

FB TECHNOLOGY

World Leader in Airfield Photometry

PAC³ V5

Photometric Airfield Calibration



**Have a project, need some advice ?
Contact our team.**

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International regulations are very strict



Civil Aviation Authorities have set standards and recommended practices regarding the performance and serviceability of Aeronautical Ground Lighting. The requirements are numerous and precise, testing the photometry of the lights has become essential to ensure safety in all airports.

Airports technical teams have less and less time

The need for fast & reliable Airfield Photometric system is crucial. However, most of the mobile airfield photometric systems on the market require time and a lot of training. Acquiring a bi-directional measurement equipment enables to reduce the measurement time by at least 50%.

Using PAC² V5, you can make sure all your airfield lights are in compliance with the ICAO and FAA standards and recommendations

Why should you perform photometric testing ?



October 2003

Since October 2003, airports have to submit compliancy report of their installations against the ICAO/FAA standards. .

In the recent years

In the recent years, almost all Civil Aviation Authorities have changed the rules of the Maintenance of Airport Lighting by stressing the requirement of frequent photometric testing up to once a month for runway lighting.

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



Optimizing maintenance works & stocks

PAC² V5 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. Using a D-GPS, it is also possible to monitor the light source ageing or prism dirtiness 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 maintenance operations and manage its stocks as efficiently as possible. If the light source is not defective although the system indicates a low intensity, the report includes GPS identification that will ease the search and thus optimise maintenance operations.







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Check the PAC² V5 video

EFFICIENT . RAPID . PRECISE



Operation of the PAC²V5

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

The luminous intensity detected by the sensors strip is fed to input / output modules that are connected to a programmable logical controller installed inside the sensors strip.

The PLC allows for industrial grade data collection. Then the data are sent through a router via WiFi or via an Ethernet cable to a portable computer or a tablette operated by the users inside the vehicle. Up to 65 000 samples can be recorded for each light fitting with no limitation of number of fittings.



THE ADVANTAGES



High accuracy
& precision



Easy to use



Reduce
measurement
time by 50%



Less waiting time
for ATC clearance



Automatic



Measurement of inset &
elevated lights



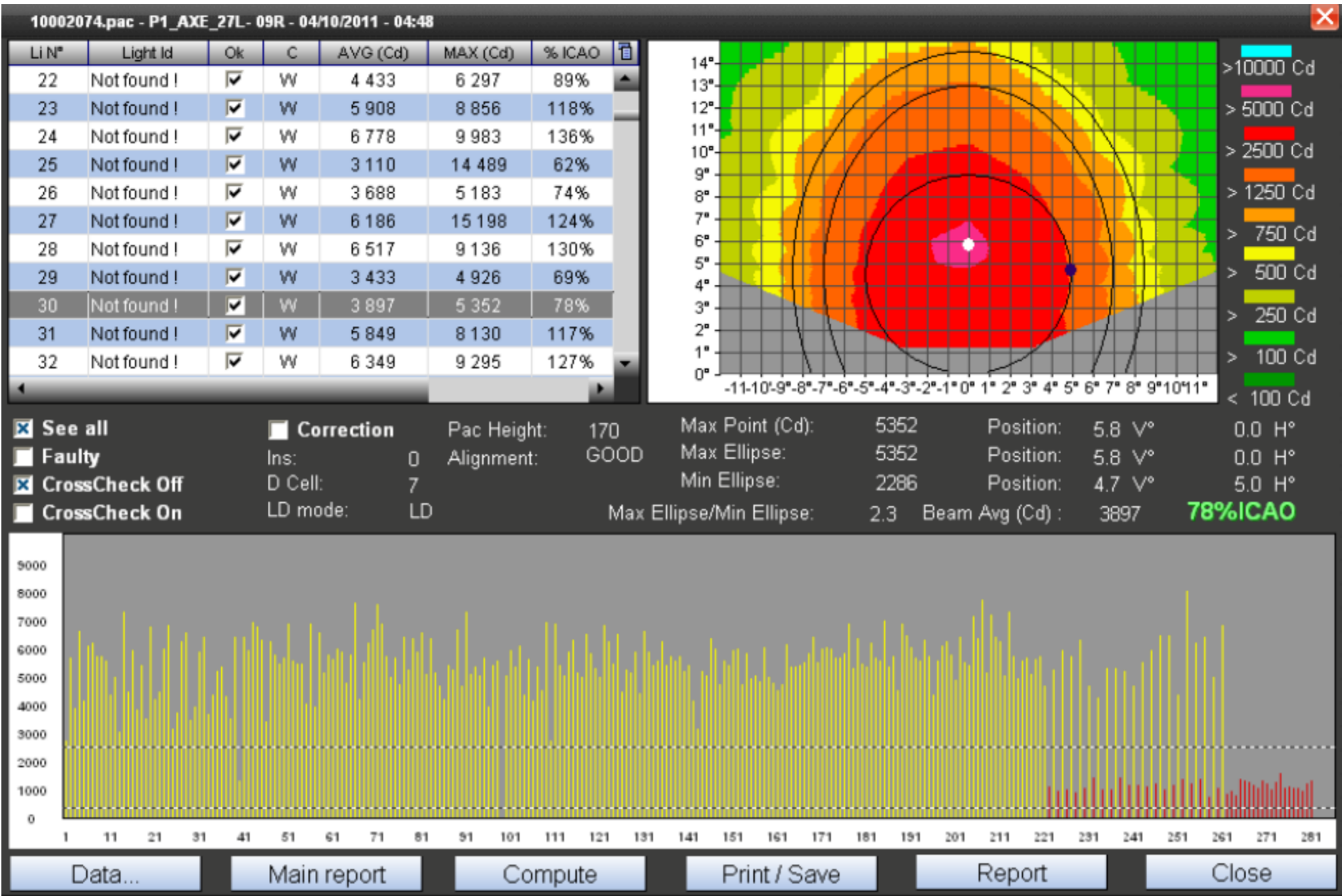
Measurement
records

Alignment Control

In order to ensure the best alignment, the driver looks at a video monitor fed by a camera fitted on the PAC² V5 strip. Video images are sent to the monitor through the embedded router via WiFi.



Reporting



Typical report provided by the PAC² V5 system:
Fitting Id., compliance, color, candela average, maximum candela, percentage in reference to ICAO or FAA standards.

Certification & Calibration

Each unit manufactured by FB Technology is calibrated using a NIST traceable reference light source for quality control.

The PAC² V5 system has been certified by the Italian Civil Aviation Authority (ENAC).





Description of the supply

The system PAC² V5 of FB Technology is supplied as follows:

Hardware supplied in a dedicated carry cases:

- a) The measurement strip;
- b) The distance measuring device, video monitor, WiFi antenna, optional. D-GPS and necessary cables and accessories;
- c) The power supply Pelicase®;
- d) The metallic frame for installation of sensors strip on any vehicle.

The PAC² V5 software installed on a laptop.

Only the power supply and radar cables go to the sensors strip box, no cables running inside the vehicle except an Ethernet cable if WiFi communication is not possible between the strip and the laptop due to Airport Rules or constraints

Cat in option



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. This can be done during the Training & Commissioning session.

Operating Conditions

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



THEY USE OUR PAC² V5

China, Beijing



Singapore, Changi



Switzerland, Geneva



USA, Atlanta Hartfield



Other Products



MARC ONE

Autonomous robot for
photometry & maintenance



PAC π

PAPI lights measurement
system



PAXIGN

Chromatic & luminance
signs measurement



SoDICE

Cleaning light equipment



PAC APRON

Measure the lux values of
the apron floodlighting

FB Technology

PAC² V5 - Brochure



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