



## **ICOMS DETECTIONS**

Icoms Detections S.A. designs, produces and sells motion and presence sensors for pedestrian and vehicle detection. These devices are essentially based on radar technology and their use is dedicated to mobility and security applications.

The company's objectives are to be within the next five years the most advanced innovative radar technology-based company of choice in the industry. We translate this innovation into value for our customers through imaginative customized and state-of-the-art sensing solutions.

In order to reach these objectives, the company strives daily for excellence both in product performance and product reliability.

## **PRODUCT RELIABILITY AND QUALITY CONTROL AT ICOMS DETECTIONS**

At Icoms, each product undergoes a series of tests during the design and production phase:

### **Design phase:**

- Performance test: each new design undergoes a thorough product-specific testing procedure to ensure that the required level of performance is reached.
- Highly Accelerated Life Time (HALT) tests: during these tests random six-degree-of-freedom vibration and rapid thermal change rates are run in a controlled environment. These stresses are performed prior reaching the production phase in order to identify potential product weaknesses and points of failure. They result in much more mature and reliable products.
- EMC and produce safety: all Icoms products are CE marked. Compliance to the relevant European EMC and safety standards is systematically verified and tested at the design phase.

### **Production phase:**

During the production phase, each product undergoes a series of tests to ensure that both functionality and performance targets are met:

- signal integrity measurement using industrial equipment
- radar sensitivity measurement using a calibrated test bench
- functionality tests (relays, communication)
- cable testing

Additionally, data collection units (TMS-SA) are tested during a min of 24h on the road side.