For Quick View Mode, look for the Thumbnail Icon on the top of your Screen (on the browser above this page)

Aviation Lighting

On Land Airfields & Airstrips - At *Sea* Helipads & Helidecks

PART OF SECTION 3

Section 03
AUDIBLE & VISUAL WARNING DEVICES
AVIATION LIGHTING
WIRE MARKING, CABLING SOLUTIONS
ENCLOSURES

The Aviation Lighting *Online Catalogue* is Extracted from Mimic Components Main Catalogue. It forms Part of Section 3: (Audible & Visual Warning Devices) and includes New Aviation Products.

- Aviation Electrical & Solar Obstruction Lights
- Aviation Landing Lights
- Runway Threshold Lights
- Helipad Take-off & Approach Lights
- Explosion Proof Obstruction Lights
- Marine / Helideck Aviation Lighting
- Aviation Accessories

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa
TEL: (011) 689-5700
FAX: (011) 493-8821

AVIATION INDEX

OBSTRUCTION LIGHTS

WHERE OBSTACLES HEIGHTS ARE UNDER OR OVER AND BETWEEN 45 TO 150 METERS HIGH, ON HIGH-RISE BUILDINGS, HIGH CHIMNEYS, TOWERS, STACKS, CRANES ETC.

HELIPADS

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa
TEL: (011) 689-5700 FAX: (011) 493-8821

AVIATION INDEX

MARINE
HELIPORTS / HELIDECKS

AIRFIELDS / AIRSTRIPS

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

AVIATION INDEX

WARNING LIGHTS

ACCESSORIES

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

AEROLED AVIATION LIGHTING

AHLG-32-1
AHLG-32-2

AEROLED INSET AVIATION LANDING LIGHTS

These are brand new LED powered helipad lights in which the LED's are totally encapsulated. They give off a bright white, red or green light which is highly visible and which needs absolutely no maintenance and 5 years of continuous operation without any maintenance at all. Encapsulation of the LED means that the water cannot ingress into the lamp-holder as happens with conventional helipad lights which need continuous lamp changing and maintenance as water ingresses into the lamp holder.

A TRUE FIT AND FORGET SOLUTION.
The use of latest materials and technology enables these units to be considerably more economical than the conventional filament-based helipad lights. They also have a built-in individual brightness regulation so there is no need for the expensive current conformers that high voltage systems use. Due to the high efficiency of LED's low current requirements, Aeroleds can be operated on low voltages making the installation cable extremely economical and safe.
These Aeroled-helipads are in a class of their own. Very seldom one finds a superior product at a better price. They are totally non-corrosive making them ideal for marine applications and a special marine version is available. The normal version is manufactured from composite material, galvanized bolts and UV resistance so is thus resistant to corrosion. For not much extra, the marine version is available for deck-mounting. This utilizes stainless steel bolts and compositematerials as well as a special mounting gasket.

AERL-25

AEROLED ELEVATED LIGHTS

These elevated lights are used for both helicopter landing zone, edge lights or can be used on light aircraft runways as edge lights to indicate taking off and landing areas at night or in the daytime with poor visibility.

The lights are in accordance with
- ICAO and FAA regulations and
- CAP437 (offshore helipads)

- Taxiways: Blue (AERL-25-T-B)
- Runway Edge: White (AERL-25-R-W)
- Runway Threshold: Red and Green (AERL-25-TH-RG)
- Helipad Perimeter: Green or White (AERL-25-P-G)(AERL-25-P-W)
- Helipad Approach: Amber (AERL-25-A-A)

- Model: AERL-25
- Light intensity: 25cd to 230cd
- Light source: LED
- Service life of LED: 100, 000hours
- Signal mode: Steady-burning way
- Operating voltage: AC220V, 50/60 Hz(Option voltage eg. (AC120V, DC48V)
- Emitting color: Green or yellow
- Power consumption: 10W
- Overall size(mm): 136 by 136 by 280
- Installation size(mm): 93 by 93 by 12
- Weight: 1.4kg

AEROLED (Runway Threshold Light)

These are stalk mounted LED units mounted on frangible couplings (which break off if struck). They are red on the ones side and green on the other with green being at the appropriate angle for landing.

AEROLED (Taxiway Light)

This Product is used in taxiway at night or in the daytime with poor visibility as well as sed for shining blue light to accurately indicate the threshold of the taxiway. Used where taxiway indication is required in grassed areas and the stalk is required to raise the light to a visible level. Available in either White or Blue.

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa
TEL: (011) 689-5700
FAX: (011) 493-8821

AEROLED AVIATION LIGHTING

AEROLED (Helipad Perimeter Light)

This product is used on Helipads for night or daytime with poor visibility and depending on the type of landing zone will shine either green or white to accurately indicate the perimeter of the landing zone. If a complete Helipad Landing Zone lighting system is ordered, then all engineering and installation drawings are provided, provided full specs are supplied. Due to the lower voltage requirements no special skills are required.

AEROLED (Helipad Approach Light)

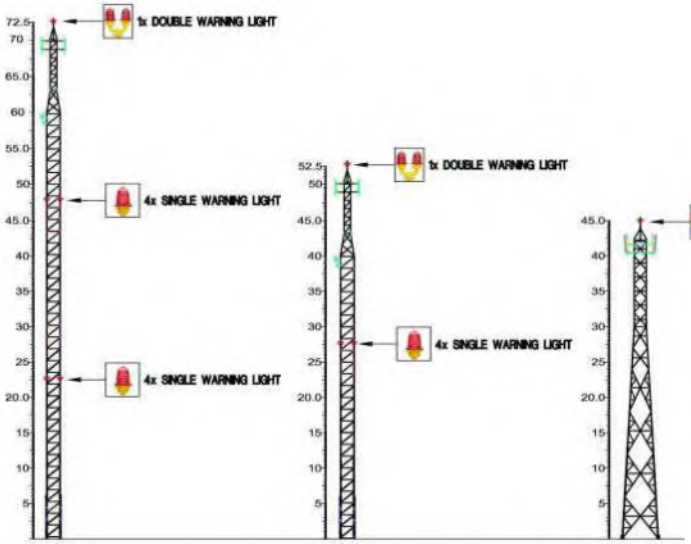
This product is used on Helipads for night or daytime with poor visibility and depending on the type of landing zone will shine Amber to accurately indicate the approach direction of the landing zone. If a complete Helipad Landing Zone lighting system is ordered, then all engineering and installation drawings are provided, provided full specs are supplied. Due to the lower voltage requirements no special skills are required.

AEROLED

AEROLED (Helipad Perimeter Light)

- PC material with good impact protection strength, thermal stability, high transmittance.
- Bird spike against bird drop.
- International-advanced cold LED with low power consumption, high brightness and service life of light source reaching 100000hours.
- LED based on obstruction light last 15 times longer than traditional light source, incandescent light.
- About 96% less power than 116W incandescent light.
- Major Maintenance Cost Saving, Surge protection device inside light.
- Strong corrosion resistance, Shock and Vibrations protection and UV protection.
- Dawn to Dusk operating: Built-in photocell can let light work automatically at night, closed during the day.
- Free maintenance and 3/4 inch or 1inch installation size being suitable for flagpole or tower installation way.
- There is one switch converting between Flashing mode and Steady burning mode.
- Five Years Warranty Period.
- Light intensity: ≥32.5cd
- Working mode: Flashing (20times/minute as standard) or Steady adjustable
- Working way of two lights:
  Flashing Main & Stand- by
  Steady- burning Main & Stand- by
  Steady- burning at the same time
  Flashing at the same time
- Service life of LED: ≥100,000hours
- Operating voltage: AC220V (option voltage, eg. AC120V, AC110V, DC48V)
- Overall size(mm):258 by 136 by 320
- Installation size:3/4inches or 1 inches
- Material: Housing is PC Base: die casting aluminum
- Weight:2Kg
- Emitting color: Aviation red
- Ambient temperature:-40℃~+70℃
- Wind load: 80m/s
- Protection standard: Ip65.

Type A LED



These Lights can be used alone on the top of the High-rise, Building, High Chimney, marking towers (Telecom, GSM, Microwave & TV) , High Pole, Tower Crane, Wind Turbine, etc whose height is lower than 45m. When obstacle object is higher than 45m, this series of products can be used with Medium-intensity or high-intensity obstruction light to potentially hazardous obstructions to air traffic with a steady or flashing red safety light.

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa
TEL: (011) 689-5700
FAX: (011) 493-8821

AEROLED AVIATION LIGHTING

AEROLED (CONCRETE EMBEDDING CONTAINER)

DIE-CAST INSET AVIATION LANDING LIGHTS

Our AEROLED mounting container is a robust steel container for a easy and manageable way ofmounting our Aviation Lighting with the ability to have access to wiring connections and future maintenance on both the light and the wiring.Once bolted onto a steel mounting plate with a thick rubber gasket the completed unit is water tight. Made from 3mm steel and then hot-dipped galvanised these finished units are rust and corrosion resistant making them suitable for coastal areas as well as extreme heat and moisture stricken areas.

Discuss with our consultant on positioning, drainage & installation at planning stage.

AEROLED-WINDSOCK (External Illumination)

We offer several types of illuminated wind cone as the requirements vary depending on the application, mounting requirement and the location. Even the colour of the actual sock should be selected according to the background colour. This basic sheet gives type 1 which is mounted in the ground. We also have brackets for the sides of buildings, mounting plates for mounting on concrete slab etc. The windsock can be illuminated internally or externally with the external illumination being lower cost and also easier for maintenance, whereas the internal illumination requires slip-rings.

All wind cone assemblies should have an obstruction light and must be mounted well clear of landing and departure zones. (request detail on approach and departure zones for your application) It is also possible to have types with frangible poles which break off if hit by the helicopter. These are usually used where the wind cone needs to be mounted fairly close to the windsock and could present a danger to flight operations. Generally every attempt should be made to mount the windsock well clear of all flight operation, as even a frangible coupling type can present a serious obstacle.

AEROLED-LIGHTING CONTROL UNIT

- Lighting protection.
- Light dimming switch.
- Radio dimming and control (only if requested).
- Test switch (Over-ride).
- 220v to 24v transformer.
- Individual control switches for each circuit (Perimeter, flood and obstruction lights).
- Main Power supply cut-off switch.

Control unit box Specs.

- External adjustable mounting bracket, horizontal, vertical or 45° angles.
- Internal Stainless Steel hinges.
- Mounting brackets are Stainless Steel.
- DIN rail mount with M6 bolt and nut.
- The height of the DIN rail is easily adjustable.
- Removable inner door.
- Material - SMC.
- IP 66.

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa
TEL: (011) 689-5700
FAX: (011) 493-8821

AEROLED AVIATION LIGHTING

AEROLED (Die-Cast Inset Lights)

DIE-CAST INSET AVIATION LANDING LIGHTS

These give off a bright white, red or green light which are highly visible and which needs absolutely no maintenance and 5 years of continuous operation without any maintenance at all. Installation of these lights are easier due the face that they feature all-in-one design which means that the water cannot ingress into the lamp-holder which might happen with conventional helipad lights which need continuous lamp changing and maintenance as water ingresses into the lamp holder.

- Light intensity: ≥100cd
- Light source: Ultra high intensity LED
- Base material: Aluminum
- Service life of LED: 100000hours
- Signal mode: Steady-burning
- Operating voltage: AC220V, 50/60 Hz (Option voltage. AC120V, DC48V)
- Emitting color: Blue, Green, White, Red and Amber
- Power consumption: 20W
- Overall size: 194mm x 138mm
- Installation size: 199mm x 146mm
- Ambient temperature: -55℃~+70℃
- Weight: 4.9kg
- Protection standard: Ip68

AEROLED (Solar Powered)

SOLAR POWERED PORTABLE AIRFIELD & HELIPAD LIGHTS

- International advanced solar panel reaching at least 10 years service life.
- Easy installation and relocation: no specialized work crew required, limited air traffic disruption, and lights are immediately operational.
- Comprehensive protection in voltage short, over-voltage, floating, charge and temperature.
- Built-in Solar Panel.
- Self-contained and low maintenance: all components are incorporated within a compact, stand-alone unit.
- Strong corrosion resistance, Rain and Snow, Shock and Vibrations protection and UV protection.
- International-advanced cold LED with low power consumption, high brightness and service life of light source reaching 100000hours.
- Clean, renewable, green and reliable energy source.
- Dusk-to-dawn operation: Built-in photocell inside light can let light work at night and close during the day automatically.
- At least 5 days autonomy.
- Recyclable batteries with the lightest environmental.

- Optional wireless ON/OFF control provides on-demand operation from up to 3km away. Antenna is inside light base.
- Push button interface for local ON/OFF control. Toggle switch interface for steady-burning/flashing working mode.
- Optional Battery Charge port: 100~240VAC
- Optional NVG - compatible infrared (IR) LEDs.

Emergency operations, Helipads, Touchdown and Lift- off area (TLOF), Final Approach andTake- off area (FATO), Taxiway lighting, Runway edge lighting – (ICAO Annex 14), Portable or expedited airfield lighting, Threshold lighting and obstruction lighting.

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa
TEL: (011) 689-5700
FAX: (011) 493-8821

Bi-Directional Heliport Lights — AL-HP/C

AL-HP-C Bi-Directional Heliport Lights

Heliport Inset Bi-directional lights are installed on sites where aviation lights are frequently knocked down by aircraft or maintenance vehicles. Areas of use include Centre Line Lighting, Runway Threshold/End Lightingand Runway Edge Lighting. The emitting colour is green/green or yellow/red or yellow/green or red/green.

Compliance
ICAO Annex 14 Volumeⅱ Heliports 5.3.and FA AAC 150/5390-2B Heliport Design Guide.

Electrical Features
LED as light source saving power consumption and maintenance, 95% less power than equivalent incandescent light.
Power supply available in AC(110-240VAC), DC48V.

Physical Features
Pressure resistance lens allows vehicles to travel on the lights.
Die-casting aluminium covered by a black hard anodizing layer with good load bearing and corrosion protection.
IP68 waterproof ensures operational lights after partial embedding installation. Emitting lights in two opposite sides.

Optional Extra's
Infrared LED for pilot using NVG (Night Vision Goggles).
ON/OFF power supply Controller Unit.
VHF pilot to ground remote control Unit.
Marine treated.

Applications
Helipad/Heliport, Runway,
Heliport, Taxiway

Low Intensity Obstruction Light — QEAL1 Explosion Proof Light

QEAL1 Explosion Proof Low Intensity LED Aviation Obstruction Light

Install in hazardous areas on a surface that is more than 60m from the water surface or on land such as towers and smokestacks.

Specification
Low Intensity B type Explosion Proof Aviation Obstruction light.
Features high visibility from a distance with the direct LED light distribution system.
Cost savings enabled by using a long lasting LED light source which eliminates the need for maintainence.
Aluminium housing provides excellent durability.
Terminals located inside the housing for wiring.

Compliance
ICAO standard: Low Intensity B Type

Features
Light source: High Intensity light emitting diodes (LED)
Light colour: Red
Light finction: Steady
Rated Voltage: DC12V, DC14V, AC110V-AC220V
Power consumption: 30W
Standard housing colour: Red
Cable entry" 1/2" NPT
Materials: Lens-Tempered Glass, Housing-AL, Lens Ring-STS316L
Protection cage: STS316L, Heat Sink:AL
Protection rating:EX IIC T4, IP66
Operation Temp:-40ºC ≤ Tamb ≤ +60º

Certificates:
Kcs, Luminous Intensity: 50cd±25%

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

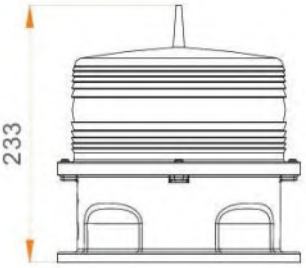
AL-LS-L Single Solar Powered LED Obstruction Low Intensity Light

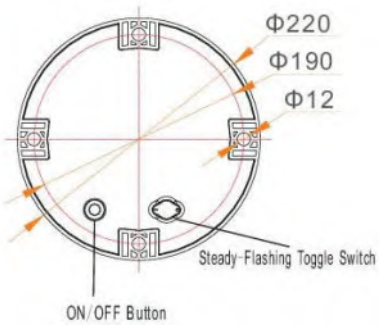
Advantages

- International advanced solar panel reaching at least 10 years' service life.
- Easy installation and relocation: no specialized work crew required, limited air traffic disruption and lights are immediately operational.Comprehensive protection in voltage short, over-voltage, floating, charge and temperature.
- Built-in Solar Panel.
- Self-contained and low maintenance: all components are incorporated within a compact,stand-alone unit.Strong corrosion resistance, Rain and Snow, Shock and Vibrations protection and UV protection.
- International-advanced cold LED with low power consumption, high brightness and service life of light source reaching 100000hours.Clean, renewable, green and reliable energy source.
- Dusk-to-dawn operation.
- At least 5 days autonomy without sun and 20 day on flashing mode.

Solar Powered Portable Airfield Light

- Light intensity: ≥32cd
- Working mode: Steady-burning mode or Flash modeLight source: LED,100,000hours service life
- Solar panel: Monocrystalline siliconMaterial Housing: PolycarbonateBase: Die cast Aluminium
- Autonomy: At least 5 days (Option 20days)Battery: lithium ion battery, 3. 7V 10AH
- Overall Size: Φ220 by 233Installation Size: Φ190 by M10
- Weight: 2Kg
- Emitting Colour: Red, green, white, yellow/ white, yellow/white, Red/white (Customized)
- Ambient Temperature: -40℃~+60℃
- Wind load: 80m/s
- Protection Standard: IP68
- Optional: charging port, remote control, NVG compatible infra-red (IR) LED's





SOLAR POLARIS AIRFIELD LIGHT — L4GA

L4GA SOLAR POLARIS AIRFIELD LIGHT

Solar Polaris Airfield Lighting
The L4GA Polaris airfield light is typically used for non-precision airports, during airport construction and for helipads.It is available as a High-Intensity Solar Airfield light and a Medium-and-Low Intensity Solar Airfield light with multiple model types.

General Applications
Bidirectional optics designed for permanent usage on Precision Approach Runways (Cat I, II, III) in regions without access to electricity.

Applications to High-Intensity Solar Airfield lighting
Solar Runway Edge lights
Solar Threshold lights
Solar Runway End lights

Applications to Medium-and-Low Intensity Solar Airfield lighting
Solar Approach light
Solar Runway Threshold Identification light
Solar Runway Edge light
Solar Runway Threshold End light
Solar Taxiway Edge light
Solar Obstruction light Type A

Basic Model type Features
5-level protection against system failure
Suitable for IFR runways (Cat I, II, III)
Controlled via wireless mesh type network
Hybrid version available solar + 230 VAC / 6.6A

OBSTRUCTION LIGHT HIGH INTENSITY — AL-HI/A

AL-HI/A High Intensity Type A Aviation Obstruction Light.

High-intensity Type A Aviation Obstruction Light.
Flashing white color 24hours.
Designed for marking tops of obstacle that exceeds150 meters in height.
Ultra-high intensity CREE LED is used for the light source ensuring long life light experience and good performance.

Compliance
ICAO Annex 14 Volume 1,Sixth edition, 2013 ,table 6.3, High Intensity Type A Obstruction Light.
FAAL-856

Features Electrical & Physical
CREE ultra-high intensity LED as light source saving power consumption and maintenance than incandescent light or halogen lamp.
Power supply available in DC(48V)or AC(110V, 240V).
Unique design and UV protected polycarbonate lens for converging light.
UV protection Powder coated bright yellow colour base ensures better visibility.
Base material is powder coated die-casting aluminum for strong corrosion resistance. Shock and Vibration protection.
Special valve installed beside the base to ensure watertight and avoid high light destroying temperatures.
Built-in photocell for day/twilight/night operation.
Surge and lightning protection.

Optional Extra's - On request including mounting customised bracket.

Application: High intensity for top of High-rise Buildings, High Chimneys, Marking Towers, (Telcom, GSM, Microwave & TV), High Pole, Tower Crane, Wind Turbine, etc. when obstacle height is more than 150meters.

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

SOLAR LED LOW INTENSITY OBSTRUCTION LIGHT

AL-LS-A1

AL-LS-A1 SOLAR LED LOW INTENSITY OBSTRUCTION LIGHT

AL-LS-A1 is a self-contained obstruction light consisting of a solar panel, battery and lamp. There is no need for external power input. The vertical degree of the solar panel is adjustable to ensure maximum sunlight in different areas. It is designed for marking the tops of obstacles that do not exceed 45meters in height.

Compliance
ICAO Annex 14Volume 1,Seventh edition, 2016,table6-1,6-2 Low Intensity Type A/B IE Obstruction Light and FAAL-810.

Features Electrical & Physical
3 high power CREE LED ensures LED keeps bright while in use. With bird needle to prevent bird drop. UV & vibration protected polycatbonate lens for converging light. Powder coated die casting aluminum base, light fastness, snow and rain resistance. Battery box made of corrosion resistance 304 stainless steel. Self-contained without external power supply. No wiring required. Solar panel as sensor(Photodiode) for day &night working mode(dusk to dawn mode). ON/OFF button under base for easy control. Steady/flashing (20fpm)adjustable switch. Solar panel angel is adjustable. Surge & Lightning protection.

Optional Extra's
Infrared LED for pilot using NVG (Night Vision Goggles).
Stainless Steel needle strips for Solar Panel.

Applications
This low-intensity specialised light is used on the top of High Chimney, Telecommunicationtower, Wind Turbine where there is no cable power supply and other facilities which havehigh requirements on lightning protection. Used alone on the top of obstacles whose height is less than 45meters.

Light Characteristics
Light Source: 3 High intensity CREE LED
Emitting Colour: Red Intensity(cd): >32.5cd Horizontal Output(degrees): 360
Vertical Divergence(degrees): 10
Flash Characteristics: Steady/Flashing(20fpm)adjustable
Operation Mode: Dusk-to-Dawn operation
LED Life Experience(hours): >100,000

SOLAR LOW INTENSITY DOUBLE OBSTRUCTION LIGHT

AL-LS-A2

AL-LS-A2 SOLAR LOW INTENSITY DOUBLE OBSTRUCTION LIGHT

This type of LED Low-intensity Double Solar Aviation Obstruction light encompasses a high efficient mono crystalline silicon solar panel, and solar lithium ion battery as power supply. There are two lamps on the battery box: one is a main lamp, the other is standby. When main lamp fails, the standby light turns on automatically. 3/4inch thread hole under base suitable for pole mounting.

Compliance
ICAO Annex 14 Volume 1,Seventh edition, 2016, table 6.3 Low Intensity Type A/B/E Obstruction Light and FAAL-810.

Features Electrical and Physical
LED as light source, life experience>100,000hours. Bird needle to prevent bird drop. UV & vibrations protected polycarbonate lens for converging light. Stainless steel 304 base, light fastness, snow and rain resistant. Mono crystalline silicon solar panel, conversion efficiency is better than polycrystalline silicon. Solar panel angel is adjustable. Solar panel as photocell(Photodiode) for day & night working mode(dusk to dawn mode). ON/OFF button for easy control. Main-standby mode.

Optional Extra's
Infrared LED for pilot using NVG(Night Vision Goggles). GPS sync flashing. External battery charger.

Application
Specialized use on top of High Chimney, Telecommunication tower, Wind Turbine where there is no cable power supply and facilities which have high requirements on lightning protection. Used alone on top of obstacles where height is less than 45meters.

Light Characteristics
Light Source:LED
Emitting Colour:Red
Intensity(cd):>32.5cd
HorizontalOutput(degrees):360
VerticalDivergence(degrees):>10
Flash Characteristics:Steady/20FPM adjustable
Operation Mode: Main-standby,Dusk-to-Dawn operation
LED Life Experience(hours):>100,000

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

SOLAR OBSTRUCTION LIGHT MEDIUM-INTENSITY AL-MS/A

AL-MS/A SOLAR OBSTRUCTION LIGHT MEDIUM-INTENSITY TYPE A

Medium-intensity Type A Solar Obstruction Light AL-MS/A

This Medium-intensity Type A Aviation Obstruction Light flashing white color, designed for marking the tops of obstacles whose height is between 105 to 150meters. Side open Stainless steel 304 material of battery box can be easily opened for maintenance convenience.

Compliance
ICAO Annex 14 Volume 1, Sixth edition, 2013, table 6.3 Medium Intensity Type A Obstruction Light and FAAL-865.

Features Electrical and Physical
Ultra-high intensity CREE LED light source saving power consumption and maintenance. UV & vibration protected polycarbonate lens for converging light. Self-contained without external power supply. No wiring required. Side open stainless steel battery box. Battery VRLA (Value-Regulated Lead Acid battery). Solar panel as photocell for day & night working mode(dusk to dawn mode). ON/OFF button interface.
Optional Extra's
GPS Synchronization. GSM cellphone monitoring. Infrared LED for pilot using NVG (Night Vision Goggles). Remote control ON/OFF.

Light Characteristics
Light Source: Ultra high intensity CREE LED
Emitting Color:White
Intensity (cd):20000cd±25%(Daytime), 2000cd±25%(Night)
Horizontal Output (degrees):360
Vertical Divergence(degrees):>3
Flash Characteristics:Flashing20-60FPM
Operation Mode:24hours operation
LED Life Experience(hours):>100,000

SOLAR OBSTRUCTION LIGHT MEDIUM-INTENSITY TYPE B AL-MS/B1

AL-MS/B1 SOLAR OBSTRUCTION LIGHT MEDIUM-INTENSITY TYPE B

This Medium-intensity Type B Aviation Obstruction Light flashing red colour, designed for marking top of obstacle which height is between 45 to 105meters. CREE Ultra high intensity LED is used as light source which make performance better. Four (4)solar panels are integrated into the assembly and mounted to collect sunlight at all angles. GPS device is optional for AH MS/B, it makes different lights flash synchronously.

Compliance
ICAO Annex 14 Volume 1, Sixth edition, 2013, table 6.3 Medium Intensity Type B Obstruction Light and FAA L-864.

Features Electrical & Physical
Ultra-high intensity CREE LED light source saving power consumption and maintenance.
UV & vibration protected polycarbonate lens for converging light.
Self-contained without external power supply. No wiring required.
4-side mono crystalline silicon solar panel,where conversion efficiency is better than poly crystalline silicon.
Battery VRLA (Value-Regulated Lead Acid battery).
Solar panel as photocell for day & night working mode(dusk to dawn mode).
Interface ON/OFF button is more reliable and easier for local control.
Optional Extra's
GPS Synchronization. GSM cellphone monitoring.
Infrared LED for pilot using NVG. Remote control ON/OFF. External battery charging port.
Application
On the tops of the High Chimney, Telecommunication tower, Wind Turbine where there is no cable power supply and facilities which have high lightning protection requirements that mostly come with the low intensity lights whichare installed on lower places.

Light Characteristics
Light Source:Ultra high intensity CREE LED
Emitting Colour:Red
Intensity(cd):2000cd±25%
Horizontal Output (degrees):360
Vertical Divergence (degrees):>3
Flash Characteristics:Flashing 20FPM
Operation Mode:Dusk-to-Dawn operation
LED Life Experience(hours):>100,000

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

SOLAR AIRFIELD LIGHT — AL-SA/D

AL-SA/D SOLAR AIRFIELD LIGHT

AL-SA/D Solar Airfield Light is specially used on permanent airport/heliport where cable power is not convenient or as a temporary helipad. Wireless remote control is an optional function. User can turn light on/off within 3-4km without obstacles between the light and controller.

Compliance
ICAO Annex 14 and FAA AC 150/5345 and CAP 437.

Features Electrical & Physical
LED as light source saving power consumption and maintenance, 95% less power than equivalent incandescent light. Integrated design enabling a rugged and IP65 waterproof seal. PC housing, UV resistance, shock proof and corrosion proof. Bird deterrent spike. Mono crystalline silicon solar panel conversion efficiency better than poly crystalline silicon. Solar panel degree is adjustable for use in all areas. ON/OFF button interface located under battery box. Automatically turns on at night and closes at daytime.
Optional Extra's
User-adjustable operation mode to toggle between dusk-till-dawn & 24hr operation. External charger. Wireless Remote Control. NVG compatible Infrared (IR) LED. Pilot to Ground Remote Control (VHF Radio Control).
Application
Airport, Touchdown and Lift-off area (TLOF), Final Approach and Take-off area (FATO), Taxiway lighting, Runway edge lighting,Portable or expedited airfield lighting, Threshold lighting, Runway endlight. Helipad Taxiway. Emergency operations.


Air-to-Ground Control VHF


Wireless Remote Control

Light Characteristics
Light Source: LED
Available Colours: Red, Green, Yellow, White,
Blue Red/Green, Yellow/White.
Intensity(cd):>25cd
Horizontal Output (degrees):360
Vertical Divergence (degrees):>10
Flash Characteristics: Steady (Flashing mode is optional)
Operation Mode: Solar panel as photocell for day/night operation
LED Life Experience (hours): >100,000

OBSTRUCTION LIGHT MEDIUM-INTENSITY TYPE B — AL-MI/E1

AL-MI/E1 LED Medium-intensity Type B Aviation Obstruction Light

This can be used alone on the top of a high-rise building, high chimney, Telecom tower etc. where the height is between 45m and 105m. It flashes 20-60 times in red colour per minute at night. Built-in photocell makes the light turn-off at daytime automatically.

Compliance
ICAO Annex 14 Volume 1, Sixth edition, 2013, table6.3 Medium Intensity Type B Obstruction Light and FAAL-864.

Features Electrical and Physical
LED as a light source saving power consumption and maintenance, 95% less power than equivalent incandescent light. Power supply available in DC (12-48VDC) or AC (110-240VAC). Bird deterrent spike on top. UV & vibration protected polycarbonate lens for converging light. Unique designed polycarbonate lens for converging light and also provides corrosion resistance and UV protection. UV protection Powder coated bright yellow colour base makes better visibility. Base material is die-cast aluminium which has strong corrosion resistance, shock and vibration protection. Built-in photocell for day & night operation (dusk to dawn operation). Surge and lightning protection.
Optional Extra's:
Alarm contact for remote monitoring. Infrared LED for pilot using NVG. GSM. Cellphone monitoring.
RS485 communication part for monitoring. GPS synchronization. Adjustable flashing rate (20-30-40-50-60).
Application
This LED Medium-intensity Type B Aviation Obstruction Light can be used on the top of the High-rise Building, High Chimney, markingtowers (Telecom, GSM, Microwave & TV), High Pole, Tower Crane, Wind Turbine, etc when the height is 45-105meter, and where low intensity lights installed on lower places. Medium-intensity type B light also use with Medium-intensity type A and high-intensity light when obstacle is more than 105meter.

Light Characteristics
Light Source: LED
Available Colours: LED Red (Other colour is optional)
Intensity (cd): 2,000cd±25%
Flash Characteristics: 20-60times/minute
Operation Mode: Dusk-to-dawn Automatically as standard, 24hour operation as option.
LED Life Experience (hours): >100,000

IP67

MIMIC COMPONENTS
5 Ramsay Street, Booysens 2091, Johannesburg
sales@mimic.co.za www.mimic.co.za
P.O. Box 38493, Booysens 2016, Johannesburg, South Africa
TEL: (011) 689-5700
FAX: (011) 493-8821

Portable Helipad Landing Light Solar Kit — AL-HP/J

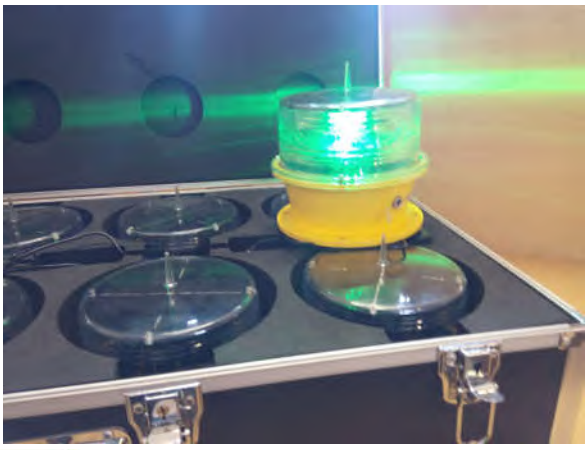
AL-HP/J Portable Helipad Solar Landing Light Kit in Robust Carry case

Internationally compliant and advanced solar panel reaching at least 10 years' service life. Easy installation & relocation.
No specialized work crew required, limited air traffic disruption, lights immediately operational.
Comprehensive protection in voltage short,over-voltage, floating, charge and temperature.
Built-in Solar Panel. Self-contained, low maintenance.

All components incorporated in a compact, stand-alone unit.
Strong corrosion resistance, rain, snow, shock, vibrations protection and UV protection.
Internationally advanced cold LED with low power consumption and high brightness.
Clean, renewable, green and reliable energy source.
Dusk-to-dawn operation.
At least 5 days autonomy without sun and 20 days on flashing mode.

Applications
Emergency operations, Helipads, Touchdown, Lift- off area (TLOF),
Final Approach and Take- off area (FATO),Taxiway,Runway edge lighting.

Specifications
Light quantity in one case: 6 or 8 lamp units
Service life of light source reaching 100,000 hours
Light emitting colour: Steady bright RED LED
Light intensity: 10cdLight dimension: 162*162*160mm
Light weight: 1.2kg
Light material: Base-die casting Aluminium
Lens -UV protected polycarbonate
Battery-lithium ion battery
Battery fully charged time: 8 hours
Case: Robust carry case with 6 or 8 charging ports
6 indicators charging mode (red), fully charged mode (green)
ON/OFF button under light base
Indicator on the lamps show low battery status



Solar Airfield-Light Remote Controller — AL-HP-RC

AL-HP-RC Solar Airfield Light Remote Controller

Potable Remote Controller. Wireless. Handheld.

AL-HP-RC Wireless Handheld Remote Controller is typically used for all solar / portable airfield lights. Its communication frequency is 433MHZ, the effective distance is up to 3km (more than 3km is customized).

This provides easy access to and gives operators full control over multiple commands such as turn ON/OFF light, change the flashing rate of all lights and the configuration of messages.

Compliance
ICAO and FAA regulations and CAP437 (offshore helipads).

Application
Solar Airport Lights, Touchdown and Lift- off area (TLOF) light,
Final Approach and Take- off area (FATO) light,
Solar Taxiway lighting, Runway edge lighting,
Portable or expedited airfield lighting & Threshold lighting.
Features
Light weight for easy hand use & portability.
Function
Turn on/off light, choose difference group of light,
change flashing rate, emergency mode Antenna is removable.

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

Heliport LED Surface Flood Light — AL-HP-F1

AL-HP-F1 Heliport LED Surface Flood Light

LED Surface Heliport Flood Lights are used to illuminate the whole heliport area at night. It is specially designed for helipads and provides a glare-free, uniformed surface lighting for landing and loading activities. These floodlights improve pilot depth perception by reflecting the surface of the helipad, thus allowing pilots to better estimate their altitude during landing.They can also be used forother types of heliport lighting, such as FATO heliport lights, TLFO heliport lights and Heliport Aiming point lights.

Compliance
ICAO Annex 14 Volume II heliport light 5.3.9 and FAA AC 150/5390-2B Heliport Design Guide.

Electrical features
High intensity, energy efficient LED glare-free floodlight.
Period of LED Life ≥100,000 hours.
Power supply available in AC (100-240VAC), DC48V, DC12V.
Ultra-efficient LED reduced power consumption.

Physical features
The enclosure of AL-HP-F1 heliport light is made out of a stainless steel powder coated in electrostatic field to ensure it has good weather resistance. The assembly has a low profile of less than 25cm and mounts to frangible point. Special custom lens optic designed specifically for helipad operations. The angle of tilt of the luminaire is easily adjusted to maximise heliport illumination.

Optional Extras
Infrared LED for pilot using NVG (Night Vision Goggles).
Controller for power supply and turn ON/OFF light.
VHF pilot to ground remote control.
Marine treated.
IR LED as light source.

Appplications
Helipad/Heliport TLOF areas, Heliport FATO areas,
Helipad Runway, Helipad Taxiway, Aimimg Point Light.

SemiFlush ZA202 Landing Light — ZA202

ZA202 SemiFlush ZA202 Landing Light

The AeroLED ZA202 Semi-Flush ZA202 type landing light is a new LED powered helipad light.
It gives off a bright white, red or green light.
The use of latest materials and technology enables these units to be considerably more economical than the conventional filament-based helipad lights.
They also have a built-in individual brightness regulation so there is no need for the expensive current conformers that high voltage systems use.
Due to the high efficiency of LED's low current requirements, Aeroleds can be operated on low voltages making the installation cable extremely economical and safe.

They are totally non-corrosive making them ideal for marine applications and a special marine version is also available.
The standard version is manufactured from composite material, galvanized bolts andUV resistance making it resistant to corrosion.
For not much extra, the marine version is available for deck-mounting.

The Semi-Flush Za202 type utilizes stainless steel bolts and composite materials as well as a special mounting gasket.

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

Obstruction Light Single Medium Intensity — AL-MI/C

AL-MI/C Single Medium-Intensity Obstruction Light

This LED Medium-intensity light can be used alone on the top of the high-rise building, high chimney, Telecom tower etc. whose height is between 45m and 105m.

Compliance
ICAO Annex 14 Volume 1,Sixth edition, 2013,table 6.3 Medium Intensity Obstruction Light and FAAL-864.

Electrical and Physical Features
LED a slight source saving power consumption and maintenance, 95% less power than equivalent in candescent light.
Power supply available in DC(12-48VDC) or AC(110-240VAC). Bird deterrent spike on top. Unique designed polycarbonate lens for converging light and also provides corrosion resistance, shock and vibrations protection. Built-in photocell for day/night operation (dusk to dawn operation). Surge and lightning protection.

Optional Extra's
Alarm contact for remote monitoring. Infrared LED for pilot using NVG.GMS cellphone monitoring. RS485 communication part for monitoring. GPS synchronization. Adjustable flashing rate (20-30-40-50-60).

Application
AL-MI/C Medium-intensity red light could be used on the top of the High-rise Building, High Chimney, marking towers (Telecom, GSM, Microwave & TV), High Pole, Tower Crane, Wind Turbine, etc. when the height is 45-105 meters, and low intensity lights installed on lower places. Medium-intensity type B light also used with Medium-intensity type A and high-intensity light when obstacles are more than 105meters.

Light Characteristics
Light Source: LED
Available Colours: Red (Other colour is optional)
Intensity(cd):2,000cd±25%
Horizontal Output (degrees):360
Vertical Divergence (degrees) >10
Flash Characteristics: Steady burning
Operation Mode: Dusk-to-dawn Automatically as standard
24hours operation as option
LED Life Experience(hours):>100,000.

IP67

Obstruction Light Double Medium-Intensity — AL-MI/I

AL-MI/I Double Medium-Intensity Aviation Obstruction Light

Light flashing red colour, designed for marking top of obstacles whose height is between 45 to 105meters. Main-standby mode ensures obstacles are always marked even when light fails. If the top main lamp-light fails, the standby lamp automatically turns on.

Compliance
ICAO Annex 14 Volume 1,Sixth edition, 2013, table6.3 Medium Intensity Type B Obstruction Light and FAAL-864.

Features Electrical and Physical
High intensity LED as light source saving power consumption and maintenance than incandescent light or halogen lamp. Power supply available in 12VDC, 48VDC, 110VAC, 240VAC. Unique design with UV protected polycarbonate lens for converging light. UV protection Powder coated bright yellow colour base for better visibility. Base material die casting aluminum for strong corrosion resistance. Shock and Vibrations protection. Built-in photocell for day/night operation (dusk to dawn operation). Surge and lightning protection. Main standby mode.

Optional Extras
Alarm contact for remote monitoring. GPS synchronization.

Application
On the top of the High-rise Building, High Chimney, marking towers (Telecom, GSM, Microwave & TV), High Pole, Tower Crane, Wind Turbine, etc when obstacle height is 45-105meter, and can work with low intensity lights stalled on lower places.

Light Characteristics
Light Source: High intensity LED
Available Colours: Red
Intensity (cd):2000cd±25%
Horizontal Output (degrees):360
Flash Characteristics:20-60 flashes per minute
Operation Mode: Dusk-to-dawn Automatically as standard, and 24hours operation as option.
LED Life Experience (hours): >100,000
*Also available as a Single Medium-Intensity Obstruction Light.

Single Medium-Intensity Obstruction Light

Double Medium-Intensity Obstruction Light

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa
TEL: (011) 689-5700 FAX: (011) 493-8821

AEROLED AVIATION LIGHTING

Obstruction Light High-Intensity Type A — AL-HI/AO

AL-HI/AO High Intensity Type A Aviation Obstruction Light.

High-intensity Type A Aviation Obstruction Light. Flashing white color 24hours. Designed for marking tops of obstacle that exceeds 150 meters in height. Ultra-high intensity CREE LED is used for the light source ensuring long life light experience and good performance.

Compliance
ICAO Annex 14 Volume 1,Sixth edition, 2013 ,table 6.3, High Intensity Type A Obstruction Light. FAAL-856

Features Electrical & Physical
CREE ultra-high intensity LED as light source saving power consumption and maintenance than incandescent light or halogen lamp.
Power supply available in DC(48V)or AC(110V, 240V).
Unique design and UV protected polycarbonate lens for converging light.
UV protection Powder coated bright yellow colour base ensures better visibility.
Base material is powder coated die-casting aluminum for strong corrosion resistance.
Shock and Vibration protection. Special valve installed beside the base to ensure watertight and avoid high light destroying temperatures.
Built-in photocell for day/twilight/night operation. Surge and lightning protection.

Optional Extra's: On request including mounting customised bracket.

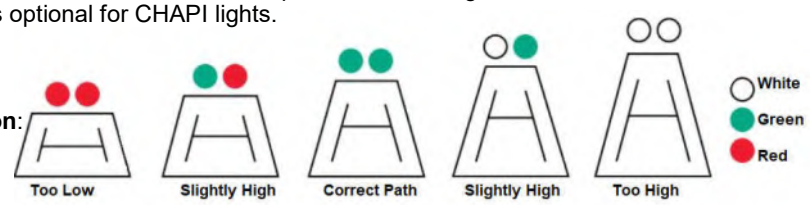
Application
High-intensity for top of High-rise Buildings,
High Chimneys, Marking Towers,
(telcom, GSM, Microwave & TV),High Pole,
Tower Crane, Wind Turbine, etc
and when obstacle height is more than 150meters.

LED CHAPI Heliport Approach Path Indicators — AL-HP-CHAPI

AL-HP-CHAPI LED CHAPI Heliport Approach Path Indicators

The LED CHAPI Heliport Approach Path Indicators (CHAPI) uses LED technology to provide the pilot with safe and accurate glide slope on final approach to the helipad. A set of two LED CHAPI Light Housing Assemblies(LHAs) are seen by the pilot in combinations of white, green and red to indicate a path that is too high/too low or within the 6°±0°15' glide slope.
A Solar power system is optional for CHAPI lights.

CHAPI Visual Indication:



Compliance
ICAO Annex 14 Volume I 6th Edition dated 2013 clauses, 5.3.5.28 –5.3.5.40,
Figure A2-23 Appendix1,2.1.1 and FAA AC150/5390-2B Heliport Design Guide.

Application
Permanent, Temporary, Emergency Helipad/Airport/Helideck. Offshore/Onshore usage.
Application Options
Solar Power System, VHF Pilot to Ground Remote Control, Wireless Remote Control, Clinometer.

Light Characteristics
LED as light source saving power consumption and maintenance,
95% less power than equivalent incandescent light.
Light Source: LED - Steady Burning
Colours: Red / Green / White
Operation Mode: 24 hours operation
LED Life: >100,000
Operation Voltage: AC220V - 50W
Circuit protection: Integrated

Body material: Stainless Steel / Leg material: Die Casting Aluminium

Ambient Temperature:
~35~80 Humidity:10-90%
Wind Speed: 80m/s Waterproof: Protection IP65.

MIMIC COMPONENTS
5 Ramsay Street, Booysens 2091, Johannesburg
sales@mimic.co.za www.mimic.co.za
P.O. Box 38493, Booysens 2016, Johannesburg, South Africa
TEL: (011) 689-5700
FAX: (011) 493-8821

A. PAPI LIGHTS. PAPI Landing Eyes. Two Lamp Box System

Note that these are A PAPI ie. A two-lamp box system as opposed to a four box system. These need to be mounted on the side of the runway 120m in from the threshold.

The LED A PAPI (Precision Approach Path Indicator) consists of 2 No. double super white Hi power cluster LED Projectors. A red filter dividing the lens into a white and red filtered sector light projection is used by the pilot to maintain a predetermined approach slope to land within the confines of the runway remaining clear of obstacles on approach. The projectors are set at predetermined angles above and below the average predetermined approach slope. At the correct predetermined approach slope, the pilot will observe one red light and one white light. If an approach is too high, 2 white lights will be observed and with a too-low approach 2 red lights will be observed. The pilot adjusts his approach angle accordingly.

The runway appears to be situated away from the high ground and will be equipped with portable reflectors and threshold lights for take offs and landings in times of unscheduled and emergency night flights.
The LED Projectors have a low energy consumption if the threshold lights were radio activated and permanently in position.
The projectors and LED threshold lights could be programmed to shine for 15 minutes and then switch off automatically. The pilot would reactivate the system with 3 clicks on the aircraft microphone (see operating instruction, runway lighting controller attached). This system has a low power consumption using a 12volt battery system and is relatively inexpensive when compared to conventional constant current controlled systems.

The PAPI lights are powered of 12volt DC and consume 2.6 Amps. They can be supplied with an 18amp hour battery which gives about 4 hours of use. Alternatively, a 105amp hour battery 20 hours. We prefer to supply a cable reel and inverter for plugging into a cigarette lighter socket as a source of power which is always available. For the Threshold and Taxiway lights a rechargeable battery type would be more convenient.

LEVEL SETTING OUT OF PAPI BOX
Level back & front of bottom PAPI frame with spirit level.
Level bottom of stand longways with spirit level and adjusting screws.

LEVEL SETTING OUT OF PAPI BOX
Set fixed inclinometer in centre of PAPI box for vertical alignment.
Front of PAPI box confirm level.
Adjust back screws evenly to raise or lower back of the PAPI box in horizontal plan until spirit level has bubble in middle.
This confirms PAPI siting at the correct angle.

Below: Typical Installation of PAPI lights in Southern Africa.

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

AL-HP-PAPI. PAPI LED Lights (Precision Approach Path Indicator)

The LED Precision Approach Path Indicator (PAPI) is used to guide an aircraft when approaching the runway at an appropriate altitude. It is specially designed to accommodate the helicopter's steep angles of descent and deliberate speeds.
There are two Colors which show two wide horizontal beams in different coloured light. This light is projected in fan shaped array into the incoming flight pattern. A Solar Power System can also be used for PAPI.

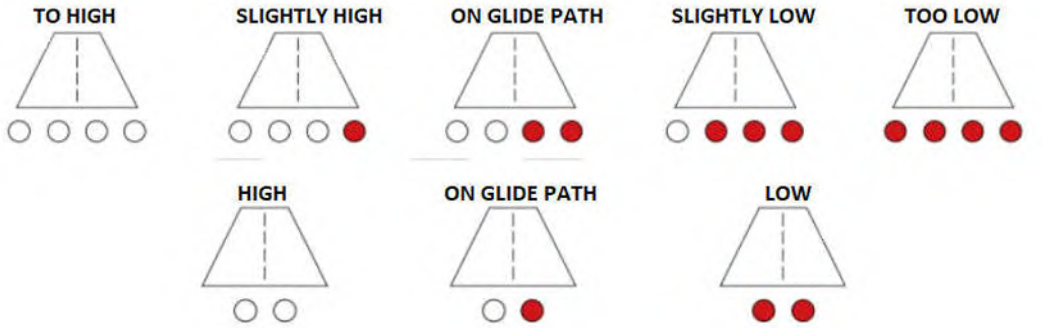
Compliance
ICAO Annex 14 Volume I 6th Edition dated 2013 clauses,5.3.5.28 –5.3.5.40, Figure A2-23 Appendix 1,2.1.1 and FAA AC150/5390-2B Heliport Design Guide.

Electrical & Physical features
LED as light source saving power consumption and maintenance, 95% less power than equivalent incandescent light.
Power supply available in AC(110,240VAC), DC48V or others.
Unique designed polycarbonate lens for converging light that also provides corrosion resistance and UV protection.
UV protection Powder coated bright yellow color base makes better visibility.
Housing material in stainless steel which has strong corrosion resistance and Shock and Vibrations protection.
Fragile coupling reduces secondary damage to helicopters effectively.

Applications
Permanent, Temporary, Emergency Helipad/Airport/Helideck, Offshore/Onshore usage.

Optional Applications
Clinometer, VHF pilot to ground remote control, Solar power system.

PAPI Visual Indicator Diagram:



MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

AL-LS/A Single Solar Powered Low-Intensity Obstruction Light

AL-LS/A is a self-contained obstruction light which consists of a solar panel, battery and lamp. There is no need for external power input. The vertical degree of the solar panel is adjustable and ensures maximum sunlight in different areas. It is designed for marking the tops of obstacles that not exceed 45meters in height.

Compliance
CAO Annex 14 Volume 1, Sixth edition 2013, table 6.3 Low Intensity Type A/B Obstruction light.FAAL-810.

Electrical & Physical features
LED as light source, life experience>100,000hours.
With bird needle to prevent bird drop.
UV & vibration protected polycarbonate lens for converging light.
Powder coated die casting aluminium base, light fastness, snow and rain resistance.
Battery box made of corrosion resistance 304 stainless steel.
Self-contained without external power supply.
No wiring required saving on cable & installation costs.
Solar panel as sensor (Photodiode) for day & night working mode (dusk to dawn mode).
ON/OFF button under base for easy control.
Steady/flashing (20fpm) adjustable switch.
Solar panel is adjustable (Vertical 15-90°)

Optional Extras
GSM cellphone monitoring.
Infrared LED for pilot using NVG (Night Vision Goggles)
Remote control ON/OFF.

Applications
This low-intensity light is specialized used on the top of the High Chimney, Telecommunication tower, Wind Turbine where there is no cable power supply and those facilities which have high requirements on lightning protection.
Used alone on the top of obstacles whose height is less than 45meters.

Light Characteristics
Light Source: LED Emitting
Colour: Red
Intensity(cd): Ss32.5cd
Horizontal Output (degrees): 360
Vertical Divergence (degrees): >10
Flash Characteristics: Steady/Flashing(20fpm) adjustable
Operation Mode: Dusk-to-Dawn operation
Low-Intensity Double Solar Powered Obstruction light
LED Life Experience(hours): >100,000

Low-Intensity Single Solar Powered Obstruction Light.

Low-Intensity Double Solar Powered Obstruction Light available on request.

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

Heliport Beacon Light Morse Code — AL-HP/B

AL-HP/B Heliport Beacon Light Morse Code

AL-HP/B heliport beacon should be provided at a heliport where long-range visual guidance is considered necessary and is not provided by other visual means.

Compliance
ICAO Annex 14 Volume Ⅱ Heliports 5.3.2;
FA AC 150/5390-2B Heliport Design Guide;CAP 437
Electrical Features
Xenon as light source with 108 times more service life
Flashes white colour 4 times/0.8second, then
stop for 1.2s, then start new circle for 2seconds(0.8s+1.2s).
Physical Features
Clear polycarbonate lens for converging light
Provides corrosion resistance and UV protection.
UV protection Powder coated bright yellow colour base makes better visibility.
Base material is stainless steel 304 with
strong corrosion resistance, shock and Vibrations protection.
Optional Add-Ons
Controller for power supplying and turn
ON/OFF lightVHF pilot to ground remote control
Application: Helipad/Heliport/Helideck

IP65

Heliport Directional Arrow — AL-HP-D

Heliport Directional Arrow AL-HP-D

Heliport Directional Arrow has a double function: Floodlights on middle used for illumination and the Top perimeter light marks the edge of the final approach and take-off area.

Compliance
ICAO Annex 14 Volume Ⅱ Heliports 5.3,
FAA AC 150/5390-2B Heliport Design Guide, CAP 437
Electrical Features
LED as light source saving power consumption and maintenance,
95% less power than equivalent incandescent light.
Power supply available in DC(12-48VDC) or AC(110-240VAC).
Physical Features
Unique design polycarbonate lens for converging light,
provides corrosion resistance and UV protection with UV protection
Powder coated bright yellow color base for better visibility.
Base material is die-casting aluminum with strong corrosion
resistance, shock and vibrations protection.
Fragile coupling reduces the secondary damage to helicopters.
Optional Add-On
Controller for power supplying and turn ON/OFF light.
VHF pilot to ground remote control.
Application
Helipad/Heliport FATO areas, Helipad Runway, Helipad taxiway

Uni-Directional Runway Guard — AL-HP-RG

Uni-Directional Runway Guard AL-HP-RG

The Unidirectional Runway Guard light provides unidirectional flashing to aid in reducing airfield incursions at unmarked runway and taxiway intersections. The flashing yellow light fixture provides a distinctive warning to pilots that they are approaching and entering an active runway.

Compliance
ICAO Annex 14 Volume
FAA AC 150/5345
Electrical Features
LED as light source saving power consumption and maintenance,
95% less power than equivalent incandescent light.
Physical Features
Fragile coupling avoids secondary damage
Applications
Unmarked runways and Taxiway intersections.

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

Marine Navigation LED Lantern — AL-LS-P3

AL-LS-P3 LED Lantern Marine Navigation Lantern

The AL-LS-P3 LED Marine Navigation Lantern is completely sealed.
The IR remote controller allows users to change the light flashing characteristics(IALA 256 flashes) easily.
GPS sync flashing is optional; it ensures different flash lights can flash at the same time.

Compliance: IALA E-200-1

Electrical Features
Based on LED technology. Color complies to IALA Recommendations E-200-1.
LED technology reduces maintenance time & costs.
Working voltage: 110-240vac, 12vdc, 48vdc.

Physical Features
Integrated design enabling a rugged and completely waterproof seal capable of prolonged and deep immersion (IP68). PC housing
UV resistance, shockproof and corrosion proof. Bird deterrent spike.
Powder coated die casting aluminium base.

Optional Extras
Rotary switches for adjust 256 flash characteristics comply with IALA
User-adjustable operation mode to toggle between dusk-till-dawn & 24hr operation
External charger : Infrared remote control : GSM Monitoring
RS232 485 port : GPS sync flashing : Solar panel & battery

Application
AH-LS-P3 LED Marine Navigation Lantern is used on buoys, light houses and any other off shore sites for marine/river safe navigation.

Marine Helideck Circle-H Light — AL-HP-H

AL-HP-H Helideck Light. Marine Helideck Circle-H Light

Heliport Marking light is for the heliport identification marking “H”. The design of thickness (＜25MM) makes it easy to install and suitable for all kinds of heliports.

Compliance
ICAO Annex 14 Volume Ⅱ Heliports 5.3.3,
FAA AC 150/5390-2B Heliport Design Guide
CAP 437.

Electrical Features
LED as light source saving power consumption and maintenance,
95% less power than equivalent incandescent light.
Power supply available in AC(110-240VAC), DC48V.

Physical Features
Unique designed polycarbonate lens for converging light and also provides corrosion resistance and UV protection.
UV protection powder coated bright yellow colour base for better visibility.
Base material die-cast aluminium for strong corrosion resistance.
Shock and vibrations protection.
Fragile coupling effective in reducing secondary damage to helicopters.

Optional Features
Infrared LED for pilot using NVG (Night Vision Goggles).
Controller for power supplying and turn ON/OFF light.
VHF pilot to ground remote control.
Marine treated.

Application
Helipad/Heliport TLOF areas, Heliport FATO areas

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

AEROLED AVIATION LIGHTING

COLED-B BC TYPE (B22)

COLED-E ES TYPE (E27) CONE LED

CONE LED's

S - Normally Stock
L - Limited Stock
O - Ex Order

COLED-B BC Type (B22) and COLED-E ES Type (E27) CONE LED

Voltage: 110V or 220VAC
(other voltages available on special order)
Colour: Red or Green
(other colours available on special order)
(Flashing or Steady on).

Features
This ultra-bright lamp has been designed to meet the requirements of a low level warning light to the ICAO specification.
It shines light in all directions (360º) at a 7.5º angle from the horizantal.
It exceeds the 10 candela requirements.
At 230VAC power dissipation is only 5W resistive 90 & 8.6W reactive.

Marine Helideck Explosion Proof

SSEL EX-PROOF

Marine Helideck SSEL Explosion Proof LED Perimeter Light.

Aluminum housing provides excellent durability.
Suitable for helideck and other dangerous areas that require a perimeter light.
Structure minimizing the projection of lens,
Can be protected from damage by external impact.
Product structure with 100mm height meets the IMD regulation condition.
Terminal for power wiring located inside of the housing.

Signal colours
R-**Red,** A-**Amber,** G-**Green**, B-**Blue**
Standard housing colour: MUNSELL No. 7.5BG 7/2
Cable entry: 1/2'NPT Materials: Lens-Tempered glass,
Housing-AlCertificates: KIMM, ABS
Protection rating: Ex IIC T6, IP66
Ambient operating temperature: -40º ≤ Tamb ≤ + 60ºC

Marine Solar Powered Lantern

AL-LS/C-4S

AL-LS/C-4S Marine LED Solar Powered Lantern

This LED Marine Lantern is a completely self-contained.
4 x solar panels are integrated into the assembly and mounted to collect sunlight at all angles.
All the solar panel are at vertical angles are adjustable to ensure maximum usability.
The ON/OFF button interface allows for manual ON/OFF light switching without opening the housing container.

Compliance: IALA E-200-1.

Application: On buoys, light houses and any other off shore site for marine/river safe navigation.

Features
LED technology, colour complies to IALA Recommendations E-200-1.
PC housing, UV resistance, shockproof and corrosion proof.
Bird deterrent spike.
Powder coated die casting aluminium base.
4-side mono crystalline silicon solar panel
(conversion efficiency is better than poly crystalline silicon).
4-side solar panel vertical adjustable angles.
ON/OFF button interface.
Solar panel as photocell for day/night operation (dusk to dawn).
Equipped with rotary switches to adjust 256 different flashing rates
User-adjustable operation mode to toggle between dusk-till-dawn & 24hr operation.
Wireless remote control, GSM Monitoring,
S232 485 port,
GPS Sync flashing.

MIMIC COMPONENTS
5 Ramsay Street, Booysens 2091, Johannesburg
sales@mimic.co.za www.mimic.co.za
P.O. Box 38493, Booysens 2016, Johannesburg, South Africa
TEL: (011) 689-5700
FAX: (011) 493-8821

Warning Sphere — AL-AWS

AL-AWS Aircraft Warning Sphere

Designed for use on high-rise transmission lines, eg.110KV, 220KV, 500KV, Transmission cables, river-crossing transmission lines as warning marks.

Compliance: ICAO (Aerodromes Annex 14)

Features
Diameter of Aircraft Warning Sphere: θ800mm
Color: Red
Material: Fiber glass reinforced polyester resin
Character of fiber glass:
Tensile strength ≥128Mpa
Bending strength ≥230Mpa
Temperature resistant -40℃~+90℃
Fastener: Aluminum material, M10 by 35, M10 by 40
There are rainwater drainage holes on sphere ball.
Weight of Sphere: 8 Kg
Armor rod: aluminium alloy, 800mm
Sphere thickness: 2. 3mm
Conductor size: 10mm- 35mm

Rotating Beacon — AL-HP-R3

AL-HP-R3 Airport Rotating Beacon

The Airport Beacon is located on or adjacent a heliport preferably at an elevated position so that it does not dazzle a pilot at short range. Rotated Beacons are for night operations as an identification and location marker.
Compliance: FAA AC/150-5390-2B and ICAO Annex 14 Volume I 5.3.2

Features
100,000 hour typical lamp life.
Colours: One white, one yellow and one green.
No maintenance.
All moving parts are permanently lubricated.
Impedance-protected motor eliminates burnouts.
12RPM rotation, 36 flashes/minute.
Weatherproof stainless steel cabinet, powder-coated international yellow.

Application: Helipad/Heliport/Helideck, Airports.

Helipad/Heliport Safety Nets — SAFETY NETS

Heliport/Helipad/Helideck Safety Nets.

Custom Safety Nets. Available on request

Product no.	Description	Size (m)	Cord Dia. (mm)	Breaking Strength (kg per cord)
929	Safety Netting	As required	6	400

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

AL-A-AMC Portable Airfield Light with Accessories

This is specifically used on permanent airport/heliport where cable power is not convenient or on temporary helipads, especially for Medivac and other Emergency situations.

Compliance
ICAO Annex Volume 14 II heliports 5.3.

Electrical and Physical Features
Integrated design enables a rugged and completely waterproof seal capable of prolonged and deep immersion IP67.
Hard anodizing Aluminium housing ensures good UV resistance, shockproof, corrosionproof, anti-corrosion and salt-spray proof.
Rechargeable lithium ion battery inside for power supply.
Charging port.
Battery status LCD screen.
Handle for easy portability.ON/OFF button.
Ultra-High Intensity LED as light source saving power consumption andmaintenance, 95% less power than equivalent in candescent light.

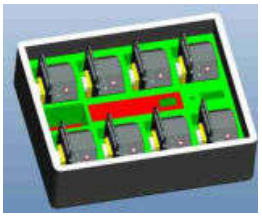
Optional Extra's
Built-in photocell.
Wireless remote control (433MHZ, 3KM effective distance).
NVG compatible Infrared (IR) LED. Air-to-ground control VHF.
Carry case (STD 8 lights in one case).
Extra battery charger station (for charges up to 12 lights simultaneously).

Applications
Airport, Touchdown and Lift-off area (TLOF), Final Approach and Take-Off area (FATO), Taxiway lighting,
Runway Edge lighting, Portable or Expedited airfield lighting, Threshold lighting, Helipad Taxiway, Emergency Operations.

Light Characteristics
Light Source: ultra high intensity LED
Available Colours: Red,Green,Yellow,White,Blue,
IR Flash Characteristics: Steady(Flashing mode is optional)
Operation Mode: 24hours working after switched ON
LED Life Experience (hours): >100,000

AL-PA-AMC PORTABLE AIRFIELD LIGHT

Portable Airfield Light Kit with remote Control & Case



Carry Case contains 6 or 8 individual units light storage

Air-to-ground control VHF

Wireless Remote Control 433MHZ, 3km effective distance range

MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booysens 2091, Johannesburg P.O. Box 38493, Booysens 2016, Johannesburg, South Africa FAX: (011) 493-8821

MIMIC COMPONENTS

AEROLED

AEROLED AVIATION LIGHTING

A Division of Mimic Components

Aviation Contact Specialists:

Edwin Wakefield (MD) & Kevin Watson-Barron

MIMIC COMPONENTS

ELECTRICAL & ELECTRONIC WHOLESALE
DISTRIBUTORS SOUTHERN AFRICA

Address:

5 Ramsay Street, Booysens, 2091, Johannesburg, South Africa
PO BOX 38493 Booysens, 2016, South Africa

Telephone:

Switchboard: +27(0)11-689-5700 Faxcimile:+27(0)11-493-8821
Email: sales@mimic.co.za Website: www.mimic.co.za