

# FB TECHNOLOGY

*World Leader in Airfield Photometry*

## PAC Apron Apron Floodlighting Measurement



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



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# The Challenges of Apron Lighting

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The apron areas are the delimited places on airfields where the planes park, load and unload baggage, catering, cargo and passengers.

These areas need to be lit effectively to facilitates the final moves for aircraft pilots. It also increase the quality of maintenance by comfortable vision conditions for attending personnel.

A regularly maintained apron lighting is necessary to :

- assist the pilot parking the plane
- maintain security at all times
- perform all the usual tasks

## Stict rules have to be followed

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The international authorities stated requirements for all apron lights of world airports. It is necessary for all airport to obtain the following ICAO, EASA and EN 12464-2 standards and recommendations. To do so, it is essential for all airports to invest in an apron lighting measurement system in order to gain time and provide safety on apron areas.





## Introducing the PAC Apron

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The PAC Apron is an embedded lighting measurement system that will allow airports to accurately measure the lux values of the apron floodlighting.

The system is made of:

- A supporting frame that can be installed at the rear of any vehicle;
- A group of lux sensors adequately positioned in order to acquire lux data as per the International Standards requirement;
- A dedicated GPS-RTK system that allows for 1 to 2 cm precision of the displacement of the vehicle on the apron area to be measured;
- The laptop or tablette PC to manage the measurements, store the data and then display/ print the measurement reports;
- Communication equipment between the different modules;
- The necessary power supply with back-up taken from the vehicle own 12Vdc supply.







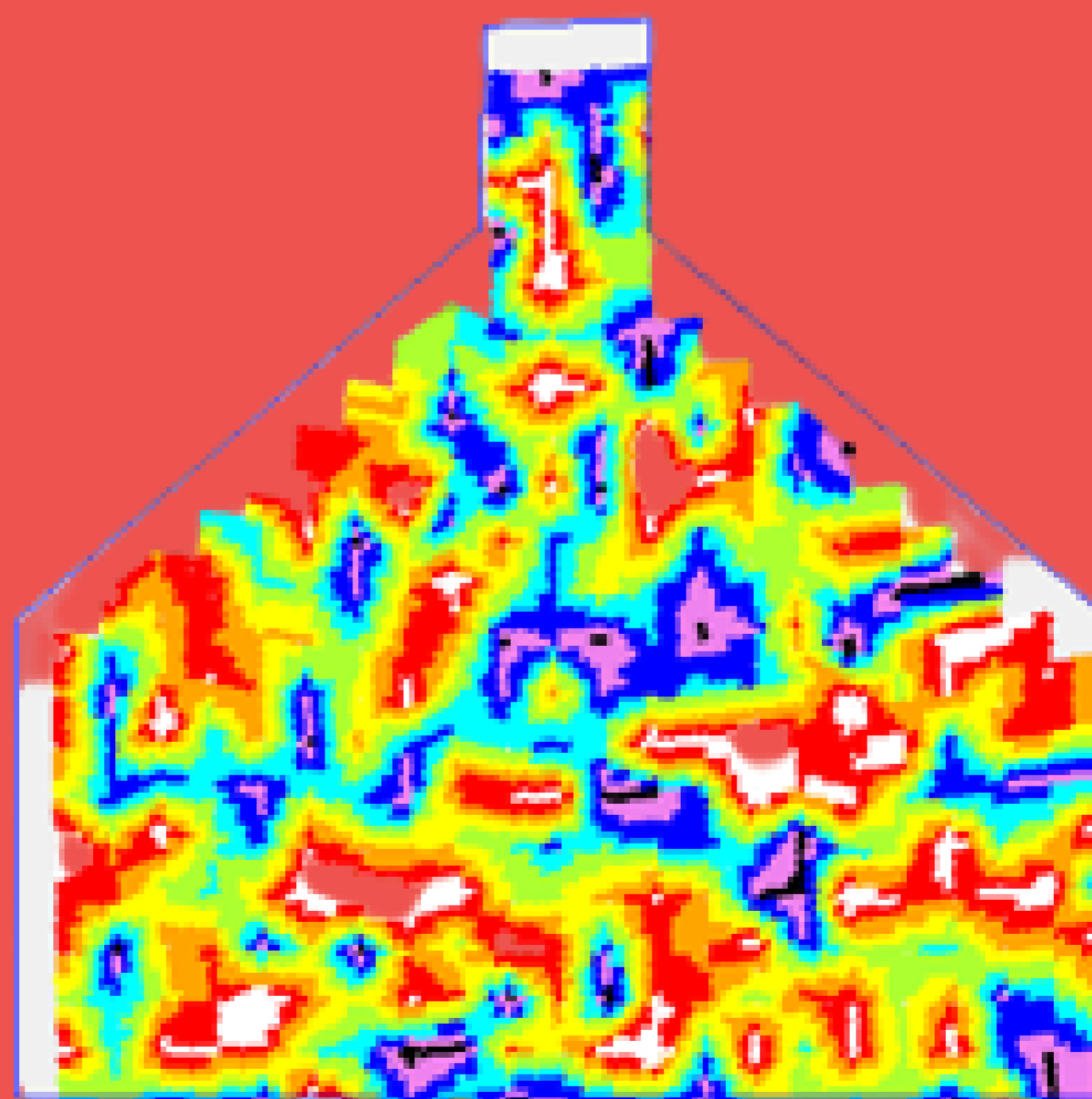
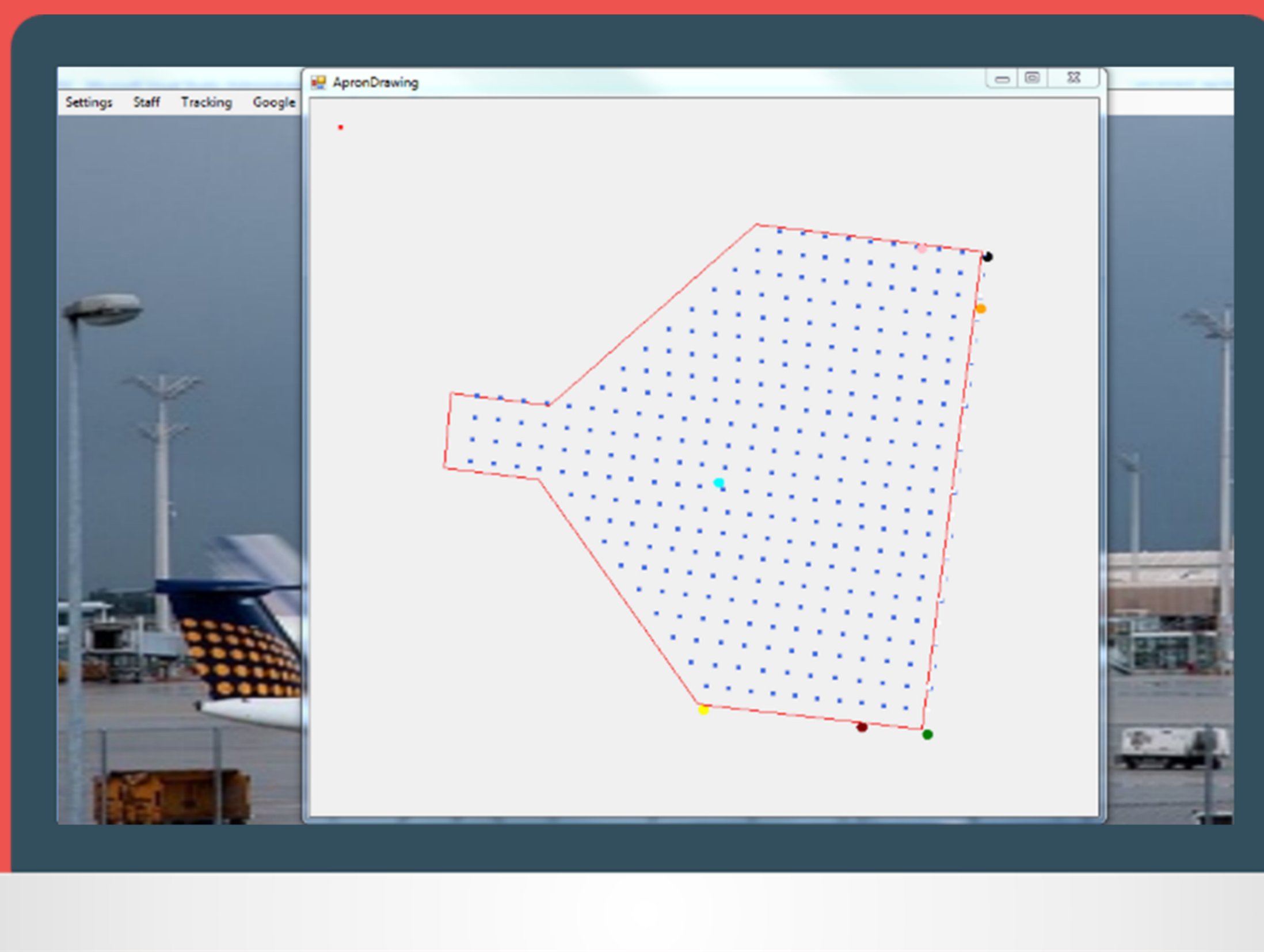
# Operation of the PAC Apron

The PAC Apron operation is as follows:

1. Chose the apron to be measured from the existing airport database;
2. The system generates the course to be followed;
3. The vehicle drives following the computed course while the sensors record the lux values and the system records the accurate GPS co-ordinates;
4. Plotting of the course is made in real-time;
5. The display of measured values is provided immediately after the end of the apron measurement as per the requirement of the International Standards;
6. The compliance or non-compliance of the complete floodlighting area is clearly stated based on the obtained results.







# THE ADVANTAGES



1 to 2 cm precision of the  
vehicle displacement



Easy to use  
& to manipulate



Immediate display of results  
& pdf reports



Portable light-  
weight system



GPS co-ordinates of the  
measurement on site



Record data used  
& collected



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# THEY USE OUR PAC APRON

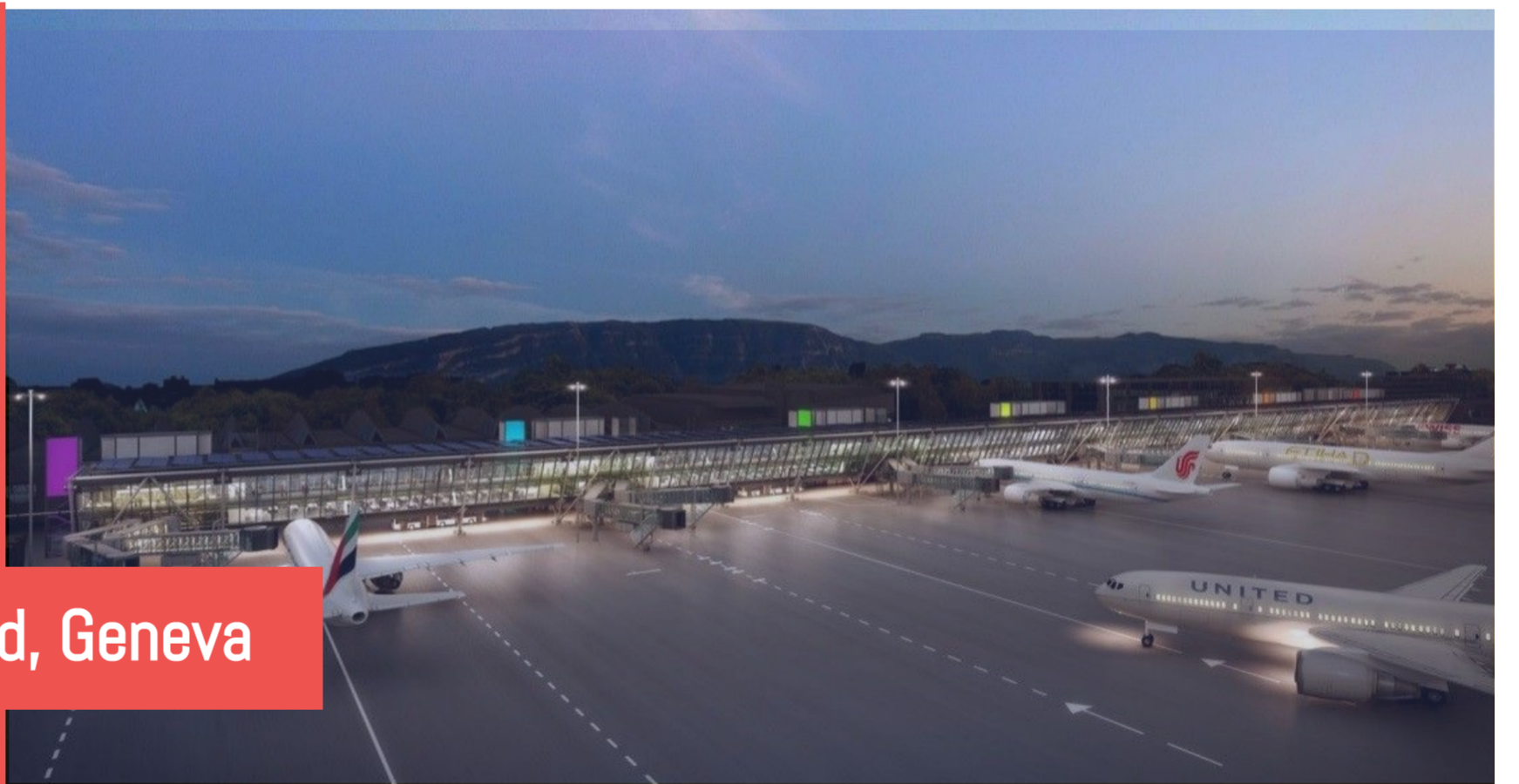
China, Beijing



Singapore, Changi



Switzerland, Geneva



USA, Atlanta Hartfield



# Other Products



## MARC ONE

Autonomous robot for  
photometry & maintenance

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## PAC $\pi$

PAPI lights measurement  
system

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## PAXIGN

Chromatic & luminance  
signs measurement

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## SoDICE

Cleaning light equipment

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## PAC<sup>2</sup> V5

Bi-directional measurement  
of Airfield Ground Lightings

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# FB Technology

*PAC Apron - Brochure*



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