

Non-Destructive Evaluation (NDE)

by Infrared Thermography

An innovative default detection technology

Principle of an IR Thermography measurement

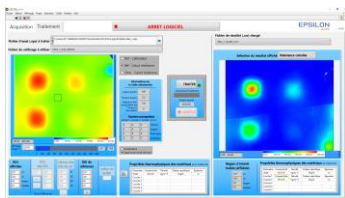
- ✓ Thermal disturbance of an object by application of a brief and intense energy pulse,
- ✓ Observation of the resulting decreasing disturbance with an IR camera,
- ✓ Processing of obtained images by exclusive algorithms,
- ✓ Default visualization within the observed object.

Our offer



« Catalog » products based on active infrared thermography,

« Tailor-made » products based on active infrared thermography after a design and prototyping phase,



Based on a CNRS technology, our SAFIR® data processing software licence for identifying and characterizing defaults,

A TTC option (Terahertz to Thermal Converter) for multispectral analyses and extension of the technical possibilities of owned devices (patented technology)



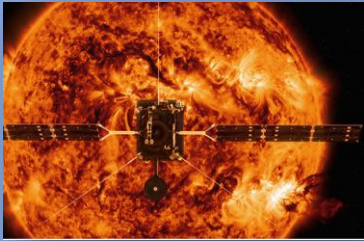
The high performance of EPSILON devices relies on two essential skills:

- ✓ The choice of specifically adapted equipment (sources, cameras etc), focused on applications
- ✓ The use of specific softwares for test benches driving, data collection and exploitation

EPSILON

ALCEN

Founded in 1992 to conduct studies in the space domain, EPSILON is distributed in Europe and Morocco at the convergence of physical, software and systems engineering.



EPSILON FIELDS OF EXPERTISE **AERONAUTICS . SPACE . ENERGY**

EPSILON MAIN ISSUE **SIMULATION FOR CONCEPTION / TESTS / EXPLOITATION**

EPSILON POSITIONING **SERVICES & PROPRIETARY PRODUCTS**

OUR EXPERTISE

Physics **Modeling, simulation, analysis, optimization, from component to complex systems, throughout the product life cycle**

IT **Software development for test benches driving, analysis, data exploitation and production monitoring**

Systems **Design and manufacturing of scientific set-ups, test benches and Non-Destructive Testing set-ups**



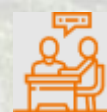
Physics



Digital



Systems



Consulting