2025
ProductCatalog
DEFENCE

www.**faradaygroups**.com

About Us

Founded in 1981, Faraday Group has been committed to delivering high-quality, durable, and innovative solutions since its inception. With the strength of local production, our company stands by its customers, combining modern technology with a strong engineering foundation to offer efficiency-enhancing solutions.

Our product range includes high-performance vehicles, precision processing systems, a wide variety of equipment, and advanced machinery. All our products are designed to meet user needs in the best possible way and are manufactured in accordance with international quality standards.

At Faraday Group, our vision is to be a reliable and innovative brand that shapes the future and supports sustainable solutions. We are proud to serve clients all across Turkey and to represent our country successfully on a global scale.

Faraday Group — Since 1981, the Name of Trust and Quality

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1981 yılında kurulan Faraday Grup, kuruluşundan bu yana kaliteli, dayanıklı ve yenilikçi üretim anlayışıyla faaliyet göstermektedir. Yerli üretim gücüyle daima kullanıcılarının yanında olan firmamız, modern teknolojiyi güçlü mühendislik altyapısıyla birleştirerek verimliliği artıran çözümler sunmaktadır.

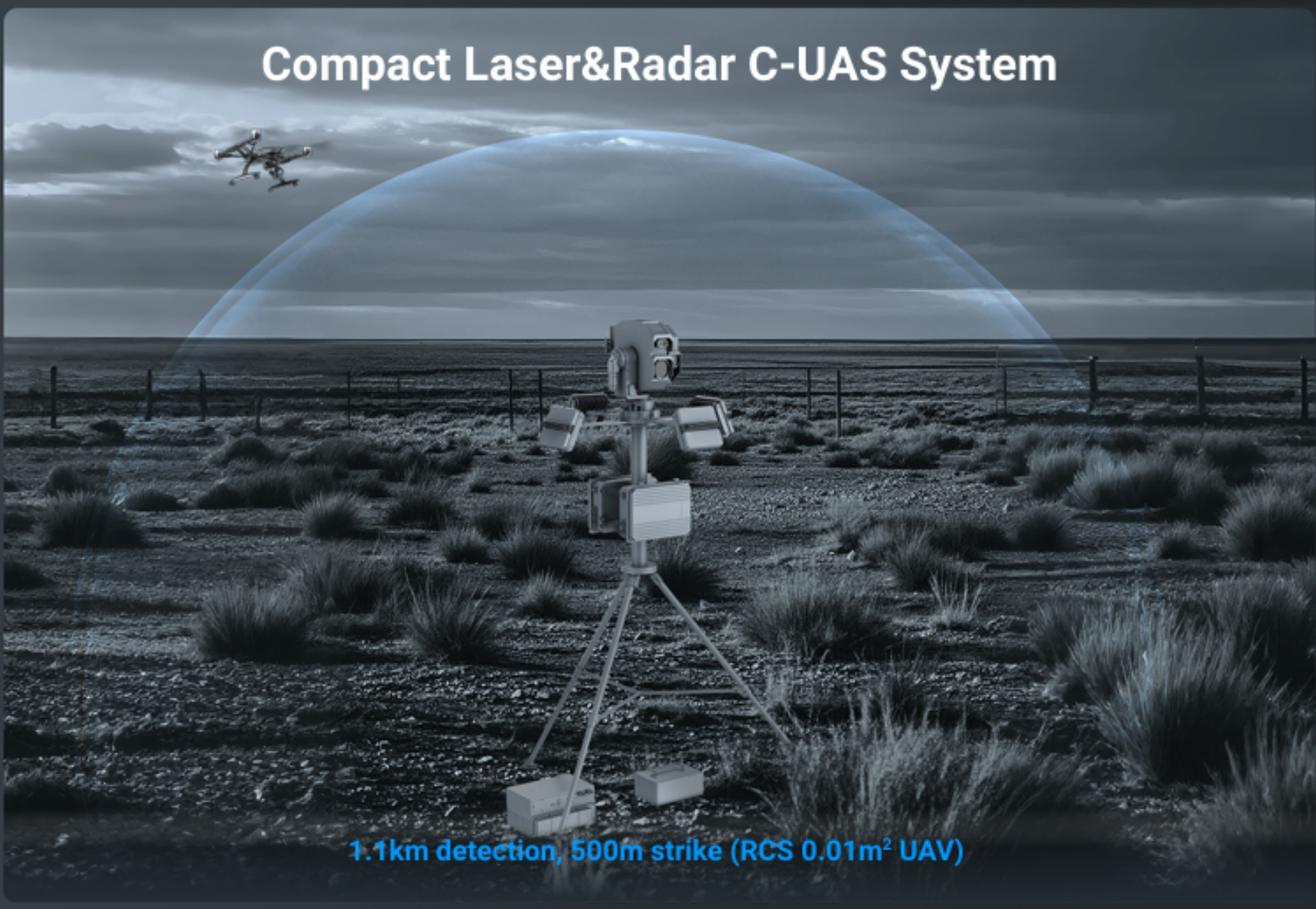
Ürün yelpazemizde yüksek performanslı araçlardan hassas işleme sistemlerine, çeşitli ekipmanlardan gelişmiş makinelere kadar geniş bir üretim gerçekleştirmekteyiz. Tüm ürünlerimiz, kullanıcı ihtiyaçlarını en iyi şekilde karşılamak üzere tasarlanmakta ve uluslararası kalite standartlarında üretilmektedir.

Faraday Grup olarak vizyonumuz; geleceği şekillendiren, sürdürülebilir çözümleri destekleyen, güvenilir ve yenilikçi bir marka olmaktır. Türkiye'nin dört bir yanına hizmet vermekten ve dünya genelinde ülkemizi başarıyla temsil etmekten gurur duyuyoruz.

Faraday Grup — 1981'den Bugüne, Güvenin ve Kalitenin Adı

RADAR-GUIDED LASER COUNTER-UAS SOLUTION

Radar-Guided Laser Counter-UAS Solution:This integrated detection and mitigation system combines wide-area radar surveillance with precision laser countermeasures to provide comprehensive low-altitude protection. The radar continuously scans the airspace, delivering real-time detection, high-accuracy tracking, target classification, and threat-level assessment. Upon identifying a hostile UAV, the system manually or autonomously cues the laser module to lock on, verify, and engage the target with precision tracking. With intuitive operation, the solution enables rapid threat response and ensures protected zones remain undisturbed by drone intrusions. Ideal for critical infrastructure protection, border security, high-risk environments, and sensitive site defense.


Compact Laser&Radar C-UAS System
1.1km detection, 500m strike (RCS 0.01m² UAV)


Medium-Range Distributed Laser&Radar C-UAS System
5km detection, 1km strike (RCS0.01m² UAV)

RADAR-GUIDED LASER COUNTER-UAS SOLUTION

KEY FEATURES

Precision Targeting and Neutralization

Radar System: Capable of wide-area surveillance and detection of various UAV types; delivers high-precision tracking to guide laser payloads for accurate target acquisition.

Laser Neutralization Unit: Narrow field of view locking, rapid target confirmation, ultra-precise continuous tracking, and one-click engagement for instant threat mitigation.

Cost-Effective and Sustainable

Low-Cost Countermeasure: Laser-based neutralization incurs minimal per-use costs (primarily electricity), is not constrained by ammunition supply, and supports high-frequency, repeated engagements — ideal for countering persistent, high-volume, low-cost drone threats.

All-in-One Multi-Functionality: A single integrated system capable of executing detection, surveillance, target acquisition, and engagement, enabling a seamless "detect-track-defeat" defense workflow.

High Mobility and Flexibility

Rapid Deployment: Enables swift calibration and setup, enhanced by radar clutter suppression algorithms and obstruction-tolerant functionality for effective operation in complex environments.

Silent Defense: Features RF low-observability radar and non-explosive, flashless laser engagement, ensuring minimal environmental disturbance and high operational stealth, making detection and counteraction difficult.

TECHNICAL SPECIFICATIONS

Parameters		Parameter Description		
Radar	**Equipment Model**	**Tracker-SDH100**	**Tracker Pro-DPH110**	
			2D Phased Scanning State (Phase Scanning)	Horizontal Mechanical Scanning + Vertical Phased Scanning State (Mechanical Phased Scanning)
	Operating Frequency Band	K-band, 24.05GHz ~ 24.25GHz	X-band, 9.2GHz ~ 9.5GHz	
	Scanning Method	Active Electronically Scanned Array (AESA) Azimuth Scan, Elevation Scan	Active Electronically Scanned Array (AESA) Azimuth Phased Scanning, Elevation Phased Scanning	
	Waveform Mechanism	Frequency Modulated Continuous Wave (FMCW)	Pulse Doppler	
	Effective Signal Bandwidth	60MHz	15MHz	
	Maximum Antenna Power	7W	12BW	
	Blind Spot	≤20m	≤200m	
	Effective Detection Power	Small Racing Drone: 650m Micro Quadcopter: 1.1km Large Multirotor: 1.8km Large Fixed-Wing: 3km	Small FPV: 3.5 km Micro Quadrotor UAV: 5 km Large Multirotor UAV: 7.3 km	
	Speed Range	0~60m/s	1–100 m/s (Software adjustable)	
	Radar Field of View (FOV)	Azimuth: 100°; Elevation: 45°	Azimuth: 90°; Elevation: 60° (supports up to 75°)	Azimuth: 360°; Elevation: 60° (supports up to 75°)
	Accuracy	Distance Accuracy: 2m Velocity Accuracy: 0.6m/s Azimuth Accuracy: 1° Elevation Accuracy: 2°	Distance Accuracy: 10 m Speed Accuracy: 1m/s Azimuth Accuracy: 0.5° Elevation Accuracy: 0.5°	
	Target Capacity	200	500	
	Number of Trackable Targets	Search: 200 targets; Tracking: 5-10 targets	Search (TWS): 500; Track (TAS): 6	Search (TWS): 500; Track (TAS): 1
	Airspace search cycle	2s	3~6s (Configurable)	
	Target refresh cycle	100ms	TWS: 3~6s (Configurable) ; TAS: 0.5s	TWS: 3~6s (Configurable); TAS：0.1s
	Dimensions	205*225*64 mm(excluding front heat sink)	≤343.5mm × 341.5mm × 141mm (Including turntable, excluding GPS)	
	Weight	3kg±0.1kg	Single Radar: ≤14 kg	Total Weight (Radar + Turntable + Bracket): ≤26 kg
	Power	≤130W	<320W (Phased Scanning)	<350W (Mechanical Scanning)
	Power Supply	DC 24±8V	AC 220V、DC 24V	
	Data Interface	Ethernet Port (Gigabit Ethernet)	Ethernet Port (Gigabit Ethernet)	
	Operating Temperature	-40°C ~ +55°C	-40°C~+60°C	
	Storage Temperature	-55°C ~ +95°C	-50°C~+70°C	
	Cooling Method	Passive Cooling	Active Cooling(Fan Cooling)	
	IP rating	IP67	IP66	

SOLUTION

FIXED Energy Facility Protection

INTRODUCTION

Through the fusion of multiple sensors such as radar, radio detection equipment, and optical cameras, the energy facility protection solution of SkyFend can achieve real-time detection, tracking, and identification warning of low-altitude drones in the protected area, ensuring accurate detection with a low false alarm rate or even without any false alarm. With the guidance of the detection equipment, the interference equipment can offer more accurate interference and jamming against drone intrusions without affecting the operating drones at the energy station. Ultimately, it can achieve timely detection and interference against drone intrusions while ensuring the normal operation of energy facilities.

SPECIFICATIONS

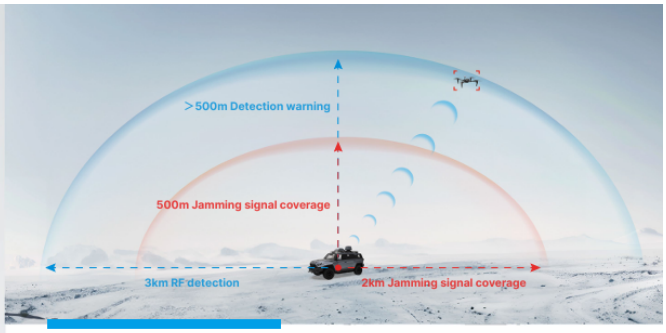
- **Radio detection:** 5km (based on DJI Mavic 3 SRRC mode, signal power of about 20dBm at 2.4GHz, and about 30dBm at 5.8GHz, without strong signal interference under sighting conditions)
- **Visual and radar detection:** 7-inch FPV: 3.5km; Mini and Micro Drones (DJI Mavic 3): 5km; Small and Medium-sized Drones (DJI M300): 7km
- **Protocol analysis:** 3km (based on DJI Mavic 3 SRRC mode, signal power of about 20dBm at 2.4GHz, and about 30dBm at 5.8GHz, without strong signal interference under sighting conditions)
- **Radio frequency jamming:** 3km (SRRC mode based on DJI Mavic 3, typical model with a signal power of about 20dBm at 2.4GHz and about 30dBm at 5.8GHz, and the distance between the drone pilot and the jamming device is 6km)
- **Navigation spoofing:** 5km

ADVANTAGES OF SOLUTIONS

Precise situational awareness	24/7 unmanned surveillance and protection	Visualized detection and precise decision-making with replay capability	Combining intelligent interference strategies with directional interference. Minimum impact on other wireless devices in the surrounding area.

SOLUTION

VEHICLE-MOUNTED C-UAV SYSTEM



INTRODUCTION

The Skyfend vechile-mounted C-UAV system consists of Tracer V radio detector and Hunter V jammer, forming a semi spherical protection without blind spots. The system is capable of detecting and locating cooperative drones and their pilots, as well as providing detection and early warning for non-cooperative drones. With its highly efficient detection and countermeasure capabilities, the system can automatically counteract target frequency bands based on detection guidance, ensuring effective drone defense.

SPECIFICATIONS

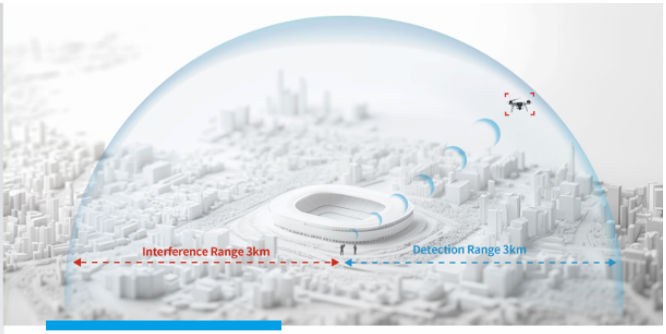
- **Efficient Protection:** Detection range >3km, jamming signal coverage >2km;intelligent detection and precise countermeasure against FPV drones.
- **Comprehensive Defense:** Hemispherical detection and countermeasure coverage with 360° horizontal and 90° vertical protection.
- **Flexible Configuration:** Supports software-defined detection and countermeasure frequency bands, with the capability to expand an additional four countermeasure frequency bands.

ADVANTAGES OF SOLUTIONS

Efficient Protection	Comprehensive Defense	Flexible Configuration

SOLUTION

PORTABLE Event Security



INTRODUCTION

To meet the confidentiality requirements of special events, SkyFend offers a portable solution of drone pilot positioning device, which effectively prevents "rogue" drones with effective jamming. This solution is recommended to be jointly operated by one detector and one jammer operator.

- Detection operators can use radio frequency detection devices to accurately locate drones and their pilots, thus solving the problem of "rogue" drones at its root.
- The countermeasure operator uses an integrated reconnaissance and strike countermeasure device to achieve a closed-loop process of independent detection and strike.

SPECIFICATIONS

- **Detection:** 3km protocol analysis + 2.5km spectrum detection (based on DJI Mavic 3 SRRC mode, signal power of about 20dBm at 2.4GHz, and about 30dBm at 5.8GHz, without strong signal interference under sighting conditions)
- **Interference:** 3km (Customizable full-band coverage. The interfering models include DJI, Autel, Parrot, FIMI, etc.)

ADVANTAGES OF SOLUTIONS

Precise Positioning of Drones and Pilots	Blacklist and Whitelist Management Accurate Early Warning	Combining intelligent interference strategies with directional interference to minimize the impact on other wireless devices in the surrounding area

SOLUTION

PORTABLE Border Defense

INTRODUCTION

The portable border control solution is specifically designed for C-UAS scenarios which demand high maneuverability, aiming to assist the border defense teams in efficient interference and jamming against done threats in complicated environment. In response to the challenges of threats that are difficult to detect, locate, and interfere with, this solution ensures rapid response at critical moments through the collaborative cooperation of detectors and jammer operators, providing real-time protection and the ability to effectively interfere beyond line of sight, enhancing protection range and flexibility.

- **Detector:** radio detection equipment is used, and detectors can provide timely early warnings against drone threats. Accurate positioning is achieved through rotating radar, which can clearly identify the direction of the target's approach, thereby providing effective guidance for jammer operators.
- **Jammer operators:** with the help of navigation spoofing technology, they can effectively respond to drones equipped with GNSS. In addition, combined with the integrable function of SPS100 and SSH100, and guided by radar, it can achieve precise interference to the target drone, causing it to destabilize and fall.

SPECIFICATIONS

- **Radio detection:** 3km (based on DJI Mavic 3 SRRC mode, signal power of about 20dBm at 2.4GHz, and about 30dBm at 5.8GHz, without strong signal interference under sighting conditions)
- **Radar:** FPV 7 inches: 800 m; DJI Mavic 3: 1100m; DJI FC30: 2500m
- **Navigation spoofing:** 2km (with DJI Mavic 3 as typical model)
- **Radio Frequency Jamming:** 1.5km (SRRC mode based on DJI Mavic 3, typical model with a signal power of about 20dBm at 2.4GHz and about 30dBm at 5.8GHz, and the distance between the drone pilot and the jamming device is 3km)

ADVANTAGES OF SOLUTIONS

Accurate positioning of intruding drones	Wearable compact design	Networking for multiple devices	Expand the Protection Range of Interference Capability beyond the Effective Line of Sight

Founder: Frank Lee

A Message from Autel Robotics Founder , Frank Lee

Since 2014, Autel Robotics has been committed to accelerating the adoption of drone technology as a globally renowned manufacturer and solution provider. Through our deep dedication to key core technology research, pursuit of excellence, and commitment to exceeding customer expectations, our team sets new benchmarks for drone technology and performance for both commercial and consumer users. We work tirelessly with our partners to provide the best aerial solutions, delivering tangible and lasting value to our customers.

Core Technologies

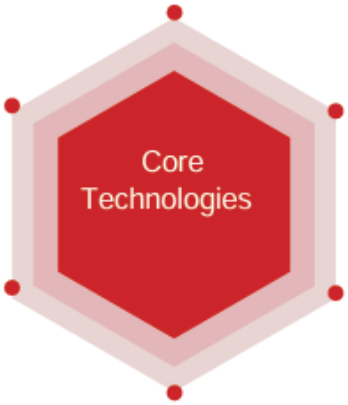
Autel Robotics is one of the very few companies in the world who can independently research and develop, and truly master the core full stack development technologies of intelligent drones.

Autonomous Flight Technology

Continuous flight model optimization via iteration
Precise test simulation and data fusion analytics
Multi-mode AI compute engine, machine learning process engineering
Intelligent target identification and recognition
Autonomous map positioning and building planning

E cient Endurance

Overall layout optimization
Efficient avionics
Efficient power



Ultra-HD Imaging

Supersensitivity
Low Light & Infrared Dual Night Vision Technology
8K images

Communication Mesh

Long Range Image Transmission
Ultra-HD Low Latency Image Transmission
4G/5G Collective Communication
Efficient Visual Simulation & Analysis
Situation Awareness Anti-jamming

Gimbal Stability Augmentation

High-precision gimbal
High-speed, low-latency target detection & tracking

Flight Control

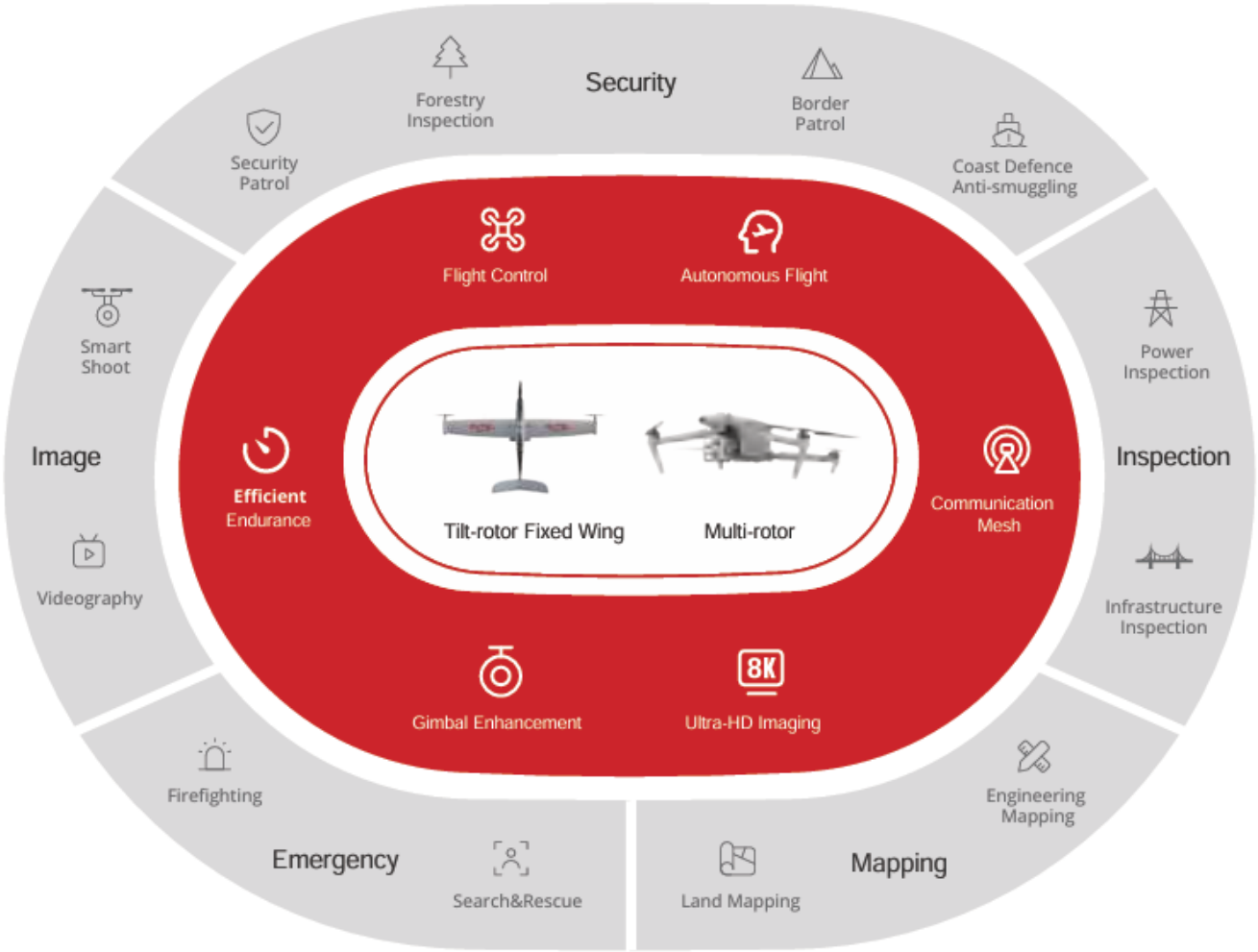
Industry-leading accurate and reliable flight control for multi-rotor and VTOL tilt-rotor models

Autel Robotics 2+6+N

Digital Industry Solution

2 Flight Platforms,
6 Core Systems and Application Scenarios

Autel Robotics is dedicated to developing AI-driven autonomous flight drones, delivering ground-breaking industry solutions, with distinct features that can tackle wide-ranging, diverse scenarios. High performing, reliable, and scalable. That's the power of an Autel solution.



03 | Enterprise Products
Dragonfish Series

Dragonfish Series

Command The Future

The Dragonfish Series UAV features a unique tilt-wingtip design that effectively combines the advantages of vertical takeoff and landing from multirotor systems with the long endurance of fixed-wing aircraft. Agile and flexible, it adapts to a wide range of complex takeoff and landing conditions. The UAV is engineered with quick-release components and an efficient aerodynamic design, enabling full assembly within 5 minutes, delivering portability and ease of use while achieving industry-leading flight performance.Equipped with dual-frequency HD video transmission technology, it ensures ultra-long-distance, stable, and reliable communication, facilitating smooth operations in complex scenarios. The industrial-grade flight control and navigation system enable fully autonomous flight, supporting payloads such as a quad-sensor camera, among others, to meet diverse operational needs.This comprehensive and professional solution is designed for applications in public safety, energy inspection, emergency management, and other fields.

- Superior Anti-Interference
- Vertical Takeoff and Landing
- Rapid Deployment
- Easy Transportation
- Silent Flight
- Intelligent and User-Friendly
- 5-Second Self-Check
- Max Flight Speed: 108 km/h
- Max Flight Time: 240 minutes*
- Payload Capacity: 10 kg*

* Only applicable to Dragonfish-25. For specific parameters of each model, please refer to the technical specifications on the official website.

Dragonfish Pro

Dragonfish Standard

Dragonfish-25

Tilt-rotor Drones Benchmark

Superior Anti-Interference Fearless of Challenges

In complex environments, the UAV maintains exceptional communication and video transmission performance, featuring strong anti-interference capabilities and stable, reliable transmission. This ensures smooth operation even over long distances.

Quick Assembly **Efficient Operations**

The Dragonfish Series features an innovative quick-release design, addressing the traditional challenges of bulky and inconvenient transport associated with VTOL fixed-wing UAVs. With a 5-second rapid self-check and the ability to take off within 5 minutes, it swiftly transitions into operational mode. Whether for emergency mission deployment or efficient inspections, it ensures a head start, delivering an exceptionally efficient user experience.

Smart Operations Efficient and Reliable

Integrated with Autel Robotics' advanced flight control technology and AI intelligence, the powerful combination of hardware and software enables features such as intelligent tracking, point-to-fly, AI target recognition and positioning, rapid mission, offsite landing, mobile platform takeoff and landing. Effortlessly meeting complex operational demands, it offers unparalleled ease and precision.

Silent Flight **Enhancing Stealth Operations**

The Dragonfish UAV, in fixed-wing mode, achieves ultra-silent flight through its exceptional propulsion system and innovative noise-reduction design. At altitudes exceeding above 400 ft ground personnel can barely hear any sound, making it a true stealth tool in the sky. Additionally, its zero interference with the surrounding environment provides unmatched support for mission execution.

Work ow

01 Easy Transportation and Deployment

Convenient Transport: Integrated transport case, sturdy and reliable, easy to carry for short distances or transport over long distances.
Tool Less Assembly: Complete assembly within 5 minutes, system self-check in 5 seconds, quickly entering flight mode.

02 Simple and Smart Mission Planning

Tap on the remote controller screen to quickly generate and create flight paths, or load previously saved missions.Set flight routes and waypoints to adapt to various mission requirements.

03 Simple Target Tracking

Select the target to enter intelligent tracking mode.With zoom and laser ranging, achieve efficient and accurate target locking.Use infrared mode to improve search efficiency.

04 Efficient Execution and Control

Fully Automated Flight: From takeoff to mission execution, fully autonomous, without the need for manual intervention.
Single Operator: Optimized workflow, one operator can complete complex missions.
Emergency Manual Switch: Switch to manual mode at any time when needed to ensure operational safety.

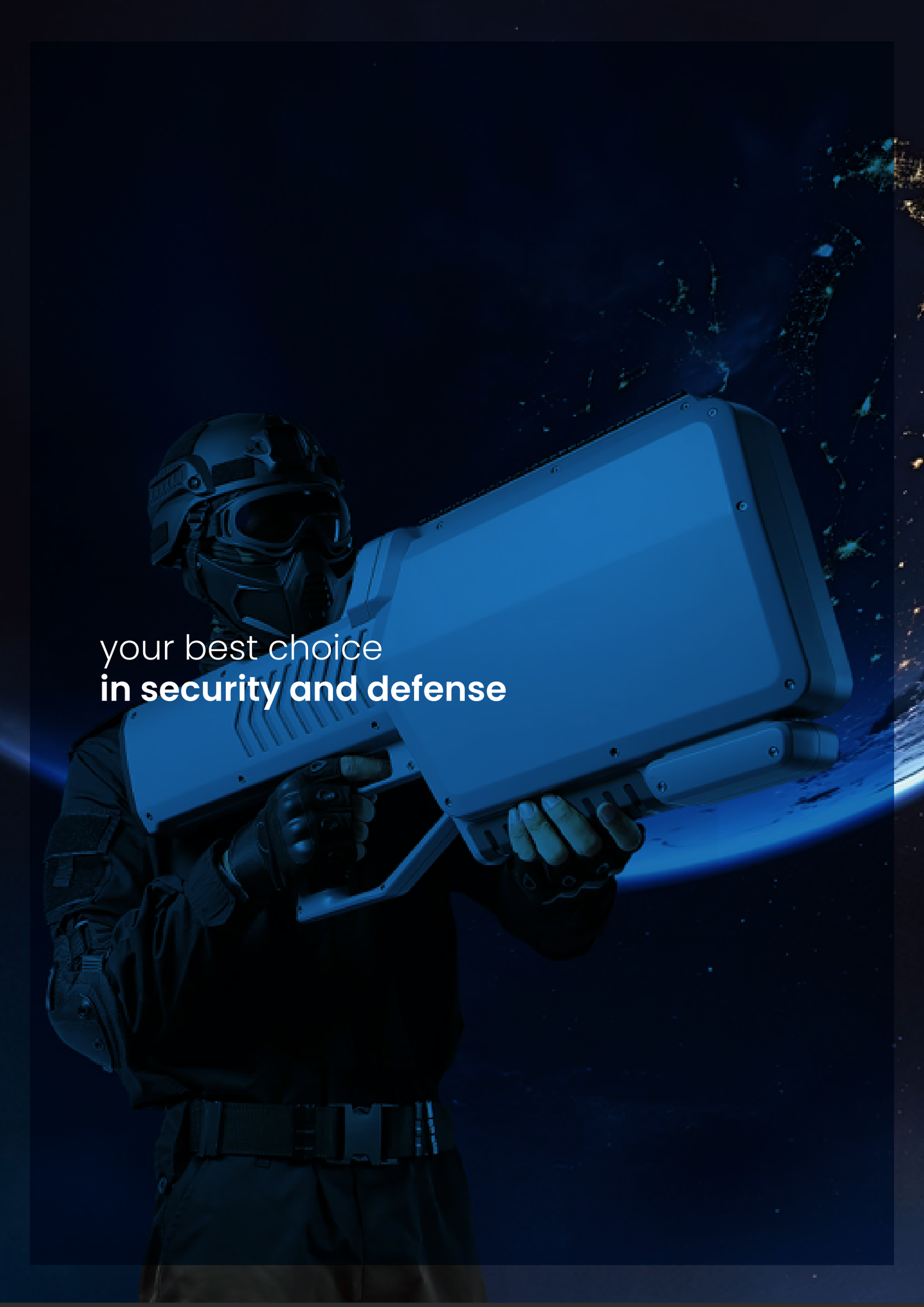
05 Safe Return and Storage

One-Button Return: Easily return to home via the Home button.
Convenient Storage: Quickly organize after flight, easy to store and ready for the next use.

Specifications

Dragonfish			
			
	Dragonfish Standard	**Dragonfish Pro**	**Dragonfish - 25**
Dimension	1290x2302x483mm	1655x2980x520mm	2665x4565x616.5mm
Weight	7.5kg	14.5kg	27.7kg
Max. extra payload weight	1.5kg	2.5kg	10kg
Max. Flight Time	106min	179min	240min
Flight Speed	Multi-rotor:0~17m/s Fixed Wing:17~30m/s	Multi-rotor:0~17m/s Fixed Wing:17~30m/s	Multi-rotor:0~17m/s Fixed Wing:17~30m/s
Max. horizontal flight speed	108km/h（30m/s）	108km/h（30m/s）	108km/h（30m/s）
Max. Wind Resistance	12m/s	12m/s	12m/s
Service Ceiling Above Sea Level	6000m	6000m	5000m
Transmission Range	30km	30km	50km
IP Rating	IP43	IP43	IP43
GNSS	GPS / GLONASS / BDS / Galileo	GPS / GLONASS / BDS / Galileo	GPS / GLONASS / BDS / Galileo
Supported Payloads	-4 F to 122 F (-20 C to 50 C)	-4 F to 122 F (-20 C to 50 C)	-4 F to 122 F (-20 C to 50 C)
Supported Payloads	DG-L20T	DG-L20T, L50T	DG-L20T, L35T

*The dimensions of the aircraft are length x wingspan x height (excl. propellers); Aircraft Weight (incl. Battery, propellers, excl. gimbal).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in security and defense

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