

AVIATION LIGHTING

Solar Portable Airfield Lighting System



Avlite Systems an international designer & manufacturer of complete aviation lighting systems; airfield, heli & obstruction

We believe technology improves navigation™

Solar Portable Airfield Lighting System

AV-SOLAR-PALS



Features
All-in-one portable solar airfield lighting system
Heavy-duty trailer design for transportation and storage
In-trailer charging system for all lights when in storage
Complete wireless control of airfield lighting once deployed
Other trailer configurations available on request
Customisable lighting configurations available to suit various applications
Optional Infrared (IR) Mode, illumination invisible to the naked eye to support enhanced vision and NVG operations

Applications
Emergency airfield lighting
Stand-by system in event of power failure
Military
Humanitarian aid / medivac
Resources

Compliance
Can be supplied to meet:
International Civil Aviation Organisation (ICAO) Annex 14 emergency lighting photometrics
or
FAA VFR & IFR Non Precision Medium Intensity Runway & Taxiway Lighting (MIRLs) photometrics

Avlite Systems' Solar Portable Airfield Lighting System (Solar PALS) is a convenient, fully transportable, autonomous lighting system for easy, rapid deployment supporting temporary or long term operations for both civil and defence airfields.

Once deployed, the lighting system can be controlled via a 2.4GHz encrypted mesh network capable of being operated from the tower, ground, or approaching aircraft by a Pilot Activated Lighting Controller (PALC).

Solar-powered RF controlled airfield lights

The Solar PALS trailer contains all airfield lighting and ancillary equipment required to support temporary or sustained operations. The standard configuration is suitable for a 5000ft/1500m runway and includes;

- 52 x RF Controlled Runway Edge Lights (AV425-RF)
- 12 x RF Controlled Threshold Lights (AV425-RF)
- 4 x RF Controlled Runway End Identifier Lights (AV425-RF)
- 24 x RF Controlled Taxiway Edge Lights (AV-70-RF)
- Pilot activated lighting controller (PALC)
- Handheld controller(s)
- Mounting accessories

A range of options are available such as helipad and obstruction lighting, windsock assemblies or additional fixtures for extended runways.

Military-grade trailer for transportability with integrated charging system

The military-grade trailer provides safe transportation and storage of the complete airfield lighting system.

An integrated charging system allows for all lights to be simultaneously charged by connecting the trailer to external mains power. This provides recovery charging of all lights if required after extended use, or standby charging to ensure fixtures are fully charged at all times.

The complete Solar PALS is an ideal solution to suit tactical, emergency or permanent client needs.



OVERVIEW

TRAILER COMPONENTS



TRAILER DESIGN

The Solar PALS storage and deployment trailer is specifically designed to withstand the harshest environmental conditions.

The trailer performs over a wide variety of terrains, making it incredibly reliable and durable for both civilian and military applications.

Other trailer configurations available on request.



INTEGRATED CHARGING

An integrated charging system ensures every light is fully charged in storage for immediate use. Once deployed, lights are charged by their individual solar modules to allow for autonomous operation.



TRAILER HITCHES

Avlite's trailers offer a range of customizable options including trailer hitches such as; Standard Ball mount (Civilian) and Pintle Ring also referred to as Military Hitch (Military).



TACTICAL RUN FLAT TYRES

Run-flat tyres are designed to resist the effects of deflation when punctured, and enable the vehicle to continue to be driven in all terrain and combat situations, ensuring mobility and safety to vehicles, civilians or soldiers.

AVIATION LIGHTS



RF CONTROLLED RUNWAY EDGE LIGHT

AV-425-RF

Easily deployable solar runway lights for VFR and non-precision IFR lighting with optional IR.

Typical Applications:

- Solar runway lighting
- Solar threshold lighting
- Approach/REIL (strobe & fixed)



RF CONTROLLED SOLAR TAXIWAY LIGHT

AV-72-RF

Radio controlled solar taxiway lights meet ICAO standards and are lightweight, and available with optional IR.

LIGHTING CONTROL



RADIO CONTROL & MONITORING

The handheld controller allows lights to be controlled remotely to easily change characteristics.

- Shut down or turn all light ON remotely within seconds
- 3-step intensity adjustment
- Switch from visual to IR for tactical operations
- 2.4GHz worldwide accepted frequency



OPTIONAL TABLET CONTROL

The AvMesh® USB device provides wireless control of airfield lights using a Tablet PC.

- Intuitive and easy to use platform
- Quickly set advanced features from a single screen
- Access advanced command pages & diagnostics
- Supports multiple languages

LIGHT MOUNTS



FRANGIBLE STAKE MOUNT

Easily mount and deploy lights using the stake mount

- Heavy duty aluminium components
- High-visibility aviation yellow
- 316-grade stainless steel hardware
- Complies with FAA Advisory Circular No 150/5345-46B



TILE MOUNT

Non-slip rubber tile designed for expeditionary, tactical or semi-permanent use

- Fast & easy installation of lights
- Pegs directly to the ground
- Prevents movement of the fixture

Avlite is dedicated to supporting the General Aviation community worldwide; our products are designed to provide operational flexibility and improved safety for light aircraft on public use and private airfields.

Avlite's airfield lighting solutions are easy-to-install and scalable. No infrastructure is required and there is a solution for every budget.

- **Solar powered green technology**
- **Modular design, scale when ready**
 - **Easy to install and maintain**
- **Various control options to match the owner's operational needs**



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