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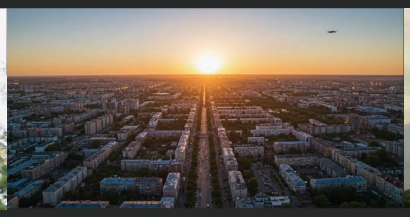
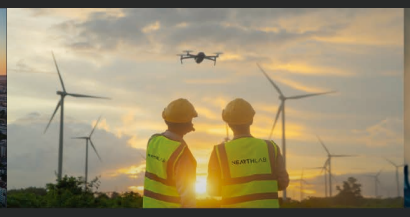
NEARTHLAB

LinkedIn

Bringing a New Perspective with Drones

NEARTHLAB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Brazil

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NEARTHLAB

A Leading Global Provider of Autonomous Flight Drone Solutions

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

2024 Winner of the Robotics and Aerial Integration for Defense Challenge, hosted by Korea's Ministry of Defense
World Economic Forum 2024 Technology Pioneer
Red Dot Design Award 2024
Fast Company's Most Innovative Companies in Robotics

2023 Secured three projects from the Defense Acquisition Program Administration (DAPA)
Forbes Asia 100 To Watch 2023
Microsoft Growth X Accelerator

2022 Gold Medal in the International AI Competition (Google's Kaggle)
CES 2022 Innovation Award
Recipient of the Minister's Award for Leadership in Drone Industry Innovation from Korea's Ministry of Land, Infrastructure and Transport (MLIT)

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.

NEARTHLAB

Surveillance & First Responder Drone Solution

Guaranteed NEARTHLAB Delivered to Military Quality

CES Innovation Awards 2025 Best of Innovation

iF DESIGN AWARD 2024

reddot winner 2024

AiDEN

Autonomous Drone for Surveillance & Security

- **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 — Performance
- **5 ~ 2,000** m — LRF

Edge Computing · Vision AI · Compact Design · Swarm Operation

AiDEN is an autonomous surveillance and security drone with a lightweight 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.

AiDEN STATION

Unmanned Drone Station

- **95** kg — Weight
- **1,470**(L)×**910**(W)×**540**(H) mm — Dimensions
- **5** Batteries — Compartment
- **~4** min. — Battery Swapping
- **IP66** — Electronics IP

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, STATION can be seamlessly integrated into various industries. Its scalable deployment extends operational coverage, ensuring sustained and uninterrupted missions.

Note: Some technical specifications in this brochure are under development and may be updated without prior notice. For the latest information, please contact Nearthlab.

NEARTHLAB

Counter UAS Defense Solution

KAiDEN

Autonomous Hard-Kill Drone

- **2.8** kg — Weight
- **455**(L)×**455**(W)×**400**(H) mm — Dimensions
- **250** km/h — Max Speed
- **5** km — Operational Range
- **1** kg — Payload Capability

Ultra High-speed Flight | Precision Strike | Swarm Operation | System Integration

KAiDEN is an autonomous hard-kill drone that intercepts and neutralizes airborne threats with ultra-high-speed flight (250 km/h+). Powered by vision AI, KAiDEN 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, KAiDEN enables stable integration into defense networks, enhancing operational efficiency.

KAiDEN LAUNCHER

Remote Launcher for Hard-Kill Drone

- **≤35** kg — Weight
- **620**(L)×**620**(W)×**908**(H) mm — Dimensions
- **1** ea — Compartment
- **IP65** — Electronics IP
- **Remote** — Control & Operation
- **In seconds** — Launch Readiness

Secure Storage | All-weather Deployment | Rapid Response | Remote Operation

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

(*Specs refer to one LAUNCHER only;*
the system supports multi-unit configuration for expanded operation.)

Note: Some technical specifications in this brochure are under development and may be updated without prior notice. For the latest information, please contact Nearthlab.

NEARTHLAB

Inspection Solution

NEARTHWIND Pro

Autonomous Wind Turbine Inspection Drone

- **7 kg** — Weight (incl. Battery)
- **800(L)×610(W)×330(H) mm** — Dimensions
- **-10 ~ 40 °C (14 ~ 104 °F)** — Operational Temperature
- **61 MP** — Camera
- **1 kg** — Payload Capability

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.

NEARTHWIND Mobile

Subscription-based Wind Turbine Inspection Mobile App

GET IT ON Google Play | Download on the App Store

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.

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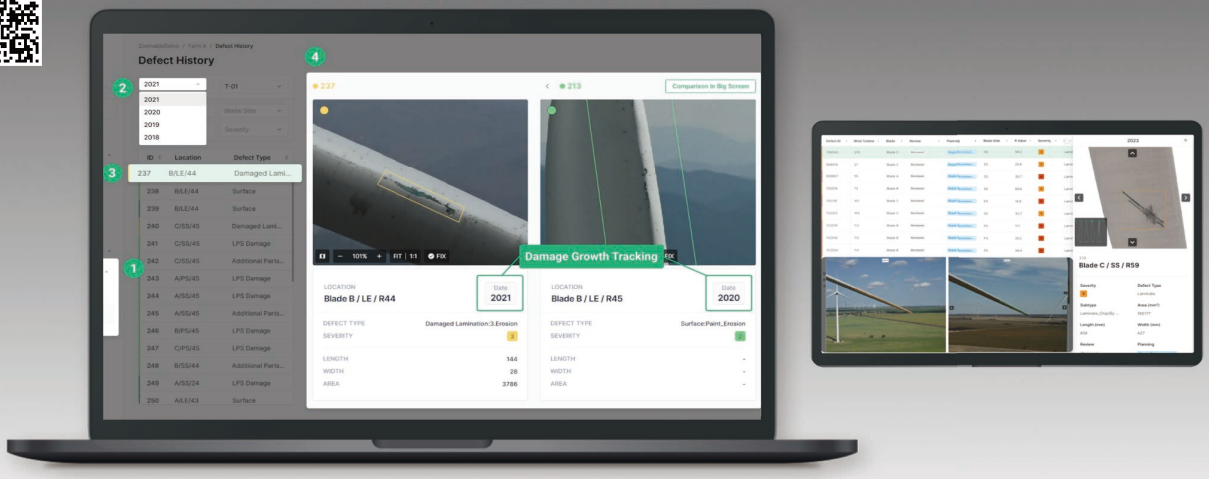
NEARTHLAB

AI Data Management Solution



DESIGN AWARD 2025

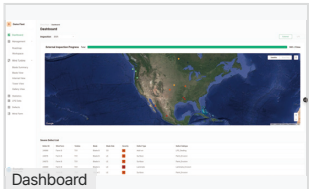
zoomable™

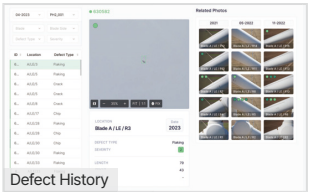
AI Data Management & Analysis Platform

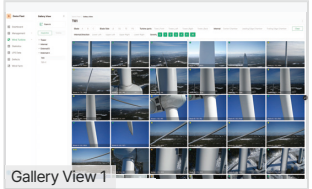
GET IT ON Google Play · Download on the App Store

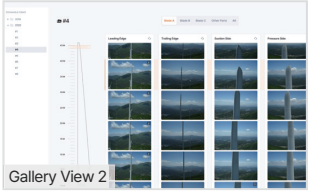
Automated Image Alignment · AI Data Analysis · Report Generation · Flexible Expansion

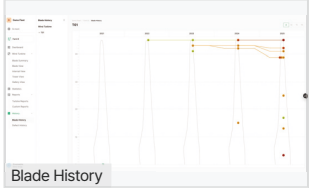
Zoomable is a data management platform that automates data analysis with AI, maximizing inspection accuracy and efficiency. It supports data management for wind turbines, energy facilities, and industrial infrastructure, enabling comprehensive oversight from individual assets to large-scale sites. AI 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.


Dashboard


Defect History


Gallery View 1


Gallery View 2


Blade History


LPS Data

Smart Capture, Intelligent Analysis, Rapid Reporting

1 **15+ min.**
Autonomous Inspections within 15 Minutes

2 **1 day**
Effortless Data Integration with Zoomable

3 **10 days**
Full Report Generation within 10 Days

NEARTHLAB

Rapid Implementation

Surveillance & Reconnaissance Solution

Guaranteed NEARTHLAB Delivered to Military Quality

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	1,285(L)×1,235(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
Cruising 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 (150 m)
Max Speed	60 km/h
Cruising Speed	40 km/h

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

Note: Some technical specifications in this brochure are under development and may be updated without prior notice. For the latest information, please contact Nearthlab.

Surveillance & First Responder Drone Solution

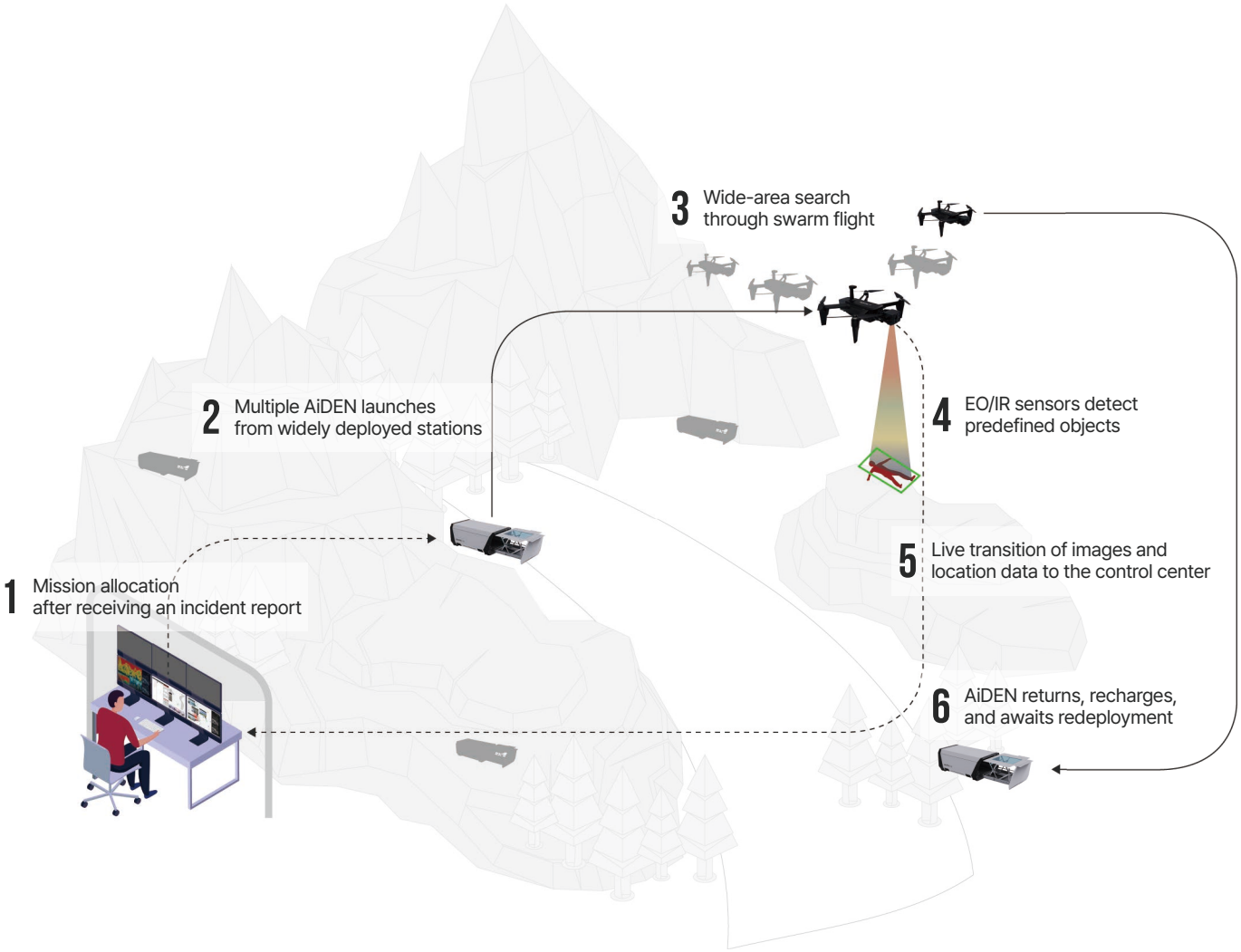
for Public Safety

Public Safety (Fire & Police Department)

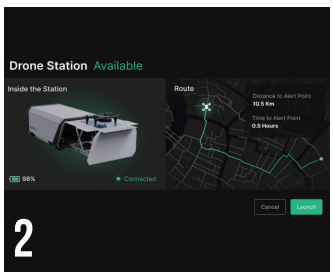
AiDEN + **AiDEN STATION** + System Integration

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.

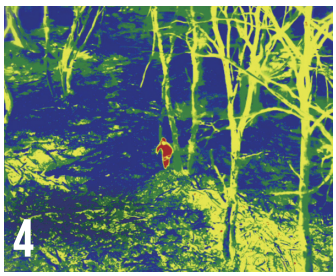


Integrated Real-Time Monitoring



Rapid Deployment

Multi-Drone Swarm Operation



IR-Enhanced Object Detection

Surveillance & First Responder Drone Solution

for Facility Safety

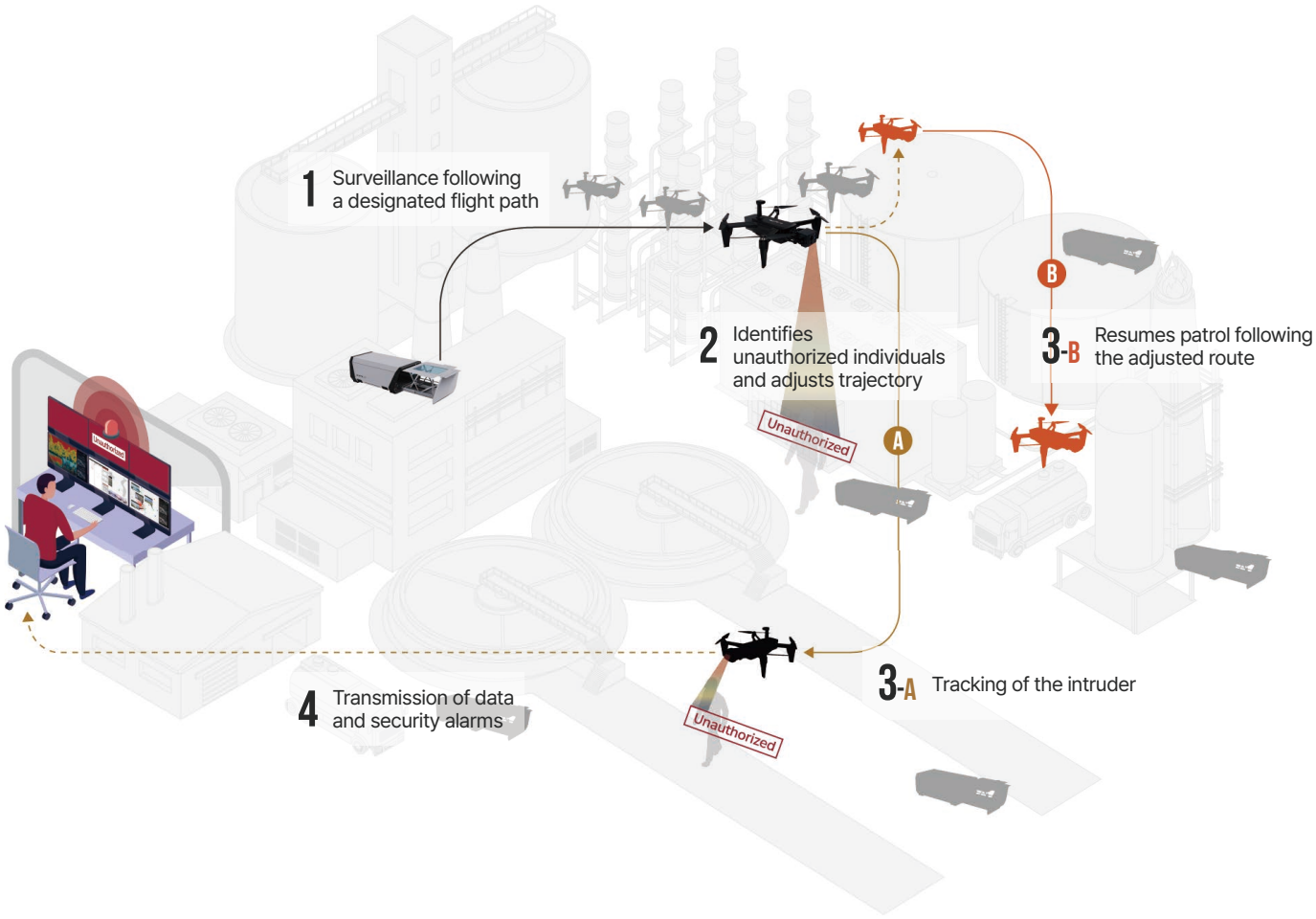
Physical Security

AiDEN + **AiDEN STATION** + System Integration

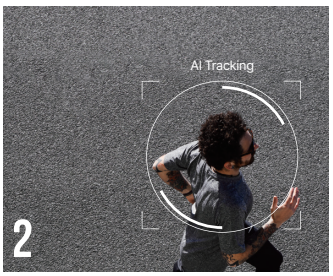
From Unmanned Drone Reconnaissance to Facility Protection:

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

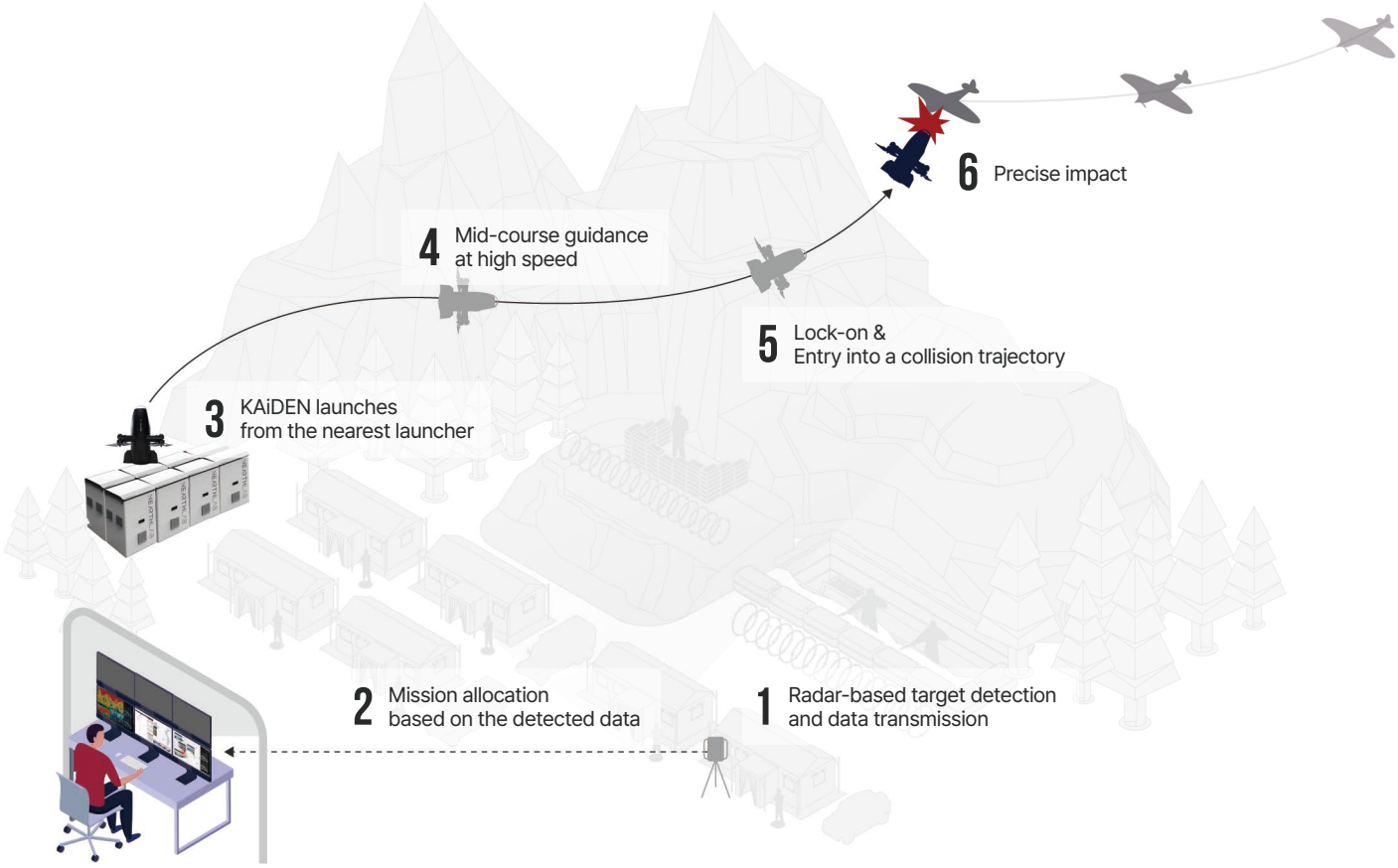
Counter UAS
Defense Solution

Defense

KAiDEN + KAiDEN LAUNCHER + System Integration

Autonomous Hard-Kill Counter-Drone Defense Solution

KAiDEN integrates with existing detection systems to identify and neutralize aerial threats. Utilizing vision AI, it undergoes 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

Immediate Launch

High-Speed Target Tracking

Precision Drone Interception System