



Threatened by Drones? We bring it down!

Xpeller™: Fused sensors and countermeasures against small drones

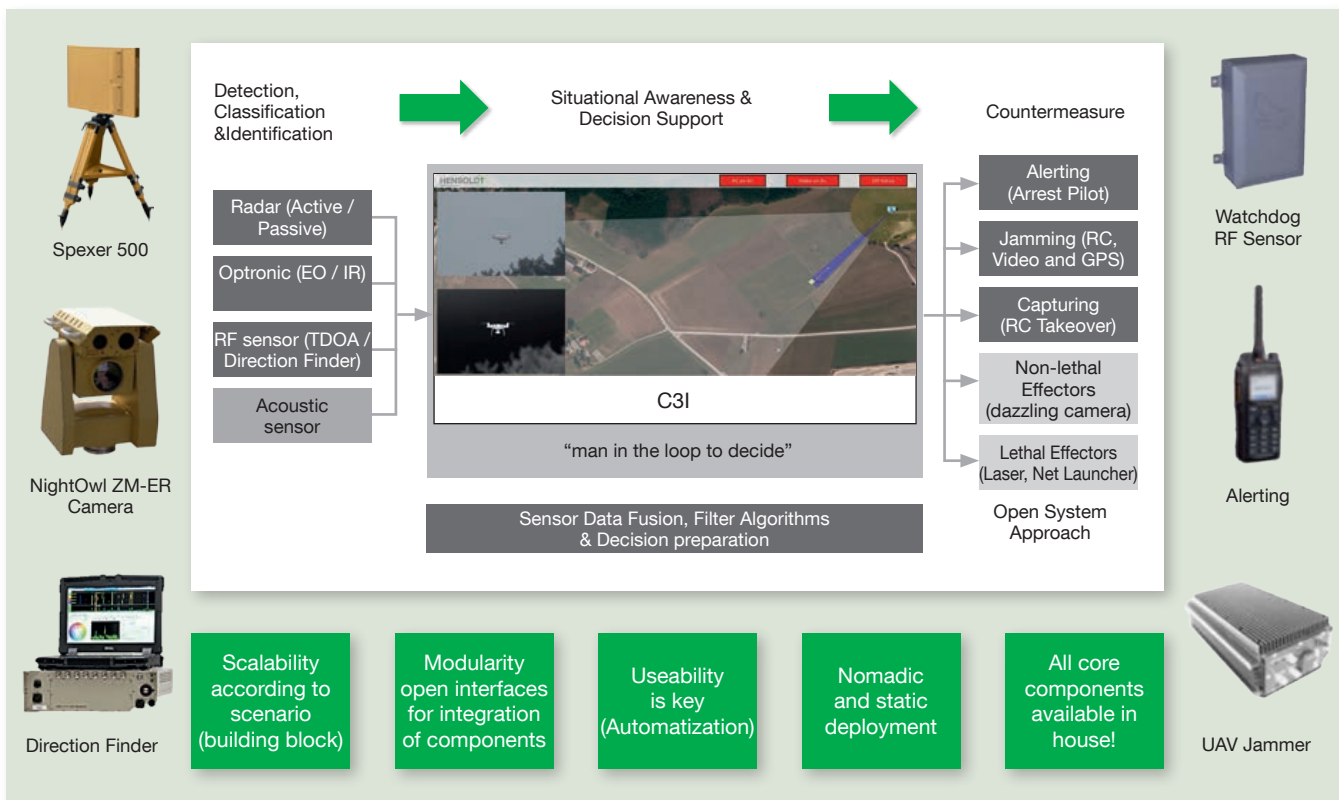
Several incidents within the last years revealed that there is a rapidly emerging threat caused by small, cheap and commercially available UAVs. No matter if drones are misused unintentionally, if they are used for trafficking, industrial espionage, sabotage or even terrorist acts, this emerging threat needs to be countered by security and military forces.

Xpeller is able to protect sensitive areas against illicit intrusions of small drones, ranging from individual buildings through big events to airports and military camps.

Xpeller uses radars, optical, RF and other sensors to detect and identify the drone and assess its threat potential at ranges from a few hundred meters up to several kilometers. Once the threat has been identified, a jammer interrupts the link between drone and pilot and/or its navigation.

The modular system concept relies on the selection of individual devices from the Xpeller tool kit depending on customer requirements and local conditions, thus offering best value for money.

HENSOLDT Xpeller™ Core Approach & Toolkit



Technical Specifications for Xpeller™

Xpeller Operational Performance	
Detection range	> 4 km typ. (depending on RCS)
Identification range	> 1.5 km typ.
Interception range	> 1.5 km typ.
Core component performance	
Spexer 500	
Radar frequency band	X band
Update rate	< 2 s for 120° sector
Coverage	120° in azimuth and 30° in elevation
RF power	4 W
NightOwl ZM-ER	
Thermal camera spectral waveband	3-5µm
Camera Field of View	Thermal: ≤ 0,7° to ≥ 8.5°, Colour: ≤ 0,7° to > 25°
UAV Jammer	
Jammer frequency range	20 MHz ... 6000 MHz
Total installed amplifier performance	from 10 W to 400 W nom.
Antennas	omnidirectional or directional
Additional system features	
Threat and protection analysis	Consulting and weak point analysis
Alerting	Push-Notification about Drone spottings (incl. map and picture)
Recording & Playback	Court-safe recording for "forensic" purposes
Alternative financing/operation models	Leasing/Rental or Counter UAV as Service