C-UAS SOLUTION PROVIDER

THE ULTIMATE IN DEFENSE TECHNOLOGY,
EXPERIENCE INNOVATION NOW.

DYMSTEC

TABLE OF CONTENTS

COMPANY BACKGROUND

ABOUT DYMSTEC

Dymstec delivers comprehensive, end-to-end Counter-Unmanned Aerial Systems (C-UAS) solutions engineered to detect, identify, track, and neutralize unauthorized drones with precision and efficiency. Leveraging advanced RF technology, our systems are available in various configurations – stationary, portable, and vehicle-mounted to address the unique demands of defense, critical infrastructure, and public safety sectors.

COMPANY BACKGROUND

Based in South Korea, Dymstec is a defense technology company with nearly three decades of expertise in RF engineering. We specialize in C-UAS systems, with a strong focus on the 'Detect' and 'Neutralize' phases of the counter-drone kill chain.

Our product portfolio includes advanced RF disruptors and detection systems that are fully integrated with our proprietary Command and Control (C2) software platform, supporting seamless multi-sensor fusion and real-time threat response.

With dedicated in-house teams managing R&D, production, technical support, and lifecycle maintenance, Dymstec ensures fast deployment and long-term operational reliability.

Trusted by the Republic of Korea Armed Forces, national police, and public agencies — including notable international clients — Dymstec has a strong track record in both domestic and global markets, delivering proven solutions for securing airspace and safeguarding national security.

FIELD-TESTED, MISSION-READY SOLUTIONS

- Open-architecture design for seamless integration with third-party systems
- AI/ML-driven multi-sensor fusion ensures accurate, real-time threat detection
- Real-time drone detection, identification, tracking, and RF-based neutralization
- Automated deployment of both defensive and offensive countermeasures
- Scalable, modular systems adaptable to evolving threat environments

C2 C-UAS SOFTWARE

C2(Command and Control) C-UAS SOFTWARE

Dymstec's C2 C-UAS software serves as the mission-critical hub for drone defense operations. It coordinates real-time detection, tracking, identification, and neutralization of unauthorized drones by integrating multiple sensors and countermeasures into a unified platform. Designed for seamless interoperability, the software consolidates radar feeds, RF detectors, EO/IR cameras, and RF disruptor systems into a single, coherent operating picture. This gives security operators instant situational awareness and control, enabling rapid, precise responses to airborne threats with confidence.

KEY FEATURES

- Intelligent Automated Threat Response : Advanced algorithms enable automatic detection, tracking, and response to drone threats based on preset rules, minimizing response time. Operators retain full control, with the ability to override actions at any stage, ensuring safety and oversight.

- Unified Sensor & Effector Integration : Dymstec's C2 software integrates detection and neutralization tools—3D radar, RF detector, EO/IR camera, and RF disruptor —into a centralized system with a unified operating picture. A single interface delivers real-time situational awareness, while its open architecture ensures seamless integration with third-party systems, future-proofing the solution as new technologies emerge.

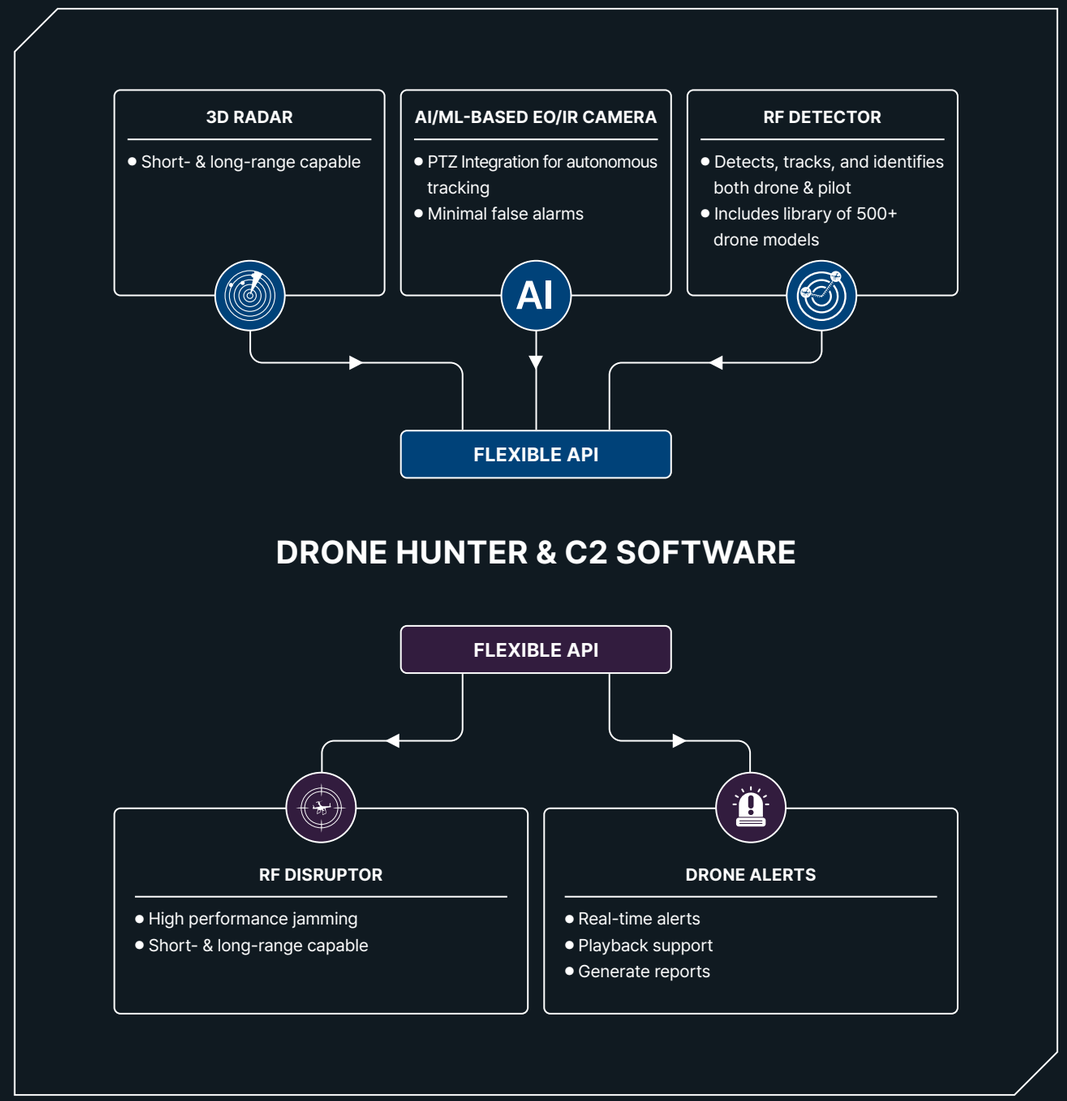
- High-Performance Real-Time Operation : Optimized for reliability and speed, the software processes large volumes of sensor data with minimal latency for instant threat detection and visualization. It ensures 24/7 reliable performance with secure communications, robust fail-safes, and scalability from single to multi-site deployments.

- Operator-Centric Interface & Layered Workflows : Designed for clarity under pressure, Dymstec's intuitive C2 interface displays real-time drone data—location, path, and status—for rapid assessment. A step-by-step mitigation workflow guides operators from detection to response, enabling precise, controlled actions while ensuring full user control.

AI-BASED MULTI-SENSOR FUSION C-UAS CAPABILITY

AI-BASED MULTI-SENSOR FUSION C-UAS CAPABILITY

Dymstec's C-UAS solution delivers a fully integrated command and response platform by leveraging AI-driven multi-sensor fusion across 3D radar, RF detectors, EO/IR camera, and RF disruptor technologies. Through intelligent coordination of these detection and neutralization assets, the system enables real-time threat identification, autonomous classification, and multi-layered response with high precision. The integration of artificial intelligence significantly enhances operational efficiency, reduces false alarms, and ensures fast, accurate countermeasures against unauthorized drones even in dense or complex environments.



C-UAS SOLUTION DEPLOYMENT OPTIONS

DEPLOYMENT OPTIONS

Dymstec offers a comprehensive suite of C-UAS solutions tailored to meet diverse operational requirements. Our systems are designed for flexible deployment across a variety of environments, with configurations available in portable, vehicle-mounted, and stationary formats. From standalone detection units to fully integrated threat neutralization systems, Dymstec provides scalable solutions that can be customized to meet mobility constraints, mission objectives, and site-specific demands.

PHASE 1 : DETECTION – RF-BASED THREAT AWARENESS

At the core of the system is Dymstec's advanced C2 software, seamlessly integrated with RF detection sensors. Using cognitive signal analysis and protocol decoding, the system provides real-time detection, classification, and geo-location of unauthorized drones—enabling early threat detection and enhanced situational control.

PHASE 2 : IDENTIFICATION & TRACKING – 3D RADAR AND AI/ML-ENHANCED EO/IR CAMERA

Building upon the RF detection layer, this phase incorporates 3D radar and AI/ML-powered EO/IR sensors. The system effectively distinguishes drones from birds and other aerial objects, visually identifies threats, and maintains persistent tracking—even in cluttered or long-range operational scenarios.

PHASE 3 : NEUTRALIZATION – RF-BASED SOFT KILL

To complete the kill chain, Dymstec deploys RF jamming technology to disrupt drone command links and GNSS signals. This non-kinetic approach safely disables drones without causing physical damage. Each neutralization solution is customized to align with the customer's operational requirements and environmental constraints.

This table below explains the system concept for C-UAS system deployment options, showcasing the multi-phased solution.

DRONE HUNTER : MULTI-LAYERED SOLUTION

MODELS			1km	2km	3km	5km	8km
DETECT	RADAR	32PLUS					
		128PLUS					
		192PLUS					
	RF DETECTOR	XD1					
		XD2					
IDENTIFY·CLASSIFY·TRACK	AI/ML CAMERA	M1					
		M2					
NEUTRALIZE	RF DISRUPTOR	XR					
		FD3					
		FD5					
		FD8					
C2 SOFTWARE							

RADAR SYSTEM : 3D RADAR

OVERVIEW

The Drone Detection 3D Radar is designed to detect small flight targets using advanced AESA technology. It features a compact, single-unit radar system that becomes fully operational when connected to a power source and a laptop.

Lightweight and easy to transport, it uses the FMCW method to deliver high detection performance even at low transmit power.

KEY FEATURES

- Modular flat-panel design enables flexible deployment based on surveillance scope
- 360° coverage achieved by arranging four panels at 90° intervals
- Optional fifth panel provides overhead coverage for full dome protection
- AESA technology ensures precise beam steering and minimizes false detections
- Radar data seamlessly integrates into a unified command platform

SPECIFICATIONS

TYPE	RX32PLUS	RX128PLUS	RX192PLUS
Detection Range	1.8km	4.5km	7km
MIL-STD	Compliant with MIL-STD-810 Standard	Compliant with MIL-STD-810 Standard	Compliant with MIL-STD-810 Standard
IP Rating	IP66	IP66	IP66
Dimension	187(W) x 327(H) x 110(D) mm	303(W) x 549(H) x 108(D) mm	416(W) x 700(H) x 128(D) mm

RF DETECTOR : DRONE HUNTER XD

OVERVIEW

Drone Hunter XD uses cognitive protocol cracking technology and message protocol-level analysis to detect, identify, locate, and track drones.

It can be easily carried by one person in a backpack, mounted on a vehicle, or stationed at the buildings, as well as deployed portably in the field.

KEY FEATURES

- Frequency Coverage : 400MHz to 6GHz
- Max. Drone Detection Range : Up to 2km
- Detection Type : Drone protocol decoding
- RF Detection Coverage : 360-degree
- C2 Integration : Supports autonomous systems with minimal false alarms
- Location Tracking : Locates both the drone and its pilot
- Deployment Options : Stationary / Portable / Manpack capability

ADDITIONAL FEATURES

NATIVE PROTOCOL DECODING

Supports DJI OcuSync protocols (1, 2, 3, 4) to provide real-time location data of both drones and controllers. Unencrypted signals can be directly decoded within the local environment.

REMOTE ID DECODING

Compatible with FAA-standard Remote ID protocols, enabling the display of drone location information when such signals are broadcast. Availability of Remote ID signals may vary depending on drone model, region, and operational conditions.

SPECTRUM DETECTION LIBRARY

Detects drone activity by analyzing control and video transmission signal characteristics, covering a wide frequency range from 300 MHz to 6 GHz. This mode identifies the presence of drones without providing location data. Unregistered signals can be added to the detection library via manual logging.

AI/ML-BASED EO/IR CAMERA FOR REAL-TIME VIDEO ANALYSIS

OVERVIEW

A camera system with a unique, modular design that uses cutting-edge AI/ML-powered video analytics technology to accurately detect, track, and identify drones at ranges of up to 2 km.

Equipped with advanced AI, the system can rapidly recognize various drone types and models by analyzing their visual signatures.

KEY FEATURES

- Detection Range : Up to 2km
- Field of View : 30° ~ 360°
- PAN/TILT/ZOOM (PTZ) Camera
- Autonomous operation
- Easy system integration
- Delivers recorded visual proof
- AI-based drone classification with 98% accuracy

ADDITIONAL FEATURES

- AI/ML-powered autonomous track interrogation and alert promotion
- Real-time detection and classification of drones in EO/IR and thermal video streams
- Intelligent, automated PTZ camera tracking
- Compatible with most industry-grade HD & 4K ONVIF-compliant cameras
- Extensive pre-processing pipeline and tracking algorithms
- Automated sensitivity control for accurate detection
- Static drone detection and interpolation of missing frames
- Predictive drone path modeling using advanced movement algorithms
- On-site calibration of all physical/geospatial camera parameters

PORTABLE RF DISRUPTOR : DRONE HUNTER XRS

OVERVIEW

DRONE HUNTER XRS is a portable, all-in-one design that integrates the antenna, main equipment unit, and battery. It is shaped like a rifle, allowing for the attachment of a scope and vertical grip, which makes it convenient to carry and aim. The XRS can also be linked with the Drone Hunter XD, enabling rapid response to drone targets detected by the XD system.

The DRONE HUNTER XRS is a portable, all-in-one solution that integrates the antenna, main control unit, and battery into a compact, rifle-style design. It features a scope and vertical grip for enhanced portability and ease of aiming. The XRS can also be linked with the DRONE HUNTER XD solution, enabling rapid response to drone threats detected by the XD's wide-area drone detection capabilities.

SPECIFICATIONS

TYPE	DETAILS
Operation Time	1 hour (Single battery pack)
Dimensions (L x W x H)	800 × 250 × 105 mm
Weight	5.7kg
Frequency Bands	ISM; GNSS L1, L2 & L5
Jamming Range	1km (Capable of simultaneously disrupting communication, video, and GNSS signals)
IP Rating	IP65
Operating Temperature	-20°C ~ +55°C

LONG RANGE RF DISRUPTOR : DRONE HUNTER FD & LFD

DRONE HUNTER FD

DRONE HUNTER LFD

OVERVIEW

The DRONE HUNTER FD & LFD are part of Dymstec's Long Range RF Disruptor Solution, engineered to neutralize a wide range of drone threats – including commercial UAVs and drone swarms. Both the models are market-proven and field-tested, with successful deployments across a wide range of operational environments. The solution supports flexible deployment in stationary, portable, or vehicle-mounted configurations, allowing users to adapt the system to mission-specific needs.

KEY FEATURES

- Stationary/mobile operation
- Integrates with C2 C-UAS software for centralized monitoring and control
- Enhanced usability with an all-in-one integrated antenna design

SPECIFICATIONS

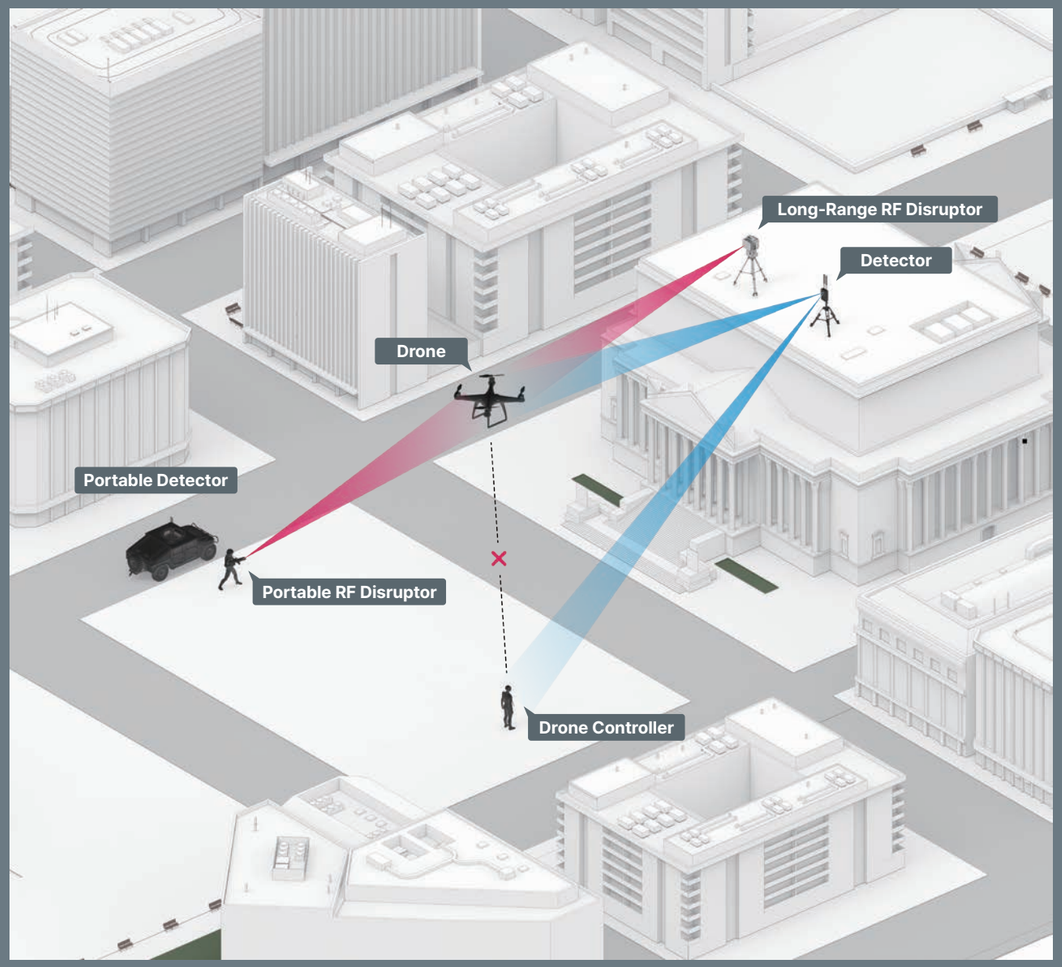
TYPE	DRONE HUNTER FD	DRONE HUNTER LFD
Jamming Range	ISM/GNSS : 5km	ISM : 15km (3:1 ratio) / GNSS : 15km
MIL-STD	Compliant with MIL-STD-810G standard	Compliant with MIL-STD-810G standard
		Compliant with MIL-STD-461F standard
IP Rating	IP67	IP67

C-UAS SOLUTIONS : VIP PROTECTION

OVERVIEW

Effective VVIP protection begins with the early detection of unauthorized drones and their operators.

Dymstec's C-UAS solution enhances security by providing flexible counter-UAS solutions tailored for VVIP protection. It is perfectly suited for personal security teams, law enforcement agencies, and governmental organizations tasked with safeguarding high-profile individuals in sensitive urban environments.



APPLICATION AREAS

CRITICAL FACILITIES	AIRPORTS	VIP PROTECTION

TACTICAL KIT

OVERVIEW

As part of our deployment options for C-UAS solution, we offer a tactical deployment option utilizing the Drone Hunter XD (RF detector) and the Drone Hunter XRS (RF disruptor).

The Drone Hunter XD can be positioned near the area requiring protection to detect potential drone threats. Detected threats are relayed in real-time to the XRS operator, enabling a swift and coordinated response.

This integrated setup offers reliable protection against drone threats in high-security environments.

KEY FEATURES

- Immediate response to drone threats
- Receive drone target location via the C2 C-UAS software installed tablet or mobile application
- Drone Detection Range : up to 2km
- Drone Jamming Range : up to 1km
- Precision jamming to minimize collateral damage
- Tactical flexibility for various situations

ADDITIONAL FEATURES

- Lightweight and portable for easy field deployment
- Compatible with various drone types and frequency bands
- Real-time signal analysis and tracking capability
- Operable by a single person with minimal training required
- Supports multiple deployment options, including portable setup
- Fast system boot-up time, ensuring rapid deployment in emergencies

MANPACK PORTABLE KIT

OVERVIEW

For rapid, mobile operations, we offer a manpack portable C-UAS solution that integrates the Drone Hunter XD for real-time RF detection and the Drone Hunter XRS for swift drone neutralization.

Designed for quick deployment and ease of use, this compact, field-ready system gives security teams full situational awareness and immediate response capability.

This deployment option is ideal for dynamic VVIP protection scenarios where agility and reliability are critical.

KEY FEATURES

- Drone Detection Range : up to 2km
- Drone Jamming Range : up to 1km
- Immediate response to drone threats
- Receive drone target location via the C2 C-UAS software installed tablet or mobile application
- High portability
- Rapid deployment within 5–10 minutes

ADDITIONAL FEATURES

- Lightweight and portable design for easy field deployment
- This kit operates independently, without the need for a vehicle-mounted or stationary infrastructure.
- Real-time signal analysis and tracking capability
- Operable by a single person with minimal training required
- Supports multiple deployment options, including portable setup
- Fast system boot-up time, ensuring rapid deployment in emergencies

VEHICLE-MOUNTED KIT

OVERVIEW

VVIP vehicles are vulnerable to drone threats from above, making real-time protection crucial. Our solution enables on-the-move drone detection by mounting the Drone Hunter XD on vehicles, providing continuous coverage during transit.

This vehicle-mounted option is designed for flexibility and compatibility with virtually any vehicle platform, ensuring that security teams maintain full mobility while leveraging critical C-UAS capabilities.

KEY FEATURES

- Drone Detection Range : up to 2km
- Includes the Drone Hunter XRS Portable RF Disruptor
- Ruggedized on-vehicle tablet PC installed with C2 C-UAS software.
- Ideal for VIP convoy protection and long-range patrol operations
- Enhances high-mobility operations

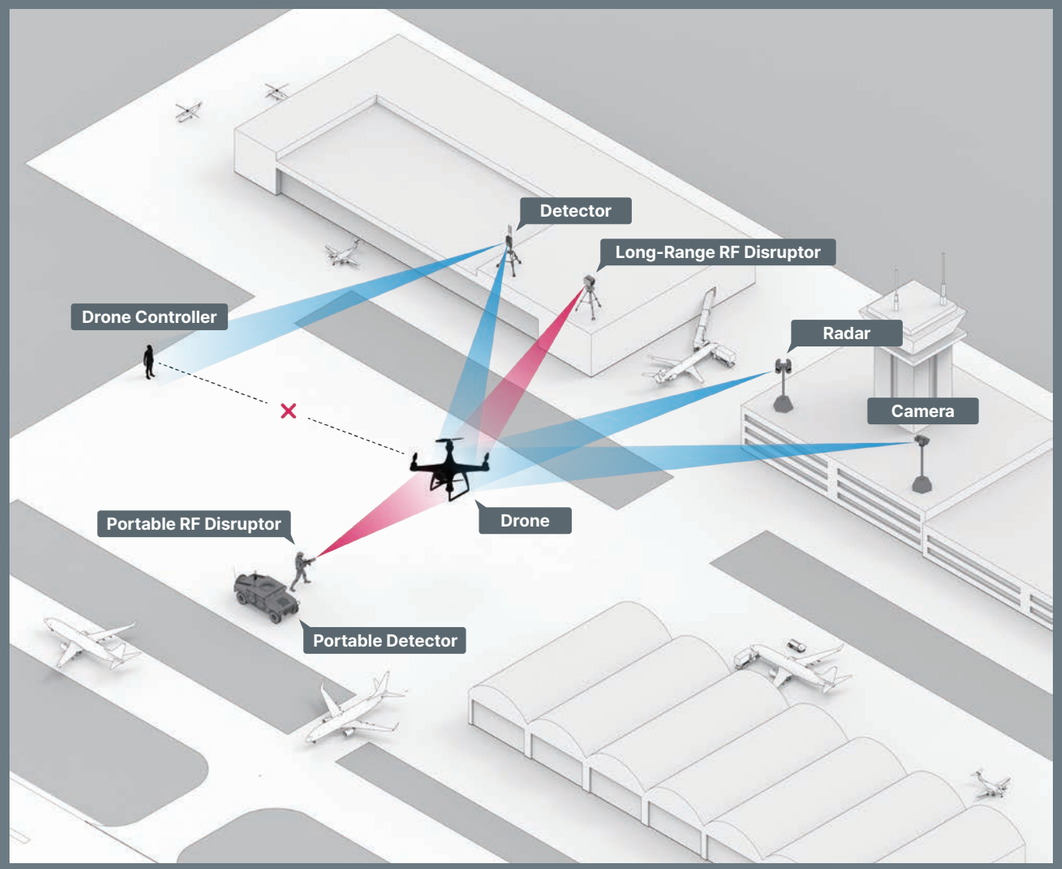
ADDITIONAL FEATURES

- Real-time drone detection and tracking while in motion
- Seamless integration with a wide range of commercial and military vehicle platforms
- Real-time signal analysis for enhanced threat assessment
- Supports portable RF Disruptors for flexible response options
- Operable by a single person or a two-person team with minimal training
- Compatible with soft-kill countermeasures, with optional expansion available

C-UAS COMPLETE KILL CHAIN SOLUTION

PROTECT YOUR FACILITIES AND PERSONNEL WITH A SCALABLE, AI/ML-ENHANCED, MULTI-LAYERED C-UAS SOLUTION—ENGINEERED TO COUNTER TODAY'S COMPLEX AERIAL THREATS.

- Seamlessly integrates detection, identification, and soft-kill neutralization technologies for comprehensive, end-to-end protection.
- Combines advanced RF Disruptor and AI/ML-powered detecting sensors to effectively counter evolving drone threats - whether stationary, portable or on the move
- Automates drone detection and response, minimizing reliance on surveillance personnel while ensuring 24/7 situational awareness



APPLICATION AREAS

CRITICAL FACILITIES	AIRPORTS	VIP PROTECTION

BASE KIT

OVERVIEW

The base kit enables both RF detection and defeat capabilities using a single mast setup. It includes a ruggedized C2 laptop, multiple rugged RF sensors, an RF-based jamming unit, a mast, and all necessary peripherals. The system provides a unified interface that allows operators to manage all subsystems while supporting automated threat verification for faster, more accurate responses.

KEY FEATURES

- 360° RF detection coverage
- Easily expandable to incorporate multiple remote nodes or other tactical sensors via a mesh network
- C2 C-UAS software enables autonomous system performance with minimal false alarms
- Robust drone library with recognition of nearly 500+ drone types
- Electronic Warfare (EW) defeat capability

ADDITIONAL FEATURES

- Real-time drone location displayed via connected interface
- Optimized for fixed-site deployment across diverse and challenging terrains
- Expandable modular setup supporting additional masts, sensors, or remote nodes
- Rugged, all-weather design built to endure extreme environments such as dust, rain, heat, and cold
- Optimized for fixed-site deployment across diverse and challenging terrain conditions, including military bases, government facilities, critical infrastructure sites, and event venues

EXTENDED KIT

OVERVIEW

The Extended Kit adds AI/ML-enhanced optical detection capabilities, enabling the detection of non-RF drones—such as autonomously navigated drones—and providing visual confirmation of aerial threats.

KEY FEATURES

- C2 C-UAS software enables autonomous operation with reduced false alarms.
- 360° RF detection coverage
- Robust drone library with recognition of nearly 500+ drone types
- AI-enabled 360° optical coverage with autonomous image and behavior recognition for real-time threat confirmation
- Electronic Warfare (EW) defeat capability
- Easily expandable to incorporate multiple remote nodes or other tactical sensors via a mesh network

ADDITIONAL FEATURES

- The Extended Kit includes a second mast equipped with an RF detector and EO/IR camera, enhancing both RF detection and visual identification
- Seamless integration of EO/IR cameras for enhanced visual tracking and identification
- Automatic target classification based on AI/ML-driven behavior analysis
- Designed for mission-critical operations in complex urban or remote environments
- Ruggedized, weather-resistant design built to withstand extreme environmental conditions (dust, rain, heat, and cold)

COMPLETE KIT

OVERVIEW

The Complete Kit enhances the system by adding a second mast equipped with radar capabilities, enabling detection of non-RF drones—such as autonomously navigated drones—and providing visual threat confirmation. This expanded setup delivers a fully integrated, multi-sensor solution for comprehensive airspace protection.

KEY FEATURES

- C2 C-UAS software supports autonomous performance with high accuracy and minimal false alerts.
- 360° RF detection coverage
- Robust drone library with recognition of nearly 500+ drone types
- 360° optical surveillance enhanced by AI for real-time visual verification and autonomous threat assessment
- Electronic Warfare (EW) defeat capability
- Easily expandable to incorporate multiple remote nodes or other tactical sensors via a mesh network

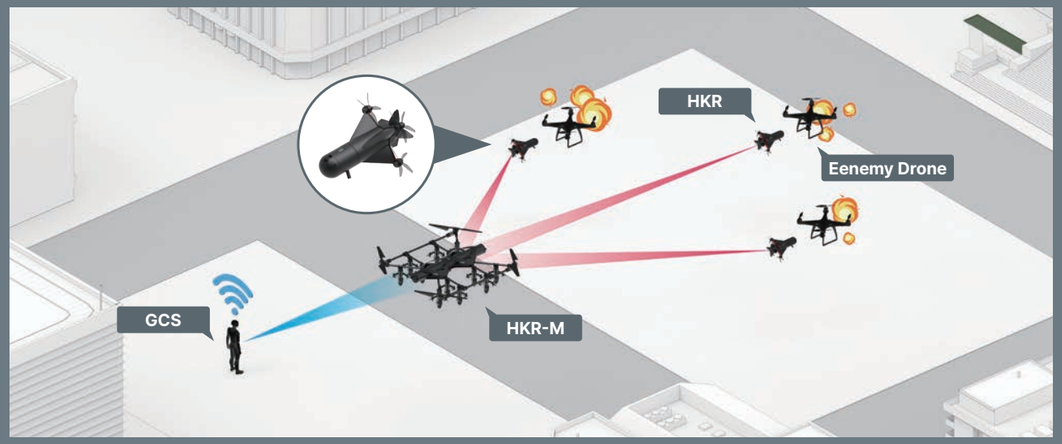
ADDITIONAL FEATURES

- Scalable architecture for large-area or high-security installations (e.g., military bases, airports, government facilities)
- Vehicle-mountable configuration compatible with both civilian and military platforms for mobile operations
- Multi-sensor integration, including RF, radar, cameras, and more
- Built for continuous operation, supporting 24/7 mission-critical readiness
- Fully interoperable with existing defense and surveillance infrastructure
- Designed for flexible deployment across various operational scenarios

HKR-M & HKR SOLUTION

LONG-RANGE MOTHER-SHIP & HIGH-SPEED INTERCEPTOR DRONE SYSTEM

The HKR-M / HKR duo delivers unmatched reach and precision for surveillance, reconnaissance, and counter-UAS missions. HKR-M is a heavy-lift “mother-ship” UAV engineered for extended transit and large-payload carriage. It transports HKR drones safely to the target area, then releases them for mission execution. HKR is a high-speed, obstacle-aware interceptor and reconnaissance drone designed for direct-impact hard-kill defense and rapid intelligence gathering—even in complex terrain. Together, the two-tier system maximizes mission efficiency on long-distance operations while remaining fully customizable in size, sensors, and performance to meet diverse operational requirements.



Hard-Kill Counter-UAS Capability · HKR functions as a direct-impact, self-neutralizing drone to disable hostile UAVs or designated targets swiftly.

KEY FEATURES

- HKR-M : Long-Range Heavy-Lift Platform — Carries HKR drones and additional payloads over extended distances with assured stability.
- HKR : Ultra-Fast Maneuverability — Optimized for high-speed (up to 200 km/h), obstacle-adaptive flight for pursuit, surveillance, and counter-drone impact missions.
- Dual-Drone Workflow — HKR-M deploys HKR at the optimum release point, enabling immediate mission start without HKR battery drain during transit.
- Precision ISR & Real-Time Data — 5G connectivity delivers live HD video and telemetry for rapid decision-making.
- Flexible Mission Profiles — Excels in wide-area surveillance, critical-asset protection, border patrol, and rapid counter-UAS engagements.
- Mother-Ship/Sub-Drone Efficiency — Tiered architecture boosts success rates while reducing overall sortie time and resource consumption.
- Custom-Built Configurations · Airframe dimensions, payload interfaces, and avionics can be tailored for specific environments and threat landscapes.

HKR-M

HIGH-PERFORMANCE HEAVY-LIFT DRONE FOR CRITICAL MISSIONS

OVERVIEW

HKR-M is a next-generation heavy-lift UAV engineered to carry and operate high-mass payloads—including fire-suppression canisters, delivery modules, and advanced sensors—with unwavering stability. Its extended endurance and exceptional payload capacity unlock a wide spectrum of mission profiles, delivering best-in-class performance for demanding operational scenarios.

KEY FEATURES

- Exceptional Payload Capability — Seamlessly integrates a variety of heavy equipment to execute mission-critical tasks.
- Extended Flight Endurance — Long airtime expands operational radius and on-station availability.
- Multi-Role Flexibility — Purpose-built for surveillance, fire-fighting, logistics delivery, and more.
- Rock-Solid Flight Stability — Maintains precise balance and control even under maximum payload loads.

SPECIFICATIONS

TYPE	DETAILS
Type	QUAD
Dimensions (L x W x H)	1,320 × 1,450 × 485 mm
Wheel Base	1,500 mm
Weight	4kg
MTOW	24kg
Battery	Li-ion 6S 35,000 mAh * 4EA
Prop Size	28inch 9.2pitch
Flight Time	150 min (No Payload)

HKR

ULTRA-FAST URBAN SURVEILLANCE DRONE WITH AI & SWARM CAPABILITY

OVERVIEW

HKR is purpose-built for urban operations, combining a compact airframe with AI-powered optics to deliver precise, real-time intelligence. Reaching speeds of up to 200 km/h (124 mph) and supporting coordinated swarm tactics, HKR enables rapid response, persistent tracking, and complex multi-drone missions. The platform is fully customizable—size, sensors, and performance parameters can be tailored to match specific mission environments and requirements.


HKR-V1


HKR-V2


HKR-V3


HKR-V4

KEY FEATURES

- Compact Design — Exceptional agility and maneuverability in dense urban terrain.
- AI-Integrated Camera — On-board real-time video analytics for advanced surveillance and reconnaissance.
- Ultra-High Speed — Up to 200 km/h for swift interception, pursuit, and rapid area coverage.
- Swarm-Ready Architecture — Multiple drones operate cooperatively for high-efficiency, synchronized missions.
- Mission-Tailored Configurations — Customizable dimensions, payloads, and performance specs to meet any operational need.
- Hard-Kill Counter-UAS Capability — HKR functions as a direct-impact, self-neutralizing drone to disable hostile UAVs or designated targets swiftly.

SPECIFICATIONS

TYPE	HKR-V1	HKR-V2	HKR-V3	HKR-V4
Weight	385g	434g	517g	262g
MTOW	1.4kg	1.4kg	1.5kg	1.1kg
Battery	6S1P, 1,000mAh	4S1P, 1,300mAh	4S1P, 1,300mAh	4S1P, 1,000mAh
Wheel Base	160 mm	180 mm	175 mm	165 mm
Flight Time	10 min	10 min	10 min	10 min
Propeller Size	3.5 inch	3.5 inch	3.5 inch	3.5 inch
Maximum Speed	200km/h	180km/h	180km/h	180km/h
Application	Air to air target	Air to ground target		

GCS

MOBILE 5G GROUND CONTROL SYSTEM FOR UNLIMITED-RANGE DRONE OPERATIONS

OVERVIEW

GIGA STATION (GCS) is a mobile ground-control platform that harnesses 5G connectivity to fly drones anywhere a network signal exists—without distance restrictions. Rapid-deployment hardware and ultra-reliable data links make GCS the perfect choice for smart logistics, disaster response, perimeter security, reconnaissance, and countless other missions. Through one intuitive application, operators can simultaneously manage drones and their docking stations, schedule fully automated flights, and coordinate multiple aircraft and pilots for maximum operational efficiency.


GIGA STATION


GIGA STATION MINI

KEY FEATURES

- 5G-Enabled — Real-time HD video, telemetry, and low-latency remote command & control.
- Mobile Form Factor — Rugged, compact design deploys in minutes across diverse field environments.
- Unified Control Interface — Single program monitors and controls both drones and drone stations.
- Automated Mission Scheduling — Executes recurring flights based on predefined time and route plans.
- Multi-Access / Multi-Control — Supports concurrent operation of multiple drones by multiple operators.
- Industry-Versatile — Optimized for smart logistics, emergency management, security patrols, reconnaissance, and more.

SPECIFICATIONS

TYPE	GIGA STATION	GIGA STATION MINI
Dimensions (L x W x H)	680 × 470 × 277 mm	430 × 175 × 45 mm
Weight	13kg	1.8kg
Monitor Size	24”, 13” (Touch display)	11.6” (Touch display)
Ports	HDMI * 1, RJ45 * 1, USB3.0 * 2	HDMI * 1, RJ45 * 1, USB3.0 * 2
Communication	ETH / 5G / LTE	ETH / 5G / LTE
Run Time	Handle : 6h+ / Cable : ∞h	Handle: 3h+ / Cable: ∞h

VR TRAINING SIMULATOR FOR C-UAS

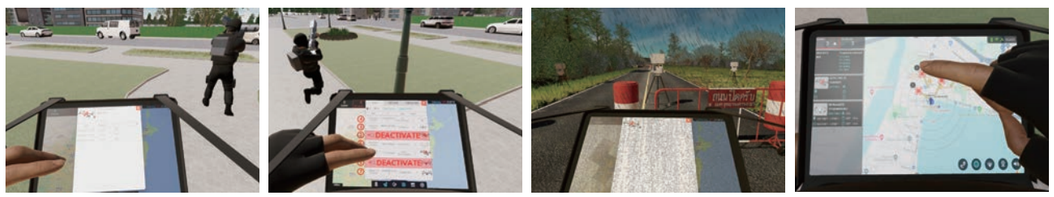
OVERVIEW

A Next-generation training solution designed to enhance operator readiness through immersive, safe, and cost-effective simulation.

By integrating realistic scenarios with advanced virtual environments, this system delivers comprehensive C-UAS operational training—without the risks, expenses, or logistical challenges of live exercises. Ideal for improving skill retention, situational response, and mission preparedness in a controlled, repeatable setting.

VR TRAINING SIMULATOR PROGRAM : DRONE HUNTER XRS & XD

- End-to-end VR training that covers detection, identification, classification, and neutralization to maximize C-UAS operational efficiency
- Multiplayer mode enables realistic teamwork and communication training
- Advanced threat scenarios allow users to practice defending against both single drones and swarms, enhancing real-world readiness
- Learning focused on UI and software strengthens post-operation forensics through data analysis and log management training
- Performance analytics and training logs help users optimize team roles and track individual strengths and areas for improvement



CAPABLE OF CONFIGURING VARIOUS OPERATIONAL SCENARIOS

TERRAIN BASED SIMULATION SETTING

Urban Terrain | Coastal Terrain | Flat Terrain

OPERATOR POSITION SETTING

Rooftop | Ground | Vehicle

WEATHER SETTING

Clear | Foggy | Rain

TIME-OF-DAY SETTING

Day Time | Dusk | Night Time

VR DRONE SIMULATOR FOR MILITARY TRAINING

OVERVIEW

The next-generation VR Drone Training Simulator is an immersive, safe, and cost-effective tactical training solution designed to enhance mission readiness. It provides a realistic virtual environment and interactive simulation that enable repeated tactical and team training without risks or logistical challenges, while delivering a control experience similar to operating actual equipment.

Our proprietary flight physics engine replicates drone speed, rotation, air resistance, and collision responses, offering realistic flight dynamics. The system is compatible with commercial RC controllers, allowing operators to train with the same controls and button layouts used in real missions for authentic handling. Powered by AI-driven scenarios and diverse mission configurations, the simulator supports a wide range of training—from basic flight to reconnaissance, transport, and defense—helping users build operational proficiency and situational response capabilities through repeatable exercises.

KEY FEATURES

- Enhances real-world mission response capabilities through scenarios based on reconnaissance, transport, defense, and other military operations
- Supports squad-level collaborative training and real-time mission teamwork with multiplayer mode
- Provides highly realistic training environments reflecting urban, mountainous, coastal terrains, as well as day/night and weather conditions
- Strengthens threat identification and unexpected situation response with AI-generated enemy and civilian placements
- Maximizes training effectiveness through instructor-led real-time control and performance analytics
- Offers integrated tactical training content including drone, mortar, and surface-to-air weapon operations
- Enables simultaneous training of up to 50 participants via 5G/Wi-Fi network
- Supports layered training from individual operation to tactical teamwork
- Visualizes individual proficiency and team role performance with data and log analysis, enabling tailored feedback and repeatable exercises

EXPANDABLE MILITARY DRONE TACTICAL EXERCISE SYSTEM

DRONE RECONNAISSANCE EXERCISE

Reconnaissance Exercise Scenario

Reconnaissance Video

Transmission Reconnaissance Video

DRONE ATTACK (AIR BOMBING/SELF-DESTRUCTION) EXERCISE

Attack Exercise Scenario

Route Flight

Result of Attack

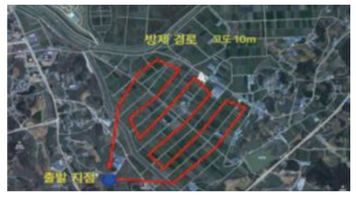
DRONE TRANSPORT (WEAPON/MEDICAL/FOOD SUPPLIES, ETC.) EXERCISE

Transport Exercise Scenario

Route Flight

Transport Drone Landing

DRONE PEST-CONTROL/CBRN-DECONTAMINATION EXERCISE



Pest control Exercise Scenario

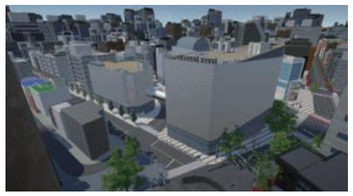
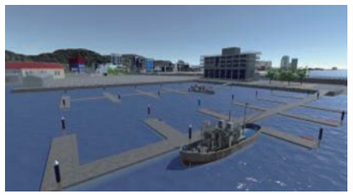
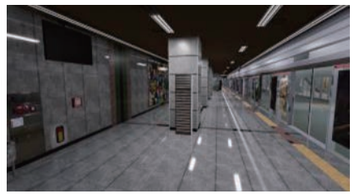
Pest control Flight

Decontamination Flight

VR DRONE SIMULATOR FOR TRAINING

OVERVIEW

The VR Drone Simulator for Training is a next-generation solution that offers an identical sense of control as a real drone in an immersive and interactive environment.It enables safe, cost-effective, and repeatable training without the limitations of physical space or weather conditions. Operators can enhance their skills through a wide range of mission scenarios and game-based content.

KEY FEATURES

- **Identical sense of control as a real drone**

Equipped with a self-developed physical engine that applies aerodynamics, collisions, and downward wind, providing realistic flight sensations. Compatible with commercial RC controllers to deliver authentic handling equivalent to actual operations.

- **Diverse training content**

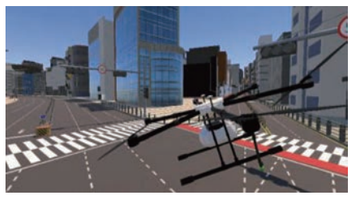
Covers basic flight practice, free flight, qualification test preparation, and custom drone assembly.
Includes mission-based scenarios (pest control, reconnaissance, transport, assault) and engaging VR drone sports such as drone soccer, basketball, and interactive games (coin collection, flag capture, pass the bomb).

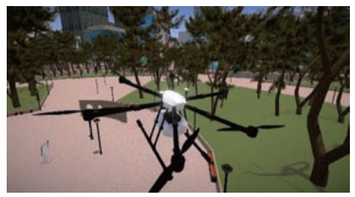
- **Multiplayer and AI support**

Supports up to 10 participants simultaneously. AI drones automatically fill remaining positions to ensure a seamless team training experience.

- **Optimized VR Environment**

We utilize VR HMD (Meta Quest 3) with 4K resolution with minimal dizziness through optimized 3D modeling. Reflects various topography (mountains, city centers, coasts, tunnels) and weather conditions. It features a self-developed wireless signal converter that supports Wi-Fi, Bluetooth, and Ethernet.





VR MULTI PARTY COLLABORATIVE MILITARY TRAINING SYSTEM

OVERVIEW

The VR Multi-party Collaborative Military Training System is a next-generation tactical training solution based on ultra-high-speed, ultra-low-latency private 5G and Wi-Fi networks. It enables up to 50 participants to train simultaneously in a precisely modeled 3D virtual battlefield. Operators can perform both individual and squad/platoon-level collaborative training, effectively enhancing mission readiness and team tactical skills through repeatable exercises.



KEY FEATURES

- **Training of up to 50 participants simultaneously**

Processes large-scale VR data—including user location, posture, weapon interactions, and team member synchronization—in real time using a 28GHz private 5G network and multi-party collaboration server technology.

- **Individual and collaborative training**

Supports personal firearm assembly/disassembly, shooting, drone operation, mortar training, and Chiron (portable surface-to-air missile) and Vulcan system operation. Enables squad- and platoon-level tactical exercises and multi-party collaborative missions.

- **Creation and editing of tactical training scenarios**

Provides 3D virtual environments reflecting urban, mountainous, and coastal terrains, as well as day/night and weather conditions. Enables creation of trees, vehicles, buildings, obstacles, and placement of AI-controlled enemies and civilians with adjustable difficulty. Supports diverse mission roles, including squad leader, rifleman, drone operator, and anti-aircraft gunner.

- **Education and training monitoring and evaluation**

Allows instructors to apply, start, and end scenarios, monitor trainee perspectives, and provide statistics and performance evaluations.



SOLUTIONS OVERVIEW

TACTICAL KIT
PAGE 12

MANPACK PORTABLE KIT
PAGE 13

VEHICLE-MOUNTED KIT
PAGE 14

FIXED-TYPE KIT
PAGE 16

SALES REFERENCES

OVERSEAS C-UAS SOLUTION SALES REFERENCES

2019 Exported Drone Hunter X to Saudi Arabia
2021 Exported Drone Hunter FD to Asian countries
2023 Exported Drone Hunter XRS to Indonesia
2024 Exported SDR-based RF Disruptor to ASEAN region
2025 Formed a strategic partnership with Rinicom (UK) for AI camera module integration

DOMESTIC C-UAS SOLUTION SALES REFERENCES (REPUBLIC OF KOREA)

2020 Supplied Drone Hunter XR to the Ministry of National Defense
2022 Supplied C-UAS system to the National Assembly Complex
2023 Supplied Drone Hunter XR to major energy infrastructure sites
Supplied Drone Hunter FD to the National Police Agency
2024 Supplied Drone Hunter 3GQ (Portable RF Disruptor) to DAPA
Supplied Drone Hunter XR to the National Police Agency
2025 Supplied Drone Hunter FD to the Republic of Korea Navy & Presidential Security Service
Development of the C-UAS Solution for military mobile platform applications

BUILT AROUND CUSTOMER GROWTH

ESTEEMED CUSTOMERS

대통령경호처 PRESIDENTIAL SECURITY SERVICE REPUBLIC OF KOREA
Ministry of the Interior and Safety
Defense Acquisition Program Administration
Public Procurement Service
대한민국 국방부 Ministry of National Defense
대한민국육군 Republic of Korea Army
대한민국공군 REPUBLIC OF KOREA AIR FORCE
대한민국해군 REPUBLIC OF KOREA NAVY
대한민국 해병대 REPUBLIC OF KOREA MARINE CORPS
NIS
경찰청 KOREAN NATIONAL POLICE AGENCY
해양경찰청 KOREA COAST GUARD
국방과학연구소 Agency for Defense Development
KNOC 한국석유공사
K water
한국수력원자력㈜ KOREA HYDRO & NUCLEAR POWER CO., LTD
한국남동발전㈜ KOREA SOUTH-EAST POWER CO.
한국서부발전㈜ KOREA WESTERN POWER CO., Ltd.
KARI 한국항공우주연구원 Korea Aerospace Research Institute
한국지역난방공사 KOREA DISTRICT HEATING CORP.
KPX 전력거래소
교정본부 Korea Correctional Service

AFFILIATED PARTNERS

LIG Nex1
Hanwha Systems
한화에어로스페이스 Hanwha Aerospace
한화오션 Hanwha Ocean
HYUNDAI Rotem
HYUNDAI WIA
KAI
S-1 CORPORATION
HJSC
HD HYUNDAI HEAVY INDUSTRIES
SAMSUNG 삼성중공업
KOREAN AIR

GLOBAL CUSTOMER BASE

Saudi Arabia Poland Singapore Indonesia Malaysia UAE Taiwan Ethiopia Thailand

DYMSTEC

Venture Enterprise 벤처확인기업

MAINBiz 경영혁신형 중소기업

INNOBIZ 기술혁신형중소기업

Address : Kranztechno #1308, 388 Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, 13403 Republic of Korea
Factory Address : Kranztechno #1317~19, 388 Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, 13403 Republic of Korea
www.dynamicshielding.com / Email. marketing@dymstec.com / Tel. +82 31 777 8450 / Fax. +82 31 777 8933