



C-UAS, Drone Detection, Neutralization and Interception System

End-to-End solution for securing airspace

PAP C-UAS ADALID is a powerful, end-to-end solution that secures airspace against hostile drones.

The C-UAS ADALID system includes three operational phases: detection, identification, neutralization. In the detection phase, a 360° radar and an RF sensor are used, either together or separately, providing both detection and accurate position of hostile drones. The system's EO sensor automatically initiates a drone classification and identification process, which provides the accurate position of the drone.

Benefits

- Off-the-shelf system
- 360° coverage
- Quick response time
- Operates in all weather conditions
- High success rate
- Minimal collateral damage
- Modular configuration, tailored to customer's requirements
- Any sensor, any shooter, open architecture

Main Capabilities

- One system used by a single operator detects, tracks, identifies and neutralizes hostile drones
- Detects targets as small as 0.002 m2 at a distance of 3.5km
- Identification distance of over 3km CCD/IR automatic Video Motion Detection (VMD) and Automatic Target Recognition (ATR)

Radar



- All weather capabilities
- Multiple targets
- S band frequency Multi-Mission Hemispheric Radars (MHR)
- Up to four radars for full 360° azimuth coverage
- Over 15,500 hours calculated MTBF
- Built-in Ethernet connectivity
- Micro doppler detection capabilities

Jammer



- Blocks the signal and commands from the Remote Control (RC)
- Jam the video transmitted by the drone to the operator
- Jam the GNSS signal to destabilize the drone
- Multiple targets

Commint/RF



The RF sensor rapidly scans the environment, detecting and identifying potential threats in the area of interest. Upon detection, the system classifies the threat, alerts the user and enables various mitigation actions to neutralize the threat.

- Wideband receiver covers 70 MHz-6GHz
- High Dynamic Range (>60 dB)
- High Sensitivity (NF <10 dB)
- Intermediate bandwidth
- Fast switching

C4I Center



Automatic target prioritization algorithm that incorporates all the necessary equipment, software and accessories to enable the command and control of all the subsystems included in the C-UAS System.

E/O SPEED ER

• RF sensor detection of the drones and its operators

• Blocks VHF and UHF drone channels with Reactive

• Open architecture enables integration with other

Navigation Satellite System (GNSS)

effectors and sensors

Jamming (RJ technology), including Global



- EO/IR sensor, installed on a gimbaled tripod
- Detection Unit (DU), and Video On Demand (VOD) element for video processing
- System Manager and Backend H/W elements for controlling video, data, status and commands among the various elements
- Video Motion Detection (VMD) enables automatic detection of low contrast moving targets
- Tracking the EO video tracking enables the operator to track multiple targets automatically
- Automatic Target Recognition (ATR)
- Multi-sensor system the system allows integration, operation and display of several EO sensors

Mobile Deployment



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