

Temporary lighting for a wide range of airfield operations

Airfields are often few and far between in disaster areas, war zones and developing countries. When disaster strikes or when urgent action is needed, temporary airfields make it possible for airplanes and helicopters to land and take off and support rehabilitation and rescue efforts where it is needed, quickly and safely. Modern airports might also sometimes require temporary landing areas.

In such instances, portable airfield ground lighting is the only viable and cost efficient solution.



PORTABLE AIRFIELD LIGHTING

Flexible, temporary and easy-to-deploy AGL for airstrips and helipads

- Portable non wired lights can be deployed easily and quickly with generators as its own power source and above-ground wiring
- Compliant with all current aviation standards
- Reusable time and again, with minimum overhead costs
- Will leave virtually no environmental footprint
- Complete system can be deployed on any suitable surface to achieve initial operational capability in a matter of hours
- Easy to deploy and use, with minimum skill level with low personnel requirements
- With no heavy investments in infrastructure works, portable lighting is your most cost-efficient solution for temporary operations
- As reliable as a conventional AGL system, it is upwardly compatible with emerging technologies. Portable lighting is available with a full range of accessories, and is supported by ADB's service standards that ensure quick availability of spare parts and through life support.

Versatile and suited for all kind of operations

Portable lighting is multi-functional and can be used for military, humanitarian, commercial applications or even to support temporary AGL needs. Ideal for large-scale, non-permanent installations of up to 4 km runways and 6 km taxiways, portable lighting is rugged, reliable and proven in scenarios ranging from short bush strips to fully operational configurations.

Charging is fast and is completed within 8 hours! To charge, simply drop the portable airfield lights in the trailer's charging stations and connect the trailer to the grid.

- Humanitarian and disaster relief: Portable lighting can be used to provide minimum operating capability to support immediate and emergency relief while work is on to deliver an ICAO-compliant solution to allow wide-body aircrafts to deliver large-scale relief supplies
- Commercial exploration: Whether for oil, gas or mineral exploration or recovery, portable lighting is the perfect solution for temporary airfields and landing strips during construction of a more permanent infrastructure
- Military intervention: Originally designed to meet the needs of military clients worldwide, portable lighting is built to the requirements of STANAG 3534 and ICAO Annex 14 for semi-permanent full-scale support operations
- Airport upgrading, repair and fall back solution: It can be rapidly deployed at operating airports where upgrade or repair is underway to supplement the existing infrastructure and mark construction areas and temporary hazards



PORTABLE AIRFIELD LIGHTING

A complete package from ADB

ADB Group offers a portfolio of portable airfield lighting, trailer kit and accessories. We can deliver portable lighting systems either as a standard product line or in support of a high-priority, short lead-time operation. We also offer all the necessary training and replacement parts.

PL5 II RC: Omni-directional portable airfield light

This battery powered, rechargeable light is equipped with a mode switch for **manual** or **remote control** operation. It is available as a single unit or as a kit of five to 18 lights with complete charger stations or as a **trailer kit** with 72 lights to provide lighting for a complete runway.

Easy to use, the PL5 only needs to be placed on its initial position and switched on or in the radio mode. When empty, the light needs to be replaced and put into the trailer kit for recharge. Air-to-ground remote control available through a separate controller, and as an add-on feature. It is achieved when the pilot presses his transmit button to send an encrypted signal to the PL5 lights. For ground-to-ground remote control is easily achieved with a hand-held transmitter, by mobile phone or tablet.



Features

- Color impregnated, impact resistant, glass fiber reinforced plastic (GRP) enclosure
- External hardware is corrosion-resistant/ made of stainless steel and anodized marine grade aluminum
- Light source: 5 watt LED, emitting in a 360° in Azimuth
- Light intensity: >50 candela , can be specified by the customer and usually three different modes for the desired glass color
- Borosilicate lenses available in: Red, Blue, Green, Clear, Yellow, or Split Colour
- Lenses are interchangeable when different colour is needed, and the lens lock ring can be opened in order to change the lens
- Handlebar for easy lifting
- Power Indicator with three-color mode allows easy check for battery status
- Three-mode button with ON for manual operation, TEST for testing/ radio control operation and OFF for switching the light off



- Power supply: One maintenance-free 12 Volt 12 or 14 Ah SLAB, which gives more than 100 hours (downgraded intensity) of continuous operation before recharging is required
- Standard 65* hours in ICAO mode, 150 hours in FAA mode and 125 hours in flashing mode (dependable of ambient temperature, battery lifetime, intensity setting etc.)
- Tests: jet blast >400 km/h (>250 mph), impact, battery endurance, light output, climatic conditions, electromagnetic compatibility, drop tests at 0.7-1.0 and 2.0 meter height and radio frequency

*White LED, Measured with optional 14 Ah SLAB

Compliance & Standards

ICAO: Annex 14 Vol. I and ICAO Annex 14 Vol II Heliports

FAA: AC150/5345-50

UK: CAA CAP 168

NATO: Stanag 3534 and 3619

Dimensions and Performance

Length	160 mm
Width	160 mm
Height	230 mm
Weight	6.1 Kgs
Colour	Aviation Yellow RAL 1023 or NATO Green RAL 6031
Control	Manual and wireless
Standard frequency	434.78250 Mhz
RC Range	2-5 Km, from transmitter to the closest light
Total range (MESH system)	Endless
Battery	One 12 V, 12 Ah SLAB
Battery protection	Low voltage cut-off
Battery level	3 LED indication
Recharging	By external charger

Trailer Kit: Road-going trailer for rapid AGL deployment

We offer a trailer kit for easy deployment and safe storage of the portable airfield lights. The trailer kit consists of a road going twin axle heavy duty trailer with spare wheel, tools, and 72 portable airfield light units with built-in intelligent charging stations. A 25-meter cable complete with Euro plug and sockets connect the chargers of the trailer kit to the grid.

Charging made fast and easy

Charging is fast and is completed within 8 hours! To charge, simply drop the portable airfield lights in the trailer's charging stations and connect the trailer to the grid. There's no need to connect the portable lights to cables or sockets. Each portable light unit is recharged independently, by built in intelligent chargers. When the batteries are fully charged, you don't have to disconnect the chargers from the grid. The intelligent chargers will maintain the condition and level of the batteries and drip charge when the battery level requires so.

Technical Data

Length	4 meters
Width	1.56 meters
Height	1.20 meters
Speed	According EU country regulations (The Netherlands 90 Km/h)
Empty weight	405 Kgs
Max. allowed weight	2000 Kgs
Complete trailer kit	1000 Kgs
Standard colour of the trailer for civil use	Aviation Yellow RAL 1023 or NATO Green RAL 6031. Can be powder coated to customer specification on request.
Total range (MESH system)	Endless
Option	DIN eye towing coupling on request available

PL5: Accessories

- Borosilicate lenses available in Red, Blue, Green, Clear, Yellow, or Split Colour
- Maintenance-free 12 Volt Sealed lead-Acid Battery available in 12 Ah or 14 Ah
- Remote Control Transmitter; for use with tablet or mobile phone with software
- Stand Alone Remote Controller
- Charger Station 5 or 18
- Complete Trailer Kit with 72 PL5 lights and chargers and stand alone remote controller

Experience in portable lighting

ADB has past experience in delivering portable lighting and related systems. We have worked with various military and aid organizations in the past including the US Air Force and the UK's Royal Air Force, and various United Nations missions.

References

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| <ul style="list-style-type: none"> • Luanda, Angola • Linz, Austria • Brussels Airport, Belgium • Billund Airport, Denmark • Aix en Provence, France, • Schiphol, Netherlands • Equatorial Guinea | <h4>United Nations Missions</h4> <ul style="list-style-type: none"> • Chad • Congo • Brindisi, Italy • Mali • Darfour, Sudan • South Soudan |
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