



DESIGN

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LEAD

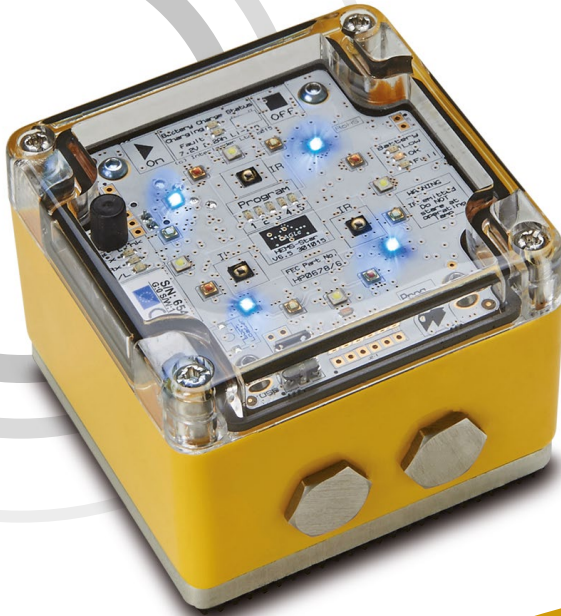


**FEC Heliports** Equipment

# HEMS-Star<sup>®</sup>

Tried and Trusted Portable Helipad  
Lighting System

## FEC Heliports Equipment



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HEMS-Star® rechargeable battery powered LED helipad lighting system designed for rapid deployment to provide safe and effective marking at designated or ad-hoc helicopter landing areas.

## HEMS-Star®

### Tried and Trusted Portable Helipad Lighting System

HEMS-Star® is the upgraded version of the popular HeliLight System. Our portable lighting systems are used by The United Nations peacekeeping mission in Mali, Scottish Ambulance Service, Midland Air Ambulance, Welsh Air Ambulance, North West Air Ambulance, National Police Air Service (NPAS).

Deployed on a global scale in the United Kingdom, the USA, Russia, Bangladesh, Kenya, Mozambique, The Philippines, Mexico and Japan.

#### Product features:

##### Extends Operating Hours

**Application** - Effective marking of helicopter landing areas that can be identified at night from distances up to 10 Miles (16km)

**Portable** - Lightweight (10.6 Kg)

**Versatile** - Red, blue, green, white visible LED's and infra-red to support pilots wearing Night Vision Goggles (NVG's)

**Multi-Function** - Programmable to flash warning, location beacon or Morse Code with automatic sunset switching

**Pilot Control** - Via FEC Remote Lighting Controller operational at a line of sight ranges in excess of 10km

**Stability** - Stable under the rotor wash of a Chinook



HEMS-Star® is rechargeable in its case via mains at 100-240V AC, vehicles at 13.5-28VDC, solar or wind power. Run Time Steady - Up to 18 hours. Run Time Flashing - Up to 108 hours. Recharging Time - fully exhausted to fully charged in 3.5 hours.



## Air to Ground Control

**HEMS-Star®** are pilot activation enabled and fitted with an 868 MHz (915 MHz in USA) UHF transceiver.

Each light or set of lights can be programmed, interrogated and controlled by wireless commands.

**HEMS-Star®** via FEC Remote Lighting controller can be switched on from the aircraft operational via VHF at a line of sight at ranges in excess of 10km.

**HEMS-Star®** can be controlled remotely via a PC/ Tablet with the USB-UHF transceiver.

**HEMS-Star®** is IP65 rated and fitted with rubber soled stainless steel base for stability. Successfully tested at the Sikorsky Development Flight Center in Florida for stability under the full rotor wash of a Chinook.

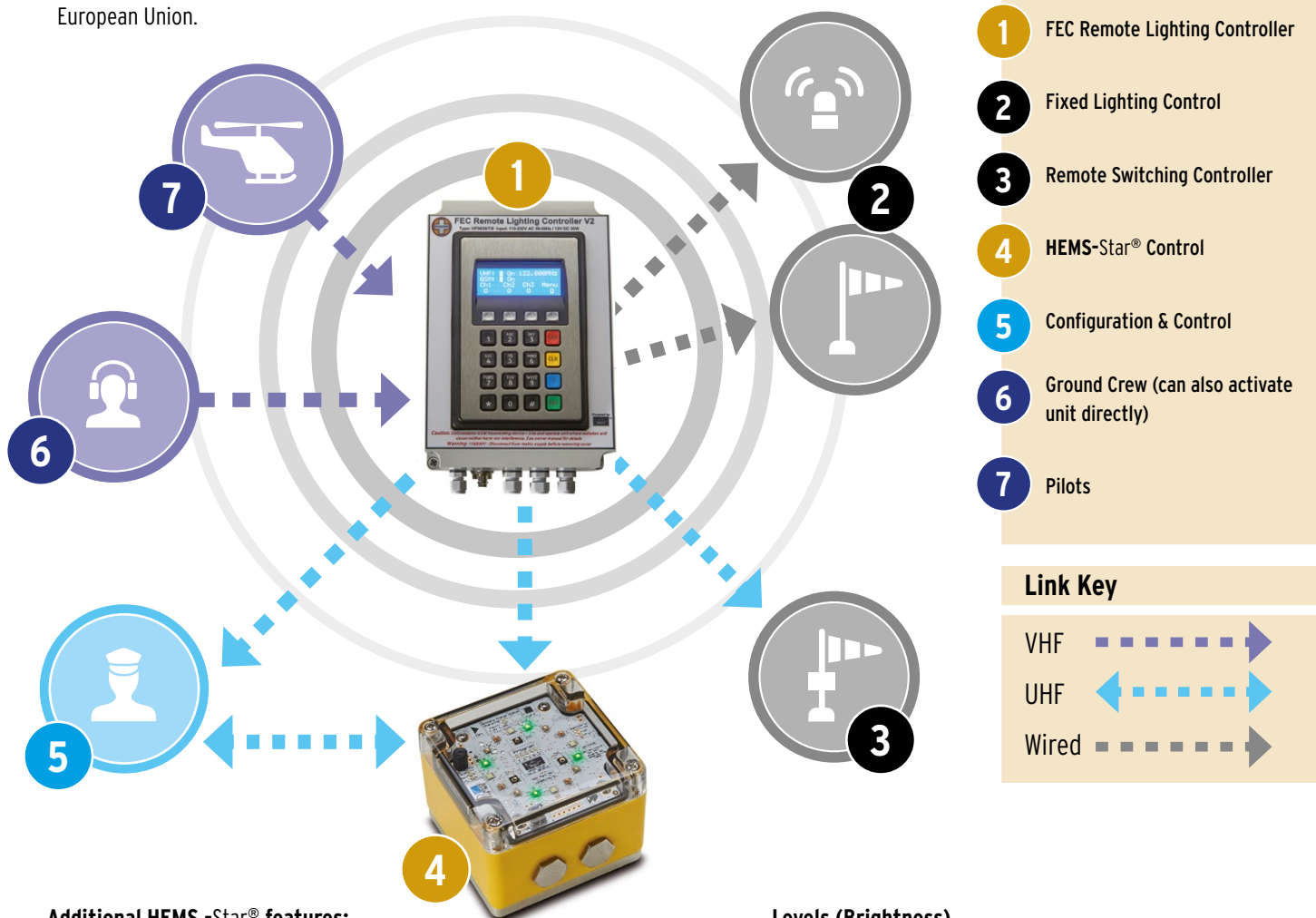
**HEMS-Star®** achieved FCC certification for operation in the US, and CE certification for the European Union.



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### Additional HEMS -Star® features:

Colours + IR (Dual Mode)

Where pilots require both visible light and infra-red lights in the pattern they can either use normal vision or augmentation through the use of Night Vision Goggles (NVG). Any colour + IR can be selected for Dual Mode.

### Levels (Brightness)

The LED output Level is set to 20%, 40%, 60%, 80% or 100% of maximum output level. In Dual mode the ratio of the IR level to the visible LED level can be set at 10%, 20%, 30%, 40% and 50% of the output level of the visible LEDs. Note that as this is a ratio, as the level of the visible LEDs is changed, the IR level tracks it at the desired ratio.

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### Automatic Switching

HEMS-Star® incorporates a light detector and can be set to switch on in normal mode (on/off action solely controlled by the magnetic or wireless switches) or in sunset mode where they will automatically come on at sunset and switch off at sunrise.

### Lead-In Lights

A group of HEMS-Star® can operate as a string of sequenced flashing lead-in lights. In this mode each HEMS-Star® is programmed with a 'Light Number', and on the receipt of a Flash command will flash at the right point in the lead-in sequence.

### Wireless Switching

Once activated HEMS-Star® can be controlled remotely by a FEC Remote Lighting Controller, a PC/Table with a USB-UHF transceiver or by a Key Fob Controller (optional extra).

### Dimensional Data:

#### Complete System in Carry Case:

Length: 340mm / Width: 424mm / Height: 173mm

Weight: 10.6Kg

#### Single Light Unit:

Length: 83mm / Width: 83mm / Height: 65mm

Weight 0.73kg

### Run Time in Steady Mode

Up to 18 hours\*

### Run Time in Flashing Mode

Up to 108 hours\*\*

### Recharging Time

Mains PSU is capable of charging 8 lights from fully exhausted to fully charged in about 3.5 hours.

\*When programmed to steady on showing white @ 20% intensity level.

\*\* When programmed to Identification Beacon Single Flash (showing white).



# HEMS-Star®

Tried and Trusted Portable  
Helipad Lighting System



## FEC Heliports Equipment

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