Crow

Countering the UAS threats

The anti-drone solution

RPAS (Remote Piloted Aircraft Systems) or UAS (Unmanned Aircraft Systems), also known as drones in a non-professional context can be used for multiple and great applications, but not always are so good. RPAS have become a real and significant threat for infrastructures and people due to their errant or malicious use.

UAS Technologies advance unstoppably, incorporating more and more technical improvements in communications, navigation as well as payloads and platform structure. Automation, high sophistication and more harmful payloads are the main challenges to face.

Crow is a multilayer system, ready to support the full C-UAS cycle, combining multiple types of sensors and countermeasures, ready to be deployed in different formats (fix, mobile, portable) and designed to interact with multiple complementary systems in order to provide the most effective defence against UAS threats.

Crow supports the Full Counter UAS Framework based on 4 main elements

Detection & Identification (D&I)

Situational Awareness

UAS Detection, tracking, classification and identification at several kilometers using one or multiple sensors based on active and passive technologies such as 2D or 3D radars, Radiofrequency sensors, IR and Daylight cameras, as well as artificial intelligence and data fusion algorithms in order to achieve maximum level of performance and automation.

Analysis & decision making

Command & Control

Powered unified interface that supports an agile and easy management of all Crow components deployed on the field, covering the full C-UAS cycle. It provides multiple tools for threat evaluation, decision making, countermeasure assignment and control according to identified risks and collateral damage evaluation. It supports manual and automatic operation, information recording, etc.

Neutralization

Countermeasures

Long range neutralization of detected and identified unauthorized UAS based on soft and/or hard-kill technologies. Crow Catalogue includes multiple types of technologies, ready to be used according to the scenario and risk-benefit evaluation, as well as, other factors.

Integration with other systems

Interoperability

In order to achieve the best C-UAS performance, the cooperation with other available systems is the best strategy. Crow has be designed to be integrated with systems such as ATM, UTM/U-Space at airports, (V)SHORAD in Ground Based Air Defence (GBAD), complementary security systems, etc.

Use Cases

Military Forces

Airports

Critical Infrastructures

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