## Radio Controlled Solar Runway or Approach Airfield Light



















Global 2.4GHz RF Radio control Internal 2.4GHz RF module

LED light unit, with visible and near infrared light outputs

Momentary button to cycle through operational modes

DC input for cable connection (auxiliary charging
port system)

External ON/OFF switch

AV-426-861 Model



AV-426-861

High autonomy, low maintenance

Integrated and replaceable Solar Panels - Enables continuous operation

Optional NVG Mode - Illumination invisible to naked eye to support covert operations

Worldwide 2.4GHz Encrypted RF Radio Control - Secure control of all operational modes from anywhere on the airfield. Worldwide ISM use frequency

AvMesh® integrated Mesh Network - Each light is a receiver/transmitter to expand communication range

Radio Transceiver - Internal to light head, no external antenna

Modes of Operation - Programmable lighting groups, dusk-till-dawn operation, adjustable intensity, sequence flashing

## **Applications**

Runway Edge Light

Runway End Light

Runway Threshold Light

REIL

## Compliance

FAA AC/150-5345-46E Runway & Taxiway -L-861 & L-861E

FAA Engineering Brief No.67D

The AV-426 is a robust, completely self-contained LED light designed for a range of aviation applications including permanent approach, runway edge, threshold, helipad and tactical airfield lighting. Fitted with RF radio control, this fully functioning light can be controlled from the tower with no costly cabling or trenching required.

The AV-426 has non-precision IFR and VFR capability with both visible and near infrared lighting outputs. The airfield lights can be controlled anywhere in the airfield by handheld radio controller or in the air traffic control tower with virtually unlimited range using an encrypted repeating mesh network.

The AV-426 wireless RF light has an extended range through the use of the AvMesh® communication protocol. The proprietary AvMesh® protocol enables each light to transmit and receive commands, allowing the airfield to be expanded or altered at any time.

AvMesh® is self-realizing, meaning once deployed the airfield lights will undertake a period of network mapping, whereby the system automatically determines an efficient path to relay command messages through the airfield. Once the system has mapped an efficient relay of command messages, a secondary sub-network is mapped for added redundancy.

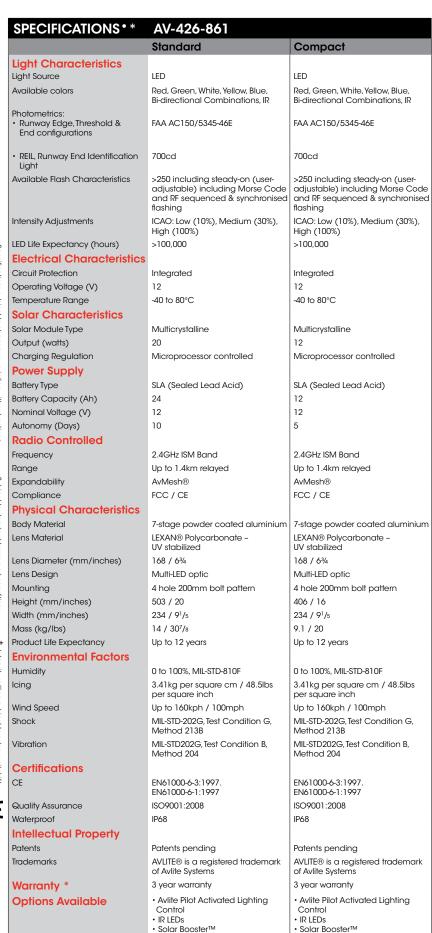
Light intensities can be set to Low, Medium or High and are able to be assigned to a 'light group'. Light groups can be controlled independently using the wireless handheld controller. Sequenced approach can also be easily set up via the serial port and controller.

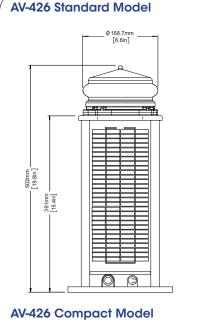
Tested to MIL-STD's for environmental exposure including shock and vibration, extreme temperature and humidity, the unit is designed to offer years of maintenance-free service and operate in some of the world's harshest environments.

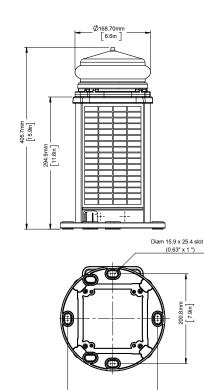
The AV-426 is also available without RF radio control.

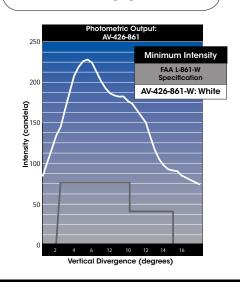












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Without RF Radio Control

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