

PAC Photometric Airfield Calibration

Mobile Light Measurement of Airfield Lighting System



- o Verification of compliance to ICAO or FAA standards of runway and taxiway lights, including inset or elevated
- o Reliable and precise equipment for maintenance
- o Worldwide references and customer satisfaction

Commissioning of New Installations and Preventive Maintenance



Annex 14, Volume I, recommends regular measurements of light intensity of Airfield Lighting Installations, at least twice a year with a Civil Aviation Certified device.

- Since October 2003, airports have to submit compliancy report of their installations against the ICAO standards. (Amendment n°5 to Annex 14)
- Since April 2005, the FAA has signed the new revision of AC 150/5340-26A -Maintenance of Airport Lighting - requiring photometric testing once a month for runway lighting.

This officialises the requirement for a preventive Maintenance system for Airfield Lighting that meets the safety regulations. It has to be regularly monitored to ensure that it meets ICAO standards.



www.icao.int



www.faa.gov



A complete range of airfield lighting products

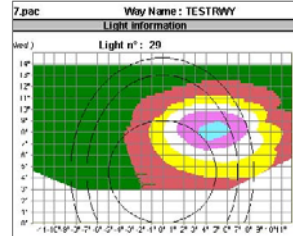
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Optimising maintenance works and stocks



PAC is a mobile system for evaluating all inset and elevated lights. The test report provides the candela value of each light, and identifies any defect requiring action to be taken. It also makes it possible to monitor lamp ageing from previous runs so that all the results for a runway or taxiway can be compared.



This enables the airfield lighting department to plan its operations and manage its stocks as efficiently as possible. If the lamp is not defective although the system indicates a low intensity, the identification facility guides the search and thus optimises maintenance operations.



Operation of the PAC system



The system is installed on the front of a standard vehicle. Measurements are made in real time as the vehicle travels over the lights at a speed up to 60 km/h.

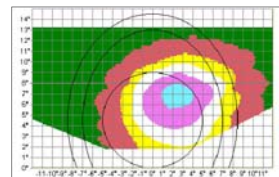


The luminous intensity detected is fed to a data processing program which stores and processes several thousand values for each light.

This technique provides the average intensity of the main beam in candelas, its maximum intensity, as well as the colour and elevation settings of the lights.



PAC can be used to evaluate any light source shining on its surface giving an illumination of more than 10 lux.



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Alignment Control

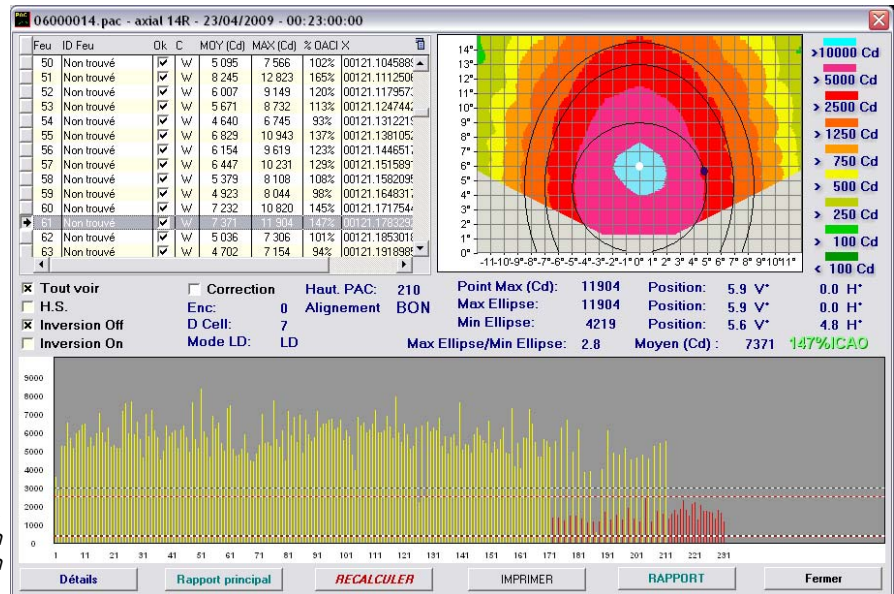


In order to ensure the best alignment, the driver looks at a video monitor fed by a camera fitted on PAC strip



Certification and calibration

Each unit manufactured by FB Technology is calibrated and certified on the basis of a specification drawn up by the S.T.N.A. (Technical services - French Directorat Civil Aviation Authority)



Fitting Id., elevation, maximum and minimum average, isocandela diagram

Technical data

Description of the supply

The system is supplied in a carrying case :

- 1 • The measurement strip
- 2 • The electronic processing interface box
- 3 • The distance measurement device
- 4 • The PAC software installed on a PC.
- 5 • Operator manuel
- 6 • Training



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Technical data

Installation

The system can be installed on any vehicle.
 The customer can have this done by FB Technology or can do it himself, in which case he must have his installation checked by a FB Technology engineer.
 The distance measuring device is mounted on the side of the vehicle.
 The electronic unit is enclosed in a protective carrying case and fitted in the vehicle.



Operating conditions

Operation by night : yes
 Displacement speed : up to 60 km/h
 Measurement range : up to 30.000 candelas
 Weather condition : dry, wet surface



Options

BETA (dgps) : Identification of each light fitting, using GPS coordinates.

Guarantee and calibration

The system is supplied with a full 1-year guarantee.
 After the guarantee period, a maintenance contract is required to cover yearly calibration and software updates.

References

PAC

Belgium : Charleroi, Liège, Brussels
 China : Beijing Capital, Guangzhou
 Finland : Helsinki, Rovaniemi, Oulu
 France : Lyon St Exupery, Marseille, Nice,
 AGL contractor
 India : AGL contractor
 Greece : Thessaloniki
 Ireland : Dublin, Cork, Shannon
 Italy : Albenga, Bologna, Cuneo, Forli, Genova,
 Parma, Turino, Milan Malpensa,
 Milan Linate
 Romania : Bucarest
 Norway : Oslo Gardemoen
 Sweden : Stockholm Arlanda, Goteborg/Malmö
 UK : Belfast
 USA : Atlanta Hartsfield

PAC

Korea : Seoul Incheon
 Peru : CORPAC
 Spain : AENA, AGL contractor
 UAE : AGL contractor
 Hong-Kong : Chek Lap Kok
 Portugal : Lisboa
 Singapore : Changi
 France / Switserzland / Germany : EuroAirport

PAC Lab

Belgium : Charleroi, Liège
 Greece : Thessaloniki
 France : Marseille
 Hong-Kong : Chek Lap Kok
 Korea : Seoul Incheon
 Portugal : Lisboa
 UK : Belfast

All our products are compliant with ICAO, FAA, STNA standards and recommendations.