Vanguard® Medium FTS 372 Lighting System

The Vanguard Medium FTS 372 is a medium intensity lighting system for structures between 200' and 700' AGL. It is configurable for FAA Type E (red/white), D (white) and A (red) applications and uses RS-485 for reliable communication and trouble-free operation.

Designed to be robust and easy to use, the FTS 372 does not require binding operations. The firmware for all components on the tower can be remotely updated, eliminating the cost of site visits. The IP66 rated enclosures house a low voltage environment, making it safer for technicians to service during active operation.

Regulatory Compliance

The Vanguard Medium FTS 372 is certified to FAA AC 150/5345-43J as an L-864/L-865 medium intensity light. It also meets FAA L-885 low intensity catenary requirements and complies with ICAO (Medium Intensity Type A/Type B) and Transport Canada CAR 621 (CL-864/CL-865).

Standard Features

↗ Infrared (IR) lighting – NVG/NVIS compatibility per FAA AC 150/5345-43J

↗ Industry-leading 25kA surge suppression rating, protecting against 99% of lightning strikes when properly installed and grounded

↗ Interleaved LEDs and by-pass circuitry provide longer life by compensating for individual LED loss

↗ Patented Fresnel optics minimizes ground scatter to surrounding community

↗ RS-485 improves safety by enabling firmware upgrades for all boards from the tower's base and eliminating the binding process

↗ Multi-flashhead systems require only two enclosures, reducing the mounting footprint and simplifying installation

↗ Input power breaker switch eliminates replaceable fuses

↗ 4-line OLED backlit display for visibility in any lighting conditions

↗ Dry contact monitoring (day, night, marker, PED, GPS, comm alarms and mode status)

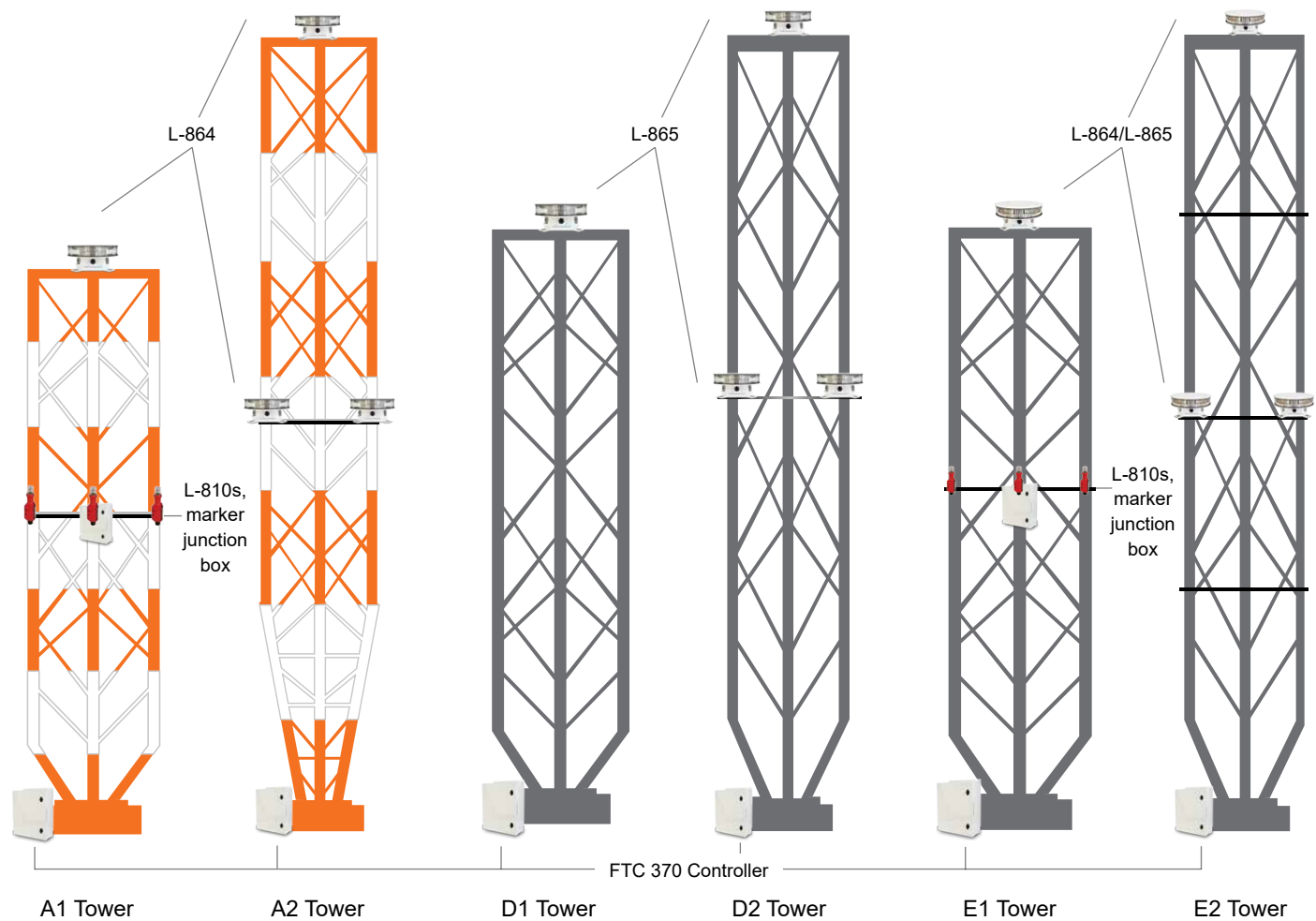↗ Compliant with FAA AC 70/7460-1M

↗ 5-year warranty

System Options

↗ SMART Capability – 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.

↗ Eliminate site visits with remotely upgrade firmware for all boards

↗ GPS sync provides mode change backup using sunrise/sunset data, reducing expedited repairs and light pollution during transitions

↗ SMART battery back-up controller to monitor battery health

↗ Outdoor Wi-Fi antenna for onsite diagnostics and lighting inspections

↗ LTE modem for improved communication stability

↗ TECK90 cable option – provides protection from RF interference and damage on high-power broadcast towers up to 700' AGL

Vanguard® Medium FTS 372

SPECIFICATIONS

Regulatory Compliance	FAA AC 150/5345-43J L-864, L-865, L-885
	ICAO Annex 14 Medium Intensity Types A and B
	Transport Canada CAR 621 CL-864, CL-865
	CSA
	CE
Input Voltage	100-240 VAC, 277 VAC ±48 VDC (optional)
Frequency	50-60 Hz
FH Dimensions	15.8 dia. x 7.3" (401 dia. x 185 mm)
FH Weight	26.3 lbs. (11.9 kg)
FH Aerodynamic Wind Area	0.7 ft² (0.2 m²)
Marker Dimensions	9 x 2.8 x 2.1" (228 x 69 x 54 mm)
Marker Weight	1.6 lbs. (0.7 kg)
Controller Dimensions	23.8 x 17.5 x 8.5" (584 x 434 x 162 mm)
Controller Weight	44 lbs. (20 kg)
Protection Rating	IP66

POWER CONSUMPTION

	Mode	Wattage	Flash Rate*	Flash Intensity
L-865	Day (white)	66	40 fpm	20,000 +/- 25%
	Night (white)	22	40 fpm	2,000 +/- 25%
L-864	Night (red)	21	20/30/40/60 fpm	2,000 +/- 25%
	Night (red)/infrared	23	20/30/40/60 fpm	2,000 +/- 25%
L-810	Night (red)	6.9	Steady	>32
	Night (red)/infrared	1.5	30 fpm	>32

FAA AC 70/7460-1M TOWER LIGHTING

L-864

L-810s, marker junction box

L-865

L-864/L-865

L-810s, marker junction box

FTC 370 Controller

A1 Tower   A2 Tower   D1 Tower   D2 Tower   E1 Tower   E2 Tower

* Only 30 fpm is applicable for FAA-certified applications filed under AC 70/7460-1M.

FLASH TECHNOLOGY ⫻