BOSCH
Invented for life

Perimeter protection with Unmanned Aerial Vehicle detection

An airport solution that should be on your radar

Airports have long perimeters that need to be monitored for intrusion, loitering or other suspicious movements. The direct surroundings of airports can also be home to birds and animals, which can cause frequent false alarms. Vehicles, persons and also Unmanned Aerial Vehicles (drones) or bird flock pose a potential threat and need to be detected, tracked, if possible classified and rendered harmless.

Operating conditions are challenging

Perimeter protection systems need durable equipment that can withstand harsh environments. Intelligent software solutions should make event monitoring manageable and security personnel responsive.

So what is needed?

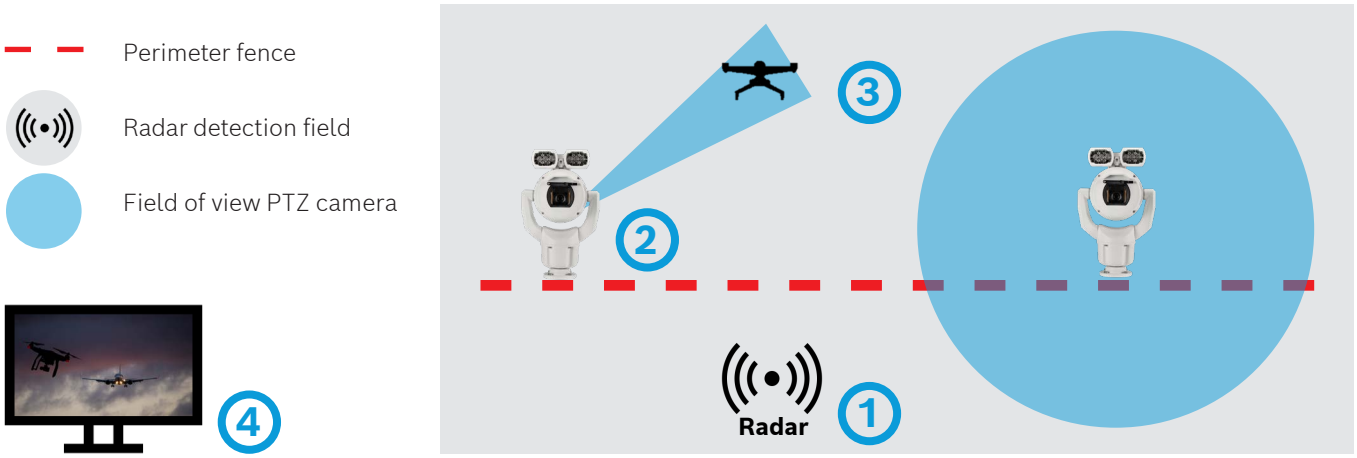
- Rugged and reliable cameras regardless of lighting or weather.
- Highly sensitive cameras that can capture clear, usable imagery at long distance.
- Reliable detection and classification of objects near or flying above the perimeter.
- Cameras that make effective use of analytics that help the operator detect relevant events, while keeping false alarm rate low.

"Drone incidents cause **massive operational disruptions** with over **£20 million** of financial damage"

Gatwick airport

Perimeter protection with with Unmanned Aerial Vehicle detection

How it works:



1. Radar detects and classifies an Unmanned Aerial Vehicle (UAV).
2. A radar management system determines the MIC PTZ camera nearest to the drone.
3. UAV coordinates are send to MIC, the camera dynamically adjusts the field of view and automatically follows the target based on coordinates. An integrated view with camera handover is offered with Genetec RSA Surveillance.
4. Video classification and verification can be done for a threat assessment.

Intelligently protect the perimeter with Video Analytics

- **DINION IP thermal 8000** fixed thermal cameras along the fence line for long distance detection with Intelligent Video Analytics. The right choice for mission critical applications.
- **MIC IP starlight 7100i** rugged PTZ cameras with Intelligent Tracking technology enable automatic tracking of moving objects for long range video verification along the fence. MIC cameras can look upwards to track the target for video verification.
- **Intelligent Video Analytics** has the ability to differentiate between genuine security events and false triggers such as snow, wind (moving trees), rain and hail that can make video data more difficult to interpret.

Partners for radar solutions

DRONESHIELD www.droneshield.com

ECHODYNE www.echodyne.com

NAVTECH RADAR www.navtechradar.com

SpotterRF www.spotterrf.com

Combine a Perimeter Intruder Detection System with UAV detection for optimal situational awareness

Through the Restricted Security Area surveillance module from Genetec, the Security Center unified platform integrates with MIC PTZ and thermal fixed cameras. This allows you to detect potential threats across wide areas and merge monitoring across multiple technologies. Automatically tracked on geographical maps, moving targets are intuitively displayed so that security personnel can assess and respond to threats in less time. Alarms from multiple sensors that detect the same object, are combined for the operator, causing less cognitive load. Radar sensors managed by Genetec Security Center can detect UAV's and show the target on a map. Location data is used to select the nearest MIC camera to follow the target. **Automatic handover** to the next MIC is done to keep the target in the best view. Evaluate all sensor and video data in a single integrated visualization and initiate follow up actions.

Genetec™

Bosch Building Technologies

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