

## **AdlerAerospace Atlas6 Shield System: Integrated Counter-UAS and Electronic Warfare Solution**

The Atlas6 Shield System by AdlerAerospace is a next-generation integrated Counter-Unmanned Aerial System (C-UAS) platform combining cutting-edge electronic warfare (EW), RF detection and jamming, and precision kinetic interception capabilities. Engineered for both fixed terrestrial and mobile aerial deployment, the Shield System creates a dynamic and layered defense shield capable of detecting, tracking, and neutralizing hostile drones while maintaining operational clarity in contested electromagnetic environments.

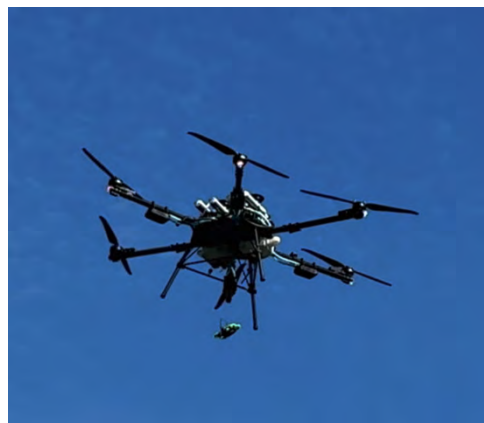
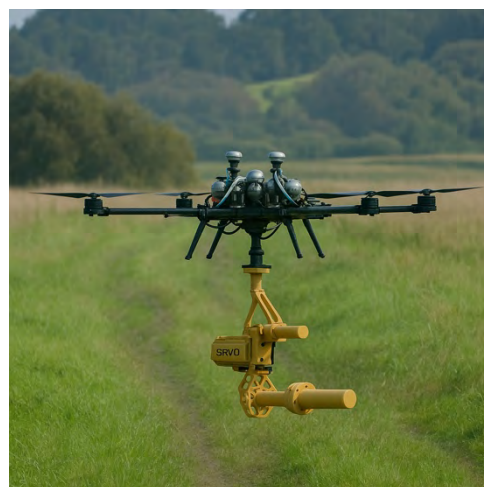
### **Core System Components**

#### **1. Atlas6 Heavy-Lift UAV with Integrated EW Platform**

Platform: Atlas6 is a class-leading, heavy-lift unmanned aerial vehicle (UAV) capable of over 400 km range at a cruising speed of 70 km/h.

Integrated Capabilities:

- RF Detection and Direction Finding: Real-time spectrum analysis for UAV signal acquisition and tracking.
- Multi-band Jamming: Adaptive jamming modules capable of targeting operator control location, video, telemetry, and GNSS signals.
- Interceptor Deployment Bay: Onboard launching mechanism for FPV kinetic interceptors capable of 120 km/h flight speeds and over 20 minutes of operational time.
- Proprietary Targeting Overlay: Fusion of ISR data and RF triangulation delivers real-time targeting coordinates directly to interceptor operators or autonomous guidance systems.



## 2. Terrestrial Shield Nodes

Fixed or semi-mobile ground-based detection and jamming stations.

Omnidirectional and directional antennas for wide-area surveillance and high-precision jamming.

Integrated with the airborne Atlas6 platforms for coordinated triangulation and C2 target overlay visualization.

Able to operate autonomously or under centralized C2 for large-area defense.



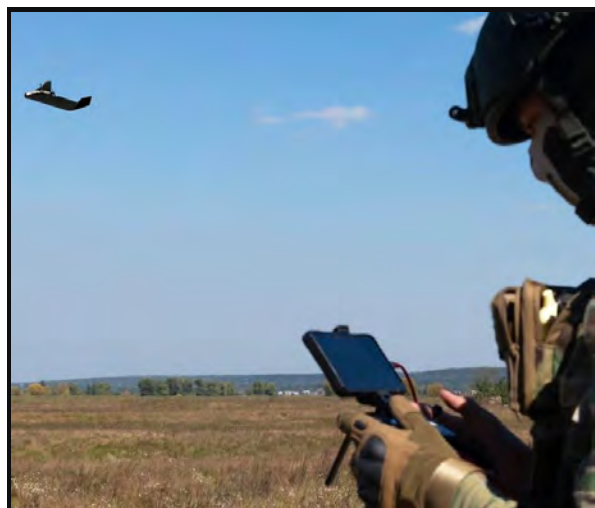
## 3. BladeRanger ISR UAVs (Class 1)

Long-range (2+ hour endurance), high-speed (120 km/h) ISR drones.

Outfitted with combat-proven signal-hopping communications for resistance against jamming.

Two operational roles:

- Friendly Mode: Outfitted with a proprietary Whitelist Module that exempts them from Atlas6 Shield interference, ensuring safe operation in defended airspace.
- Hostile Mode: Simulates enemy ISR patterns for testing and demonstration, subject to detection, tracking, and interception.



## Key Functional Capabilities

### 1. Proprietary RF Triangulation & C2 Integration

The Atlas6 Shield System employs a proprietary multi-node triangulation algorithm to pinpoint the precise coordinates of RF-emitting drones across vast areas.

RF localization data is merged into a command-and-control (C2) visual overlay, allowing operators to see the location, trajectory, and ID signature of any airborne target in real time.

Supports interceptor vectoring, enabling either:

- Manual FPV deployment to exact coordinates, or
- Atlas6-based autonomous proximity deployment followed by FPV drone release.

## 2. Friendly vs Hostile Drone Discrimination

The system's ability to whitelist approved ISR assets ensures secure operations in a congested or electronically contested battlespace.

Demonstrated via a simulation: a whitelisted Blade Ranger operates freely, while a non-whitelisted drone flying a search pattern is identified as a threat and intercepted.

This feature is vital for battlefield situational awareness, allowing simultaneous operation of ISR assets and defensive systems without fratricide.



## 3. Long-Range, Layered Defensive Envelope

The combined terrestrial and airborne configuration enables coverage of up to 400 km of terrain. Interceptors and Atlas6 UAVs extend the shield well beyond static positions, forming a mobile engagement zone.

This layered approach ensures continuous, multi-tier protection of high-value targets, logistics corridors, or command posts from UAV-based reconnaissance and kinetic threats.

## Operational Impact

The Atlas6 Shield System offers militaries and defense forces a battlefield-proven, adaptive counter-UAS capability that goes beyond traditional jamming or kinetic kill options. Its integrated approach, combining EW dominance, real-time ISR, and kinetic interdiction, ensures the protection of critical assets while maintaining friendly drone operations and total electromagnetic domain awareness.

In an age of rapidly evolving aerial threats, **Atlas6 Shield** represents the pinnacle of multi-domain drone defense technology—scalable, precise, and combat-ready.



