



Airfield Lighting Services

About Us

Friars Marketing have been supplying airfield ground lighting and commercial lighting goods and services to customers worldwide for over a decade. From our two strategic locations in Market Harborough and Coventry (UK) we continue to provide the best technical support and advice to airport and commercial clients.

Client List

- Aqualuce • Belfast City Airport • Belfast International Airport • Blackpool Airport • Birmingham Airport • Bournemouth Airport • British Aerospace • British Airports Authority – BAA • Cambridge Airport • Carlisle Airport • Cork Airport • Coventry Airport • City of Derry Airport • Cranfield Airport • Eutex inc (Houston) • Doncaster Sheffield Airport • Exclcd • Exeter Airport • Galway Airport • Gem A • Gloucester Airport • Goodwood Aerodrome • Indutec • International Lamps • Jersey Airport • Kenyan Airports Authority – KAA • Knock International Airport • Leicester Aero Club • Leeds Bradford International Airport • Lightplan • Liverpool John Lennon Airport • London City Airport • London Luton Airport • Manchester Airport • Mitel Broadband • Norwich Airport • East Midlands Airport • Oxford Airport • PCA – Saudi Arabia • Plymouth City Airport • Qinetiq – Estates Management • Ronaldsway Airport – Isle of Man • Ruby Electrical Trading • Sartra International • Shannon Airport • Sligo Airport • Speirs and Major Associates • States Airport – Guernsey • States Airport – Guernsey for Alderney • Teesside International Airport • Thorn Airfield Lighting Group • Turkish MOD • Valencia Airport • Waterford Airport • West London Aero Club •

European and American Airfield Lamps

We supply every type of European and American airfield lamp used in current and obsolete fittings and have gained an excellent reputation within the airfield ground lighting industry as a leading supplier and stockist of airport lamps.

We keep prices low and provide a quick delivery ensuring complete customer satisfaction.

Our airfield lamp range includes: • Osram • Philips • ADB • Thorn • GE • Etc.

We also supply lamps for use in: • Terminals • Car Parks • Roadways • Maintenance Areas •

Obstruction Lighting

We supply a complete range of airfield obstruction lights, complimented by the latest LED versions covering all applications including: Airports • Heliports • High Buildings • Bridges • Masts • Cooling Towers •

Our range incorporates low and medium intensity, steady and flashing systems, high intensity airfield rotating beacons and solar powered obstruction lighting.

Our experienced staff can offer technical assistance to help you understand the relevant specifications and guidelines set out in • FAA • ICAO • CAP168 •

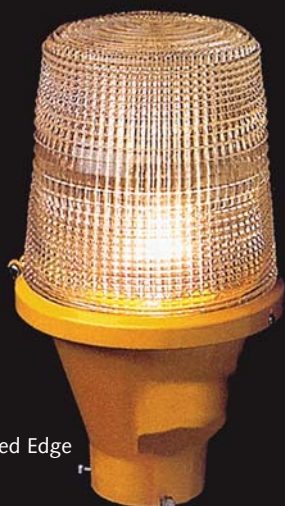
We can independently recommend the most suitable and cost effective fitting that is best suited to your requirement.

Apron lighting

At night or in bad visual conditions, the edges of the airfield apron and taxiways must be lit using blue lights. However, retro-reflective edge markers may be used in place of blue lights where the CAA is satisfied that safety will not be compromised.

We can supply all relevant airfield ground lighting equipment, both inset and elevated including LED versions, high intensity discharge lamps, luminaires and control equipment.

Liaising closely with one of the world's largest luminaire manufacturers we offer a complete lighting solution, including calculation of light intensity and spread.



Elevated Edge Light



Taxiway Guidance Sign



IR Coated Airfield Lamp

Cables and Connector Kits

We are able to supply an extensive range of airfield cable and connector kits for both civil and military use, including:

- Primary AGL Cable Shielded and Unshielded
- 2 Core Secondary Cable
- Secondary Single Core AWG
- Multi-Core Control Cable (50V DC)
- HV Cable (and Joints)
- Primary Connector Kits for Shielded and Unshielded Cable
- Secondary Connector Kits for Single and 2 Core Cable
- Moulded pre-cut Secondary Leads
- Primary through Joints (Heatshrink type) for Shielded and Unshielded Cable
- Secondary through Joints (Heatshrink type)

Inset Fittings

We are able to specify and supply airfield inset fittings, including LED versions from all leading manufactures.

Airfield Applications include:

- Approach • Runway Threshold • Runway End
- Runway Centre Line • Runway Touchdown Zone
- Runway Edge • Threshold Wingbars • Apron Edge
- Stopbar • Taxiway Centre Line • Taxiway Edge •

All inset fittings comply with the relevant following standards:

ICAO: Annex 14 Volume 1 Paragraphs 5.3.10 and 5.3.11 for CAT 1, 2 and 3 usage • FAA: L-850A • L-850B • L-850C • L-850D • L-850E • AC 150/5345-46B • CAP 168 • BS 3224 •



50cd LED Obstacle Light



Low Visibility Sign

2000 CD Obstacle Light



Elevated Fittings

We are able to specify and supply airfield elevated fittings, including LED versions, from all leading manufactures.

Airfield Applications include:

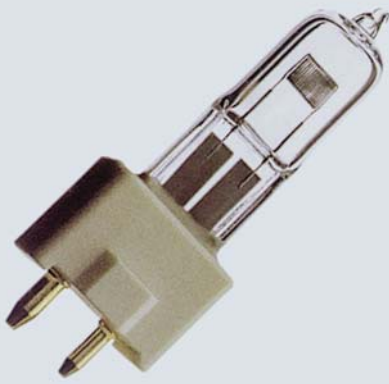
- Approach inc Centre Line • Crossbars • Side Row Barrettes • Runway Threshold • Runway End • Threshold Wing Bars • Stop Bar • Runway Edge • Stopway • Taxiway Edge • Apron Edge • Heliport Approach •

All elevated fittings comply with the relevant following standards: ICAO: Annex 14 Volume 1 Paragraphs 5-3-3 • 5.3.6 • 5.3.7 • 5.3.8 • 5.3.9 • 5.3.10 • 5.3.11 • 5.3.14 • 5.3.16 • 5.3.17 • FAA: L-860 • L-860E • L-862 • L-861T • E-982 • CAP 168 • BS 3224 Part 4 •

Airfield Signs

Friars Marketing have the ability to specify, design, and manufacture a complete range of airfield runway and taxiway guidance signs, both internally lit and retro-reflective.

We have been commissioned by several major international airports to develop airfield low visibility warning signs. These signs assist in the control of airside movements of pedestrian and vehicle traffic. Working with airports we have developed and produced an internally lit warning sign equipped with 2 x high intensity strobe lights that are extremely conspicuous. The face legend can be configured to suit individual requirements.



IR Coated Airfield Lamp

Taxiway Guidance Sign



(REILS)



Transformers

Encapsulated isolating transformers are used in airfield ground lighting constant current series circuits for approach, runway, taxiway and other airport lighting systems. Airfield transformers isolate low voltage lamps from the high operating voltages of the series circuit and ensure circuit continuity in the event of lamp failure.

Applications include:

Isolating transformers and TSR (constant voltage) transformers in compliance with • FAA AC 150/5345-47 • L-830 • L-831 • for both civil and military use • 6.6/6.6Amp • 12/6.6Amp • 20/6.6Amp • Isolating Transformers with wattage ranges of • 30/45W • 65W • 100W • 150W • 200W • 300W • 500W •

Airfield Current Control

CCRs supplied by Friars Marketing are used to generate and control a constant current for airfield ground lighting series circuits, depending upon the brightness choice.

These Regulators comply with ICAO: Aerodrome Design Manual part 5 • Electrical systems paragraphs 3.2.1.4 through to 3.2.1.6 • FAA: type 828 and 829 • AC 150/5345-10 E.

We supply the full range of digitally controlled and regulated CCRs and the latest Sine Wave versions from ADB, Thorn, Idman and ATG.

Airfield Filters and Prisms

We have developed a range of high temperature glass, which is proving to be extremely successful for the production of coloured airfield filters for a variety of airfield lighting runway and taxiway fittings.

Friars Marketing filters offer: Long life due to high quality materials and manufacturing • Excellent thermal and colour characteristics • Cost effective compared with OEM prices • Colours available: • Blue • Green • Red • Yellow •

Environmental Awareness:

We now offer airfield lens refurbishment. Your lenses can be collected, re-ground and returned to you within a few days – reducing the cost of maintenance and helping to lower CO² emissions as fewer new lenses will be required.

Wind Direction Indicators

Wind direction indicators are used to provide visual surface wind direction and velocity information to pilots in flight or on the ground at airports and heliports.

For many years we have been supplying illuminated and non-illuminated wind direction indicators (wind socks/wind cones) to:

- Airports • Flying Clubs • Shipping Ports • Heliports • Oil Rigs and Vessels • Commercial Installations •

All our equipment is in compliance with the current regulations set out in • FAA • ICAO • CAP168 •

PAPI Calibration and Repair

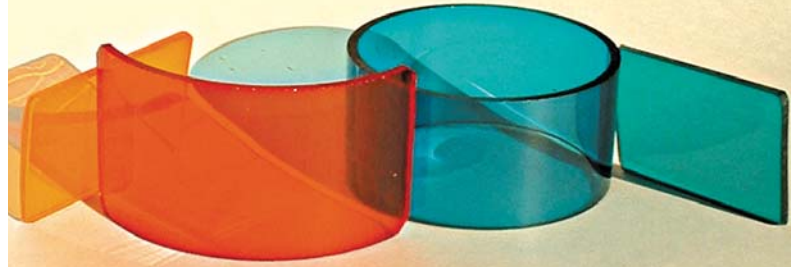
We provide an airfield PAPI inclinometer calibration and repair service and have invested in our own Research Engineers Optical Bench. We calibrate and repair RE PAPI and offer an on-site or at our own premises service. We offer an exchange service on RE projectors.

Calibration Contracts: Spreading costs throughout the year on a calibration contract saves you money. Scheduling your requirements will enable us to save you time as we can forward plan your needs and give you fast turn around schedules.

Instruments: All types of instrumentation, mechanical, electrical and optical, can be calibrated, repaired and certified to U.K.A.S. and N.A.M.A.S standards.



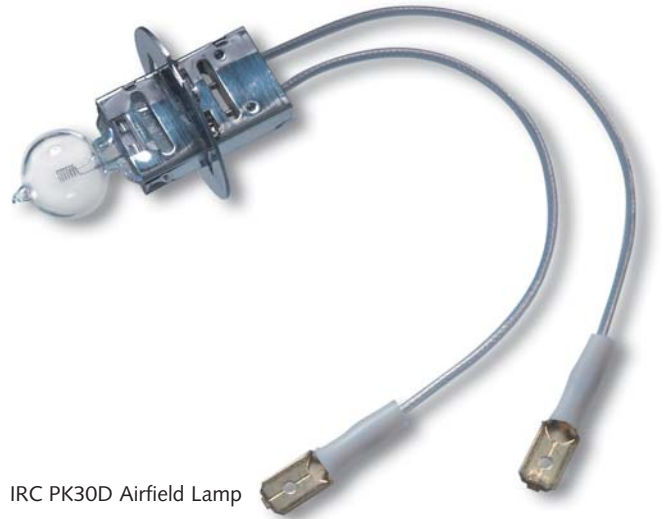
TH Bi-Pin Lamp



Glass Filters



Illuminated Windsock



IRC PK30D Airfield Lamp



Standard PK30D Airfield Lamp



Isolating Transformer



Wheelchock



TH Airfield Lamp

 **FriarsMarketing**



Commercial Lighting Services

If you would like to receive a copy of our '**Commercial Lighting Services**' brochure,
please contact us at the address shown below.

Friars Marketing Limited | 25 Audley Close | Market Harborough | Leicestershire | LE16 8ER | England

T +44 (0) 1858 463153 | **F** +44 (0) 1858 468232 | **M** +44 (0) 7747 607414

E nick@friarsmarketing.com | sales@friarsmarketing.com

Visit us @ www.friarsmarketing.com