



Broadcast and Telecom Lighting

The FAA has liberalized regulations in AC 70/7460-1L to permit the use of medium intensity lighting on broadcast and telecom towers up to 700' AGL. Deploying a Vanguard Medium FTS 370d system with TECK90 cable is more cost effective and faster to install than conduit.

Designed for tall broadcast towers, the rugged TECK90 cable protects equipment from RF interference and damage. Impervious to all challenging environments including extremes of wet, damp and dry conditions, TECK90 cable resists chemical and mechanical abuse and is even suitable for hazardous locations.

Standard Features

- ✦ Lower installation time and cost
- ✦ Protection from RF interference and damage
- ✦ Infrared (IR) lighting – NVG and NVIS compatibility using 850nm IR LEDs on the flashhead per FAA AC 150/5345-43J
- ✦ Surge immunity of 25kA to withstand 99% of all lightning strikes
- ✦ Interleaved LEDs and by-pass circuitry provide longer life by allowing the loss of individual LEDs up to the 25% limit
- ✦ Patented Fresnel optics to minimize ground scatter
- ✦ LTE modem for improved communication stability
- ✦ Input power breaker switch eliminates replaceable fuses
- ✦ Outdoor Wi-Fi antenna for onsite diagnostics and lighting inspections
- ✦ 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 70/7460-1L
- ✦ 5-year warranty

System Options

- ✦ Infrared LEDs on L-810 marker lights
- ✦ 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.
- ✦ GPS synchronization
- ✦ Upgrade firmware remotely



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SPECIFICATIONS

Regulatory Compliance	FAA AC 150/5345-43J L-864, L-865, L-866, L-885
	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
Input Voltage	100-240 VAC ±24 VDC (optional) ±48 VDC (optional)
Frequency	50-60 Hz
FH Dimensions	15.8 dia. x 7.3" (400 dia. x 190.5 mm)
FH Weight	26.3 lbs (11.92 kg)
FH Aerodynamic Wind Area	99.1 in ² (0.06 m ²)
Marker Power Consumption*	2.1w (3.4w with IR)
Marker Dimensions	9 x 2.8 x 2.1" (228.6 x 69.9 x 54.1 mm)
Marker Weight	1.6 lbs. (0.7 kg)
Controller Dimensions	23 x 17.1 x 6.4" (584.2 x 434.3 x 162.6 mm)
Controller Weight	44 lbs (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

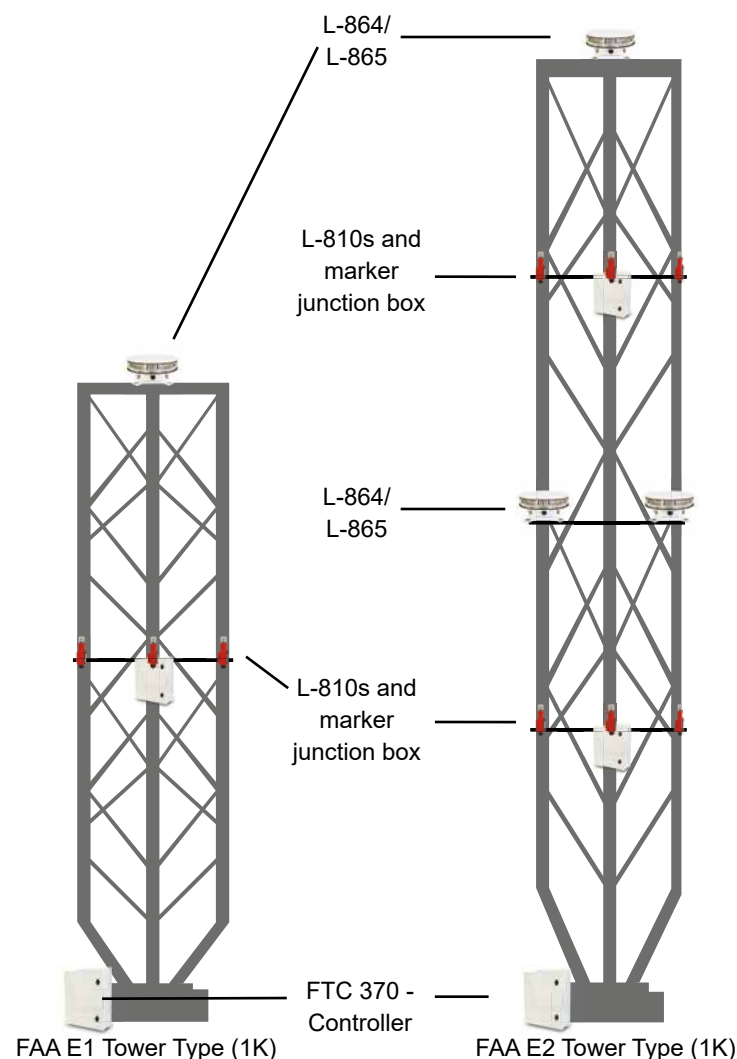
FAA DUAL TOWER LIGHTING

FAA AC 70/7460-1L

- 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 files under AC 70/7460-1L, and requires the use of L-810(f) depending on the height of the structure.

FLASH TECHNOLOGY

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