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C-UAS

DRONE DETECTION AND MITIGATION: MULTI-SENSOR PROTECTION AGAINST AERIAL THREATS



Our Drone Detection and Mitigation solution is a cutting-edge multi-sensor based technology that combines advanced command & control, and machine learning resources. Its modular and scalable architecture adapts to different civil or military operational scenarios, offering 360° coverage and continuous operation day and night, even in adverse conditions.

By integrating RF sensor, radar, EO/IR camera, and jammer, it provides real-time situational awareness that allows for detecting, tracking, classifying, and neutralizing various types of drones with high precision and safety.

Designed to minimize interference and collateral damage, the solution ensures reliable performance, interoperability, and continuous evolution in the face of new technological threats.



Learn more about Atech's integrated solutions and receive personalized consulting from an expert.





SAFETY FIRST QUALITY ALWAYS

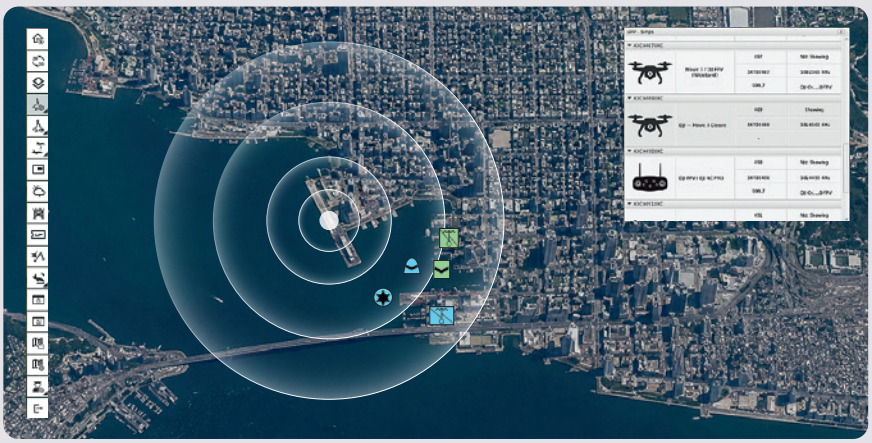
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Key Capabilities

- Detection, tracking, and classification of commercial, military, and home-made drones
- Location of radio transmitters and drone control
- Support for the Remote ID standard
- Telemetry data collection from commercial drones (open protocol / Remote ID)
- Intuitive HMI, which allows for georeferenced visualization, identification, and classification of the drone
- Standardized symbology according to the international MIL-STD-2525 standard
- Strobe: Direction Finding (DF) resource for non-cooperative drones
- Triangulation with support for two or more RF sensors
- AI Technology with machine learning
- Database of commercial and previously identified drones
- Support for different types of sensors: RF, electro-optical and/or infrared (EO/IR) cameras, radar (radar fusion), and interference sensor (jammer)
- Operation in adverse weather conditions, during the day or at night
- Installation flexibility: tripod, tower, vehicle, buildings, among others
- Scalable and modular architecture

Situational awareness of the theater of operations with possible threats identified by the C-UAS (Counter-Unmanned Aerial Systems)



- Radio transmitter [neutral classification]
- Drone (UAS) [neutral classification]
- Drone (UAS) [friendly classification]
- Radio Transmitter [friendly classification]
- Law enforcement equipment [detector] [friendly classification]

Detection

Identify the presence of one or more drones and controllers

Identification

Assign a name or specific drone model

Classification

Categorize the drone

Mitigation

Taking actions to neutralize or reduce the drone threat

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