

Bringing a New Perspective with Drones



NEARTHLAB



Nearthlab, Inc.

3rd floor, 9, Jeongui-ro 8-gil, Songpa-gu, Seoul, Korea | tel +82 2-566-1574 | fax +82 2-6953-1574 | business@nearthlab.com

Korea | United States | Germany | Brazil

NEARTH LAB is

a leading global provider of autonomous flight drone solutions, headquartered in Korea.

Approach

Nearthlab is a leading company that has successfully commercialized drone solutions, leveraging proprietary technology developed in Korea. We set new benchmarks in the drone industry by seamlessly integrating cutting-edge innovations. Powered by our proprietary AI flight technology, we deliver tailored solutions across diverse industries.



Technology Expertise

Over 60% of our workforce specializes in R&D



AI Autonomous Flight

Beyond Level 4 Vision AI Autonomous Flight



Global Commercialization

80% of total revenue occurs overseas

Industry

Nearthlab redefines industry standards in public safety, defense, inspections, and infrastructure management through proprietary drone engineering, advanced flight algorithms, and a robust data platform. Beyond technology, we drive efficiency, safety, and sustainability with impactful solutions.



Security

Public Safety & Physical Security



Defense

Domestic and International Defense & Enterprise Sectors



Infrastructure Inspection

Autonomous Inspection for Critical Facilities

Achievements

2025. Edison Award 2025
iR52 Jang Young-Sil Science and Technology Award 2025
CES 2025 Best of Innovation Award
iF DESIGN AWARD 2025

2024. Secured 1st place in the Attack Category at the Dronebot Challenge
Selected as a WEF 2024 Technology Pioneer
Red Dot Design Award 2024
iF DESIGN AWARD 2024
2023. Acquired three projects from the Defense Acquisition Program Administration (DAPA)
Forbes Asia's Top 100 Promising Companies
Microsoft Growth X Accelerator

2022. Gold Medal in the International AI Competition (Kaggle)
CES 2022 Innovation Award
Award for Outstanding Contribution to the Development of the Drone Industry (Minister of Land, Infrastructure and Transport, Korea)

Key Partners

Nearthlab expands its presence with long-term partnerships to drive innovation. We continuously enhance technology and create industry-wide value by collaborating with leading corporations and institutions.





























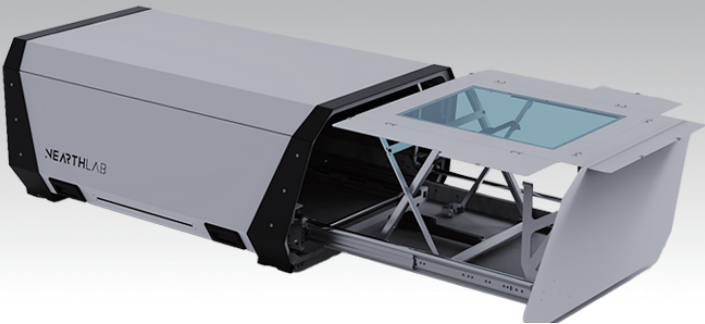








Surveillance & First Responder Drone Solution



AiDEN

Autonomous Drone for Surveillance & Security

- Edge Computing
- Vision AI
- Compact Design
- Swarm Operation

AiDEN is an autonomous surveillance and security drone with a light-weight design under 2 kg and a compact form, ensuring high portability and rapid on-site deployment. Powered by edge computing and AI autonomous flight control, AiDEN operates reliably in complex environments. Its swarm drone technology enables simultaneous multi-drone operations, enhancing mission efficiency. Integration with AiDEN STATION offers scalable operations and expanded mission capabilities, making it ideal for surveillance, security, and first responder missions.

- 1.99 kg Weight
- 610(L)×490(W)×195(H) mm Dimensions
- FHD 64 MP EO Video/Image
- BOSON 640×512 IR Video/Image
- 30 min, 3 km Flight Performance
- 5 - 2,000 m LRF

AiDEN STATION

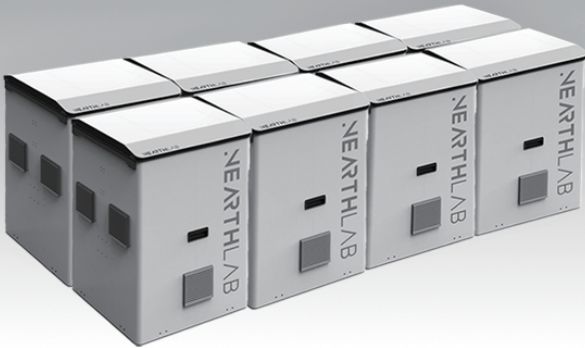
Unmanned Drone Station

- Precision Landing
- Automated Battery Swapping
- Deployable Control Center
- Unmanned Operation

AiDEN STATION is more than just a charging system — it is a fully automated solution equipped with autonomous and precise takeoff & landing and battery swapping capabilities for continuous operation. Designed to support rapid deployment and swarm missions, it enhances efficiency in dynamic environments. Serving as a deployable control center, AiDEN STATION can be seamlessly integrated into various industries. Its scalable deployment extends operational coverage, ensuring sustained and uninterrupted missions.

- 95 kg Weight
- 1470(L)×910(W)×540(H) mm Dimensions
- 5 Batteries Battery Compartment
- ~4 min, Battery Swapping
- IP66 Electronics IP

Counter UAS Defense Solution



KAïDEN

Autonomous Hard-Kill Drone

- Ultra-high-speed Flight
- Precision Strike
- Swarm Operation
- System Integration

KaïDEN is an autonomous hard-kill drone that intercepts and neutralizes airborne threats with ultra-high-speed flight (250 km/h+). Powered by Vision AI, KaïDEN is capable of real-time target detection and precise strikes for rapid and accurate mission execution. It operates in both air and ground domains with advanced swarm technology, ensuring combat effectiveness. A military-proven solution, KaïDEN enables stable integration into defense networks, enhancing operational efficiency.



2.7 kg
Weight



430(L)×430(W)×450(H) mm
Dimensions



250 km/h
Max Speed



5 km
Operational Range



1 kg
Payload Capability

KAïDEN LAUNCHER

Remote Launcher for Hard-Kill Drone

- Secure Storage
- All-Weather Deployment
- Rapid Response
- Remote Operation

KaïDEN LAUNCHER supports remote and autonomous deployment of KaïDEN drones, ensuring secure storage and rapid launch in military and defense operations. Designed for strategic wide-area deployment, KaïDEN LAUNCHER enables swarm operations and enhances operational sustainability in combat zones.



100 kg
Weight



5000(L)×1000(W)×700(H) mm
Dimensions



20 ea
Storage Capacity



IP66
Electronics IP



Remote
Control & Operation



In seconds
Launch Readiness

Inspection Solution



NEARTHWIND PRO
Autonomous Wind Turbine Inspection Drone

- Autonomous AI Inspection
- High-Resolution
- Reduced Inspection Time
- Customizable Configuration

NEARTHWIND PRO is an autonomous wind turbine inspection drone powered by Vision AI, designed to capture high-resolution data along blade edges for precise and efficient safety inspections with minimal manpower. By enhancing safety while reducing inspection downtime, NEARTHWIND PRO improves workplace safety and operational efficiency. Its customizable configuration enables optimal inspections across diverse industries.

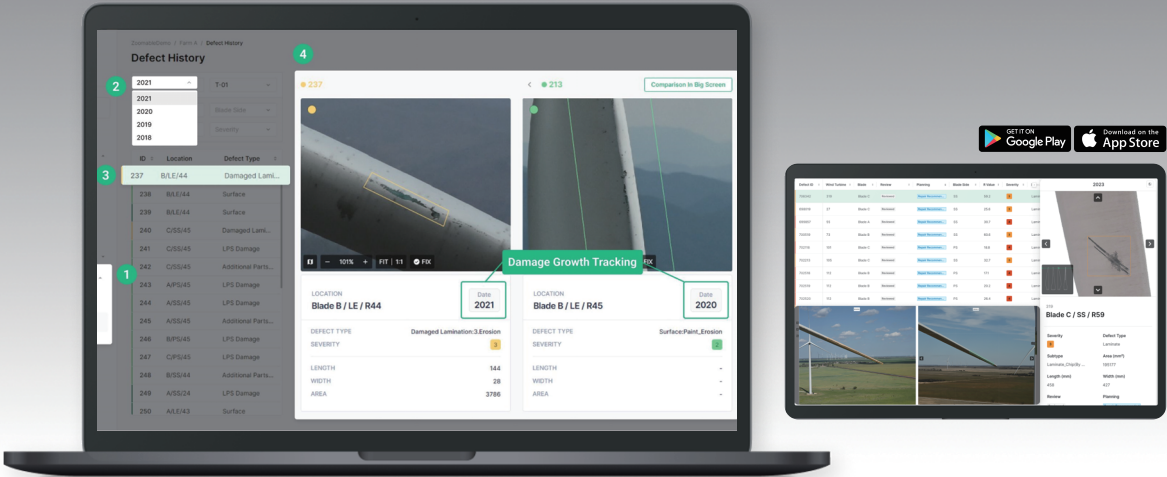
15 min. Inspection Time per Turbine	20 WTGs+ Daily Inspection Capacity	Below 1 mm Defect Detection Capability
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NEARTHWIND MOBILE
Subscription-Based Wind Turbine Inspection Mobile App

- Compatibility
- User Convenience
- Scalability
- Cost Efficiency

NEARTHWIND MOBILE is a subscription-based app that transforms commercial drones into automated facility inspection tools, powered by deep learning AI and autonomous flight. It is a highly scalable solution that can be integrated with off-the-shelf commercial drones. By reducing reliance on costly specialized equipment, it lowers operational costs and features an intuitive interface for seamless operation.

AI Data Management Solution



zoomable™

AI Data Management & Analysis Platform

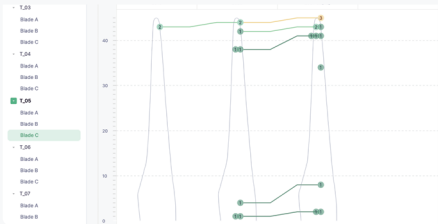
Automated Image Alignment

AI Data Analysis

Report Generation

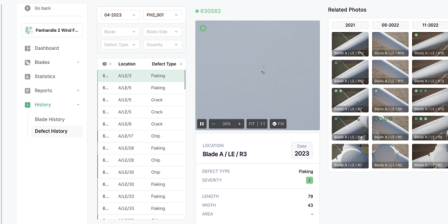
Flexible Expansion

Zoomable is a data management platform that automates data analysis with AI, maximizing inspection accuracy and efficiency. It supports data management for wind turbines, energy facilities, and industrial infrastructure, enabling comprehensive oversight from individual assets to large-scale sites. AI processes millimeter-level defect detection and automated image alignment. Zoomable also assesses risk severity, prioritizes maintenance tasks, and generates reports, creating a systematic maintenance workflow.



Customized Project Management

- Prediction of Turbine Lifecycle
- Sustainable Operations Through Time Series Tracking



Risk Severity Classification in 5 levels

Low High Severity



Data Processing in 3 steps

- 1 Data Collection
- 2 AI Analysis (Automated Stitching & Defect Detection)
- 3 Data Integration & Report Generation



Rapid Implementation

Surveillance & Reconnaissance Solution

Nearthlab provides combat-proven surveillance and reconnaissance drones, designed for defense and public sector operations. Equipped with high-magnification zoom and collision avoidance, our drones ensure stable surveillance in harsh conditions, including night operations and long-range monitoring. Built for quick setup and user-friendly operation, they support immediate deployment without AI dependency and offer modular payload options for flexible mission adaptability.

P-Zero

Application	Light Cargo Transportation Surveillance & Reconnaissance
Size	1285(L)×1235(W)×600(H) mm
Weight	14,9 kg
Payload Capacity	10 kg
Operating Time	40 min.
Operational Range	10 km
Max Speed	70 km/h
Crusing Speed	40 km/h



P-Seven

Application	Surveillance & Reconnaissance*
Size	610(L)×700(W)×330(H) mm
Weight	6 kg
Payload Capacity	500 g
Operating Time	30 min.
Operational Range (Altitude)	1,000 m (150m)
Max Speed	60 km/h
Crusing Speed	40 km/h



*8x-10x Optical Zoom for Day & Night Operations

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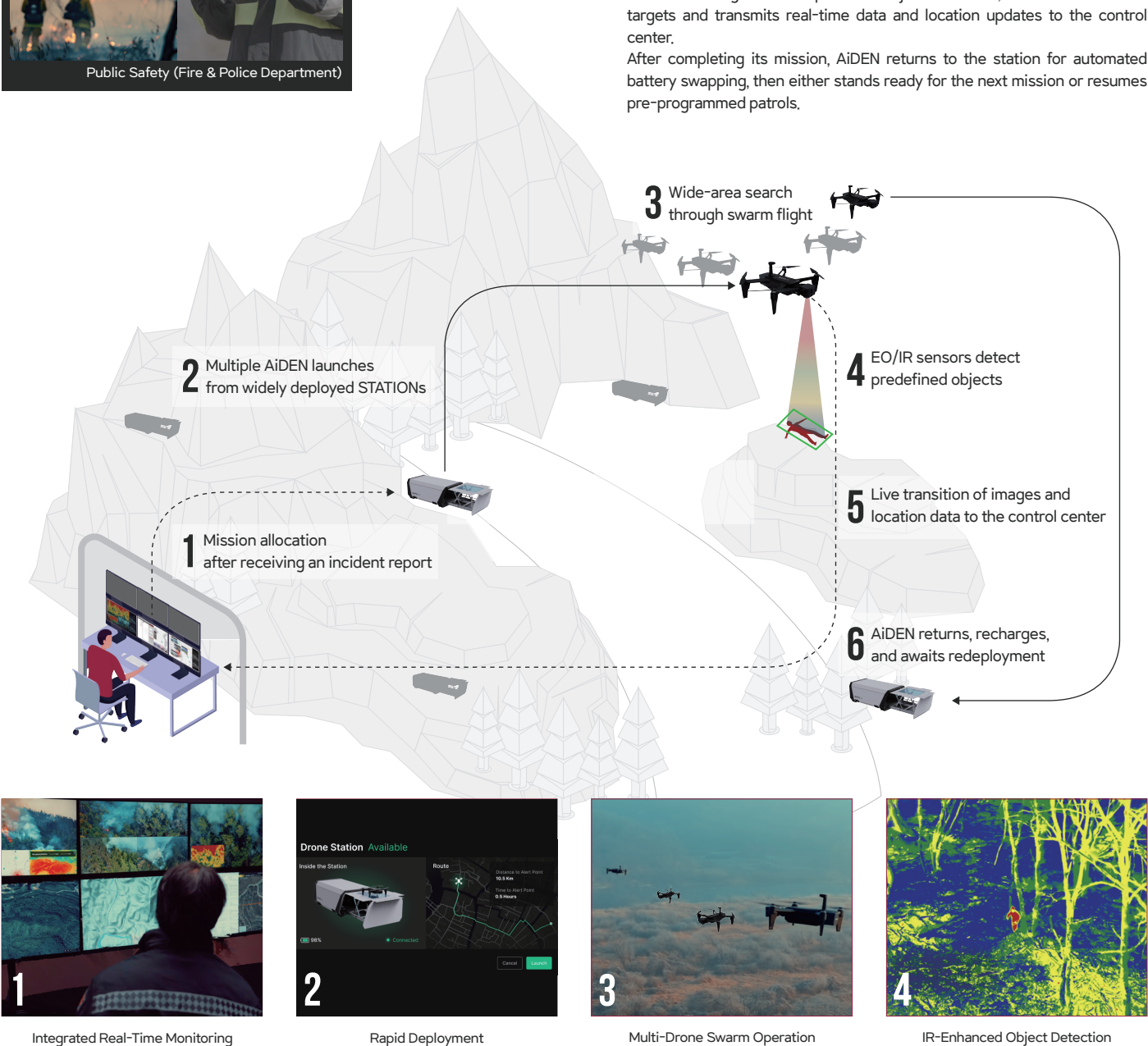
Bringing a New Perspective with Drones



From Search to Rescue:
Autonomous Reconnaissance Drones
Securing the Golden Hour

When an emergency arises, AiDEN rapidly deploys from the closest available station. Utilizing Vision AI-powered object detection, AiDEN searches for targets and transmits real-time data and location updates to the control center.

After completing its mission, AiDEN returns to the station for automated battery swapping, then either stands ready for the next mission or resumes pre-programmed patrols.

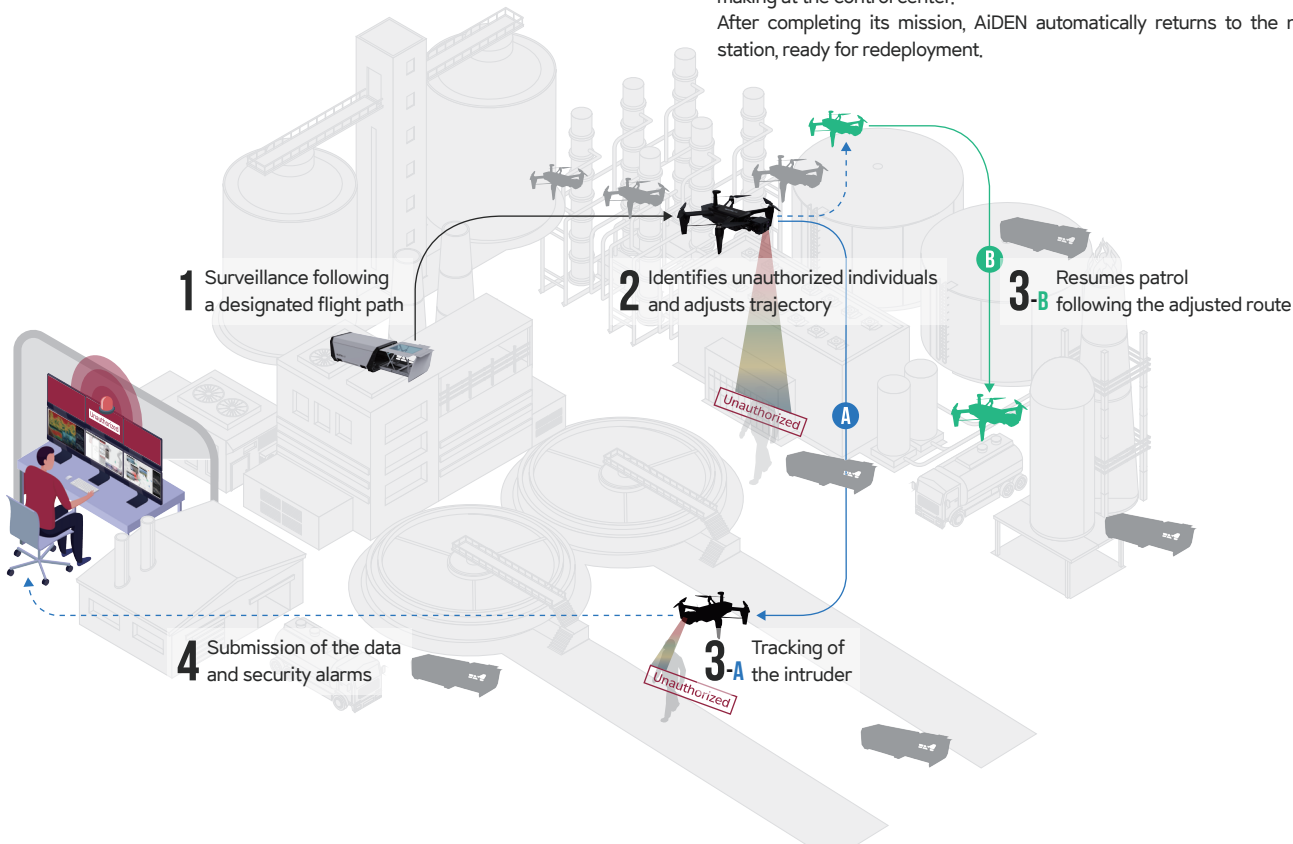


From Unmanned Drone Reconnaissance
to Facility Protection:
Next-Generation Security

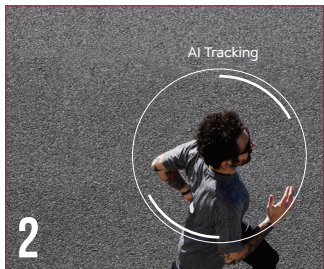
AiDEN autonomously patrols and secures critical infrastructure, detecting intrusions, fires, and security threats with Vision AI-powered real-time alerts.

By eliminating blind spots in traditional surveillance, AiDEN enables proactive threat detection and rapid response. When anomalies arise, AiDEN immediately moves to the target location to investigate, supporting fast decision-making at the control center.

After completing its mission, AiDEN automatically returns to the nearest station, ready for redeployment.



Unmanned Patrol Operation



Unauthorized Intruder Detection & Tracking



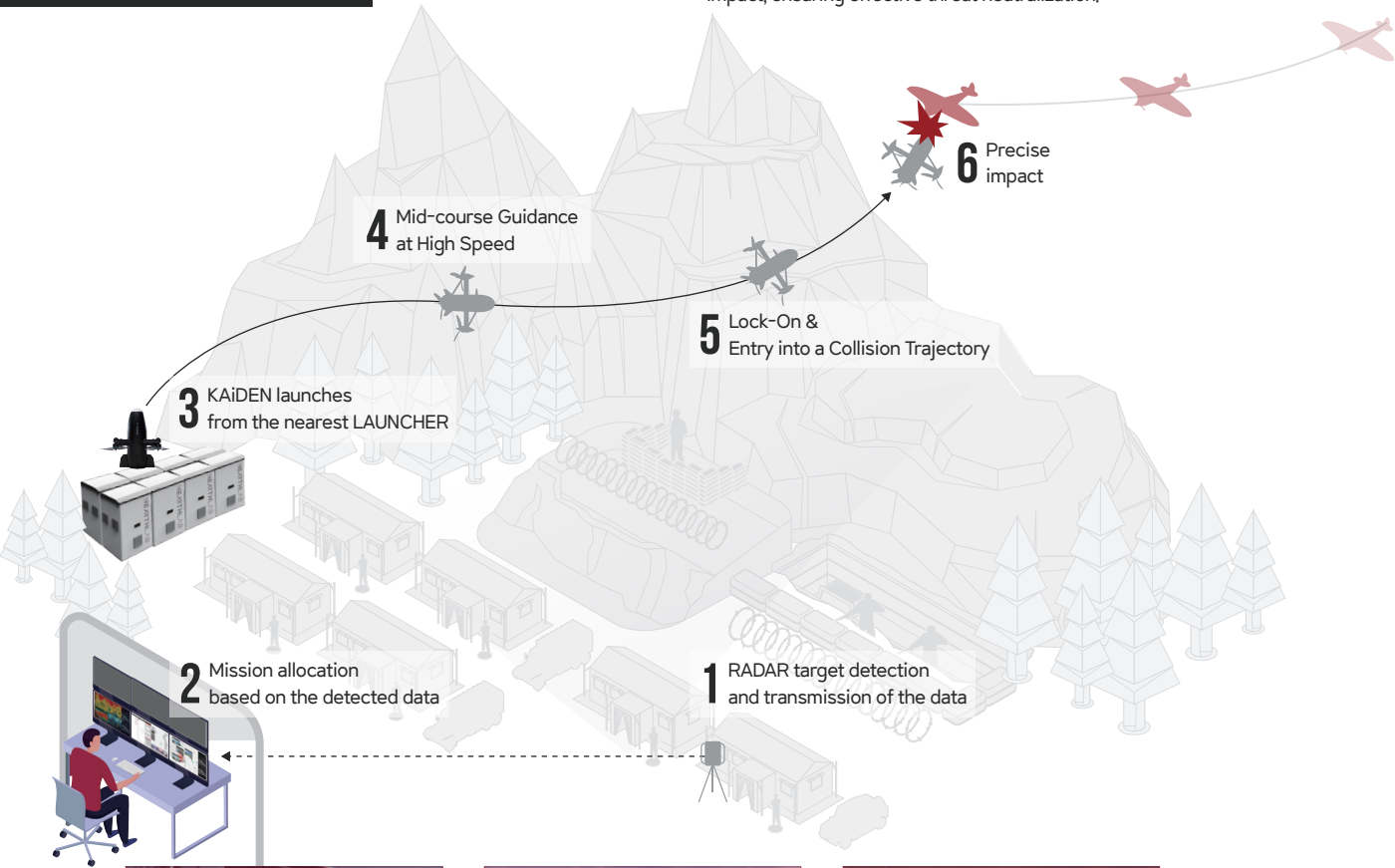
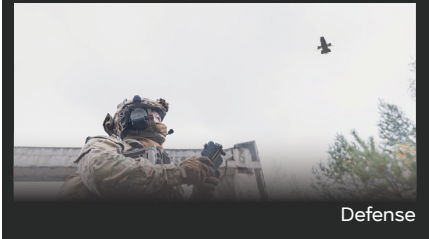
Dynamic Path Reallocation



Real-Time Data Transmission & Alert System

Autonomous Hard-Kill Counter-Drone Defense Solution

KAiDEN integrates with existing detection systems to identify and neutralize aerial threats. Utilizing Vision AI, it undergoes high-speed mid-course guidance before engaging in target detection and lock-on. Once locked on, KAiDEN optimizes its trajectory and distance, then executes a precise, high-speed terminal impact, ensuring effective threat neutralization.



Detection System & Integrated Response Solution



High-Speed Target Tracking



Precision Drone Interception System

Tactical Bombing Swarm Solution



XAiDEN

Swarm Autonomous flight Attack Drone



4 kg	10 min,+	120 km/h	10 km	2 kg
L510×W460×H210 mm	Operating Time	Maximum Speed	Operational Range	Payload Capability

- Swarm Recon & Attack
- Autonomous Tracking & Strike
- EW* Countermeasure
- Mortar Integration

*Electronic Warfare

XAiDEN is an autonomous swarm attack drone designed for high-speed, precision warfare. Equipped with an advanced AI-driven control system, it enables cooperative reconnaissance, autonomous target tracking, and dynamic mission execution. Rapidly deployable from stacked formations, XAiDEN is resistant to electronic warfare, including GPS and communication jamming. Leveraging AI-powered swarm intelligence, it identifies, pursues, and engages high-value targets in real time. Adaptable to evolving battlefield conditions, XAiDEN maximizes strike efficiency by coordinating multi-target engagements or executing concentrated precision strikes with mortars.



From swarm combat to EW countermeasure:

Tactical Bombing Swarm Solution

XAiDEN rapidly launches, forms formations, and navigates mission areas while maintaining stability in electronic warfare environments. Its onboard AI tracking system enables precision strikes on fixed and moving targets. For high-value targets, it executes synchronized Time-on-Target (TOT) strikes, minimizing enemy response time and maximizing impact. XAiDEN dynamically adapts to battlefield conditions, ensuring tactical efficiency.

