OPTEX
Sensing Innovation

CASE STUDY

Creating a Virtual Ceiling for Data Center Protection

The Site

Two active aircraft hangars owned by Talon Air, a full-service private aviation company. The hangars are in constant use, with frequent aircraft movement and maintenance activity requiring a reliable safety solution that wouldn't disrupt operations.

The Challenge

Aircraft are expensive assets – certainly too expensive to risk being damaged in avoidable accidents whilst on the ground or being moved around a hangar. The challenge was in finding a solution that would alert ground crews to the risk of collision, and that was flexible to work with different aircraft sizes and hangar configurations. The challenge was also in providing an area for ground crew to move around safely while the aircraft were being maintained.

The Solution

Grid Squared Systems and Optex partnered to deliver a customized detection system using REDSCAN. Leveraging the detectors' vertical mount capabilities, they created virtual walls of protection in each hangar, covering three walls with a total of four RLS-3060s. The sensors operate in analog mode, triggering strobe lights and sounders to alert ground crews before any potential collision. A raised detection zone was configured above the floor to allow safe movement beneath, and the system was tailored to accommodate varying aircraft sizes and hangar layouts.

REDSCAN LiDAR Series

REDSCAN is an award-winning LiDAR detector that reliably detects object size, speed, and distance, creating an invisible wall for security indoors or out. Ideal for protecting assets, perimeters, and enhancing safety in public spaces.