# DIDIT
# DRONE PROTECTION

## DIDIT - DISTRIBUTED DETECTION, IDENTIFICATION and TRACKING of sUAS (SMALL UNMANNED AERIAL SYSTEMS)

The long-term effective solution against espionage, contraband smuggling and privacy violation from small drones.

### SECURITY

Small UAS challenge existing security systems. The fact that they are inexpensive, mass-produced goods makes them easy to obtain by anyone and be misused for espionage, contraband smuggling as well as for attacks on people and infrastructure. Existing security systems are not prepared for these kind of threats. Our drone protection system DIDIT was developed to cater for these new requirements.

### AUTOMATED DRONE DETECTION SYSTEM

DIDIT detects and locates drones in an automated way, providing an early warning whenever a drone approaches the area of concern. The drone and the pilot's positions are displayed to enable rapid intervention.

### SENSOR DIVERSITY ENSURES OPTIMUM PROTECTION

By combining a variety of sensors, DIDIT protects against both piloted and autonomously flying drones in all topographical positions and under all weather conditions. By fusing data from all sensor types, the DIDIT system achieves an optimised detection rate and an optimised localisation accuracy.

### CUSTOMER BENEFITS

› Early warning enables rapid response

› Risk assessment through live visualisation

› Precise localisation of drones and dropped objects

› No dedicated personnel thanks to automation

› Customised solution through modular design

› Integration into existing security systems

› Fusion of sensor data resulting in optimised detection rate

› Detection of all types of drones through multi-sensor technology

› Frequent updates for new drone protocols

› Interaction with systems to counter drones

› Incident recording for legal action

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Radar offers protection over long distances by day and night. Moreover, Radar is the only sensor to detect autonomously flying drones early.

Radio sensors protect at mid-distance and 24 hours a day. They locate the drones as well as their pilots.

Optical sensors allow drone type and the carried payload to be identified.

## DIDIT – TAILORED, SCALABLE AND EXTENDABLE

DIDIT has been designed as a modular and flexible system. Hence, the set of sensors is perfectly adapted to the topographical conditions as well as to the protected object. If requested, DIDIT will provide an interface to external systems like jammers for the initiation of countermeasures or to existing security systems.

| Function \ Sensor | Radar | Radio Sensor | Rotatable Camera | Static Camera |
|---|---|---|---|---|
| Detect | ✔ | ✔ | ✔ | ✔ |
| Locate | ✔ | ✔ | ✔ | ✔ |
| Track | ✔ | ✔ | ✔ | ✔ |
| Live Picture | | | ✔ | ✔ |
| 24/7 | ✔ | ✔ | (✔) | (✔) |
| Autonomous Drones | ✔ | | ✔ | ✔ |

(✔) camera specific
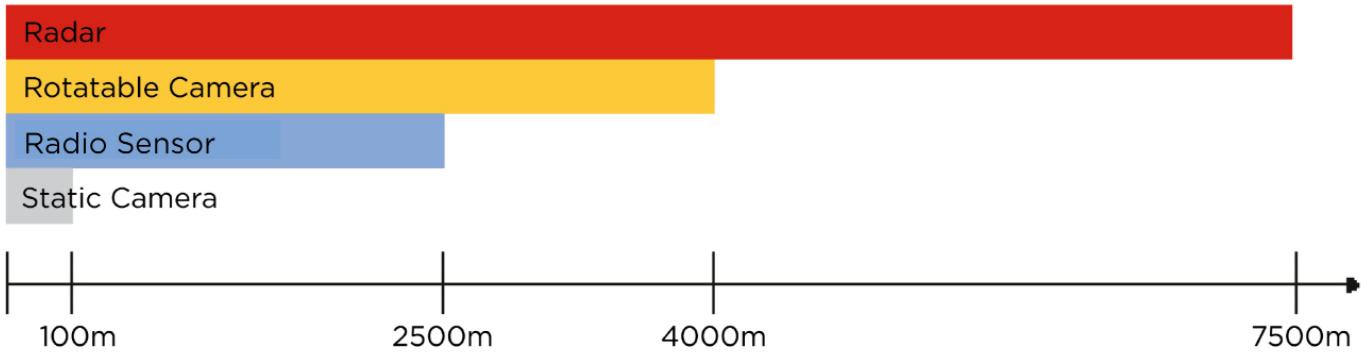


*range of the different sensors*



*Example: A combination of radars, radio sensors and PTZ cameras for the optimal protection of an airport.*

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