



# MOS<sub>LED</sub>KIT<sup>AT</sup>

Aeronautical & General  
Instruments Limited

## Minimum Operating Strip Lighting Kit *ALL TERRAIN*

- New trailer chassis design allows greater off road capability
- MOSKIT AT mission load available with or without trailer chassis
- Charge and store multiple light variants
- Universal power input
- Rapid 20 minute deployment
- Extensive run time
- Simple 'drop in' charging



**NEW** state of the art LED light engine technology





# MOSKIT LED AT

Aeronautical & General Instruments Limited

## Minimum Operating Strip Lighting Kit ALL TERRAIN

Capitalising on Metalite's extensive experience of creating portable deployable Airfield Lighting Systems, the ALL NEW MOSKIT LED *ALL TERRAIN* is a complete ground up redesign of the existing highly successful MOSKIT system. Designed in the early 1990s, MOSKIT is currently in service in many parts of the world and used extensively in many theatres of operation such as Iraq, and Afghanistan.

### VERSATILE

MOSKIT LED *AT* is designed for use with Tactical Trailer Chassis' which are in service worldwide, including UK MOD & USMC. The new trailer chassis is designed for *ALL TERRAIN* allowing towing speeds of up to 40mph off road or alternatively containerised in a Quadcon. Lighting units contained within the MOSKIT LED *AT* use state-of-the-art High Power LED technology and a proprietary optical design giving greatly enhanced optical performance, with significantly improved operating times and field reliability.

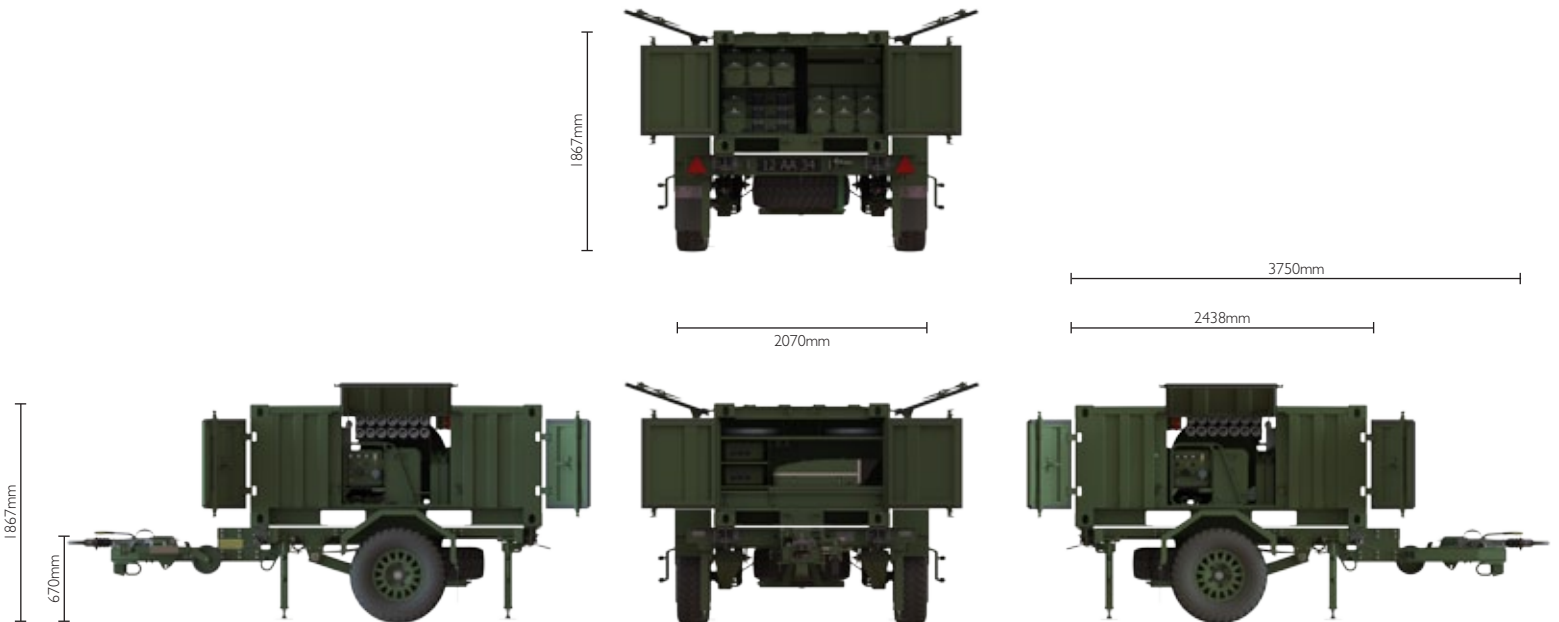
Removable mission loads allow the trailer chassis or container to carry options for additional lighting allowing expansion into a larger and/or semi-permanent airfield by using the SALKIT and CABKIT mission loads.

### TRAILER FEATURES

- New trailer chassis design allowing greater off road capability.
- Modular Design - MOSKIT LED *AT* mission load may be separated from the trailer chassis for transportation by other means if required or exchanged for a different mission kit
- Drop in charging capability
- Charging via mains, generator & renewable energy sources
- Full stand alone capability

### ALL LIGHTS HAVE THE FOLLOWING FEATURES

- State of the art high power LED technology, enabling greatly extended operational times
- High Power LED technology >60,000hrs lifespan
- Radio controlled using a 2 way MESH network with built in diagnostics and configuration
- Complies with NATO STANAG 3534
- Specified to comply with FAA, ICAO Annex 14, CASA Part 139 requirements & recommendations
- Optional battery technologies
- EMC MIL Std 461E & environmental performance to MIL Std 810F



# Specific Elements



## OREL LED

### OMNI-DIRECTIONAL RUNWAY EDGE LIGHT LED

- **Bright** – Up to 125cd of omni-directional white light output
- **Versatile** – Full range of aviation colours available including split colours, battery powered and portable, weighing only 6.2kg. May be charged by either a dedicated freestanding charger or in MOSKIT LED AT trailer
- **Light Source** – Highly efficient state-of-the-art LED Light Engine with integrated IR
- **Run Time\*** –
  - 45hrs @ 125cd (White)
  - 132hrs @ 50cd (White)
  - 172hrs @ 25cd (White)
  - 180hrs @ 9/20cd (Red/Green)
  - 317hrs @ 15cd (Green)
  - 500hrs @ 10cd (Red)
  - 500hrs @ 2cd (Blue)

## PAPI LED

### PRECISION APPROACH PATH INDICATOR LED



- **Bright** – Full daytime output to ICAO and FAA standards
  - 30,000/15000cd for FAA
  - 15,000/7500cd for ICAO
- **Versatile** – Compact, battery or generator powered, portable and no CCR required. Battery packs have integrated charger for ease and efficiency
- **Light Source** – Highly efficient state-of-the-art unique LED light engine and optical system with integrated IR
- **Run Time\*** –
  - 100% - 15hrs (FAA Output)
  - 50% - 31hrs
  - 3% - 522hrs
  - 100% - 34hrs (ICAO Output)
  - 50% - 69hrs
  - 3% - 1151hrs

## REIL LED

### RUNWAY END IDENTIFIER LIGHT LED



- **Bright** – Light output in compliance with FAA AC150/5345-51A L849 Style A-F
- **Versatile** – Battery or generator powered and portable at only 8kg. May be charged by either a dedicated freestanding charger or in MOSKIT LED AT trailer
- **Light Source** – Highly efficient state-of-the-art LED light engine with integrated IR
- **Run Time\*** – 100% - 18hrs

## RTEL LED

### RUNWAY THRESHOLD END LIGHT LED



- **Multi Operation** – Like the OREL LED, REIL LED & PAPI LED, the RTEL LED is available in manual & radio control as standard with dusk to dawn operation as an option
- **Versatile** – Battery powered and portable at only 7kg. May be charged by either a dedicated freestanding charger or in MOSKIT LED AT trailer
- **Light Source** – Highly efficient state-of-the-art LED light engine with integrated IR
- **Run Time\*** – > 300hrs

## MOSKIT LED AT TRAILER

- **Efficient** – Drop in stowage for simple deployment, recovery & charging
- **Rapid Deployment** – Trailer may be towed to deployment area and lights deployed within 20 mins as called for in STANAG 3534
- **Road Legislation** – Meets European Whole Vehicle Type Approval
- **Rugged & High Quality** – Designed to provide 10+ years service
- **Modular** – Mission load may be separated from chassis

## CHARGING FACILITIES

- **Drop in Charging** – Removes the need for cables and connections
- **Quick Charging** – 95% capacity achieved in 8 hours
- **Intelligent Charging** – Automatic compensation ensures optimum battery life when charging
- **Power** – Worldwide power input 95 – 250V AC

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## Standard MOSKIT LED AT Mission Load

18x OREL LED  
3x REIL LED/ UAL LED  
2x PAPI LED with NVG  
& Battery Packs  
2x 2Kw Diesel Generators  
1x Jerry Can  
1x Motorised Cable Drum  
2x RCU (Radio Control Unit)  
1x Portable Hilti Drill  
Junction Boxes  
Pedometer for Light Spacing  
OREL & PAPI Base Plates  
Ground Pegs

**MOSKIT LED AT** is a modular system and customer configurable, therefore alternative Mission Loads are available on request.

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Aeronautical & General  
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## **EXPERIENCE**

Metalite Aviation Lighting has extensive knowledge of supplying quality products to demanding customers since 1936. Metalite has for many years specialised in the design and manufacture of portable runway, helipad and airfield landing lights.

Aeronautical & General Instruments Limited has a long established skill base and experience in the design and manufacture of sophisticated Visual Landing Aids and LED lighting solutions such as those being installed on the two new carriers currently being built for the UK Royal Navy.