



Vanguard® High FTS 270 LED Obstruction System

The Vanguard High FTS 270 is an L-856/L-864 high intensity LED lighting system that flashes white lights for day and twilight and either red or white lights at night. It is designed for structures FAA towers B3-B6, C3-C6, F3-F6 and G3-G6, such as broadcast communications towers, smokestacks, chimneys and bridges.

Engineered for maximum LED life, the feature-rich Vanguard High provides ultimate serviceability, easing troubleshooting and minimizing downtime if maintenance is required.

Key Features

- Single panel integrating white, red and infrared LEDs that complies with FAA Engineering Brief 98 and eliminates the need for additional red beacons
- Standard integrated GPS provides mode change backup using sunrise/sunset data to change mode in case of photodiode failure
- Barometric pressure sensors detect errors in a beacon's tier location, eliminating installation errors and pinpointing the location of the beacon on the tower in case maintenance is required
- Industry-leading 25 kA surge suppression rating, protecting against 99% of lightning strikes when properly installed and grounded

Monitoring

- 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; included on all system
- Graphic annotated tower on webpage interface provides clear status of modes and alarms and facilitates deeper monitoring and analysis of individual lighting elements
- 7 standard alarm dry contacts
- Optional Wi-Fi Interface offers command and control capabilities on mobile devices local to the site
- Optional Relay Expansion allows up to 28 additional dry contact alarm points for greater insight into cause of alarm

Installation & Maintenance

- Pre-terminated quick connect cables with twist-lock plugs reduce installation error and enable troubleshooting flexibility
- Remote firmware upgrades can update boards on the tower as well as the ground, reducing the need for truck rolls and tower climbs
- Local mode override at each light unit speeds up troubleshooting

Regulatory Compliance

- FAA L-856, L-864, L-865 and L-810 per AC 150/5345-43J and Engineering Brief 98 (infrared)
- FAA AC 70/7460-1L tower types B3-B6, C3-C6, F3-F6 and G3-G6
- FAA AC 70/7460-1K tower types B2-B6, C2-C6, F2-F6 and G2-G6
- ICAO Annex 14 7th edition, high intensity types A and B, medium intensity types A and B and low intensity type B
- Transport Canada CAR 621 types CL-856, CL-864, CL-865 and CL-810



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Vanguard® High FTS 270

FH 372 AOL BEACON

Input Voltage	100-240 VAC, 277 VAC
Dimensions	15.75 dia. x 7.3" (400 dia. x 185.7 mm)
Weight	26.3 lbs. (11.9 kg)
Aerodynamic Wind Area	0.7 ft² (0.065 m²)

FH 270 FLASHHEAD ASSEMBLY

Input Voltage	100-277 VAC at 50/60Hz
Dimensions	20.7 x 37.1 x 12.4" (525.8 x 942.3 x 315 mm)
Weight	105.2 lbs. (47.7 kg)
Aerodynamic Wind Area	5 ft² (1.5 m²)

FH POWER CONSUMPTION*

	Mode	Wattage	Flash Rate	Flash Intensity
FH 270 L-856	Day (white)	299	40 fpm	270,000 +/- 25%
	Twilight (white)	52	40 fpm	20,000 +/- 25%
	Night (white)	38	40 fpm	2,000 +/- 25%
FH 270 L-864	Night (red)	37	20/30/40/60 fpm	2,000 +/- 25%
	Night (infrared)	40	20/30/40/60 fpm	2,000 +/- 25%
FH 372 L-865	Day (white)	66	40 fpm	20,000 +/- 25%
	Twilight (white)	66	40 fpm	20,000 +/- 25%
	Night (white)	21.5	40 fpm	2,000 +/- 25%
FH 372 L-864	Night (red)	24.2	20/30/40/60 fpm	2,000 +/- 25%
	Night (infrared)	21.5	20/30/40/60 fpm	2,000 +/- 25%

MKR 372 INTERFACE & MKR 371 LIGHTS

Interface Input Voltage	100-240 VAC, 50/60 Hz	
Interface Dimensions	16.1 x 10.5 x 4.9" (408.9 x 266.7 x 124.8 mm)	
Interface Weight	10.1 lbs (4.6 kg)	
Interface Aerodynamic Wind Area	1.08 ft² (0.1 m²)	
Interface Power Consumption	With Markers 19.6 W steady 4.2 W flashing	Without Markers 4 W steady
Marker Input Voltage	12-48 VDC (24 VDC is used)	
Marker Dimensions	9.0 x 2.75 x 2.13" (228.6 x 69.9 x 54.1 mm)	
Marker Weight	1.6 lbs (0.7 kg)	
Marker Aerodynamic Wind Area	0.16 ft² (0.05 m²)	
Marker Power Consumption (steady)	2.5 W 3.9 W IR	
Protection Rating	IP66	

FTC 270 CONTROLLER

Input Voltage	120/240 VAC at 50/60 Hz
Dimensions	23.8 x 17.5 x 8.5" (605 x 444.5 x 216.2 mm)
Weight	Base System – 25.1 lbs. (11.4 kg) Fully Loaded System – 35.5 lbs. (16.1 kg)
Protection Rating	IP66
Power Consumption	Base System – 7.2 W Fully Loaded System – 19.4 W

* Only 30 fpm for red night is applicable for FAA-certified applications filed under AC 70/7460-1L. Example tower graphic reflects an F3 tower filed under FAA AC 70/7460-1K.

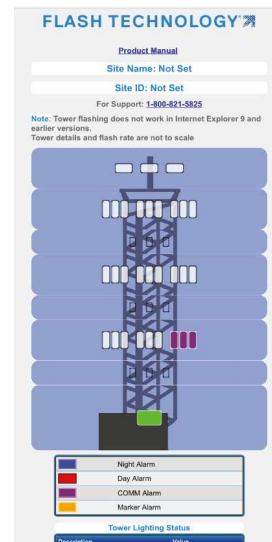
FH 372 AOL Beacon - required for tower with appurtenances greater than 40'

FH 270 Assembly - FH assembly consists of 3 LED panels, bracket and PC 270. Minimum of 3 FHs per tier to provide 360-degree visibility

PC 270 - 1 per FH 270, attached to FH using quick connect cables



MKR 372 Interface & MKR 371 Lights - 3 markers and 1 marker interface per tier



FTC 270 - system controller mounted near base of tower offers a suite of monitoring options



FLASH TECHNOLOGY

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