

KAAWAL - Anti Drone Solution is an advanced system designed to counter illegal drone intrusion and safeguard critical sites and individuals from potential terrorist threats. It typically includes components for detection, jamming, and visual identification. The system uses a high-powered camera powered by an A.I. computing engine to locate and determine the drone's orientation. LiDAR is used as an option to accurately profile the drone, followed by activation of the signal jammer.

## Applications

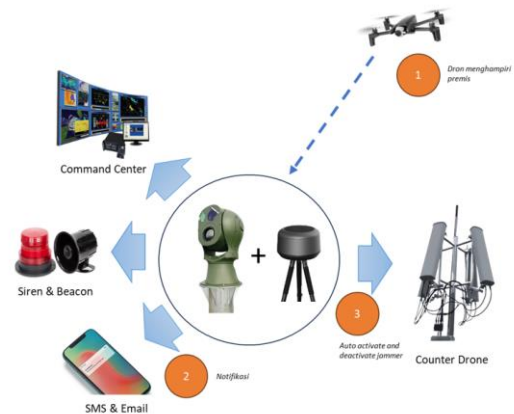
- PROTECTION FOR MILITARY FORCES
- BORDER SURVEILLANCE
- TACTICAL RECONNAISSANCE
- PIPELINE SECURITY
- MOBILE COMMAND CENTER
- MOBILE SECURITY
- TARGET TRACKING
- LONG RANGE SURVEILLANCE



## Features

### 24/7 Continuous Surveillance Algorithm

An artificial intelligence (A.I.) algorithm is continuously running and analyzing the camera footage 24 hours a day. The A.I. algorithm is trained to identify and differentiate between drones and other objects, allowing it to determine whether there is a drone intrusion near the protected area. This real-time analysis ensures immediate detection and response to potential threats.



### Real-time Detection, Response, and Neutralization

When the A.I. algorithm identifies an unauthorized drone, notifications are sent in real time to the designated security personnel or system administrators. This allows for prompt action to be taken to mitigate the threat. Simultaneously, the system activates a jammer to disrupt the drone's control signals, GPS, and video transmission. This effectively neutralizes the drone, preventing it from carrying out any unauthorized activities or posing a security risk.


### Automated Threat Neutralization.

The jammer operates based on the system's predefined settings, ensuring that it remains active for the necessary duration to eliminate the threat. Once the threat has been neutralized or the drone has moved out of the protected area, the jammer is automatically deactivated according to the configured settings.



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## TECHNICAL SPECIFICATIONS

### DDS Drone Camera Module

<b>Detection</b>	Day (visible camera):Vehicle: 16km Human:10km Night (thermal camera):Vehicle: 13km Human:5km
<b>Identification</b>	Day (visible camera):Vehicle: 7km Human: 4km Night (thermal camera):Vehicle: 3.8km Human: 1.6km
<b>Thermal Sensor</b>	VOx uncooled detector, 640*5127.5um-14um spectral response, 45mk NETD
<b>Thermal Lens</b>	31mm~155mm, 5X continuous optical zoom
<b>AI Functions</b>	Target detection, vehicle and ship discrimination, area intrusion, automatic tracking, stay detection, etc.



### DDS Drone RF Detection Module

<b>Detection radius</b>	≥3km
<b>Frequency Range</b>	800MHz-1500MHz、 2.4GHz、 5.8GHz
<b>Detection Signal</b>	UAV digital transmission signal, UAV remote control signal, WiFi system UAV signal
<b>Detection Direction</b>	All direction 360
<b>Types of detection drones</b>	Most conventional consumer UAVs, some unconventional UAVs, some fixed-wing UAVs, and some racing Drone
<b>Detection Time</b>	≤3s




### DDS Drone Jammer

<b>Frequency Range</b>	1560-1620/2400-2500/5725-5850MHz
<b>Gain(dBi)</b>	10±1dBi
<b>Vertical Beamwidth(0°)</b>	8±5°
<b>Front-to-back ratio (dB)</b>	≥25



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