350-500' including any appurtenances with 3 red/infrared/white medium intensity L-864/L-865 beacons

**FAA AC 70/7460-1L**

- **Tower Type E1:** 200-350' including any appurtenances with 1 dual medium intensity L-864/L-865 beacon and 2 or more L-810 marker lights flashing in sync with the L-864 at 30 fpm
- **Tower Type E2:** 350-500' including any appurtenances with 3 dual medium intensity L-864/L-865 beacons

**FAA AC 70/7460-1K**

- **Tower Type E1:** 200-350' including any appurtenances with 1 dual medium intensity L-864/L-865 beacon and 2 or more steady-burn L-810 marker lights
- **Tower Type E2:** 350-500' including any appurtenances with 3 dual medium intensity L-864/L-865 beacons and 6 steady-burn L-810 marker lights (8 markers if square)



\* Not included in system power consumption.

\*\* Only 30 fpm is applicable for FAA-certified applications filed under AC 70/7460-1M, and requires the use of L-810(f) depending on the height of the structure.