Vanguard® Medium FTS 370r LED

The Vanguard Medium FTS 370r is a red L-864 medium intensity LED obstruction lighting system for structures 150' to 1050' AGL (FAA tower types A1-A3). The system also meets FAA L-885 low intensity catenary requirements. It complies with CAR 621 2nd edition for medium intensity CL-864 flashing lights and ICAO 6th edition standards for medium intensity type B obstacle lights.

The FTS 370r uses a single cable for communications as well as beacon and marker power. Firmware can be upgraded for future compatibility with no need for controller modification. The single enclosure houses a low-voltage environment, removing the need for an interlock switch and allowing alarms to remain active when the door is open.

Standard Features

- Infrared (IR) lighting – NVG and NVIS compatibility using 850nm IR LEDs on the flashhead per FAA AC 150/5345-43J
- Interleaved LEDs and by-pass 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 lighting strikes
- Patented Fresnel optics to minimize ground scatter
- Ruggedized photodiode in metal housing with 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 and 1L
- 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 support – provides protection from RF interference and damage on high-power broadcast towers up to 700' AGL

FTS 370r

SPECIFICATIONS

Regulatory Compliance	FAA AC 150/5345-43J L-864, L-885
	FAA AC 70/7460-1M
	ICAO Annex 14 6th edition Medium Intensity type B
	Transport Canada CAR 621 2nd edition CL-864
	DGAC L-864
	CSA
	CE
Input Voltage	100-240 VAC ±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*	2.1 W (3.4 W 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	Night (red)	40 W (40 W)	20/30/40 fpm	2,000 ±25%ECD
L-885	Night (red)	50 W (50 W)	60 fpm	2,000 ±25%ECD

FAA RED TOWER LIGHTING

FAA AC 70/7460-1M

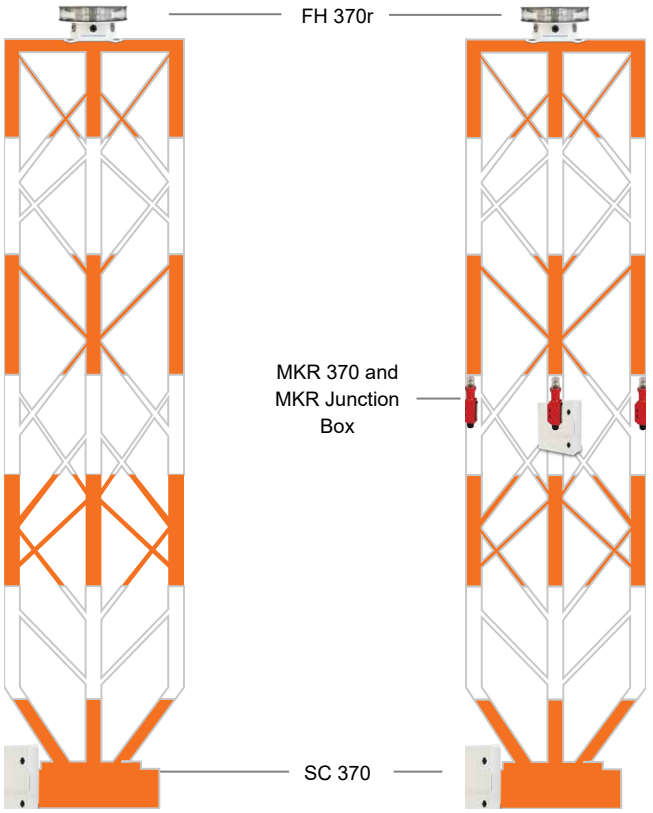
- **Tower Type A1:** 150-350' including any appurtenances with 1 L-864 red/ infrared medium intensity beacon and 2 or more L-810 red/infrared marker lights configured to flash in sync with the L-864 at 30 fpm
- **Tower Type A2:** 350-700' including any appurtenances with 3 L-864 red/ infrared medium intensity beacons at 30 fpm
- **Tower Type A3:** 700-1050' including any appurtenances with 5 L-864 red/ infrared medium intensity beacons at 30 fpm

FAA AC 70/7460-1L

- Same as 1L but no infrared requirement

FAA AC 70/7460-1K

- **Tower Type A1:** 150-350' including any appurtenances with 1 L-864 red medium intensity beacon and 2 or more L-810 marker lights
- **Tower Type A2:** 350-700' including any appurtenances with 3 L-864 red medium intensity beacons and 6 steady-burn L-810 marker lights (8 markers if square)
- **Tower Type A3:** 700-1050' including any appurtenances with 5 L-864 red medium intensity beacons and 9 L-810 marker lights (12 if square)



FAA A1 Tower Type (1M and 1L) FAA A1 Tower Type (1K)

*Not included in system power consumption.

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

FLASH TECHNOLOGY

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