

Project Location: International Airport – Arrivals hall

Scenario

The arrival hall at the new airport terminal building is located on a first floor level. The floor below is accessible to the general public without having to go through any security. Along one side of the arrival hall is a glass wall, which is approximately 250m in length.

Due to the shape of the roof structure there is a gap above the glass wall and it is possible to pass or throw items over the partition before going through passport control and security. Owing to this it is possible to go down to the floor below and pick up the items.

Client's requirements

The airport security staff needed to be alerted immediately to any object being passed or thrown over the wall.

Integrators issue

The integrator had concerns about using traditional detection systems – PIR, Active Beams and even video analytics. They needed a device that would pick up instantly and also detect objects being thrown at speed.

The solution

The integrator decided to install the GJD500, 25m x 25m D-TECT Laser.

The reasons were that this device:

- Could create a virtual wall 25m long which also mapped the detection zone in to the irregular shaped roof void.
- The units could be programmed to detect a number of different object sizes, from any size to 10cm, 20cm or 40cm and above.
- The detection zones could be programmed to within 10cm.
- The lasers precision means there was no overspill or crossing into unwanted areas.
- The amount of time the object had to be in the detection area could also be programmed to be either instant in steps of 100 milliseconds up to 900 milliseconds.
- The housing was very compact and discreet and the colour option of a white housing blended into the background.
- The installer found the laser very easy to programme and the set up time was very fast.
- GJD also supported the integrator and distributor with advice on set up and programming.

The verdict

The D-TECT Lasers have been installed since January 2016 and so far there have been no issues with nuisance activations.

They have fitted more lasers in other areas now due to the performance.

The integrator has also fitted a number of D-TECT Lasers with another of their clients due to the performance at the International airport.

Link to GJD website: <http://www.gjd.co.uk/products/laser-sensors/d-tect-laser-gjd500>

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