



DESIGN

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**FEC Heliports** Equipment

**MIL-Star**®

Portable Tactical Airfield Lighting  
System with NVG compatible IR

# FEC Heliports Equipment



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MIL-Star® rechargeable battery powered LED helipad lighting system designed for rapid deployment and use by advancing military forces in temporary and emergency situations. Provides safe and effective marking at designated or ad-hoc helicopter landing zones.

## MIL-Star®

### Portable Tactical Airfield Lighting System with NVG compatible IR

MIL-Star® is the upgraded military version of the popular HeliLight System. Our portable lighting systems are used by The United Nations peacekeeping mission in Mali, The Philippine Navy, The Bangladeshi Army, and The Mexican Navy.

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

#### Product features:

**Application** - Covert and FLIR operations. Effective marking of helicopter landing zones 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** - Wireless via VHF operational at a line of sight ranges in excess of 10km

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



MIL-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

**MIL-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.

**MIL-Star®** can be switched on from the aircraft using an in case Mobile Lighting Controller transceiver operational via VHF at line of sight ranges in excess of 10km.

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

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

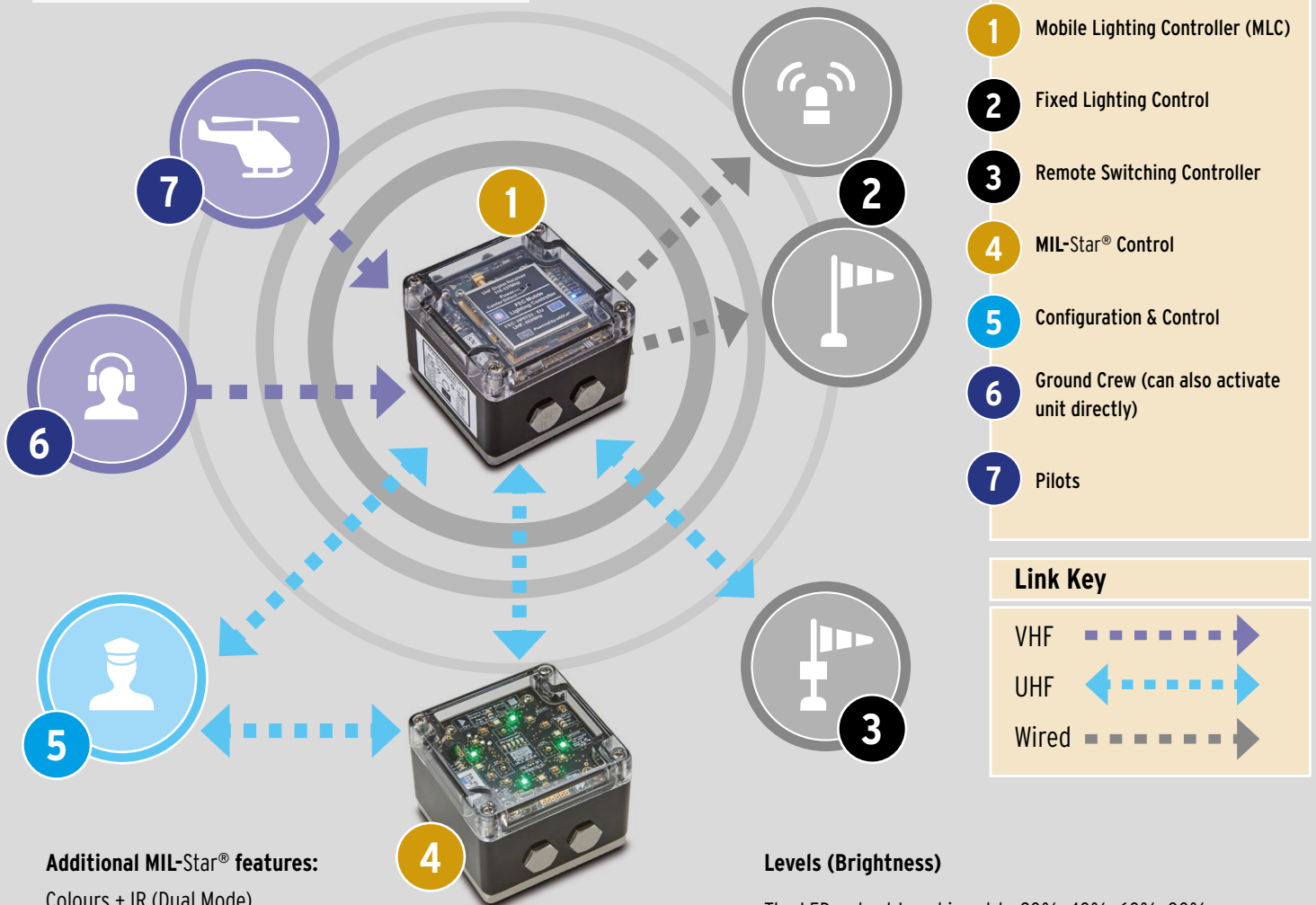
**MIL-Star®** achieved FCC certification for operation in the US, and CE certification for the European Union.



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### Diagram Key

- 1 Mobile Lighting Controller (MLC)
- 2 Fixed Lighting Control
- 3 Remote Switching Controller
- 4 MIL-Star® Control
- 5 Configuration & Control
- 6 Ground Crew (can also activate unit directly)
- 7 Pilots

### Link Key

- VHF ————→
- UHF ←———
- Wired ————→

### Additional MIL-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

MIL-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 MIL-Star® can operate as a string of sequenced flashing lead-in lights. In this mode each MIL-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 MIL-Star® can be controlled remotely by a Mobile 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).



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## FEC Helicopter Equipment

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