



Securitas Direct has probably one of the world most advanced and reliable surveillance system available.

## SECURE PRODUCT RELEASE AND VOLUME RAMP-UP

Securitas Direct is Europe's leading supplier of home security services with more than 1.3 million customers in more than 9 countries.

Electromagnetic compatibility (EMC) difficulties during the development phase and manufacturing capacity constraints jeopardized the planned market launch and their ability to meet a strong customer demand.

MTEK was assigned to support Securitas Direct solving the EMC problem, improve the design for manufacturing and support volume ramp up and flexibility in production.

As home security ensures personal safety and security MTEK was requested to put strong emphasis on the product reliability and performance.

## THE WORK PERFORMED

The work was performed by MTEK using three manufacturing specialists and two design specialists, of which one was a PCB specialist from Macer Sweden.

## DESIGN FOR EXCELLENCE

In the DfX review there were more than 100 action points with proposed concrete solutions to improve the design of the printed circuit board. Securitas Direct implemented the majority of these remarks, with the following results:

The EMC shield cans could be eliminated and reliability of the unit was secured.

Product cost was reduced by 5%.

## MANUFACTURING

In the manufacturing project MTEK reviewed the complete operations of the production partner, established a sound action plan and supported the implementation on-site.

After three months the results were the following:

- > 20% increase in production efficiency
- > 70% reduction in the production lead time
- > 98% first pass yield
- > 80% reduction in SMT set-up time
- > 98% delivery precision



*“MTEK helped us with deep technical review of the electronics of our new design and took our contract manufacturer to a world class level in production. We were able to launch the product on time, meet a dramatic volume ramp up and market needs of our new product.”*

**Noroz Akhlagi**  
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