

// Better Quality // Higher-effective Service // Stronger Responsibility // Broader Vision



Airsafe

Advanced Airport Lighting System

Airsafe Airport Equipment Co., Ltd.



Company Profile

About Airsafe

Airsafe Airport Equipment Co., Ltd. was established in 1987 with a history of 30 years. The company was restructured in 2003. After decade of effort, Airsafe has now become an internationally recognized brand. The product performance and quality have been widely recognized by the airports in the world.

Airsafe focuses on R&D and has a strong R&D team. The company keeps improvement of the products continuously, with leadership technology new product launches every year. As one of the leader companies in industrial Airsafe will strive to lead to a higher level of AGL equipment.

Airsafe is the designated enterprise that takes part in the compilation of industrial standards of China aviation.

Corporate Mission

Better Quality, Higher-effective Service, Stronger Responsibility, Broader Vision

AIRSAFE Brand

AIRSAFE trademark was registered in 2003, and is a well-known brand in AGL industries

- Active participation in various international high level exhibitions and forums which have great influence
- Airsafe's products have the international authorized or national certifications like CAAC ICAO, FAA and IEC
- Airsafe owns a large quantity of invent patents and holds the leading technology in the world
- Dominance in Chinadomestic market with establishment of distributor system in various countries and regions
- Major international airports in many countries use Airsafe's AGL products
- AIRSAFE becomes the most potential brand of high quality in the international AGL industry



Product Series

By nearly 10 years effort, Airsafe developed most series of airfield lighting products. We have not only in-pavement and elevated runway and taxiway lights, but also PAPI, sequence flashing lighting system, LED sign and isolation transformer, etc. All the products fully comply with related standards and requirements of CAAC, ICAO and FAA, etc.

Airsafe can offer full series of airfield lighting fixtures for big airports which has 4F runways.

Airsafe will continue to put more effort to expand our product lines in order to offer full range of brand products for our airport clients.

- Elevated uni-directional LED lights
- Elevated bi-directional LED lights
- Elevated omni-directional LED lights
- 12" in-pavement LED lights
- 8" in-pavement LED runway lights
- 8" in-pavement LED taxiway lights
- Precision Approach Path Indicator (PAPI)
- Sequential Flashing Lights (SFL)
- LED Taxiway Guidance Sign
- Internal illuminated LED Wind cone
- LED Rotating Aeronautical Beacon
- Solar-Power LED Unserviceable Area Light
- Precision Lighting Photometric Test System
- Mini CCRs



Full Range of Low Protrusion (6mm) In-pavement LED Lights

Three series

- 12" Approach and Runway Lights
- 8" Runway Lights
- 8" Taxiway Lights

Optional Functions

- Embeddable single lamp fault detection module, for external connection to single lamp control system
- Arctickits, for self-heating to melt the ice and snow

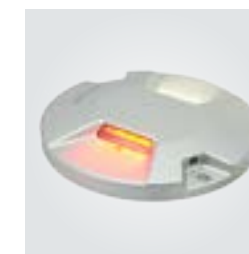
Main Features

- 6mm Low protrusion above the pavement (FAA Style 3 & IEC Style 4) available for all in-pavement lights
- Interchangeable, modular-design for all these light series, more convenient maintenance
- Optional automatic LED short or open fault detection function
- Optional patented low temperature heating system
- Unique modularize lightning protection solution
- Advanced forging forming process, excellent mechanical performance
- Specified aluminum alloy, premium heat dissipation and anti-corrosion performance
- Special designed prism and reflector structure, extremely high optical efficiency



LED Approach Centerline Light

Type: APPS-12-S-LED
12", Uni-directional, Clear
Rated Power: 72 VA
Rated Current: 2.8 to 6.6 A
ICAO Annex 14 Figure A2-1



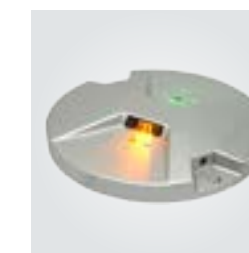
LED Runway Centerline Light

Type: RCLS-08-LED
8", Bi-directional, Clear/Red
Rated Power: 24 VA (Bi-dir.), 18 VA (Uni-dir.)
Rated Current: 2.8 to 6.6 A
ICAO Annex 14 Figure A2-6, A2-7
FAA L-850A



LED Threshold Wingbar Light

Type: THWS-12-X-LED
12", Uni-directional, Green
Rated Power: 65 VA
Rated Current: 2.8 to 6.6 A
ICAO Annex 14 Figure A2-4



LED Taxiway Centerline Light

Type: TCLMS-08-X-LED
8", for straight or curved section
Bi- or Uni-directional, Green/Yellow
Rated Power: 12 VA (Bi-dir. with 2 plugs),
9 VA (Bi-dir. with 1 plug), 7 VA (Uni-dir.)
Rated Current: 2.8 to 6.6 A
ICAO Annex 14 Figure A2-12, A2-14
FAA L-852C, L-852K



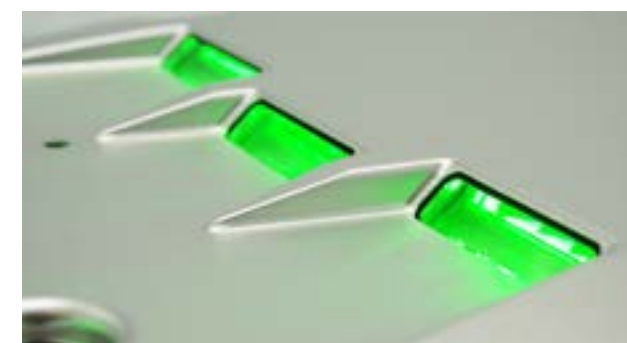
LED Runway Edge Light

Type: RELS-12-X-LED
12", Bi-directional, Clear/Yellow/Red
Rated Power: 36 VA
Rated Current: 2.8 to 6.6 A
ICAO Annex 14 Figure A2-9, A2-10
FAA L-850C



LED Inset Taxiway Edge Light

Type: TOEL-08-LED
8", omni-directional, Blue
Rated Power: 8 VA
Rated Current: 2.8 to 6.6 A
ICAO Annex 14 5.3.17
FAA L-852T



Full Series of Elevated LED Lights

Full Series

- Uni-directional Lights
- Bi-directional Lights
- Omni-directional Lights

Main Features

- Thermal management for circuit drivers, enhancement of the light life and reliabilities
- Strict LED color bin management, ensure uniformity of the light beam color
- Optional single lamp fault detection function
- Anti-condensation treatment inside the lights
- Power factor more than 0.9, reduce grid interference
- The fixture can be connected with one or two-inch frangible pole, convenient installation, firmness and reliability
- Interchangeable, modular-design for all these light series, more convenient maintenance



LED Approach Light

Type: EUL-AP-LED
Uni-directional, Clear
Rated Power: 36 VA
Rated Current: 2.8 to 6.6 A
ICAO Annex 14 Figure A2-1



LED Runway Edge Light

Type: EBL-RE-LED
Bi-directional, Clear/Yellow/Red
Rated Power: 36 VA
Rated Current: 2.8 to 6.6 A
ICAO Annex 14 Figure A2-9, A2-10
FAA L-862



LED Runway Threshold Light

Type: EUL-TH-LED
Uni-directional, Green
Rated Power: 36 VA
Rated Current: 2.8 to 6.6 A
ICAO Annex 14 Figure A2-3



LED Taxiway Edge Light

Type: EOL-TE-LED
Omni-directional, Blue
Rated Power: 3 VA
Rated Current: 2.8 to 6.6 A
ICAO Annex 14 5.3.17
FAA L-861T



LED Runway Guard Light

Type: EUL-RG-LED
Uni-directional, Yellow, Flashing Alternately
Rated Power: 24 VA
Rated Current: 2.8 to 6.6 A
ICAO Annex 14 Figure A2-25
FAA L-804

Precision Approach Path Indicator (PAPI)

- Subversion of traditional PAPI structure, new design concept
- High precision, stable and reliable structure, easy to operate and maintain
- Each unit uses 3*105W halogen lamp, equipped with a 300W isolation transformer
- Straight red-white split line, red-white transition zone<3 arc minute, in compliance with ICAO Annex 14
- Incorporated with intelligent electrical control system; it will automatically turn off all the PAPI units once there is a malfunction as excessive light unit tilt or less intensity, etc. on any unit
- Unique optical design which don't need complicated adjusting devices for lamp and filter installation or replacement. No impact on light output if there is any installation deviation
- Internal electronic inclinometer can reach a resolution value of 0.01°
- Four digital LED display alternately shows real angle and flight landing test angle in real time
- Modular design, easy to maintain
- Closed structure of optical system prevents foreign objects from entering into it at routine maintenance
- PAPI's actual operation angle can be directly read for daily spot check without opening cover
- Optional control and monitoring kit, remote monitoring of PAPI angles
- Triple leg supporting structure, structural stability, convenient angle adjustment
- Small form factor, strong resisting wind ability, can withstand 320km/h wind load

PAPI been mounted in

- CKG - Chongqing Jiangbei Intl. Airport
- CTU - Chengdu Shuangliu Intl. Airport
- WUH - Wuhan Tianhe Intl. Airport
- KMG - Kunming Changshui Intl. Airport
- CGO - Zhengzhou Xinzheng Intl. Airport
- TAO - Qingdao Liuting Intl. Airport
- CSX - Changsha Huanghua Intl. Airport
- YNT - Yantai Laishan Intl. Airport
- NKG - Nanjing Lukou Intl. Airport
- PAPI been mounted in:
- BTH - Hang Nadim Intl. Airport, Indonesia
- PEK - Beijing Capital Intl. Airport
- PVG - Shanghai Pudong Intl. Airport
- SHA - Shanghai Hongqiao Intl. Airport
- CAN - Guangzhou Baiyun Intl. Airport





Sequential Flash Light System (SFL)

- Meet specifications of ICAO Annex 14, FAA-E-2628 and CAAC AC
- Main control cabinet use double-color LCD to create a good HMI
- Multiple fault prompts will be displayed on LCD panel, such as offline, missing flash
- Voltage range 160-260V, frequency 50 or 60 Hz, Single phase input, support 380V power input by using star wiring
- Lower power consumption, >2.5km power transmission distance with use of 16 mm² cable
- High speed and reliable operation by using CAN between main and unit control boxes
- 485 ports in main control cabinet available, used for communication with control and monitoring system
- Main control cabinet can control different number of light heads, 32 flashing lights at most (2 runway threshold identification lights included)
- System contains lightning protection circuit for effective anti-lightning
- Xenon lamps are triggered by electronic switch on trigger circuit
- Unit control circuit can provide reliable protection; it will cut off power when the unit control box or flasher head is open
- Unit control box has multiple protective circuits, reliable operation

Main Achievements

- | | |
|---|---|
| • BTH - Hang Nadim Intl. Airport, Indonesia | • CGO – Zhengzhou Xinzhen Intl. Airport |
| • PVG - Shanghai Pudong Intl. Airport | • TAO – Qingdao Liuting Intl. Airport |
| • SHA – Shanghai Hongqiao Intl. Airport | • CSX – Changsha Huanghua Intl. Airport |
| • CAN - Guangzhou Baiyun Intl. Airport | • NKG – Nanjing Lukou Intl. Airport |
| • KMG – Kunming Changshu Intl. Airport | • BTH - Hang Nadim Intl. Airport, Indonesia |

LED Guidance Signs

- The face inscription setting, illuminance, uniformity and chromaticity are in accordance with the requirements of ICAO Annex 14
- The front panel can be open freely and closed freely, even be removed. Maintenance and clean are free of tool
- Labyrinth structure inside, to prevent the intrusion of rainwater and dust
- Aluminum alloy frame structure, supporting pole penetrating in sign box, strong and durable, high wind load rating
- Durable stainless steel fasteners
- Polycarbonate panel with UV resistant layer, anti-UV and shock resistant
- Fully withstand 160km/h or 320km/h wind load on guidance sign
- Stable and reliable frangible structure in accordance with FAA requirements through precision machining
- Equipped with tether to further improve safety of product use
- LED light bar with OSRAM chips, long service life, less light source replacement
- Modular design per function, easy to maintain
- Optimized heat dissipation design, ability to work at high temperature; Additional over temperature protection function which increases the reliability
- <50VA/m² at all lighting levels
- Power function≥0.9 at all lighting levels
- Consistent luminance at all brightness steps;
- EMI in compliance with FAA, meet FCC Part15 Class A Standard
- Equipped with reliable lightning protection device
- High insulating reliability, insulation resistance >50Mohms at500V

Main Achievements

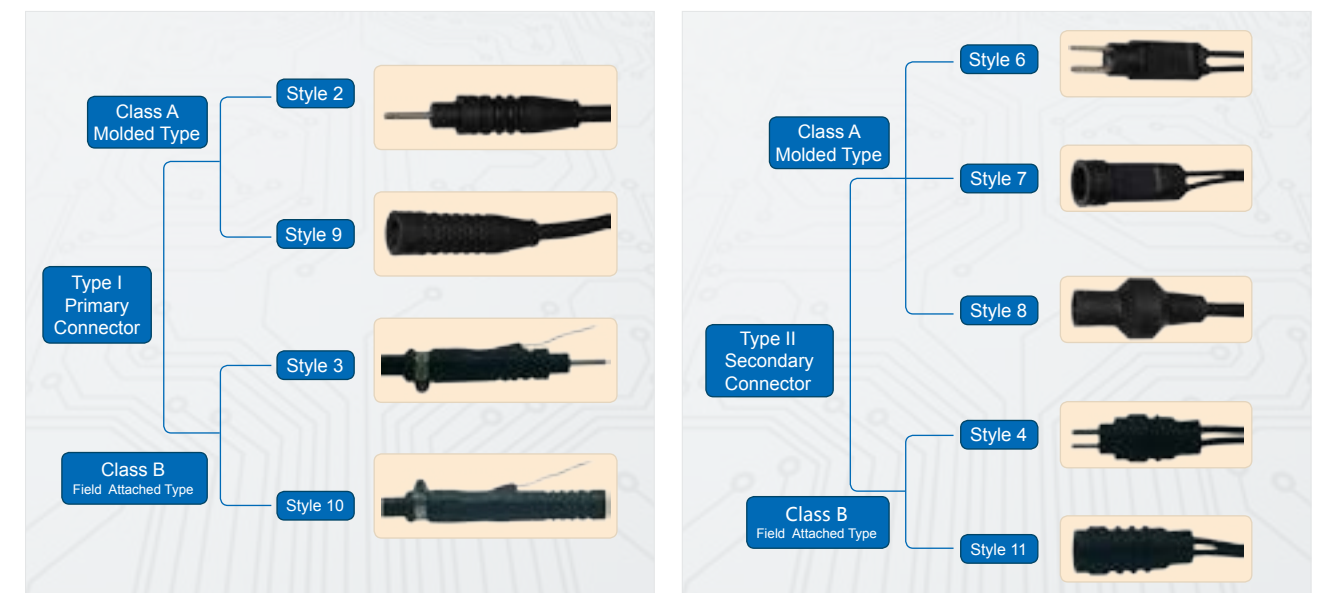
- | | |
|---|---|
| • BEL - Val de Cans International Airport, Brazil | • MXP – Malpensa Airport, Italy |
| • XSP- Seletar Airport, Singapore | • BGY – Bergamo Airport, Italy |
| • MAD –Mardrid Airport, Spain | • BTH - Hang Nadim Intl. Airport, Indonesia |
| • BCN – Barcelona Airport, Spain | • Airports in China |





Isolation Transformers & Cable Connectors

- In compliance with FAA AC 150/5345-47
- Thermoplastic elastomer body, which is high resistance to shock, fatigue, tear strength and high friction function. Good resistance to chemical substances, oils, solvent and weather simultaneously and good performance under high temperature
- Small volume, compact structure, light weight
- Operating temperature range: -55 to 65°C
- Low temperature rising, to ensure operating under high temperature
- Power rate range from 15 W to 300 W
- Designed for universal of 50 Hz and 60 Hz
- Withstand voltage of primary cable connector >15 kV, of secondary cable connectors > 4.7 kV
- Optional grounded type



Cable Connectors

- In compliance with FAA AC 150/5345-26 L-823 plugs and receptacles
- Ergonomics design, easy to plug
- Withstand voltage of primary cable connector >15 kV, of secondary cable connectors > 4.7 kV
- Operating temperature range from -55 to 65°C
- Internal pin/socket adopt nickel plating copper technique with good conductivity
- Molded connectors employ multi-layer molding processing, reliable connection between thermoplastic elastomer, bronze connector and cable, superior in waterproof
- Combined connectors employ multi-layer waterproof structure, equipped with sealing silicone, which has perfect insulation and waterproof performance. Matching sealing silicones is special silicone that is tailored for cable and thermoplastic elastomer with no untoward effects of accelerated aging and hardening with the material
- Combined primary cable connectors with protective ground wiring



Precision lighting Photometric Testing System

PTS-200 precision Lighting Photometric Test System is an airport lighting intensity and chromaticity testing system which is an essential tool for airport safely operation.

The goniophotometer is compact and easy to operate. The range of test objectives covers the most types of elevated and in-pavement lights from locals and abroad. The system automatically generates various types of test reports that can be exported freely.

Features

- Compact photometric test system with an appropriate constant current mini-CCR
- High precision photometric probe, automatic range conversion, resolution correctable
- Special-made long boot light shield, to prevent redundant external light from entering into sensor
- “Cradle” motion structure to achieve point by point testing
- High resolution test data, real and reliable
- Test intensity and chromaticity simultaneously and provide appropriate reports
- Equipped with photometric test software with friendly interface, providing all the data for verification including intensity and chromaticity
- Integrated with all photometric requirements from FAA and ICAO standards and support a wider range of lights
- Provide test modes as precision test with low speed, coarse test with high speed, and five points empirical test
- Testing range and speed adjustable
- Add, delete or edit testing report function available
- Database provides preview of report document and light test data statistics

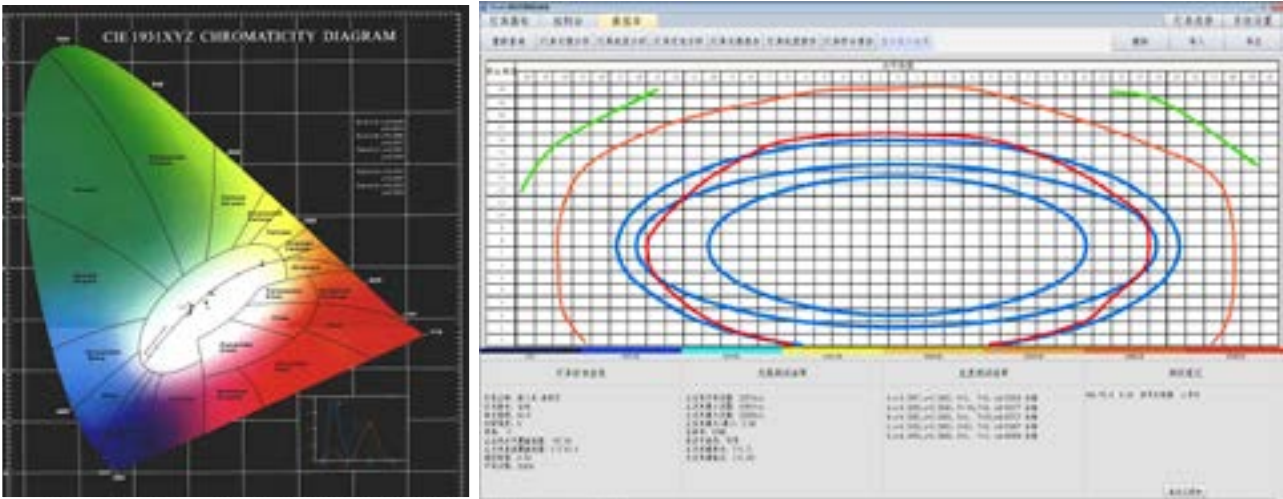


Precision Digital Lux Meter

In application for measuring tri-stimulus values, chroma, chromatic aberration, color temperature and illuminance
 Type: CL-200A
 Made by MINOLTA
 Made in Japan
 Test range: 0.1 to 99,990 lx
 Resolution: 0.1
 Sampling rate: 0.5 second (continuous measurement)
 Accuracy: $\pm 2\% \pm 1$ decimal of display value
 Dimension: 69×174×35mm

Photometric Testing System been used in

- Civil Aviation University of China
- Shanghai Pudong Intl. Airport
- Shanghai Hongqiao Intl. Airport
- Chengdu Shuangliu Intl. Airport
- Chongqing Jiangbei Intl. Airport
- Zhuhai Jinwan Intl. Airport
- Shenzhen Baoan Intl. Airport
- Xi'an Xianyang Intl. Airport
- Jieyang Chaoshan Airport
- Shijiazhuang Zhengding Intl. Airport
- Hefei Xinqiao Intl. Airport
- Changzhou Benniu Airport
- Nantong Xingdong Airport
- DazhouHeshi Airport



Main References

- LCG – La Coruna Airport, Spain, 2015, TGS and taxiway lights
- GRO – Girona Airport, Spain, 2015, taxiway lights
- MAD- Madrid Airport, Spain, 2016, TGS and Shallow bases
- BCN – Barcelona Airport, Spain, 2016, TGS and taxiway lights
- VLC – Valencia Airport, Spain, 2016, TGS
- LPA – Gran Canaria Airport, Spain, 2016, TGS
- SCQ – Santiago de Compostela Airport, Spain, 2016, TGS and LED holding position lights
- PMI – Palma de Mallorca Airport, Spain, 2016, TGS and taxiway lights
- SVG – Stavanger Airport, Norway, 2015, shallow bases
- MXP – Malpensa Airport, Italy, 2015, taxiway lights and TGS
- BGY – Bergamo Airport, Italy, 2016, TGS
- SKG – Thessaloniki Airport, Greece, 2016, RTIL
- SIN – Changi Airport, Singapore, 2014, TGS
- SIN – Changi Airport, Singapore, 2015, aircraft identification signs
- XSP – Seletar Airport, Singapore, 2010 to 2012, TGS
- BTH - Hang Nadim Intl. Airport, Indonesia, 2015 & 2016, runway end lights, PAPI, SFL, TGS, wind cone
- VTE – Vientiane Wattay Intl. Airport, Laos, 2012, SFL
- Thailand, 2012, taxiway lights
- Bangladesh, 2015, isolation transformers
- Columbia, 2014 to 2015, runway and taxiway lights
- Brazil, 2015, TGS
- LAD – Luanda Airport, Angola, 2012 to 2013, runway and taxiway lights, SFL
- FIH – Kinshasa Intl. Airport, Congo, 2011, runway and taxiway lights, TGS
- LFW – Lome Airport, Togo, 2015, Taxiway lights
- Ballela New Airpot, Sudan, 2008 and 2013, PAPI, runway and taxiway lights, isolation transformers
- In 2016, tender won in LBA - Leeds Bradford Airport, UK, all range of LED approach, runway and taxiway lights would be provided in 2017





Beijing Daxin Intl. Airport (in construction)

Project Name

Beijing New Airport Airfield AGL and power supply engineering project
Category: 4F Intl. Airport for both civil & military use

Project Time

From 2015 to 2019

Airsafe supplies fully AGL equipment to 4 runways as below

- SFL, 7 sets, 192 units
- PAPI, 7 sets, 28 units
- Elevated Approach Light, 1,618 pcs (including 332 pcs LED)
- Inset Runway Lights, 1,936 pcs (including 466 pcs LED)
- Elevated Runway Lights, 768 pcs (including 117 pcs LED)
- Inset LED Taxiway Lights, 23,338 pcs
- Elevated LED Taxiway Lights, 3,204 pcs
- Taxiway Edge Reflectors, 2,027 pcs
- Elevated Runway Guard Light, 64 pcs
- Obstacle Light (Solar Power), 5 pcs
- Wind Cone, 8 pcs
- Aircraft Identification Sign & Triangle Aircraft Docking Sign, 300 pcs

Airport Brief Introduction

Beijing Daxin Intl. Airport is designed as massive international aviation integrated transport hub. In long term (in 2040), terminal of 1.4 million square meters and seven runways would be built in order to cover passenger throughput of 100 million, aircraft take-off/landing of 800 thousand times per year. The airport reserves total nine runways to cover passenger throughput of 120 million and aircraft take-off/landing of 1 million times per year.

The principal part of the project covers an area of the airport in Beijing. It is the 3rd civil airport in Beijing, the other two is Beijing Capital Intl. Airport and Beijing Nanyuan Airport (will move).

The first stage of the construction is about 27 square kilometers land scale, four runways for civil airline, one runway for civil and military (for Nanyuan Airforce Base), terminal of 700 thousand square meters, and 92 aircraft bridge.

The airport construction began on 26th Dec 2015 and the airport is scheduled to open in 2019.



Shanghai Pudong Intl. Airport

Project Name

The fourth runway construction of Shanghai Pudong Intl. Airport
(Matching Project of China's Large Aircraft Manufacturing Base)

Project Brief

In order to implement the strategic decision of developing large aircraft industry for China, the site for assembly and test base is selected next to the south end of Shanghai Pudong Intl. Airport with a new fourth runway. The fourth runway will be temporarily used for flight-test of China-made large aircraft C919. As one of the best airport in china, Shanghai Pudong Intl. Airport is unfailing in its commitment to high standards of quality. Through strict qualification examination, three famous international manufacturers were invited to tender. Finally Airsafe won the bidding after fierce competition. Airsafe supplied all the lighting fixtures on the runway with a total number of 5500.

Project Time

2012 ~ 2014

Products Ordered

Approach lights series, including sequence flashing light, PAPI, runway and taxiway light series as well as wind cones etc.

Airport Brief Introduction

Shanghai Pudong International Airport is located in Pudong New Area, Shanghai, China. The airport occupies a 40-square-kilometre (9,900-acre) site adjacent to the coastline in eastern Pudong. Pudong Intl. Airport, along with Beijing Capital Intl. Airport and Hongkong Intl. Airport are called China's three biggest International hub airports. Its international passenger throughput Ranks first domestically, while its cargo throughput places the third worldwide. Pudong Airport hosts 60 Chinese and foreign airlines which cover more than 90 international (regional) cities and 62 domestic cities. By 2016, Shanghai Pudong Intl. Airport will have 5 runways.

Airport Basic Information

Shanghai Pudong Intl. Airport

- 4F Civil Airport
- Qty of Runways: 4 (fifth runway in construction)
- IATA Code: PVG; Qty of Parking Places: 218; Qty of Jet Bridges: 70
- Flight Movements: 480,000 flights (2016), 1,300 flights average daily (2016)
- Passenger Throughput: 65,982,100 (2016)
- Cargo Throughput: 3,425,300 tons (2016)



Airsafe in Asia

Singapore SIN – Changi Intl. Airport

Project Name and Time

Changi Intl. Airport east and west cargo zone reconstruction project
2015 ~ 2016

Project Brief

SIN reconstructed all the airfield lighting equipment for east and west cargo zone, Airsafe

Supplied Products

- 54 pieces of LED aircraft stand identification signs.
- 32 pieces of LED taxiway guidance signs

Airport Brief Introduction

Changi Airport is the primary civilian airport for Singapore. SIN is the 18th busiest airport in the world, and is the main transportation hub of Asia. SIN is noted for its high quality service and safety. Changi Airport is ranked as the only five star airport in the world in the star ranking list of the international airports by Skytrax

Indonesia BTH –Hang Nadim Intl. Airport

Project Name and Time

Hang Nadim Intl. Airport Airfield lighting Reconstruction Project
2015 ~ 2016

Project Brief

This reconstruction project consists of two phases, first phase is to replace taxiway guidance signs, and second phase is to replace the PAPI and SFL.

Products Ordered

- | | |
|---------------------------------|---------------------|
| • LED Taxiway Guidance Sign | • PAPI, 8 units |
| • Elevated LED Runway End Light | • Wind cone, 2 sets |
| • Sequential Flash Light, 1 set | |

Airport Brief Introduction

Hang Nadim International Airport is located in Batam, Riau Islands, Indonesia. And it is a only airport of this island. It has been the primary method of transport to and from Batam, and also the gateways to neighboring islands (including Singapore). Hang Nadim international airport has the longest runway (4,000 m) in Indonesia, sufficient for wide body aircraft Boeing 747, 777 and Airbus A380.



Airsafe in Europe

United Kingdom LBA – Leeds Bradford Intl. Airport

Project Name and Time

Light Emitting Diode (LED) fittings For AGL
2017 (tender won in 2016)

Project Brief

Airsafe is awarded of the runway reconstruction project of Leeds Bradford International Airport to supply all the LED in-pavement and elevated LED lights for entire runway

Products Ordered

- Elevated LED Approach Light
 - LED Runway Centerline Light
 - Inset LED Approach Light
 - LED Touchdown Zone Light
 - Elevated LED Runway Edge Light
- Inset LED Taxiway Edge Light
 - Inset LED Runway Edge Light
 - Inset LED Stop Bar Light
 - Inset LED Runway End Light

Airport Brief Introduction

Leeds Bradford International Airport is located at West Yorkshire in the City of Leeds It serves as the hub between the cities of Leeds and Bradford, as well as the, and is the largest airport within Yorkshire.

Italy MXP –Milan–Malpensa Airport

Project Name and Time

Airport taxiway reconstruction project
2015 ~ 2016

Project Brief

Airsafe supplied over one thousand LED taxiway centerline lights and over 100 taxiway guidance signs for this taxiway reconstruction project

Products Ordered

- LED Taxiway Guidance Sign, 56 pcs
 - LED Middle Holding Position Light
 - Inset Runway Edge Light
- LED Apron Light
 - LED Taxiway Centerline Light, more than 1,000 pcs

Airport Brief Introduction

Milan–Malpensa Airport, is one of the three international airport of Milan, located at Varese, 49 kilometers to the city center. And it is the largest international airport of the Milan metropolitan area.

Future Prospect

Looking to the future, innovation and development are still the main melody of Airsafe. Quite a long period of time in the future, it keeps momentum of rapid development of airports construction in China. This brings airsafes great opportunity and growth based on the local market.

Airsafe will continue to upgrade our products and further improve the reliability of the product functional. Airsafe will keep developing our product range, and will keep providing our customers with a full range of brand services.

Airsafe will continue our efforts to improve the brand value, efforts to expand the international market, improve our sales system, and make ourselves into a competitive international famous brand in airfield ground lighting industries.



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Airsafe Airport Equipment Co., Ltd.

Address: Room 27AB, No. 309 Tanggu Road, Shanghai
200080, China

Tel: +86(21) 53540453-301

Fax: +86(21) 63643114

E-mail: sales@airsafe.com.cn

Website: www.airsafe.com.cn

