

Hensoldt – a century of creativity and innovation

Over 100 years creativity and innovation and 60 years of radar and electronic warfare experience all under one roof. A proud heritage of Zeiss,Dornier, Telefunken, MBB, Aerospatiale, EADS, Airbus Defence and Space. The sensor house for radar, professional cameras, electronic warfare equipment and services. Our field proven products and systems are delivered to customers worldwide with a truly Global footprint inclusive of engineering and operations locations.



Xpeller™ – Counter UAV System

Threatened? We bring it down!

Threatened by Drones?

International growing challenges with drones

Several incidents within the last few years has revealed that there is a rapidly emerging threat caused by small, cheap and commercially available drones. In 2016 alone there were 70 reported near misses at Heathrow. Whether they are used for

trafficking, industrial espionage, sabotage, terrorist acts or even unintentional this emerging threat must be countered. To do so, it is key to detect and identify the drone and assess its threat potential at ranges from a few hundred meters

up to several kilometres of distance from the sensitive area.

Xpeller counter drone system is at the cutting edge of capability in protection against the illicit intrusions of small drones.



Xpeller Detect and Protect against Drone Threats

Threat analysis
HENSOLDT can analyse and understand customer needs on site providing a tailored threat solution specific to you.

We bring it Down!
Xpeller can be easily integrated into existing security infrastructures. Field proven sensors and components guarantee high system availability. Advanced data fusion command and control system enable the minimum

operator workload and the sensors support both day and night protection (24/7). Intelligent algorithms reduce false alarm rate. Powerful counter measures complement the system in accordance to the respective regulations.

Detection of small drones
Xpeller connects radars, cameras and RF Sensors with jammers into one customised configuration. It can be operated as part of securitysystem or standalone as a mobile or stationary solution. It's ability to detect threats over long distances provides sufficient reaction time. Discrete installations also enable low visibility sensors and actors.



Radar locates drone position in map display (operator console)

Select.

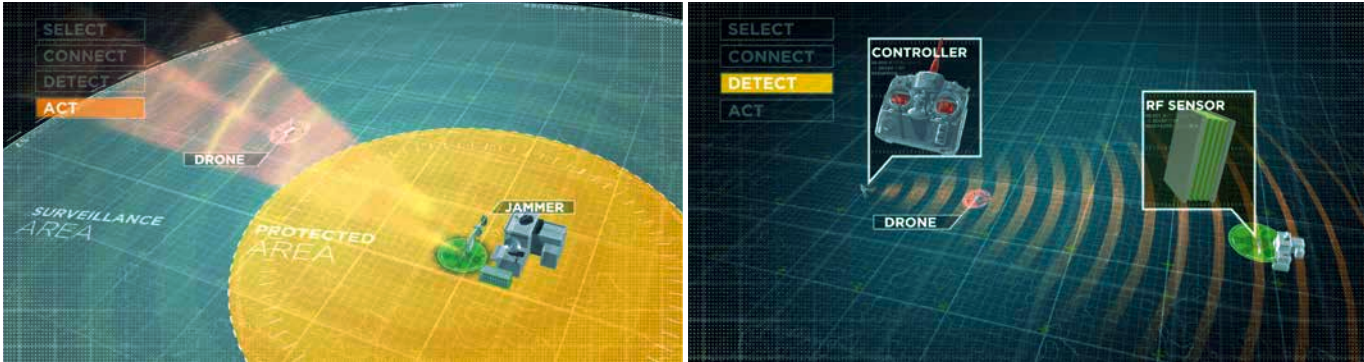
- Threat analysis
- Site-specific configuration
- Financing and operating models

Connect.

- Stationary or mobile operation
- Integrates into existing security system and infrastructure

Defend Against Drone Threats

Flexible and field-proven modular solution



Countering Drone Threat and Localisation of the Pilot

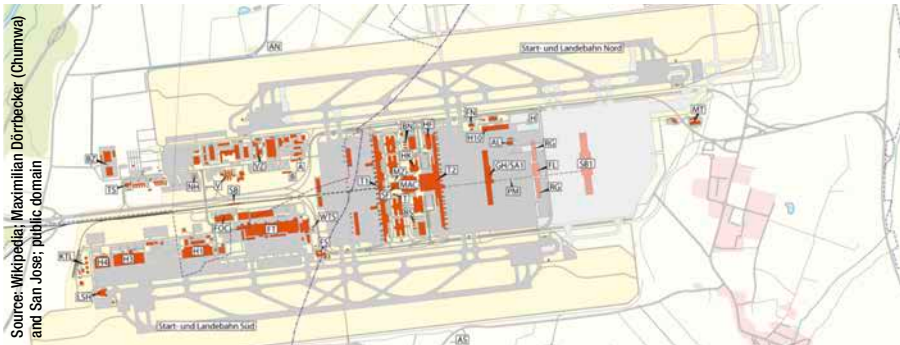
Jamming of the controller signal interrupts the link between drone and pilot and/or it's navigation

Typical Configuration – Flexible and field-proven modular solution

	Threat Analysis	Command & Control	Radar	Camera	Jammer*	RF Sensor	Third Party Sensors or Actors
Industry	Yes	Yes	Yes	Yes	No	Yes	Yes
Public Events	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Airports	Yes	Yes	Yes	Yes	No	Yes	Yes
Power Plants	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Military Camp	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Private Estate	Yes	No	No	Yes	Yes	Yes	Yes

*Usage in accordance to the respective regulations and laws

Example of Airport Protection



- Areas:**
- Protected Area
 - Surveillance Area
- Sensors & Effectors:**
- Radar Position
 - Camera Position
 - RF-Sensor Position
 - Jammer Position

Detect.

- High performance sensors
- Data fusion of sensors
- Command and control system
- High service availability 24/7
- False alarm reduction algorithm
- Geo localisation of intruders pilot

Act.

- Jamming data and video link
- Third party counter measures
- Able to counter a "SWARM"