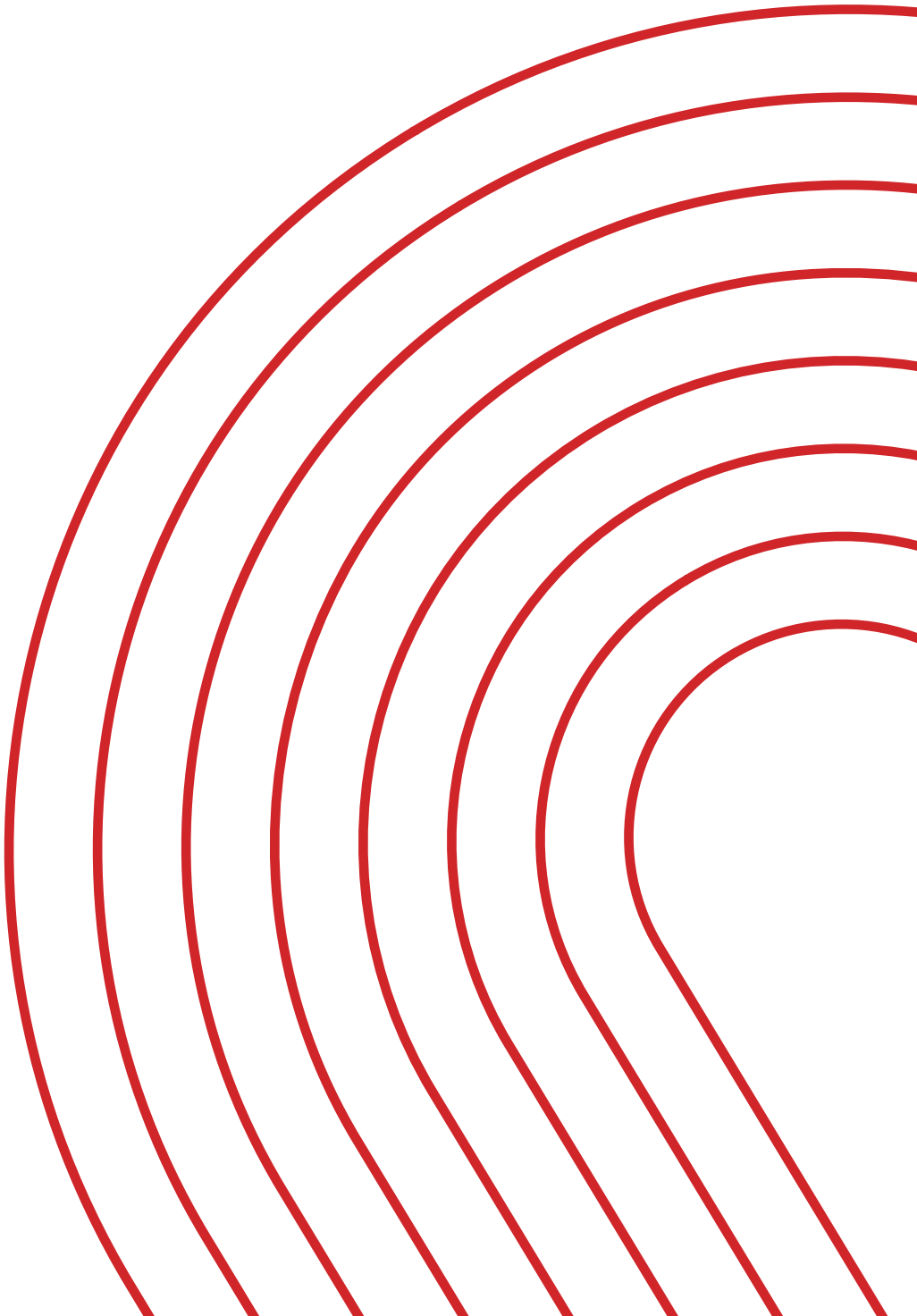
AUTEL ROBOTICS

Autel Robotics Products Brochure

www.autelrobotics.com



Born To Explore

In Autel Robotics, we strive to lead the world in the science and technology advancements of aerial robotics.

Contents

01

Message From Founder

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.

02

About Autel Robotics

Introduction

Founded in early 2014 as a hi-tech company, Autel Robotics is dedicated to researching and advancing AI-driven autonomous drones, and the solutions that surround the possibilities brought on by drones. We provide our customers with innovative solutions with distinct features, based on high performing, reliable products across our ever-expanding range of platforms.

With our own first-class international R&D teams, Autel Robotics is a customer-oriented company, pushing for excellence through constant innovation and breakthroughs, ultimately creating genuine, ongoing value for our customers.

Development Timeline

Our products can be easily divided based on their flight platform. Autel Robotics stands out in the industry, able to independently develop both multi-rotor and tilt-rotor fixed-wing drones simultaneously.

2024

Multi-rotor

Autel Alpha , EVO Lite Enterprise Series launched.

Autel Titan is to be announced.

Tilt-rotor Fixed Wing

Dragonfish-25 is to be announced.

2023

Multi-rotor

EVO Max series launched.

Ecosystem

EVO Nest , Autel Mapper launched.

2022

Multi-rotor

EVO II series V3 launched.

Ecosystem

Smart Controller SE and Smart Controller V3 launched.

2021

Multi-rotor

EVO Lite series, EVO Nano series launched.

Tilt-rotor Fixed Wing

Dragonfish Lite, Dragonfish Pro launched.

Ecosystem

Autel SkyCommand Center launched.

2020

Multi-rotor

EVO II series launched.

Tilt-rotor Fixed Wing

Dragonfish Standard launched.

2018

Multi-rotor

First generation EVO launched, recognized for foldable, portable design with obstacle avoidance.

2016

Multi-rotor

Second generation X-STAR PRE launched.

Tilt-rotor Fixed Wing

First generation tilt-rotor fixed wing drone KESTREL prototype developed.

2015

Multi-rotor

First generation drone X-STAR launched.

Global Talent Network

Autel Robotics is headquartered in Shenzhen, the capital of drones, with branches and R&D bases in Seattle, Munich, Netherlands, United Arab Emirates, Italy, Singapore, Vietnam and other locations, covering 26,000 m^2 of R&D and production area.

As the world's leading drones technology company, adhering to the business philosophy of "Value Innovation, Diligent Pursuit" and the product philosophy of "Manufacture to the Extreme", the company continues to innovate, focus on the core technologies of high-end consumer and enterprise drones. By December 31, 2024, the company has possessed 1469 authorized patents and 2861 patent applications, which ranks the top in the global drones industry.

617 Pcs

Authorized Invention Patents

2861 Pcs

Global Patent Applications

1469 Pcs

Global Authorized Patents

Core Technologies

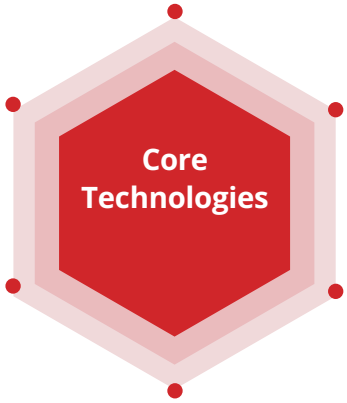
Autel Robotics is one of the very few companies in the world who can independently research and develop, and truly master the core full stack development technologies of intelligent drones.

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

Efficient 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

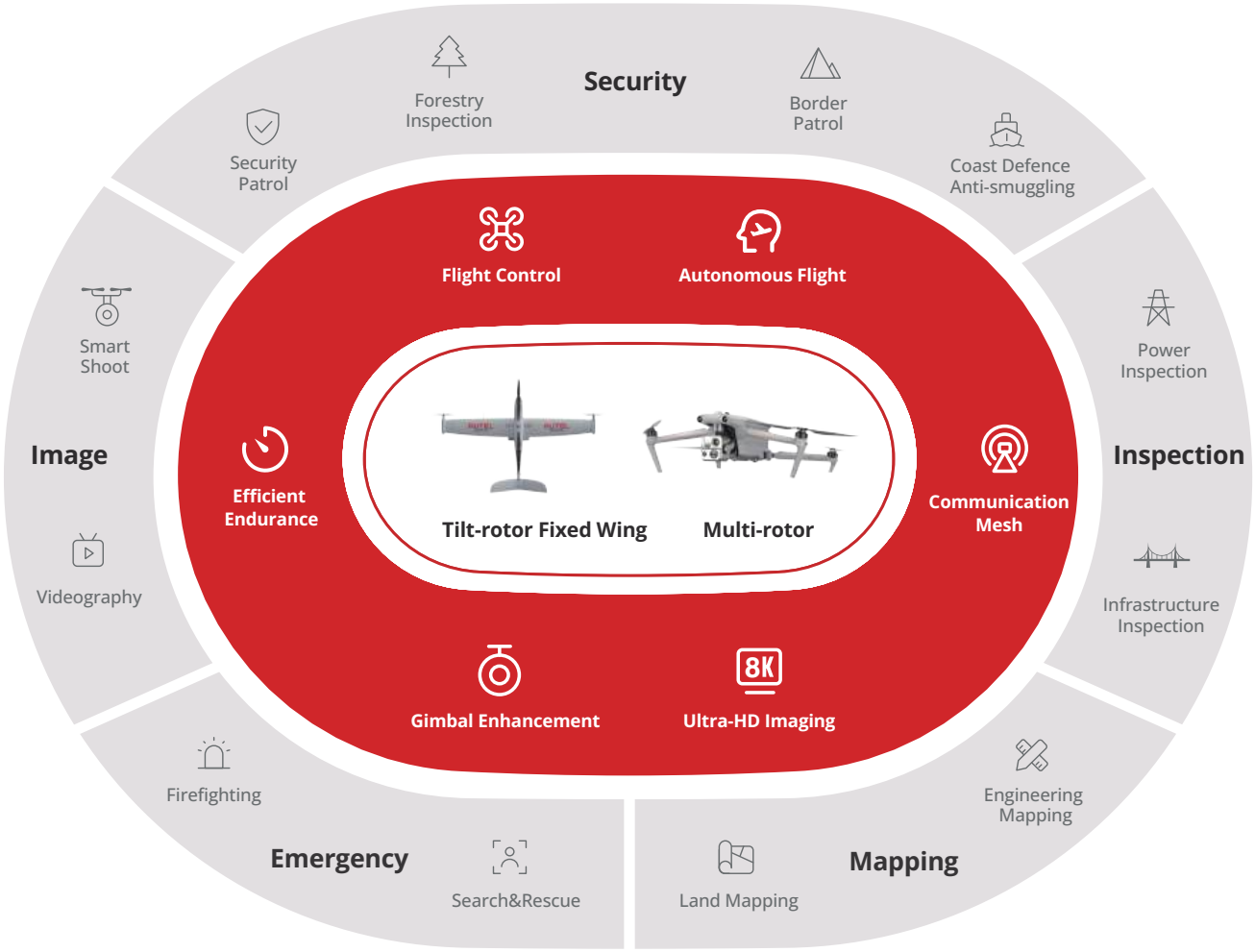
Industry-leading accurate and reliable flight control for multi-rotor and VTOL tilt-rotor models

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.

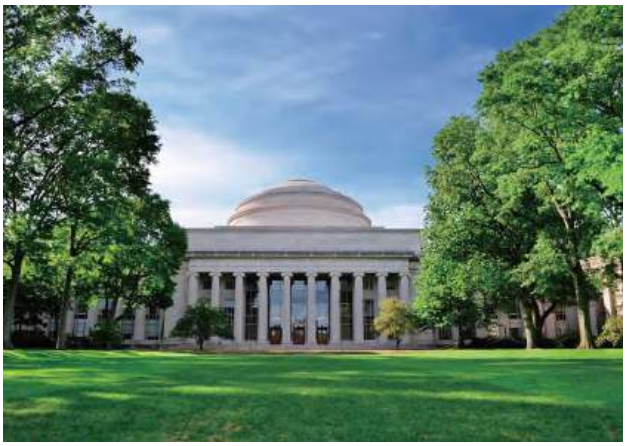


University-industry Cooperation

Autel Robotics has been carrying out long-term cooperation with international prestigious universities to pre-research latest technologies so as to jointly cultivate and attract talents.

The R&D team is composed of Doctors and postgraduates from Tsinghua university, University of Science and Technology of China, Zhejiang University, Shanghai Jiaotong University and other domestic top universities as well as MIT, Carnegie Mellon University, National University of Singapore, Technische Universitat Munchen, and Indian Institute of Technology and core team members served as R&D backbone in well-known technology companies at home and abroad. We energetically explore the independent innovation and set up R&D centers in Beijing, Xi 'an and other places to actively introduce and cultivate the core R&D force.

Tsinghua University



MIT

Technische Universität München

Carnegie Mellon University

Talent Structure

Autel Robotics has **1011** employees by the end of December, 2024.

Among non-production personnel, **60%** are R&D staff.

Over **200** employees hold a bachelor's degree, and more than **80** employees have a master's degree or above.

40%
Non-R&D staff

60%
R&D staff

Corporate Honors And Certificates

As an international hi-tech company, Autel Robotics has repeatedly won numerous awards, being internationally renowned for build quality, unique design, and a superior user experience.

The EVO Lite+ and EVO Nano+ both won the "Red Dot Best Design Award", becoming the only company in the drone industry to win two "Best of the Best" (Red Dot Best Design) awards at one time. In addition, they both won the "Good Design Award", and EVO Lite and EVO Nano+ won the "iF Design Awards" respectively.

The Dragonfish has won the "Fixed-wing Technology Innovation Application Award", "Dapeng Design Award of the Fifth World Drone Conference" in China also.

Red Dot Award Ceremony

03

Enterprise Products

Dragonfish Series

EVO Lite Enterprise Series

EVO Max Series

Autel Alpha

Autel Titan

EVO II Enterprise V3

EVO II RTK Series V3

EVO II DUAL 640T V3

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.

Workflow

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	3025.7x4566x823.6mm
Weight	7.5kg	14.5kg	29kg
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:17~35m/s
Max. horizontal flight speed	108km/h（30m/s）	108km/h（30m/s）	126km/h（35m/s）
Max. Wind Resistance	12m/s	12m/s	15m/s
Service Ceiling Above Sea Level	6000m	6000m	5000m
Transmission Range	30km	30km	60km
IP Rating	IP43	IP43	IP45
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).

EVO Lite Enterprise Series

Lightweight Yet Mighty

EVO Lite Enterprise Series, by Autel Robotics, is characterized by its lightweight and compact design, making it remarkably portable. The A-Mesh networking capability supports collaborative dual-drone dual-control operations. Equipped with high-precision visual navigation capabilities, it supports stable flight even in environments with poor signal through SLAM technology. The EVO Lite 640T Enterprise Edition features a dual gimbal system, with a visible light camera providing clear and detailed images, while the thermal imaging camera aids in decision-making during operations. The EVO Lite 6K Enterprise Edition is equipped with a 1-inch CMOS visible light camera, offering outstanding sensitivity for excellent image quality. With the intelligent features of the professional flight app, it enables flexible single-person deployment and efficient application in scenarios such as public safety and emergency rescue.

- Lightweight and Portable
- Simple Control
- AI Target Recognition and Positioning
- 6K Resolution
- 640*512 Infrared Thermal Imaging
- 12km Video Transmission Range
- Three-Way Binocular Vision Obstacle Avoidance
- 40-Minute Flight Endurance

EVO Lite 640T Enterprise

Equipped with a dual gimbal, the wide-angle visible-light camera offers a broad field of view with vivid high-definition images, while the infrared thermal-imaging camera integrates high-resolution thermal-imaging algorithms, providing clear and detailed thermal source identification.

Thermal-Imaging Camera

640*512 resolution
9.1 mm focal length
16x digital zoom
Temperature measurement range: -20°C to 150°C / 0°C to 550°C
Temperature accuracy: ±3°C or ±3% of reading

Visible-Light Camera

1/2 inch CMOS
48 million pixels
F2.8 aperture
16x digital zoom
Maximum photo size of 8000*6000
Maximum video resolution of 4K 30P

EVO Lite 6K Enterprise

Equipped with a 6K visible-light camera, it can still capture high-definition, low-noise images in low-light environments, providing insights into targets and empowering police enforcement, patrol inspection, search, and rescue scenarios.

Visible Light Camera

1-inch CMOS sensor
20 million pixels
Adjustable aperture from F2.8 to F11
ISO support up to 48,000 (night mode)
16x digital zoom
Photo resolutions of 5472*3648 / 5472*3076
Maximum video resolution of 4K 30P

Technical Specifications

Aircraft	
Weight	866g
Dimensions	210×123×95mm（folded, propellers included） 433×516×95mm（unfolded, propellers included）
Wheelbase	368mm
Maximum flight mileage	24km
GNSS	GPS / BDS / GLONASS
Maximum Service Ceiling	3000m
Above Sea Level	40mins
Maximum flight time(no wind)	Vertically: ±0.1 meters (when visual positioning is working normally) ±0.3 meters (when GNSS is working normally) Horizontally: ±0.15 meters (when visual positioning is working normally) ±0.3 meters (when GNSS is working normally)
Hover accuracy	
Maximum Wind Speed Resistance	10.7 m/s

EVO Lite 640T Enterprise — Visible Light Camera	
Image sensor	1/2 inch CMOS, 48 million pixels
Lens	DFOV: 83.4° Equivalent focal length of 35mm: 24 mm Aperture: f/2.8
ISO range	Auto/Manual: ISO100 ~ ISO6400
Zoom	1-16x digital zoom
Photo size	8000*6000 / 4000*3000
Video resolution	4000*3000 P30

EVO Lite 6K Enterprise — Visible Light Camera	
Image Sensor	1 inch CMOS, 20 million pixels
Lens	DFOV: 82° Equivalent focal length of 35mm: 29 mm Aperture: f/2.8-f/11
ISO range	Auto/Manual: ISO100 ~ ISO6400
Zoom	1-16x digital zoom
Photo Size	5472*3076 / 3840*2160
Video Resolution	3840*2160 P30

EVO Lite 640T Enterprise — Thermal Imaging Camera	
Image Sensor	Uncooled VOx Microbolometer
Lens	FOV: 61° Focal length: 9.1 mm Aperture: f/1.0
Pixel Pitch	12um
Radiometric Temperature Range	-20°C to 150°C (high gain mode); 0 to 550°C (low gain mode)
Radiometric Measurement Accuracy	±3°C or reading ±3% (using the larger value)
Digital Zoom	1-16x digital zoom
Photo Size	640×512
Video Resolution	640×512@30FPS

EVO Max Series

Reach New Frontiers

The EVO Max series adopts Autel Autonomy's autonomous flight technology, achieving global path planning, 3D scene reconstruction, autonomous obstacle avoidance, and return-to-home in complex environments. With the capability of precise navigation without GNSS, it offers high-precision visual navigation in scenarios where GNSS signals are blocked, weak, or heavily interfered with, ensuring stable and reliable flight with high accuracy and low latency. The industry's first A-Mesh networking technology supports the free networking of multiple devices, achieving integrated air-ground network coverage. Featuring a "dual fisheye vision + millimeter-wave radar" multi-sensor fusion perception technology, it has 720° omnidirectional sensing and obstacle avoidance capabilities. The EVO Max series is equipped with the FusionLight camera 4T, FusionLight camera 4T XE and FusionLight camera 4N, integrating a zoom camera, an ultra-starlight level night vision camera, an ultra-sensitive wide-angle camera, a thermal imaging camera, and a laser rangefinder. It efficiently empowers public safety, energy inspection, emergency management, and other fields, setting a new benchmark for industry applications of drones.

- 720° Obstacle Avoidance
- Superior Anti-Interference Capability
- High-Precision Visual Navigation
- A-Mesh Networking
- 8K 10x Optical Zoom Camera
- Superstarlight-Grade Night Vision Camera
- Hot-Swappable Batteries
- 15-Kilometer HD Video Transmission
- 42 Minutes of Enduring Endurance
- IP43 Protection Rating

EVO Max 4N | Chasing Light and Shadows

The EVO Max 4N is equipped with a flagship-level payload, integrating a super starlight-level night vision camera, an ultra-sensitive wide-angle camera, a thermal imaging camera, and a laser rangefinder. Intelligent linkage among multiple sensors breaks through visual limitations, offering a revolutionary experience for all-weather operations.

Thermal Camera

640×512 resolution
9.1 mm focal length
16x digital zoom
-20°C to +150°C / 0°C to +550°C
temperature measurement range

Laser Rangefinder

5-1200 meters measurement range
± (1 meter + D×0.15%) measurement accuracy
*D = measurement distance

Starlight Camera

2.3 million pixels
0.0001 Lux: 0.0001
ISO: 440000
41.4 mm equivalent focal length

Wide Camera

50 million pixels
1 inch CMOS
F1.9 aperture
FOV 85°
23 mm equivalent focal length

EVO Max 4T XE | Chasing Light and Shadows

The EVO Max 4T XE comes with a flagship-level payload, integrating up to 160x hybrid zoom camera, ultra-sensitive wide-angle camera, thermal imaging camera, and laser rangefinder into one. Intelligent linkage among multiple sensors breaks through visual limitations, bringing a revolutionary experience for all-weather operations.

Laser Rangefinder

5-1200 meters measurement range
± (1 meter + D×0.15%) measurement accuracy
*D = measurement distance

Thermal Camera

640×512 resolution
9.1 mm focal length
16x digital zoom
-20°C to +150°C / 0°C to +550°C
temperature measurement range

Zoom Camera

48 million pixels
4000x3000 30P
10x continuous optical zoom
160x hybrid zoom
F2.8-F4.8 variable aperture

Wide Camera

48 million pixels
1/2 inch CMOS
F2.8 aperture
FOV 83.4°
24mm equivalent focal length

Specifications

Aircraft	
Weight (including battery, gimbal, and propellers)	EVO Max 4T：1640 g ｜ EVO Max 4N：1665 g ｜ EVO Max 4T XE：1635 g
Maximum Take-off Mass	1999 g 1890 g (for C2 Certification in EU)
Fuselage Dimensions	562*649*150 mm（unfolded, 1136 propellers included） 563*650*150 mm（unfolded, 1158 propellers included）
Diagonal Wheelbase	465 mm
Maximum Flight Time (windless)	42 minutes
Maximum flight mileage	25 km
Maximum Wind Speed Resistance	12m/s
IP Rating	IP43（*Customized services）
Operating Temperature	-20°C to 50°C (Without load)；-20°C to 40°C (Full load)
GNSS	GPS / Galileo / BDS / GLONASS
Hovering Accuracy	Vertically: ±0.1 m (when vision systems working normally); ±0.5 m (when GNSS working normally); Horizontally: ±0.3 m (when vision systems working normally); ±0.5 m (when GNSS working normally);
Operating Frequency	900M / 2.4G / 5.2G / 5.8G
Maximum signal effective distance	FCC：15 km，CE：8 km

Autel Alpha

Beyond The Frontiers

Autel Alpha is an intelligent industrial drone for multi-purpose. Boasting significant enhancements in autonomous flight capabilities, anti-interference capabilities, obstacle avoidance capabilities, video transmission technology, and battery systems, it injects robust performance into the flight platform. With a foldable design and IP55-rating level, it tackles challenging environments. The built-in RTK dual-antenna system ensures precise control within millimeters when carrying out the missions. Paired with the next-gen DG-L35T gimbal, it integrates a 560x hybrid zoom camera, dual thermal imaging cameras, a visible light wide-angle camera, and a laser rangefinder. The dual thermal imaging cameras meet the needs of both short-range overview and long-range detail observation, achieving distant operation scenarios with unobstructed personnel recognition within an 8-kilometer range, providing more professional and comprehensive solutions for applications such as public safety, energy inspection, and emergency management.

- Superior Anti-interference
- High-Precision Visual Navigation
- AI Target Recognition and Positioning
- 56x Dual Thermal Camera
- 4K 35x Optical Zoom
- IP55 Rating
- Hot-swappable Battery
- Wire-Level Obstacle Avoidance and Pathfinding
- 15 Kilometers Video Transmission Range
- Flexible Payload Expansion

Autel DG-L35T Gimbal | Insight Beyond Limits

The Autel Alpha is equipped with a versatile payload, integrating dual thermal imaging cameras (short/long focal length), a 4K 35x night vision zoom camera, a wide-angle camera, and a laser rangefinder, giving you full-spectrum target monitoring and efficient support for long-range reconnaissance scenarios.

Zoom Camera

8 MP
4K 35x Optical Zoom
560x Hybrid Zoom
Ultra-sensitive ISO supports up to a maximum of 160,000

Wide Camera

48 MP
Aperture: f/2.8
DFOV: 84°
Equivalent Focal Length: 24mm

Laser Rangefinder

Measurement range: 10-2000 meters
Measurement accuracy: ＜400m: +1m; ＞400m: D×0.3%
* where D represents the distance from the vertical reflecting surface

Dual Thermal Camera

640*512
56x Hybrid Zoom
13mm Focal Length Wide-angle Thermal Imaging
45mm Focal Length Long-range Thermal Imaging

Exceptional Anti-Interference Capability

Autel Alpha's GNSS visual positioning capabilities, adaptive frequency-hopping and SLAM navigation technology empowers resistance from interference and enables the drone to fly confidently near powerlines, critical structures and in complex areas.

Autonomous Flight

Autel's Autonomy Engine is continuously improving, enabling functions such as global path planning and 3D scene reconstruction in complex environments. It offers various obstacle avoidance capabilities, including return-to-home, manual control, and mission planning, providing a more professional solution for industries such as security, inspection, and surveying.

No Blind Spots
Ultimate Obstacle Avoidance

By integrating multi-source sensor fusion technology, including 5-direction dual fisheye vision + 6-direction millimeter-wave radar, the drone is equipped with wire-level obstacle avoidance and pathfinding capabilities. Additionally, it supports nighttime obstacle avoidance for flight safety.

Specifications

Aircraft		
Weight (including battery, gimbal, and propellers)	6480g	
Maximum Takeoff Weight	8400g	
Dimensions	1205*980*278mm (unfolded, incl. propellers) 780*568*278mm (unfolded, excl. propellers) 455*263*248mm (folded, excl. propellers)	
Diagonal Wheelbase	814mm	
Max Flight Time (windless)	40mins	
Max Hovering Time (windless)	38mins	
Maximum Horizontal Flight Speed (Windless Near Sea Level)	Slow: 3 m/s Smooth: 10 m/s Standard: 15 m/s (forward & backward), 10 m/s (sidewards) Ludicrous: 25 m/s (forward & backward & sidewards)	
Max Wind Resistance	12m/s	
Operating Frequency	2.4GHz/5.2GHz/5.8GHz/900MHz	
Hovering Accuracy	Vertically ±0.1 m (when visual positioning works normally) ±0.3 m (when GNSS works normally) ±0.1 m (when RTK FIX)	Horizontally ±0.15 m (when visual positioning works normally) ±0.3 m (when GNSS works normally) ±0.1 m (when RTK FIX)
IP Rating	IP55	
Operating Temperature	-20℃ to +50℃	
GNSS	GPS+GLONASS+BeiDou+Galileo	

Autel Alpha Wide Camera	
Sensor	1/2 CMOS, Effective pixels: 48M
Lens	DFOV: 84° Equivalent Focal Length: 24 mm Aperture: f/2.8
ISO Range	normal： AUTO: ISO100~ISO3200
Photo Size	4000*3000
Video Resolution	4000*3000 25P

Specifications

Autel Alpha Zoom Camera	
Sensor	1/1.8" CMOS
Lens	FOV: 66.7-34.6° Focal Length: 34.7~838mm Aperture: f/1.61~f/5.19
Zoom Range	Optical Zoom: 1~35 times Digital Zoom: 35~560 times
ISO Range	Photo: ISO100~ISO6400 Video: ISO100~ISO6400 (Night scene mode: up to ISO160000)
Photo	Format: JPG Resolution: 3840*2160
Video	Format: MP4 Max Resolution: 3840*2160 P30 Max Bit Rate: 30Mbps

Autel Alpha Thermal Camera (Wide)	
Sensor	Uncooled VOx Microbolometer
Lens	FOV：42° Focal length: 13mm Aperture: f/1.2
Zoom Range	Wide Digital Zoom: 1~3.5 times
Resolution	640*512 P25
Temperature Measurement Range	-20℃ to +150℃，0℃ to +550℃
Radiometric Measurement Accuracy	5-meter distance test in a windless laboratory environment at 25°C: ±3°C or reading ±3% (using the larger value) @ ambient temperature ranges from -20°C to 60°C

Autel Alpha Thermal Camera (Tele)	
Sensor	Uncooled VOx Microbolometer
Lens	FOV：12.3° Focal length: 45mm Aperture: f/1.2
Zoom Range	Tele Digital Zoom: 3.5~56 times
Resolution	640*512 P25
Temperature Measurement Range	-20℃ to +150℃，0℃ to +550℃
Radiometric Measurement Accuracy	35-meter distance test in a windless laboratory environment at 25°C: ±5°C or reading ±5% (using the larger value) @ ambient temperature ranges from -20°C to 60°C

Autel Alpha Laser Rangefinder	
Measuring Range	10-2000m
Measurement Accuracy	＜400m：+1m；＞400m：D×0.3% where D represents the distance from the vertical reflecting surface

Autel Titan

Combination Of Speed And Security

Autel Titan is a four-rotor, eight-propeller heavy-lift multi-rotor drone which boasts formidable anti-interference and payload capabilities, allowing safe and efficient transportation of up to 10 kg in complex environments. With a dual-battery redundancy design, it offers up to 55 min flight time. Its IP55 protection rating equips it to handle adverse environmental conditions and unexpected situations effectively. The integration of a binocular vision system and millimeter-wave radar enhances environmental perception and nighttime obstacle avoidance. Coupled with a dual thermal imaging gimbal camera, it covers both long and short-range operations, making it suitable for day and night, all-weather operations and providing efficient support for transportation and emergency response in various fields.

- Exceptional Anti-Interference Capability
- High-Precision Visual Navigation
- Maximum Payload: 10 kg
- Max. Flight Time: 55 minutes
- Max. Range: 50 km
- Hot-Swappable Batteries
- 720° Omnidirectional Obstacle Avoidance
- Supports Multiple Payloads

Exceptional Anti-Interference Capability

Autel Titan's GNSS visual positioning capabilities, adaptive frequency-hopping and SLAM navigation technology empowers resistance from interference and enables the drone to fly confidently near powerlines, critical structures and in complex areas.

Extended Endurance, Superb Payload Capacity

The four-rotor, eight-propeller foldable design is lightweight yet sturdy and reliable. This design enhances lifting capabilities, with a dual-battery redundancy design, it can achieve up to 55 minutes of maximum flight time with a standard payload and cover distances of up to 50 km, effectively accommodating payloads to 10 kg to meet diverse transportation needs.

Omnidirectional Obstacle Avoidance, All-Weather Operations

By fusing multiple sensors, including a binocular fisheye vision system and millimeter-wave radar, it provides 720° all-around perception and obstacle avoidance capabilities. It also supports nighttime obstacle avoidance, ensuring safe flights.

Accessories

Transportation Case

Efficiently Empowering Long-Distance Transportation Operations

DG-L35T Gimbal Camera

Providing support for long-distance and nighttime reconnaissance operations

Ground Station Pro

Extending the transmission range by 90%

Specifications

Aircraft	
Weight	23kg
Max. Payload	10kg
Dimensions	1879*1866*584mm (incl. propellers and mount.) 1141*1120*563mm (excl. propellers) 752*328*526mm (folded, excl. mount)
Diagonal Wheelbase	1440mm
Max Flight Time (windless)	55mins
Max Horizontal Speed (windless near sea level)	25m/s
Max Wind Resistance	12m/s
Hovering Accuracy	Vertically: ±0.1 m (when vision systems working normally); ±0.3 m (when GNSS working normally); Horizontally: ±0.15 m (when vision systems working normally); ±0.3 m (when GNSS working normally)
IP Rating	IP55
Operating Temperature	-20℃ to +50℃
GNSS	GPS+GLONASS+BeiDou+Galileo
Visual Sensing Systems	5-way binocular vision OA, detection range >50m
Radar	6-way millimeter-wave radar, supporting nighttime OA, detecting small metal objects at a distance >60m, buildings at a distance >100m

EVO II Enterprise V3

Compact. Versatile. Powerful.

An improved high-quality imaging system, upgraded 9.3 miles image transmission range, and additional modular accessories help you meet a variety of use cases including inspection, search and rescue, situation overwatch and more.

- 9.3 Miles Transmission Range
- 360° Obstacle Avoidance
- Moonlight Algorithm 2.0
- Modular Accessories
- Centimeter Level Positioning with RTK

EVO II Pro Enterprise V3

All New 6K 1" CMOS Camera

See clearer with Sony's new 20 megapixel 1-inch CMOS image sensor, supporting up to 6K video resolution with greater dynamic range and higher frame rates.

Aperture Range Of f/2.8 To f/11

The lens's adjustable aperture range of f/2.8 to f/11 and a maximum ISO of 44000 enables the photographer to enhance their image control and creative freedom.

EVO II Dual 640T Enterprise V3

640 x 512 25Hz Thermal Imaging Sensor

Equipped with a 640 x 512 high-resolution thermal imaging camera featuring a 13mm focal length lens and 16x digital zoom, it is easy to observe distant targets with incredible detail. With the new image processing algorithm, thermal details are incredibly crisp and clear.

0.8" RYYB CMOS

The 0.8-inch RYYB CMOS sensor and Moonlight Algorithm 2.0 suppress image noise in limited-lighting conditions, making target detection, identification, and classification easier than ever. Paired with the 50 megapixel camera, users can expect extremely high quality photo capture at all times of the day.

Mission Versatility

Loudspeaker

Enables effective on-site communication through long distance live broadcasts and prerecorded audio loops.

Spotlight

Beams a powerful, long distance aerial light when searching or shooting at night.

Strobe

Indicate the location of the aircraft at night to avoid air traffic accidents.

RTK Module (Optional)

Improve anti-electromagnetic interference capability to achieve centimeter-level positioning and assist refined inspection.

Specifications

Aircraft	
Takeoff Weight (without Payload)	EVO II Pro Enterprise: 2.45 lbs (1110 g) EVO II Dual 640T Enterprise: 2.51 lbs (1136.5 g)
Dimension	Folded: 9.6*5.1*4.4 inches; 245*130*111mm Unfolded: 19.9*24.4*4.4 inches; 506*620*111mm
Diagonal Length	16.8 inches (427 mm)
Max Flight Time (no wind)	42 Mins (without accessories)
Max Hovering Time (no wind)	38 mins (with strobe), 29 mins (with spotlight), 34 mins (with loudspeaker), 36 mins (with RTK module)
Operating Temperature	14°F to 104°F (-10°C to 40°C)
Maximum wind resistance level	fresh breeze

Accessories

Strobe

Dimensions: 39*72*34 mm
Weight: 19.5 g
Connections: Floating Connectors
Power: Avg. 1.6W
Controllable Range: 5000 m
Light Intensity: Min 50cd; Max 486cd; Avg. 290cd

Loudspeaker

Dimensions: 46*80*77 mm
Weight: 98.5 g
Connections: Floating Connectors
Power: Max 18W
Decibel: 120dB @ 1m; 88dB @ 60m; 70dB @ 110m
Max Bitrate: 36kbps
Adjustable Angle Range: 0° - 45°

Spotlight

Dimensions: 48.5*72*63 mm
Weight: 77 g
Connections: Floating Connectors
Power: Max 35W
Controllable Range: 30 m
Adjustable Angle Range: 0° - 90°
Illuminance: FOV14°, Max: 11lux @ 30m Straight

RTK Module

Dimensions: 55.5*72.5*57 mm
Weight: 59.5 g
Connections: Floating Connectors
Power: ~ 3W
RTK Positioning Precision:
1.5 cm + 1 ppm (Vertical)
1 cm + 1 ppm (Horizontal)

EVO II Pro Enterprise V3 Visual Camera	
Sensor	1 inch CMOS; 20M Pixels
FOV	82°
Aperture	f/2.8 - f/11
Focus Range	0.5 m to infinity
Equivalent Focal Length	29mm
Zoom	1-16x (up to 4x lossless zoom)

EVO II Dual 640T Enterprise V3 Thermal Camera	
Sensor	Uncooled VOx Microbolometer
FOV	H33°V26°
Wavelength	8 - 14μm
Temperature Measurement Distance	2-20m
Focal Length	13mm
Zoom	1-16x

EVO II Dual 640T Enterprise V3 Visual Camera	
Sensor	1/1.28"(0.8") CMOS; 50M effective pixels
FOV	85°
Aperture	f/1.9
Focus Range	0.5m to infinity
Equivalent Focal Length	23mm
Zoom	1-16x (up to 4x lossless zoom)

EVO II RTK Series V3

Unrivaled Accuracy And Control

The EVO II RTK Series V3 introduces a brand-new RTK module, which provides real-time centimeter-level positioning data, and supports Post-Processing Kinematic (PPK). The aircraft can record the original satellite observation data, camera exposure parameters and more. The positioning system supports an RTK base station and NTRIP RTK network, which help to achieve accurate and stable data acquisition in complex operation environments.

- Centimeter-Level Positioning
- 360° Obstacle Avoidance
- Phase-free Control
- RTK Positioning
- 9.3 Miles Transmission Range
- 38 Mins Flight Time
- 20m/s Flight Speed

EVO II Pro RTK V3

Capture Every Detail

EVO II Pro RTK V3 has high dynamic range and powerful low light performance, enabling users to capture clear detail sets with minimal distortion and noise.

1-Inch Ultra-Sensitive Sensor

The EVO II Pro RTK V3 comes with a NEW updated 1-inch 6K CMOS image sensor with a maximum of 20 megapixels. Thanks to the ultra-sensitive algorithm, you can still shoot clean, detailed, low-noise data sets under twilight or night conditions.

f/2.8 ~ f/11 Adjustable Aperture

Adapt to lighting changes by adjusting the lens aperture size, giving the pilot more shutter speed control.

6K ULTRA HD

1" sensor

EVO II Dual 640T RTK V3

Dual Cameras, Accurate Temperature Measurement

The EVO II Dual 640T RTK V3 is equipped with a high-resolution thermal imaging camera and an all new Sony .8" 50 megapixel RYYB sensor.

High-Resolution Thermal Imaging Sensor

Equipped with a 640x512 high-resolution thermal imaging camera featuring a 13mm focal length lens and 16x digital zoom, it is easy to observe distant targets. The system uses a new image processing algorithm, making thermal imaging details clearer and more discernible than the competition with the similar resolution and hardware.

Precise Temperature Measurement

The EVO II Dual 640T RTK V3 can accurately detect heat sources within a distance of 2-20 meters. By leveraging the compensation algorithm of infrared temperature measurement, the 640T RTK can regulate temperature deviations within 3 degrees Celsius.

Radiometric

Specifications

Aircraft			
Weight (with propellers, battery and RTK module)	1250g±0.5g (EVO II Dual 640T RTK V3) 1237g±0.5g (EVO II Pro RTK V3)		
Dimensions	Folded: 230*130*143mm; 9.1*5.1*5.6 inches Unfolded: 457*558*143mm; 18*22*5.6 inches		
Wheelbase	397mm		
Max Ascent Speed	Novice mode:3 m/s	Standard: 5m/s	Ludicrous: 8 m/s
Max Descent Speed	Novice mode: 3 m/s	Standard: 3 m/s	Ludicrous: 4 m/s
Maximum horizontal flight speed (no wind near sea level)	Novice mode: 3 m/s	Standard: 10 m/s	Ludicrous: 20 m/s
Maximum Service Ceiling Above Sea Level	5000 meters		
Maximum Flight Time (no wind)	38 minutes		
Hovering Accuracy	When RTK is enabled and working normally: Vertical: ±0.1 m; Horizontal: ±0.1 m Vertical: ±0.1 m (when the visual positioning is working normally); ±0.5 m (when GNSS works normally) Horizontal: ±0.3 m (when the visual positioning is working normally); ±1.5 m (when GNSS works normally)		
Maximum wind resistance level (takeoff and landing phase)	Fresh Breeze		

Remote Controller & Image Transmission	
Resolution	2048x1536 60 FPS
Operating Time	2.5 hours (Max Brightness) 4.0 hours (50% Brightness)
Charging Time	120 Minutes
Max Transmission Range (unobstructed, free of interference)	FCC: 9.3 miles (15 km) CE: 5 miles (8 km)

EVO II Pro RTK V3 Visual Camera	
Sensor	1 inch CMOS; 20M pixels
Lens	FOV: 82° Equivalent Focal Length: 29 mm Aperture: f/2.8 - f/11 Focus range: 0.5 m to infinity
Zoom	1-16x (up to 3x lossless zoom)

EVO II Dual 640T RTK V3 Thermal Camera	
Sensor	Uncooled VOx Microbolometer
Lens	FOV H33°V26° Focal Length 13mm
Zoom	1-16x
Temperature Measurement Accuracy	±3 or ±3% of reading (whichever is greater) @Environmental temperature -20℃ to 60℃
Temperature Measurement Distance	2-20 meters

EVO II Dual 640T RTK V3 Visual Camera	
Sensor	1/1.28"(0.8") CMOS; 50M effective pixels
Lens	FOV: 85° Equivalent Focal Length: 23 mm Aperture: f/1.9 Focus range: 0.5 m to infinity (with auto focus)
Zoom	1-16x (up to 3x lossless zoom)

EVO II Dual 640T V3

Power. Efficiency. Reliability.

Equipped with a 640 x 512 high-resolution thermal imaging camera featuring a 13mm focal length lens and 16x digital zoom, it is easier than ever to observe distant targets. The system uses a new image processing algorithm, making thermal details clearer and more discernible than other options with similar resolution and hardware.

- 9.3 Miles Transmission Range
- 38 Mins Flight Time
- Aluminum-magnesium Alloy
- 360° Obstacle Avoidance
- 20 m/s Flight Speed

EVO II Dual 640T V3

640x512 25Hz New Thermal Imaging Sensor

Equipped with a 640 x 512 high-resolution thermal imaging camera featuring a 13mm focal length lens and 16x digital zoom, it is easier than ever to observe distant targets. The system uses a new image processing algorithm, making thermal details clearer and more discernible than other options with similar resolution and hardware.

DRI Ranges

See a specific subject's identity, activity, or personal items.

	Person	SUV	Truck
Dimension	1.8*0.5m	4.2*1.8m	6*4m
Detection	542m	1661m	2889m
Recognition	135m	415m	722m
Identification	68m	208m	361m

- Detection: Detect if an object is present.
- Recognition: See what type of object it is (i.e. person, vehicle, airplane).
- Identification: Determine subject affiliation and intent.

Radiometric | 15 KILOMETERS | 38 MINUTES

50MP Ultra-Sensitive Camera

The EVO II Dual 640T V3's RYYB sensor features the Moonlight Algorithm 2.0 that provides excellent noise reduction in limited lighting conditions, further enhancing its 50 megapixel camera to give users more detail for better forensics and analysis.

0.8" Sensor Size

The EVO II Dual 640T V3's 0.8" RYYB CMOS offers up to 144%~233% more surface area when compared t o 1/2" or 1/2.3" competitors for maximum details in high contrast lighting conditions.

RYYB Sensor Technology

RYYB sensor technology moves away from RGB cameras by offering up to 40% more light sensitivity in low light scenarios.

PDAF+CDAF Autofocus System

Never lose sight of your subjects with a combination of PDAF (Phase Detection Auto Focus) and CDAF (Contrast Detection Auto Focus) technology for fast and accurate tracking.

Specifications

Aircraft			
Takeoff Weight (with propellers and battery)	2.54 lbs (1209 g)		
Maximum takeoff weight	1270 g (C2)		
Dimension (L*W*H)	Folded: 230*130*108 mm: 9.1*5.1*4.3 inches Unfolded: 457*558*108 mm: 18*22*4.3 inches		
Wheelbase	397 mm		
Battery Capacity	7100 mAh		
Max Ascent Speed	Novice mode:3 m/s	Standard: 5 m/s	Ludicrous: 8 m/s
Max Descent Speed	Novice mode:3 m/s	Standard: 3 m/s	Ludicrous: 4 m/s
Maximum horizontal flight speed (no wind near sea level)	Novice mode:3 m/s	Standard: 10 m/s	Ludicrous: 20 m/s
Maximum Service Ceiling Above Sea Level	5000 meters		
Max Flight Time (no wind)	38 Mins		
Max Hovering Time (no wind)	33 Mins		
Max Flight Distance (no wind)	22 km		
Max Wind Resistance	27mph, 12 m/s (Take-off and landing)		
Operating Temperature	14°F to 104°F (-10°C to 40°C)		
Operating Frequency	900M / 2.4G / 5.2G / 5.8G Note: Some frequencies are only available in some regions or for indoor use only. Check locallaws and regulations for details.		
Maximum signal effective distance (No interference, no obstruction)	FCC: 10 kilometers CE: 8 kilometers		

Thermal Camera	
Sensor	Uncooled VOx Microbolometer
Lens	FOV H33°V26° Focal Length: 13mm
Zoom	1-16x
Wavelength	8 - 14μm
Temperature Measurement Distance	2-20m
Focal Length	13mm
Video Resolution	640x512@25FPS
Camera Resolution	Infrared Mode: 640*512 PIP Mode: 1920*1080, 1280*720

Visual Camera	
Sensor	1/1.28"(0.8") CMOS; 50M effective pixels
Lens	FOV: 85° Equivalent Focal Length: 23 mm Aperture: f/1.9 Focus Range: 0.5 m to infinity (with auto focus)
Zoom	1-16x
Video Resolution	3840x2160 P60/50/48/30/25/24 2720x1528 P60/50/48/30/25/24 1920×1080 P120/P60/P50/P48/P30/P25/P24

04

Consumer Products

EVO Nano Series

EVO Lite Series

EVO II Series

EVO Nano Series

Make Every Moment Matter

The EVO Nano series is Autel's first mini drone featuring smart selfies, endows with customers refreshing and delight new aerial shooting experience. The 250g lightweight design, 1/1.28-inch(0.8-inch) CMOS sensor capable of 50 MP photos, one click video, easy for the novice to shoot blockbusters and capture every details at any time and anywhere.

249g						16x
249g (0.55 lbs)	6.2 Miles Transmission Range	3-Way Obstacle Avoidance	22mph Wind Resistance	28 Mins Flight Time	3-Axis Gimbal	16x Digital Zoom

EVO Nano+

The Ultralight Companion For The Photography Enthusiast

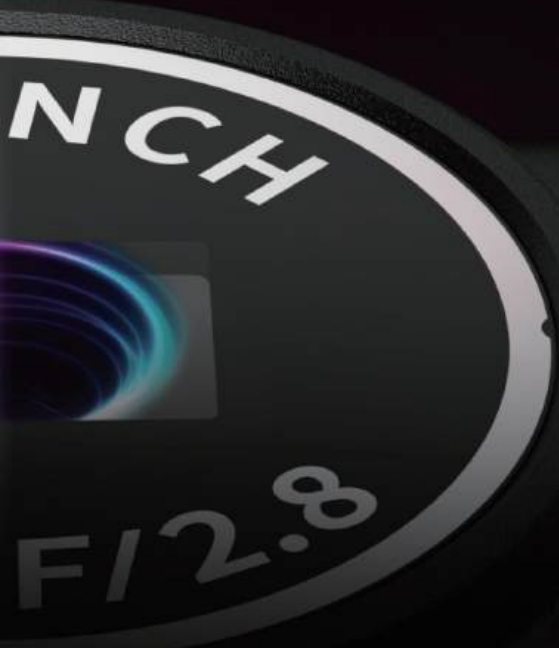
EVO Nano+ is packed a 1/1.28-inch (0.8-inch) CMOS sensor capable of 50 MP photos. A RYYB color filter array design with a large aperture of f/1.9 offers superior noise reduction capabilities and the power to effortlessly produce quality images in low-light conditions. Track fast-moving subjects with incredible precision through PDAF + CDAF autofocus system; Squeeze rich detail from shadows and highlights no matter how extreme the lighting conditions using HDR mode, which rapidly snaps several photos at different exposures so they can be stitched together in post-production.

- 1/1.28" (0.8") CMOS
- RYYB Sensor
- 2.44μm Pixel
- PDAF+CDAF Autofocus System

EVO Nano

Super Sharp. Ultra Smooth

The EVO Nano is equipped with a 48MP camera that can record ultra sharp 4K@30FPS video. Paired with a three-axis mechanical gimbal to prevent vibration, the Nano provides everything you need to ensure your footage is smooth and stable no matter how rough the conditions.



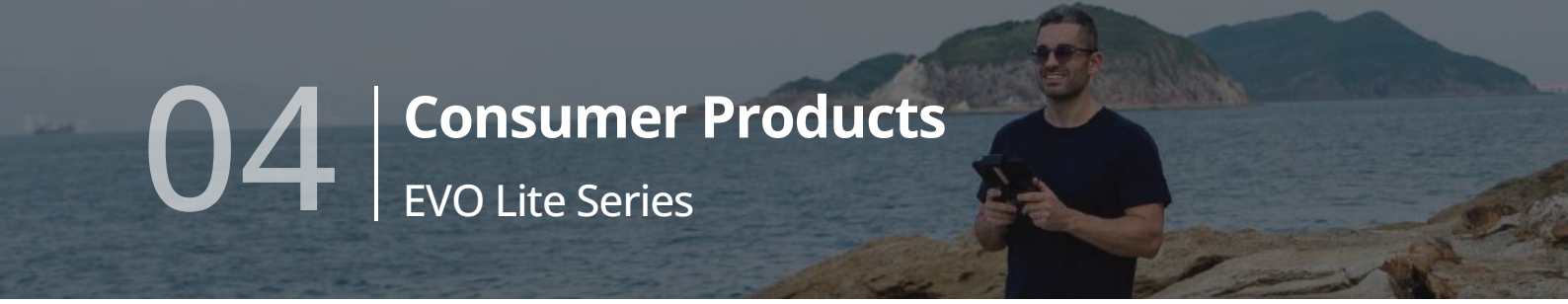
- 4K HDR
- 1/2" CMOS
- 48MP Camera
- 3-axis Gimbal

Specifications

Aircraft	
Takeoff Weight (with propellers and battery)	0.55 lbs (249 g)
Dimensions (including blades)	Folded: 142×94×55mm Unfolded: 260×325×55mm
Wheelbase	231 mm
Max Ascent Speed	5m/s (ludicrous), 4m/s (standard), 3m/s (smooth)
Max Descent Speed	4m/s (ludicrous), 3m/s (standard), 2m/s (smooth)
Max Horizontal Flight Speed	15m/s (ludicrous), 10m/s (standard), 5m/s (smooth)
Max Takeoff Altitude	4000 m
Max Flight Time (no wind)	28 Mins
Max Hovering Time (no wind)	26 Mins
Max Flight Distance (no wind)	16.8 km
Max Wind Resistance	22mph,10 m/s (Take-off and landing)
Max Tilt Angle	33° (ludicrous), 5° (standard), 25° (smooth)
Max Angular Velocity	200° (ludicrous), 120° (standard), 60° (smooth)

EVO Nano	
Sensor	CMOS: 1/2 inch Effective Pixels: 48M Pixel Size: 1.6μm*1.6μm (Bin2)
Lens	FOV: 84° Equivalent Focal Length: 24mm Aperture: f/2.8 Focus Range: 1m - infinity Focus Mode: fixed focus
Zoom	1-16x
Photo Resolution	48 MP: 8000x6000 (4:3) 12 MP: 4000x3000 (4:3) 4K: 3840x2160 (16:9)
Video Resolution	3840x2160 P30/25/24 2720x1528 P30/25/24 1920x1080 P60/50/48/30/25/24

EVO Nano+	
Sensor	CMOS: 1/1.28 inch (0.8 inch) Effective Pixels: 50MP Pixel Size: 2.44μm*2.44μm (Bin2)
Lens	FOV: 85° Equivalent Focal Length: 23mm Aperture: f/1.9 Focus Range: 0.5m - infinity Focus Mode: PDAF+CDAF/MF
Zoom	1-16x
Photo Resolution	50 MP: 8192x6144 (4:3) 12.5 MP: 4096x3072 (4:3) 4K: 3840x2160 (16:9)
Video Resolution	3840x2160 P30/25/24 2720x1528 P30/25/24 1920x1080 P60/50/48/30/25/24



EVO Lite Series

New Perspectives. New Possibilities.

EVO Lite series is the new generation flagship aerial photography drone, which consists of EVO Lite and EVO Lite. The EVO Lite series interprets Autel's latest technology in video, flight control and software, providing an unprecedented flight control experience and professional images, which brings about more inspirations, new perspectives and new possibilities.

Supersensitive Image	7.4 Miles Transmission Range	3-way Obstacle Avoidance	40 Mins Flight Time	18m/s Flight Speed	16x Digital Zoom

EVO Lite+

Cut Through The Darkness. Take Back The Night.

Discover The World By Moonlight

Equipped with a 1-inch CMOS image sensor and Autel's intelligent moonlight algorithm, the EVO Lite+ can capture crisp, vibrant details at night with low noise - even when the ISO is cranked up high.

Take Control With An Adjustable Aperture

Flex your creativity with an adjustable aperture from f/2.8-f/11, giving you the ability alter exposure and depth of field in imaginative ways that show off your unique artistic style.

1"CMOS
CMOS

6K@30FPS
Video

HDR

EVO Lite

Instant Lightweight Champion

World's First 4-axis Gimbal Design

The EVO Lite is the first drone in the world to introduce a four-axis gimbal design, enabling you to shoot vertical videos for easy editing and sharing on mobile devices.

Supersensitive 50MP Camera

Experience a new level of image quality thanks to a supersensitive 50MP camera equipped with a 1/1.28-inch CMOS sensor. The camera adopts an RYYB color filter array design, which absorbs 40% more light than traditional RGGB arrays, allowing you to capture natural scenery in all its glory.

1/1.28"(0.8")
CMOS

50 MP
Photo

4K HDR
Video

RYYB
Sensor

PDAF+CDAF
Autofocus System

Specifications

Aircraft	
Takeoff Weight (with propellers and battery)	1.84 lbs (835g)
Dimension (including blades)	Folded: 210×123×95mm Unfolded: 433×516×95mm
Wheelbase	368 mm
Max Ascent Speed	5m/s (ludicrous), 4m/s (standard), 3m/s (smooth)
Max Descent Speed	4m/s (ludicrous), 3m/s (standard), 2m/s (smooth)
Max Horizontal Flight Speed	18m/s (ludicrous), 10m/s (standard), 5m/s (smooth)
Max Takeoff Altitude	13123 ft (4000 m)
Max Flight Time (no wind)	40 Mins
Max Hovering Time (no wind)	26 Mins
Max Flight Distance (no wind)	24km
Max Wind Resistance	27mph,12 m/s (Take-off and landing)
Max Tilt Angle	33° (ludicrous), 25° (standard), 25° (smooth)
Max Angular Velocity	200° (ludicrous), 120° (standard), 60° (smooth)

EVO Lite	
Sensor	CMOS: 1/1.28 inch Effective pixels: 50M Pixel Size: 1.22μm*1.22μm
Lens	Equivalent Focal Length: 23mm Aperture: f/1.9 Focus Range: 0.5m - Infinity Focus Mode: PDAF+CDAF/MF
Zoom	Digital Zoom: 1 - 16 times Lossless Zoom: 4K: 2 times; 1080p: 4 times
Photo Resolution	50MP: 8192x6144 (4:3) 12.5MP: 4096x3072 (4:3) 4K: 3840x2160 (16:9)
Video Resolution	3840x2160 P60/50/48/30/25/24 2720x1528 P60/50/48/30/25/24 1920x1080 P120/60/50/48/30/25/24

EVO Lite+	
Sensor	CMOS: 1 inch Effective Pixels: 20M Pixel Size: 2.4μm*2.4μm
Lens	Equivalent Focal Length: 29mm Aperture: f/2.8 ~ f11 Focus Range: 0.5m - infinity Focus Mode: CDAF/MF
Zoom	Digital Zoom: 1 -16 times Lossless Zoom: 4K: 1.3 times; 1080p: 3times
Photo Resolution	5472x3648 (3:2) 5472x3076 (16:9) 3840x2160 (16:9)
Video Resolution	5472x3076 P30/25/24 3840x2160 P60/50/48/30/25/24 2720x1528 P60/50/48/30/25/24 1920x1080 P120/60/50/48/30/25/24

EVO II Series

Go Beyond The Boundaries Of Aerial Photography

The EVO II series is designed with modular gimbal that allows consumers to replace the gimbal on demand, which satisfies the photography enthusiasts. The world's first foldable 8k drone-EVO II enables users to zoom deep into a scene and crop an image to 4K without any loss in quality, pushing color further than ever before. With Sony's new 20 megapixel 1-inch CMOS image sensor, the EVO II Pro supports up to 6K video with greater dynamic range, stronger noise suppression, and higher frame rates.

5.5 Miles
Transmission Range

360° Obstacle
Avoidance

40 Mins
Flight Time

45mph
Max. Flight Speed

EVO II Pro V3

Leader In Picture Quality And Flight Intelligence

Exceptional Image Quality

With Sony's new 20 megapixel 1-inch CMOS image sensor, the EVO II Pro V3 supports up to 6K video with greater dynamic range, stronger noise suppression, and higher frame rates. The f/2.8-f/11 adjustable aperture and 44000 maximum ISO gives photographers enhanced creative control.

1-Inch
CMOS

20MP
Photo

6K@30FPS
Video

F2.8~F11
Aperture

1" Sensor

6K ULTRA HD

EVO II

Go Beyond The Boundaries Of Aerial Photography

Life In 33 Million Pixels Excellent With 8K

Autel Robotics EVO II 8K records in resolutions up to 7680x4320. With 16 times more pixels than HD and 4 times more pixels than 4K, 8K video redefines image detail. The high resolution enables users to zoom deep into a scene and crop an image to 4K without any loss in quality, pushing color further than ever before.

1/2-Inch
CMOS

48MP
Photo

F1.8
Aperture

4K 10Bits
HDR

8K ULTRA HD

Specifications

Aircraft	EVO II Pro V3	EVO II
Maximum takeoff weight	1270 g (C2)	2.48 lbs (1127 g)
Dimensions (L*W*H)	9.1*5.1*4.3 inches (folded); 18*22*4.3 inches (unfolded)	9.1*5.1*4.3 inches (folded); 18*22*4.3 inches (unfolded)
Wheelbase	15.6 inches (397 mm)	15.6 inches (397 mm)
Max Ascent Speed	8 m/s (Ludicrous)	8 m/s (Ludicrous)
Max Descent Speed	4 m/s (Ludicrous)	4 m/s (Ludicrous)
Max Horizontal Flight Speed	20 m/s (Ludicrous)	20 m/s (Ludicrous)
Max. Takeoff Altitude	5000 meters	5000 meters
Max Flight Time (no wind)	39 minutes	39 minutes
Max Hovering Time (no wind)	35 Mins	35 Mins
Max Flight Distance (no wind)	25km	25km
Maximum wind resistance level	fresh breeze	fresh breeze
Operating Temperature	14°F to 104°F (-10°C to 40°C)	14°F to 104°F (-10°C to 40°C)
Operating Frequency	900M / 2.4G / 5.2G / 5.8G Note: Some frequencies are only available in some regions or for indoor use only. Check locallaws and regulations for details.	2.400 - 2.4835 GHz 5.725 - 5.850 GHz (non-Japan) 2.400 - 2.4835 GHz 5.650 - 5.755 GHz (Japan Only)

EVO II Pro V3	
Sensor	1 inch CMOS; 20M Pixels
Lens	FOV: 82° Equivalent Focal Length: 29 mm Aperture: f/2.8 - f/11 Focus Range: 0.5 m to infinity
Zoom	1-16x (up to 3x lossless zoom)
ISO Range	Video: 100-6400 Photo: 100-6400 Night scene mode: Maximum video ISO44000
Photo Resolution	Photo Mode: 1/8000 - 8s Other: 1/8000 - 1/frame rates
Video Resolution	5472×3076 P30/P25/P24 3840×2160 P60/P50/P48/P30/P25/P24 2720×1528 P60/P50/P48/P30/P25/P24 1920×1080 P120/P60/P50/P48/P30/P25/P24

EVO II	
Sensor	1/2 inch CMOS; 48M Pixels
Lens	FOV: 79° Equivalent Focal Length: 25.6 mm Aperture: f/1.8 Focus Range: 0.5 m to infinity (with auto focus)
Zoom	1-16x (up to 4x lossless zoom)
ISO Range	Video: 100-6400 Photo: 100-3200
Photo Resolution	8000*6000 (4:3) 7680*4320 (16:9) 4000*3000 (4:3) 3840*2160 (16:9)

05

Ecosystem

Autel Smart Controller V3

Autel Smart Controller SE

Autel Smart Antenna Transmission (ASAT)

Autel Ground Control Station

Dragonfish Payloads

Dragonfish Repeater

EVO Nest

Autel Dragonfish Nest

Autel Integrated Command System

Autel Mapper

Autel Smart Controller V3

Simplicity. Clarity. Control.

Smart Controller V3's built-in display at 2000nits is 4 times brighter than a conventional cell phone screen and the 7.9 inch Ultra-HD (2048x1536) touch screen provides clear visibility under direct sunlight. Integrated true tone technology dynamically adjusts the white balance of the display, delivering the best viewing experience for the pilot in any lighting environment.

15 km
Transmission Range

Max 2000nits
Brightness

4 Hours
Operating

Specifications

Dimension	269×189×66mm (antennas folded) 269×302×87mm (antennas unfolded)
Weight	2.63 lbs / 1194g (without protective case) 3 lbs / 1365g(with protective case)
Battery Capacity	5800 mAh
Charging Time	120 Mins
Operating Time	2.5 hours (Max. Brightness) 4 hours (50% Brightness)
Operating Temperature	-4°F to 104°F (-20°C to 40°C)
Storage	ROM 128GB
IP Rating	IP43

Max Transmission Range (unobstructed, free of interference)	FCC: 9.3 miles (15 km) CE/SRRC: 5 miles (8 km)
Resolution	2048x1536
Max Brightness	2000 nits
Compatibility	EVO Max series EVO II series V3 Autel Alpha
Operating Frequency	900M / 2.4G / 5.8G Note: Some frequencies are only applicable in some regions or only used in door. For details, please refer to local laws and regulations.

Autel Smart Controller SE

Simplicity. Clarity. Control.

Smart Controller SE comes with a 6.4-inch OLED touch screen and latest gen 8-core processor for HD image transmission. SkyLink 2.0 Transmission technology guarantees long-distance operations from up to 9 miles away and enhances anti-interference abilities with triple band frequency hopping. The customized Android system allows for additional flexibility with 3rd-party apps and an IP43 rating ensures all-weather performance.

10 km
Transmission Range

800nits
Brightness

3 Hours
Operating

Specifications

Dimension	8.9*5.4*1.2 inches (antennas folded) 8.9*8.5*1.2 inches (antennas unfolded)
Weight	1.36 lbs (617g)
Battery Capacity	1900 mAh
Charging Time	90 Mins
Operating Time	2 hours (Max. Brightness) 3 hours (50% Brightness)
Operating Temperature	14°F to 104°F (-10°C to 40°C)
Storage	ROM 128GB + expandable storage via micro-SD card
IP Rating	IP43

Maximum Transmission Distance (Without Interference and Blocking)	FCC: 10 km CE/SRRC: 8 km
Resolution	2340 x 1080
Max Brightness	800 nits
Supported Aircrafts	EVO II Pro V3 EVO II Dual 640T EVO II RTK Series V3 EVO II Enterprise V3
Operating Frequency	900M / 2.4G / 5.8G Note: Some frequencies are only applicable in some regions or only used in door. For details, please refer to local laws and regulations.

Autel Ground Control Station

With an ultra-bright touchscreen of 1,000 nits, the Autel Ground Control Station is twice as bright as the average smartphone, making the 9.7-inch screen easy to see under direct sunlight.

18.6-mile Transmission Range

1000nits Brightness

4.5 Hours Operating

Specifications

Dimension	319×233×74mm (antennas folded) 319×398×74 mm (antennas unfolded)
Weight	HDMI Port
Battery Capacity	8200 mAh
Charging Time	120Mins
Operating Time	3 hours (Max. Brightness) 4.5 hours (50% Brightness)
Operating Temperature	-4°F to 104°F (-20°C to 40°C)
Storage	ROM 256GB + scalable (TF)
IP Rating	IP64

Resolution	2048x1536
Max Brightness	1000 nits
Compatibility	Dragonfish Lite Dragonfish Standard Dragonfish Pro
Video Transmission	Operating Frequency: 902-928 MHz (Only for FCC/ISED); 2.4000-2.4835 GHz; 5.150-5.250 GHz (Only for FCC/ISED); 5.725-5.850 GHz Max Transmitting Distance (unobstructed, free of interference): FCC: 6.2 miles (10 km) CE: 3.1 miles (5 km)

Dragonfish Payloads

Tackle any operation with a variety of payload options that can be toolessly swapped to suit mission needs. Dragonfish payloads are designed to be interchangeable between aircraft classes to maximize the value and enhance the mission capability of the system.

Autel DG-L20T

For DF Standard/Pro
· 1.79 lbs/810 g
· 5.94*3.82*6.77 inches
· 4K 20x optical zoom
· 12m pixel wide angle camera
· 640x512 infrared camera
· Laser range sensor

Autel DG-L50T

For DF Pro
· 4.08 lbs/1850 g
· 5.51*9.33*9.53 inches
· 4K 50x optical zoom camera
· 12m pixel wide angle camera
· 1280×1024 infrared camera
· Laser range sensor
· 3-axis gimbal stabilization

Autel DG-L35T

4K 35X optical zoom camera
48m pixel wide angle camera
640x512infrared camera
Laser range sensor
3-axis gimbal stabilization

Payloads Adaptability	Autel DG-L20T	Autel DG-L35T	Autel DG-L50T
Dragonfish Standard	√	×	×
Dragonfish Pro	√	×	√
Dragonfish-25	√	√	×

Autel Smart Antenna Transmission (ASAT)

Go Beyond

The Autel Smart Antenna Transmission (ASAT) System integrates three antennas into one lightweight and portable base station. The ASAT provides a transmission range of up to 28 miles*, expanding operational range with improved wireless signal reception and greater anti-interference security. The ASAT fully integrates into Autel Robotics' range of solutions, giving peace of mind for compatibility and interoperability.

*Measured in clear environments.

28 Miles
Transmission Range

15 Hours
Battery Life

90 Mins
Charging Time

Unlimited
Horizontal Rotation

Specifications

Dimensions	RTK Folded: 16.54(L)*15.75(W)*20.28(H) RTK Unfolded: 16.54(L)*31.5(W)*37.8(H)
Weight	10.5kg（without tripod）
Fast Deployment	Mobile/Fixed Deployment
Working Temperature	-20~45℃
Wind Resistance	Level 6
IP Rating	IP64
Max Transmission Distance	28 Miles (45 km)
Max Transmission Rate	70Mbps (within 6.2 miles under MIMO)
Operating Frequency	2.4GHz/5.8GHz（*customized frequency that complies with local laws and regulations are supported）

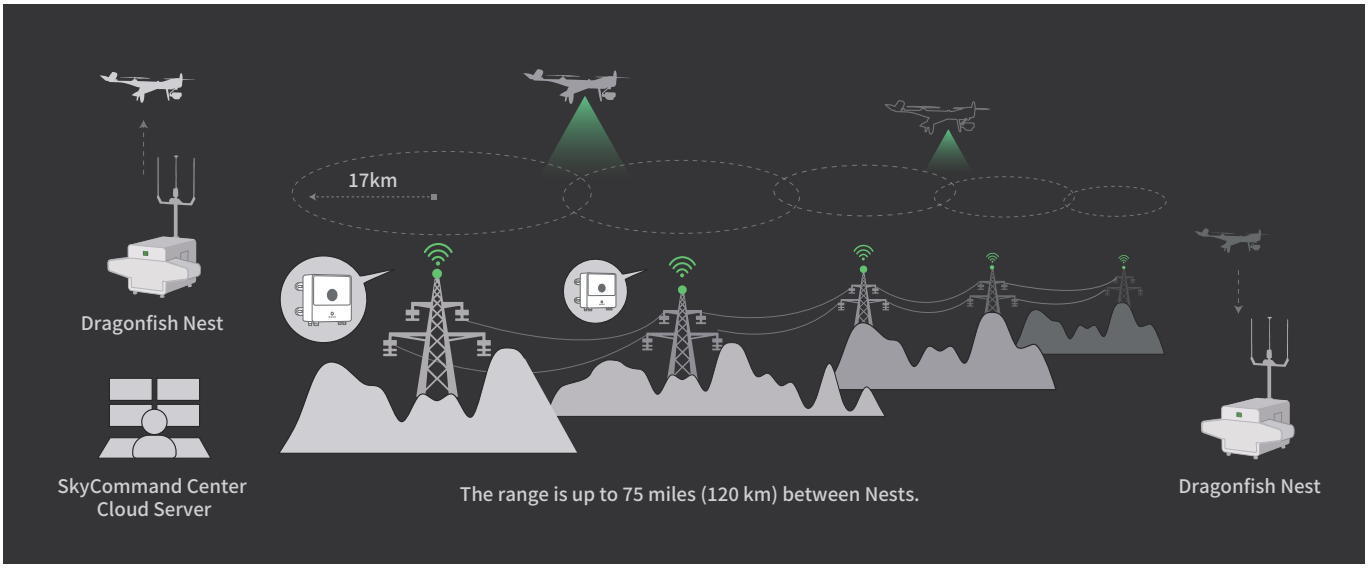
Max Pitch Rotation Angle	0°~55°
Horizontal Tracking Error	0.2°
Max Horizontal Rotation Angle	360*n (continuous rotation)
Pitch Tracking Error	0.2°
Battery Type	Lithium-ion
Battery Capacity	6550 mAh
Run time	8.5h
Input Voltage	100-240V
Charging Voltage	25.2V
Charging Power	151.2W
Charging Time	90 Mins
Compatibility	Dragonfish Series

Dragonfish Repeater

The Hands-off Solution For Remote Operations

The Dragonfish Repeater System is a network of directional antennas, omnidirectional antennas, repeater base stations, 4G communication modules, and solar power supplies to provide 24/7, offgrid, low maintenance, ultra-long-distance flight command and communications for Autel Dragonfish series aircraft. The Dragonfish Repeater System, once set up, will improve the connectivity, management, and control of Dragonfish aircraft with a site coverage of up to 347 mi^2 per module when used in conjunction with the Autel Dragonfish Nest.

- Self-Organizing Mesh Network
- Low Maintenance
- All Weather Performance
- Easy Range Extending Capabilities
- Ultra-stable HD Image Transmission
- Long-lasting Battery
- 4G Remote Monitoring



Powerful Self-Organizing Mesh Network Capability

A network of multiple Nests and Repeaters gives the Dragonfish full communication within the coverage area and the ability to land at multiple charging points.

Low Maintenance

The wireless setup paired with built-in batteries and solar panels allows users to set up once and forget.

*Measured in sand and wind-free environments with moderate temperature conditions. Maintenance intervals may vary based on environmental factors.

Ultra-stable HD Image Transmission

Autel Repeater is specially designed to operate in areas with high electromagnetic interference.1080P 30FPS transmission comes standard, with latency as low as of 210ms*.

*Each repeater adds 10ms latency. 200ms is the latency of ground station.

Easy Range Extending Capabilities

With a range of up to 10.6 miles between base stations, daisy chain additional repeaters to further extend coverage.

Remote 4G Monitoring

Built-in 4G module supports real-time monitoring and remote wake-up and control of the device*.

*4G and performance availability varies.

Long-Lasting Battery

The 100Wh high capacity battery can standby for up to 30 days without solar panels.

Specifications

Dimension (in)	11.42(L)*9.33(W)*3.54(H)
Weight (lbs)	6.61
Working Temperature	-4°F - 140°F
IP Rating	IP55
Power Consumption	8W
Communication Method	Support 4G Network

Power Supply	11.07V
Battery Type	Lithium-ion battery
Capacity	9539 mAh
Power Mode	External DC Power Supply Solar Power Supply

EVO Nest

Simplify Remote Operations

Reliable, durable, and transportable, EVO Nest is a base for automatic take off, landing, charging, and mission planning for the EVO Max Series. The Nest is designed for all-weather operation and uses a single-piece protective drum with fewer moving parts to simplify maintenance. The Nest fits in the bed of a standard pickup truck and is light enough for 2 people to carry. Paired with the Autel SkyCommand Center for centralized drone management, the Nest is easy to set up, maintain, and operate.

-22°F～131°F

Easy To Maintain

25 Mins Fast Charging

IP55

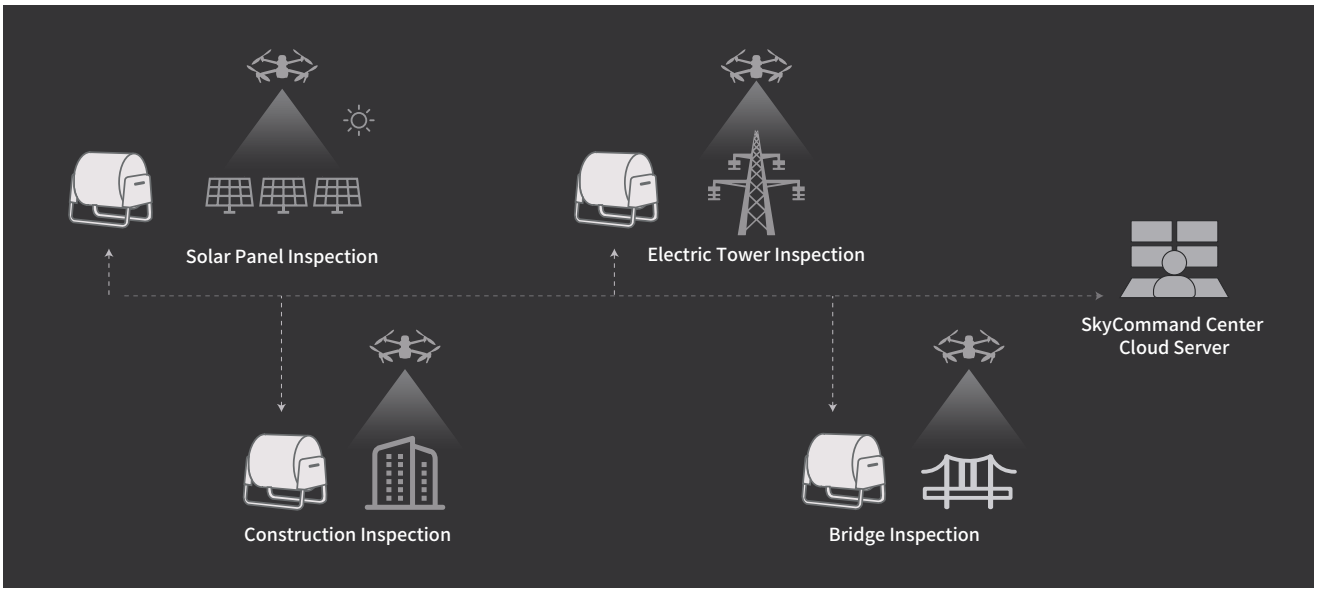
Specifications

Size	36.77*25.24*30.51 inches (hatch closed) 36.77*25.24*21.57 inches (hatch open)
Weight	132 lbs
Protective Level	IP55
Operating Temperature	-22°F～131°F
Operating Humidity	95±3% (68°F～86°F)
Max Operating Altitude	6000m
Hatch Endurance	≥50000 Times

Max Power	1.2 kW
Standby Power	10W
Operating Voltage	AC 110V / 220V
Max Charge Current	16A
Drone Charge Duration	10% ~ 90% 25min
Model	EVO Max series

Remote Operations System

The Autel Remote Operations System consists of the EVO Nest, UAV, and the SkyCommand Center to provide a full end-to-end solution for remote task management.



Transportable & Easy Setup

The Nest weighs 155lbs, has a footprint of less than 1 yd^2, and can be set up by a team of 2 and used in substations, industrial parks, and rooftops.

Auto Piloting

The multi-rotor Nest automates scheduled takeoff, precision landing, and fast charge.

Unbound Mission Delivery

Define the path, waypoint, angle, direction, time, and frequency for your missions through wired/wireless/-mobile networks.

Information Management

The Nest uploads flight and mission data to SkyCommand cloud for easy access, storage, and management.

Custom Solutions

Standard APIs can be opened to develop your own functions.

Encryption

The Nest supports AES 256-encrypted image transmission and complies with ISO 27001.

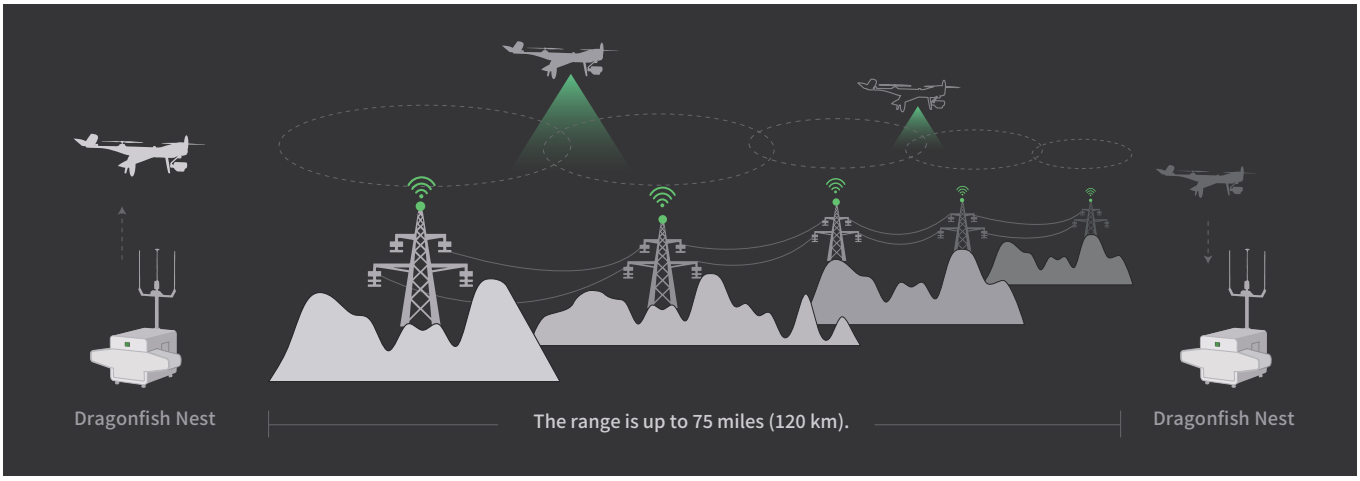
Autel Dragonfish Nest

Cover The Frontier

The Autel Dragonfish Nest is the world's first automated eVTOL support system. With a range of up to 75 miles between units, the Dragonfish Nest combines the high performance of the Dragonfish aircraft with autonomous takeoff, landing, charging, and flight missions. The Dragonfish Nest is perfect for long-range corridor inspections and large area coverage.

- Weatherproof
- Auto Takeoff, Landing, And Charging
- Intelligent Data Storage And Processing
- Backup Power Supply
- Pallet-sized For Standardized Transport

Powerline Inspection



Key Features

The Dragonfish ecosystem provides the only long-range, tilt-wing VTOL solution with autonomous capabilities.

Cover entire pit mines, oil and gas pipelines, and powerlines across multiple towns, cities, or states.

The Dragonfish's 75-mile range requires fewer docks to be built and maintained.

The Dragonfish can fly faster and farther than traditional multi-rotor UAS.

The Dragonfish conducts aerial surveys and inspections much faster than traditional multi-rotor systems.

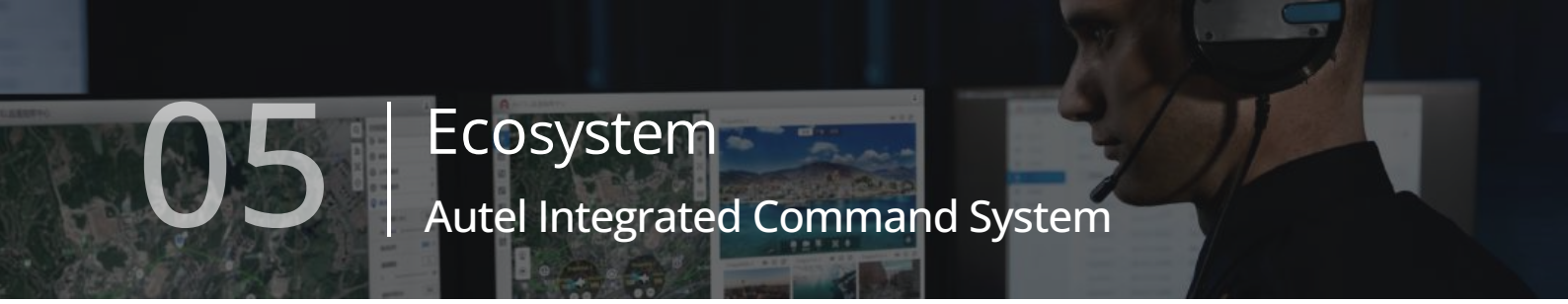
Solution Advantages

- Automatic Flight And Recharging
- Backup Power Supply
- Temperature Control
- Aircraft Management
- Environment Monitoring
- Real-Time Monitoring

Specifications

Dimensions (L*W*H)	Closed (incl. Antenna): 70.87*104.33*111.02 inches Opened (incl. Antenna): 183.86*104.33*111.02 inches
Charging Type	Battery replacement of robotic arms
Battery Quantity	6 pcs
IP Rating	IP54, rainproof, corrosion resistant
Monitor System	Weather monitoring system Video surveillance system Take-off and landing positioning system

Communication	Ethernet, optical fiber (customizable), 4G, 5G (customizable)
Operating Frequency	Standard≤200W; Peak 2200W
Weight	1279 lbs
Surge Protection	40KA
Compatibility	Autel Dragonfish Lite Autel Dragonfish Standard



05 Ecosystem

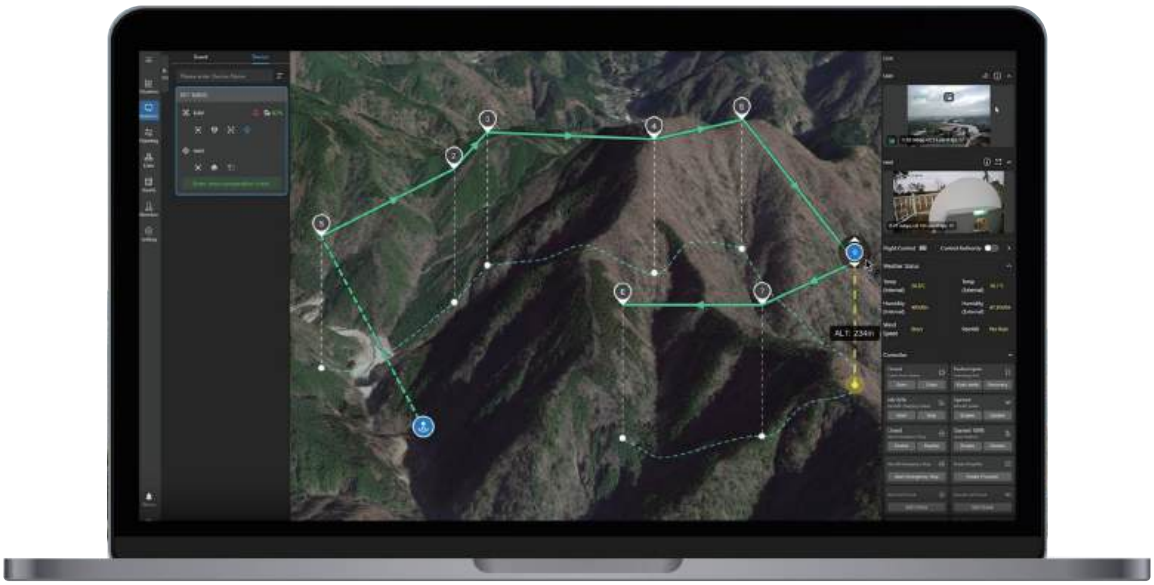
Autel Integrated Command System

Autel Integrated Command System

Air-Ground Integration, Full-Spectrum Control

Autel Integrated Command System is a comprehensive UAV management and control cloud service platform, featuring a wide range of functions with an easy-to-use interface. It offers capabilities such as situational awareness, AI target recognition and positioning, flight route planning, live streaming, and remote control. This system enables back-end personnel to remotely manage and visualize front-line equipment, while flight data is securely stored in the cloud for later retrieval, use, and analysis. The Autel Integrated Command System supports multi-model, multi-terminal collaborative operations, breaking down information silos and enhancing team decision-making and execution efficiency. It empowers applications in security, road management, energy inspection, emergency management, and more.

- Real-Time Situational Awareness
- AI Target Recognition and Positioning
- Intelligent Flight Route Planning
- Monitoring and Early Warning
- Private Deployment
- Data Security
- Information Sharing
- Open Platform



AI Event Alert

Supports AI-based alerts for abnormal target events and aircraft countermeasure detection, issuing real-time warnings on the Autel Integrated Command System or third-party platforms, effectively mitigating potential risks.

AI Target Recognition and Positioning

Through intelligent AI algorithms and autonomous learning systems, the platform enables the aircraft to quickly and accurately recognize and locate 64 target types, including people, vehicles, ships, aircraft, flames, and smoke, in complex environments, with real-time target tracking.

Intelligent Flight Route Design

Supports controlling aircraft to execute various mission modes, including waypoint routes, area coverage, and complex path planning, such as point-of-interest photography, area coverage, and advanced route planning. It also allows for flexible flight action settings within mission routes, providing comprehensive flight route planning and the automatic execution of intelligent, efficient missions to adapt to diverse scenario requirements.

Path Optimization and Obstacle Avoidance

Supports configuring various mission strategies and flight parameters, such as AI defense setup and scheduled repeats. It also allows for the customization of global obstacle avoidance, enabling the aircraft to automatically analyze the flight environment and generate safe, reliable flight paths, ensuring secure mission execution.

Multi-Terminal Collaboration

Supports multi-terminal adaptation, including PC, mobile devices, and remote controllers, enabling real-time sharing and collaborative operations. This breaks down information silos and creates an intelligent, efficient, and convenient air-ground integrated operation model.

One-Click Live Streaming Share

By scanning a QR code or opening a link on a mobile device, the aircraft's live feed can be quickly shared to the phone screen, allowing full control and visibility of the operational site.

Private Deployment

Supports private deployment, allowing integration with the user's own platform or terminals, giving full control over data within an internal network environment, effectively protecting information security and privacy.

SaaS Public Cloud

Under the ISO/IEC 27001 security certification, user data is stored on Amazon Cloud servers or other cloud servers, establishing a stable, reliable, and secure cloud service environment.

Autel Integrated Command System Workflow

01

Mission Planning

Using the Autel Integrated Command System platform, users can easily plan aircraft missions, including intelligent flight route planning, mission area setting, and flight parameter adjustments. The platform supports the detailed deployment of complex missions, ensuring coverage of the designated area.

02

Flight Execution

The aircraft executes the mission according to the preset plan, with real-time dynamic feedback functionality, transmitting equipment status, mission progress, and environmental situational data to the platform.

03

Data Collection

Through HD video streaming and high-precision mission imagery feedback, the platform collects real-time on-site data and provides 2D and 3D map displays to assist with control and monitoring.

04

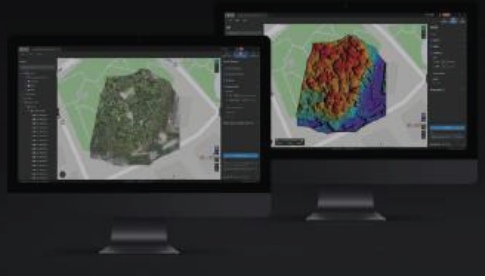
Intelligent Analysis

The Autel Integrated Command System utilizes AI technology for target recognition and positioning, providing intelligent situational awareness and decision support. It generates an event list to help identify defects and optimize mission outcomes.

05

Collaboration and Management

The platform supports team collaboration and real-time monitoring and early warning, ensuring mission execution is safe and reliable. Data supports private deployment, ensuring information security.



Autel Mapper

Reach New Frontiers

3D Reconstruction | 2D Reconstruction | Aerial Triangulation | Real-time 2D

Professional, efficient, and accessible mapping. Autel Mapper is a 2D and 3D reconstruction software with cloud or local processing, utilizing deep learning for highly accurate results.

Swift and Accurate

Autel's AI deep-learning algorithms make Autel Mapper one of the quickest map processing software in the industry, providing highly accurate 2D and 3D reconstruction, even for small objects - for unbeatable models and maps.

3D Reconstruction: Autel Mapper combines traditional and deep learning algorithms to greatly improve the completeness of 3D models. Reconstruction quality can be selected from three options: high, medium, and low. It can reconstruct small objects completely and meet the needs of various industries.

2D Reconstruction: Autel's deep learning technology enables autonomous adaptation of AI algorithms in different scenarios, meeting the 1:500 precision requirement in the surveying and mapping industry without GCPs.

Aerial Triangulation: Autel Mapper supports both roll shutter cameras and global shutter cameras, and its intelligent block processing of aerial triangulation can handle large data volumes. The advanced matching algorithm can effectively solve the data processing of different heights and resolutions.

Real-time 2D: During flight, the remote controller streams real-time images to Autel Mapper for real-time 2D stitching. Advanced image processing algorithms are used to generate high-precision 2D orthophoto images in real time, providing the on-site operators with a basis for adjusting the workflow in a timely manner.

Quick Stitching

Batch import images taken by Autel drones, quickly generate 2D maps and renderings using advanced image ortho-rectification algorithms and fast stitching algorithms.

06

Solutions

Security

Scalable Security And Premise Management

Anti-Smuggling, Border Watch

Inspection

Transmission Line Inspection

Transmission Poles And Towers Inspection

Substation Inspection

Oil Rig / Refinery Inspection

Surveying And Mapping

Spatial Planning

Engineering, Surveying And Construction

01 Scalable Security And Premise Management

Public security meets innovation, facilitating a digital and intelligent transformation in management

Overview

Send drones 24/7 to regularly inspect areas with high rates of public safety incidents and key locations where people gather. Quickly gain an understanding of the situation on the ground through the command center, solving issues of high security pressure, low patrol efficiency, and difficulty in obtaining evidence. Ensure that personnel on-site and the command center information are in sync, reducing the cost of front-to-back communication. Facilitate the rapid collection of evidence for safety incidents and promote the digital and intelligent transformation of security management.

Pain Points

High Security Pressure

Important activities and large-scale events have a great impact, risk factors are often highly concealed, and security plans can struggle to cover every base.

Low Patrol Efficiency

Fixed cameras and manual patrols have problems such as unclear, incomplete, invisible, and low efficiency, and it is often near-impossible to remove all blind spots.

Unified Command Trouble

There are many public security emergencies and complex scenarios, and it is difficult for law enforcement officers to synchronize information, command and cooperate, and often are at risk.

Business Value

High-definition Aerial Images: 12 million pixels wide-angle field of view can support large-scale monitoring of aircraft hovering in the air. 50 times visible light optical zoom, 1280×1024 thermal imaging, three-axis stabilized gimbal, flexible viewing angles, stable imaging, accurate grasp of any gathering and status of on-site personnel and the event generally. Use of spotlights for auxiliary lighting at night.

3D Panoramic Automatic Patrol: Record flight trajectories, use Autel Mapper to generate routes based on 3D real scene modeling, realize automatic, high-frequency, all-weather air patrol of urban environments including buildings, and make up for dead spots in monitoring. One drone can typically replace the manpower of three police officers and one police car, integrating both the air and ground into one unit, easily control a situation.

Unified Remote Control Command: AI can lock and dynamically track the activities of people and vehicles, can mount speakers at high altitudes, make mounted spotlights to illuminate emergencies at night, real-time image transmission, Information share with on-the-ground forces, contactless communication, and guidance for evacuation of masses. Key areas can be monitored by hovering, integrated easily into police command and dispatch system, on-site/rear video intercom, text dialogue, and ultimately unified coordination.

Recommended Autel Products

Solutions 1	Dragonfish Series + Autel Voyager + Autel SkyCommand Center
Solutions 2	EVO Max 4T + + Autel SkyCommand Center
Solutions 3	EVO II Dual 640T Enterprise V3 + Autel SkyCommand Center

02 Anti-Smuggling, Border Watch

Eyes in the sky 24/7 for highly efficient monitoring of borders

Overview

The United States stands as one of the largest countries in terms of coastal and border with defense demands: over 95,000 coastal miles alone. Whether coastal or on the ground at borders, ongoing prevention and control of smuggling plays an important part of governance, national security and long-term development. However, as long-term and high-risk anti-smuggling activities continue on, the process of finding targets, collecting evidence and logging can have challenges. In order to effectively combat smuggling, a combination of UAVs and tracking antennas can be use, allowing for highly mobile, efficient law enforcement. UAVs can be paired with automated nests for 24-hour autonomous inspections on routes with high smuggling rates. An extended benefit of this solution is the ability to utilize a full command center, allowing law enforcement personnel to analyze, view, and synchronize all aspects of ongoing operations efficiently. Ultimately, applying these solutions significantly increases the efficiency of patrolling, while also offering increased safety for personnel, making it possible to capture evidence via eyes in the sky.

Pain Points

Lengthy Patrol Routes

When borders get long, are obscured by jungle or even have issues with wilderness, border watch becomes increasingly complex. Blind spots of fixed observation are also significant, particularly at night. In some cases, patrol operations can take several days, with patchy monitoring and coverage.

High Risk To Law Enforcement Personnel

Whether risk from operating and cracking down on suspects or from the dangerous terrain borders often sit upon, officers who spend time on patrol are exposed to dangerous situations regularly.

Difficulties In Obtaining Evidence

Smuggling activities are mobile and covert. Obtaining evidence real-time during a developing situation with enough time to act is difficult for border personnel.

Business Value

Daily Autonomous Patrols, Stealth, Highly Flexible: Taking out the skies, drones can provide quiet and large-scale cruising and monitoring of target areas. Visible light/night vision high-definition images can be shared with ease.- Full 3D route planning and autonomous flying, intelligent identification and comparison of changes in border routes over time.

Non-contact Investigations, Analysis: Accurate positioning, automatic circling of targets, 1.2km laser range-finder to guide investigation, infrared/night vision tracking, heavily reducing risk of law enforcement contact.

HD Forensics, Remote Command Ready: 50x optical zoom and 1280×1024 infrared thermal imaging high-definition images, effectively identifying camouflage, penetrating occlusion, and quickly obtaining evidence.

Recommended Autel Products

Solutions 1	Dragonfish Series + Autel Voyager + Autel Smart Antenna Transmission(ASAT) + Autel SkyCommand Center
Solutions 2	Dragonfish Series + Autel Voyager + Autel SkyCommand Center + Dragonfish Nest

06 Solutions

Inspection

01 Transmission Line Inspection

Integration of inspection, analysis and action, real-time perception of the health status of transmission lines

Overview

Carry out intelligent inspection of overhead lines through utilization of fixed-wing UAVs, take high-definition aerial photos of line passages, surrounding environments, intersections along lines, construction operations, etc. This process is especially important for key power supply lines, old lines, identifying defects and external lines. Lines that break through high-risk areas can be supported via a normal inspection schedule by drones, easily identifying environmental health of transmission line channels in real time, and effectively promote the digital and intelligent transformation of power grid inspections.

Pain Points

Management Troubles

Continuous increase of inspection tasks leads to manpower shortage, inspection paths easily disrupted and changed.

Low Inspection Efficiency

3D waypoint planning is complex and labor-intensive, a single inspection takes a long time, often leading to a large backlog of tasks.

Slow Response To Defects

Abnormal situations cannot be fed back in real time, situation descriptions lack standards, and ineffective communication leads to ultimately slow responses to repairing defects.

Large Environmental Impact

Weather and environments are naturally complex, fight platforms need to be able to maintain stable and efficient operations in various adverse environments.

Business Value

Smart Route Planning: Support remote real-time import of transmission channel kml files through the remote control or Autel SkyCommand Center, and use the set of route reference points to quickly generate route planning.

High-efficiency Inspections: Based on the self-developed Autonomy technology, the flight platform can realize autonomous flight along the route, without manual setting of 3D waypoint planning; the flight time with load is up to 158min, the flight speed is up to 108km/h, and the longest inspection of a single sortie is 60km, and it can fly at night, in rain and snow Stable operation under adverse natural conditions such as fog and haze.

Autonomous Inspection, A New Generation: Equipped with Dragonfish Nests, Autel UAV lead the industry by being completely remotely operated, and autonomous inspection can be realized without professional pilots. By installing Autel repeaters, there is no fear of signal blocking by mountains a smooth, real-time control of an operation.

Automatic Inspection Reports: After an inspection is completed, the Autel SkyCommand Center will automatically generate a complete inspection report, including inspection time, inspection line double number, route coverage section, listing abnormal intervals, abnormal descriptions and corresponding images, and assist in judging the status of lines.

Recommended Autel Products

Solutions 1	Dragonfish Series + Autel Smart Antenna Transmission(ASAT) + Autel Mapper + Autel SkyCommand Center
Solutions 2	Dragonfish Series + Dragonfish NEST + Dragonfish Repeater + Autel SkyCommand Center

02 Transmission Poles And Towers Inspection

One-click panorama, innovating data visualization, inspection and management

Overview

Tower equipment is typically extremely complex, with a high amount of environmental factors to consider when inspecting. Multi-rotor UAV can be used to carry out detailed inspections, and the complex and changeable route trajectory is recorded through Autel's teaching algorithm, with the details of angles and time stamps memorized and saved for future use. Accurate re-shooting, importing 360° panoramas into GIS system for visual management, AI research and judgment, timely alarms and response to tower structural defects and temperature abnormalities, generating abnormal trend analysis reports, all combine to realize a multi-dimensional, independent and highly intelligent inspection routine.

Pain Points

High Human Cost

Manual inspections take a long time to commute, tower climbing is inefficient and has high safety risks, and the frequency and accuracy often fail to meet quality standards of inspections.

Complex Flight Environment

The environment around the tower equipment is complex, with many obstacles, insufficient light, and strong signal interference.

Lacking Consistency

The same point data does not have the ability to repeat the comparison of information collected each time, and there is a problem of repeated or missing shots, which cannot be processed uniformly through GIS information.

Difficult Post-Processing

Lack of systematic and visual management models and tools, and high labor processing costs.

Business Value

Smart Task Recording: Record the flight trajectory of the UAV through a teaching method to generate a three-dimensional route, realize autonomous inspection by one-key flight, record once, and reuse for a long time, effectively solving the problem of route data acquisition in a complex environment without models.

Accurate Reshoots: The on-board RTK module realizes centimeter-level flight deviation correction, and AI support can automatically correct the shooting angle of the gimbal, ensuring that each point is accurately re-shot at the same coordinates and angles, improving and simplifying the convergence of sample data.

One-click Panorama, GIS Application Support: Perform "One-click Panorama" shooting above the tower to obtain 360° surrounding environment samples, and then import the tower and panoramic photos into the GIS system to build a database for visual planning and management.

Dual-light AI Analysis: Equipped with a three-axis stabilized gimbal, equipped with a high-definition visible light + 640x512 pixel thermal imaging dual-light lens, the image is sent back to the Autel SkyCommand Center, with AI quickly able to identify structural defects and temperature abnormalities of a tower.

Automatic Inspection Reports: After an inspection is completed, Autel SkyCommand Center will automatically generate a complete inspection report, including the inspection time, the list of towers covered by the route, the list of abnormal towers, abnormal descriptions and corresponding images, and the number of abnormal towers and abnormal trend analysis by cycle.

Recommended Autel Products

Solutions 1	EVO II Dual 640T RTK V3 + EVO Nest + Autel SkyCommand Center
Solutions 2	EVO Max 4T + Autel Enterprise + Autel Mapper + EVO Nest + Autel SkyCommand Center

03 Substation Inspection

AI situational awareness drives an intelligent transformation of power substations

Overview

Considering high equipment density, complex spatial arrangements, and many possible faulty modules in any substation, multi-rotor UAVs can be used to construct a 2D map and 3D model of a substation with high precision, and the omnidirectional obstacle avoidance technology is applied to conduct refined 3D exploration, quickly identifying and locating faults. Through realizing three-dimensional inspections, unmanned substations can deploy Autel nests, remotely dispatching and completing tasks through the SkyCommand Center, and performing real-time detection and situation awareness to identify and solve problems before they become larger. Easily view equipment appearance, oil level, and temperature, driving an intelligent transformation of substation inspection and management, not to mention future fault research and judgement, and defect elimination tracking.

Pain Points

Low Depth

Traditional inspections are limited by distance and camera clarity, and have weak situational awareness of equipment defects, requiring a higher inspection depth.

Flying Difficulties

There are many intervals in the station, high equipment density, complex spatial arrangement, and many obstacles, making it difficult for drones to fly autonomously.

Unmanned Substation Inspection

Unmanned substations are usually located in remote areas, and personnel are regularly sent to the site for inspections, and commuting is time-consuming and laborious.

Lack Of Visual Management

Existing inspections are usually marked with tables and texts, and inspection route planning and closed-loop tracking for defect elimination are not intuitive enough.

Business Value

Intelligent Modeling And Classification: Using professional modeling software, Autel Mapper can carry out high-precision reconstruction of a 2D/3D model of a substation, performing partition display and batch management based on voltage level, geographical location, and various other operations.

All-round Autonomous, Three-Dimensional Inspection: Based on Autel's self-developed autonomous technology, the flying platform independently conducts 3D exploration based on omnidirectional obstacle avoidance capabilities, and can quickly discover and locate faults at various levels in the substation, realizing three-dimensional inspection.

Remote Inspection Of Unmanned Stations: Through Autel SkyCommand Center, inspection tasks can be issued remotely to EVO Nests, with drones able to remotely be dispatched and take off and land on their own, recharging or replacing batteries, performing flight tasks, automating and further innovating substation inspections.

Dual-light AI Analysis: Equipped with a three-axis stabilized gimbal, equipped with high-definition visible light and 640x512 pixel thermal imaging dual-light lens, the image is sent back to Autel SkyCommand Center, and AI then identifies the appearance, oil level, oil temperature, and respirator of the primary and secondary equipment in the substation, as well as general status and any abnormal issues.

Automatic Inspection Reports: After the inspection is completed, Autel SkyCommand Center will automatically generate a complete in-station inspection report, including inspection time, inspection route, covered equipment, and equipment parameter values, etc., listing abnormal equipment, descriptions, and corresponding images.

Recommended Autel Products

Solutions 1	EVO II Dual 640T RTK V3 + EVO Nest + Autel SkyCommand Center
Solutions 2	EVO Max 4T + Autel Mapper + EVO Nest + Autel SkyCommand Center

04 Oil Rig / Refinery Inspection

Eyes in the distance, accelerating and supporting oil field production

Overview

Multi-rotor drones can carry multiple loads to carry out intelligent inspection operations on oil fields. Through a series of technologies such as visible light photography, infrared temperature measurement, and gas detection, it is possible to quickly grasp the overall operation of any station, identify and eliminate hidden dangers of leakage rapidly, and effectively improve the efficiency of oil field inspections, all while reducing labor costs, improving management level, and empowering the digitization of energy, construction and production industries.

Pain Points

Complex Inspection Environment

The oil field environment is complex, pumping units are mostly distributed in canyons, high and low terrain, and there are many night patrol scenes, with unique weather, light and other problems bringing great challenges to flight.

Scattered Oil Well Distribution

The distribution of oil wells is irregular, and the number of oil wells can range from tens to hundreds of miles. Inspections in low-density areas have high requirements for image transmission, and the sampling results are often mixed quality.

Unmanned Oil Wells, Manual Operation Difficulties

With the improvement of the intelligence level of oil fields, more and more oil wells have adopted the unmanned mode, and the machine patrol based on manual operation cannot meet the needs of new scenarios.

Business Value

Strong Environmental Adaptability: Easily adaptable, able to operate in environments of -4°F to 122°F, take off, land and fly stably at a wind speed of up to 12m/s, with 40min ultra-long battery life, 15km ultra-long-distance high-definition image transmission, with proven success in canyons and undulating terrain, comfortably able to work normally at night and in bad weather, with strong anti-radio frequency interference capability.

Digital, Intelligent Management: Align orthographic images, one-click panorama, and intelligent archiving of photos for refined inspection of facilities, support multi-layer labeling, label pumping wells, self-flowing wells and other equipment, integrate AI and AR applications, and quickly carry out analysis of oil spills and well shutdowns, utilizing our digital platforms for efficient operations and maintenance.

Support Fully Unmanned Inspections: Reasonable site selection can be made based on the terrain of an oil field, and multi-rotor aircraft nests can be deployed in a grid manner. Each aircraft nest can cover oil wells within a radius of just over 4 miles (4.3mi). The operation is uniformly dispatched through the Command Center, and on-site maintenance is free for an extended period.

Smart Report Output: At the end of the inspection, a report is intelligently generated, including inspection time, route map, exception list, photos of abnormal points, text description, etc.

Recommended Autel Products

Solutions 1	EVO II Dual 640T Enterprise V3 + Autel Enterprise
Solutions 2	EVO II Dual 640T Enterprise V3 + Autel Enterprise + EVO Nest + Autel SkyCommand Center
Solutions 3	EVO Max 4T + Autel Enterprise + Autel Mapper + EVO Nest + Autel SkyCommand Center

01 Spatial Planning Solutions

Accurate digital recreation of environments, allowing for intuitive regional planning

Overview

As the US urban areas continue to expand, the need for efficient and accurate land and space governance is becoming increasingly important. To meet this need, multi-rotor UAVs can be used to collect high-resolution photos and generate 2D and 3D models. With a mechanical shutter, high-pixel camera, and free image control, drones can provide a comprehensive visual basis for the rational layout of urban buildings and the comprehensive deployment of engineering construction. With 83% of the population living in urban areas, and a predicted increase of up to 89% by 2050, it is inevitable that city centres will need to harness new tools and innovate the development process of cities. Drone solutions can provide governments and urban planners with new tools and ways to develop cities, including managing areas safely and sustainably, conducting land surveys, mapping and more.

Pain Points

Limited Information Sources

Traditional map displays are not intuitive and complex GIS analysis cannot be completed, resulting in incomplete planning.

Heavy Workload

There are many types of infrastructure such as water conservancy, bridges, and highways, with construction time often spanning over a long period. On-site measurement can become difficult when project workloads are heavy, and spatial data requires time, which can prove to be an issue.

Slow Turnaround

Traditional topographic maps take a long time to draw and have low resolution, making it difficult to intuitively grasp key information such as topography, landforms, and land attachments.

Business Value

Scalable, Rich Routing Functions: All aircraft can achieve image control-free accuracy, satisfying 2D photography, oblique photography, elevation route planning, and route simulation functions, and support offline map planning, which effectively improves acquisition efficiency, flight safety and mold release quality.

High-Precision Dimension Measurements: The measurement of position point, distance, area and volume utilizing 2D and 3D models, with high precision and small errors.

Highly Efficient Modeling: Autel Mapper can quickly generate a high-precision 2D and 3D model with coordinates from collected photos, which can then easily be combined with the BIM model to visually display plans.

Recommended Autel Products

Solutions 1	EVO Max/EVO II V3 series + Autel Smart Controller V3 + Autel Enterprise + Autel Mapper
Solutions 2	EVO Max/EVO II V3 series + Autel Mapper + EVO Nest+ Autel SkyCommand Center
Solutions 3	Dragonfish Standard + Autel Mapper

02 Engineering, Surveying And Construction

Elevate and strengthen construction supervision and planning, and measure in real-time

Overview

As we enter 2023, the US construction industry is expected to see a continued boom, with demand backed by urban development and a push for growth. Quality control, therefore, has become a top priority for the entire industry. Drones equipped with visible light and thermal imaging can be used throughout entire project cycles, from survey and design in the early stages, to construction management in the middle stages, and finally to inspection and maintenance after delivery of a project. Utilizing the mobility and efficiency of drones to provide all-round supervision benefits engineers through increased awareness and service capabilities, helping them stay competitive in the international market and ensuring engineering industry continues to innovate and push forward.

Pain Points

Limited Results

Traditional surveying and mapping results are limited to line drawings, and cannot provide visual models for acceptance or results display.

Data Acquisition Challenges

In urban locations specifically with buildings and constant obstructions, it is near impossible to provide a safe and controllable flight path to collect building facade data, and it is difficult to do defect analysis on materials such as glass.

Lacking Supervision

With particularly lengthy projects, construction often lacks effective monitoring methods. Conventional video also has some limitations in managing large amounts of data, making it difficult to obtain and retain effective key information on a project or its status.

Difficult Earthwork Measurements

During construction, earthwork is notoriously difficult to calculate, requiring large volumes of time and money.

Business Value

Intelligent Route Planning: Aircraft can be controlled flexibly, and can provide route simulation functions and facade route planning for single and multiple three-dimensional buildings, effectively improving collection efficiency, flight safety and mold release quality.

Active Calculation And Analysis: The dual-light camera can collect visible light and infrared photos at the same time, providing infrared data analysis basis for project management and construction processes. Infrared results can be used for defect analysis, and visible light results can be used for engineering supervision and earthwork calculation.

Easy Cloud Service Sharing: Project progress, project supervision photos, and project acceptance results can all be shared by multiple terminals and users based on cloud services.

Recommended Autel Products

Solutions 1	EVO Max/EVO II V3 series + Autel Smart Controller V3 + Autel Enterprise + Autel Mapper
Solutions 2	EVO Max/EVO II V3 series + Autel Mapper + EVO Nest + Autel SkyCommand Center

07

Case Studies

China Southern Power Grid - Power Tower Inspection

State Grid, Anhui - Powerline Inspection

Golden Rooster Award - Security Patrol

Emergency Management Bureau - Forest Inspection

Shanghai Harbour Patrol - Law Enforcement

Dongguan Coast Defence - Anti-smuggling

Lee County Sheriff - Public Safety

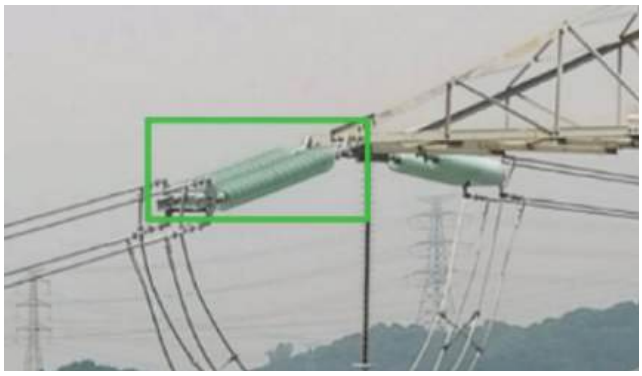
Huntsville Police Dept. - Public Safety

07 Case Studies

Power Inspection

China Southern Power Grid - Power Tower Inspection

With the excellent performance of the EVO II Dual 640T RTK, it has been widely used in the Guangdong Power Grid. Meanwhile, Autel is jointly developing a small multi-rotor inspection drone with power grid related units.



EVO II Series Highlights

Precise Positioning with RTK, 40 Mins Flight Time, Autonomous Path Planing, 8K Ultra-HD, 5.5 miles (12km) Transmission Range, All-way Obstacle Avoidance.

State Grid, Anhui - Powerline Inspection

According to Xinhua News Agency, Anhui Power Grid performed the Dragonfish Standard fixed-wing inspection drone to take off from the Nest more than 200 kilometers away and carried out "West-East Electricity Transmission Project" ultra-high voltage intensive lines autonomous inspection in June 2022.

Dragonfish Standard Highlights

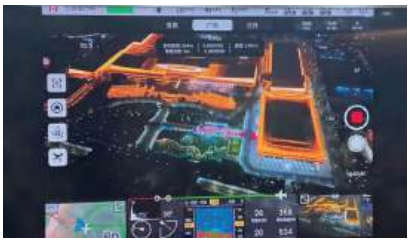
18.6 miles (30km) Transmission Range increase the manual inspection efficiency by more than 95%; Ultra HD visible light and thermal radiometric combines with AI to timely detect the powerline faults, dangerous construction and fire hazards.

07 Case Studies

Security

Golden Rooster Award - Security Patrol

The Dragonfish Standard was adopted to conduct security patrol by the Xiamen Police for the Golden Rooster Award Closing Ceremony, which ensured the smooth and safe of the whole process with its realtime video and image feed in December 2021.



Dragonfish Standard Highlights

3 Mins quick assembly and 126 Mins flight time enables the fast response to emergencies at any time and long time uninterrupted patrol; 4K 50x Highest optical zoom and thermal imaging detects the suspect and fire hazards at any time, works with SkyCommand Center to realize the remote command and deployment.

Emergency Management Bureau - Forest Inspection

Dapeng is the first district that applies the Dragonfish Standard into daily monitoring and inspection. It enables effective emergency rescue and forest inspection with 20 minutes flight district coverage by virtue of its intelligent flight control, gimbal, image analysis and other technologies with the combination of long-time flight, infrared detection and HD image transmission.



Dragonfish Standard Highlights

Lightweight design and 126 Mins flight time reduce the complexity of forest resource survey, logging planning and inspection. Infrared thermal imaging enables the autonomous patrol of key areas, real-time video feed ensures timely detection of temperature anomalies and fire hazards, works with SkyCommand Center to facilitate remote command and mobilization.

07 Case Studies

Security

Shanghai Harbour Patrol - Law Enforcement

The Dragonfish Standard inspection path planned through flight control software to conduct autonomous inspection, the image identification enables the smart tracking and evidence collection of the suspicious ships, then helps the Police to figure out their routes and characteristics as well as formulate arrest plans based on the real-time images and video feed.



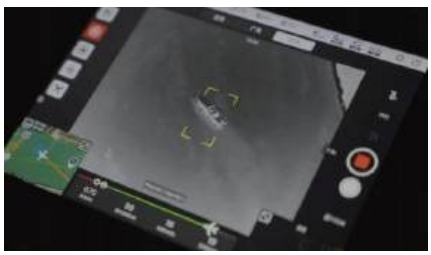
Dragonfish Standard Highlights

30km Image transmission, autonomous inspection, AI identification and tracking, 3 mins quick assembly, payloads flexibility.

Dongguan Coast Defence - Anti-smuggling

The Dragonfish combined with AI technology to perform regular patrol, routes planning can satisfy routine regulatory needs, and the flight direction can be adjusted via ground station to comprehensively inspect every detail. The real-time image feed facilitates the communication, connection and collaboration between border guards, drones and security center.





Dragonfish Standard Highlights

3 Mins quick assembly and 126 Mins flight time enables the fast response to emergencies at any time and long time uninterrupted patrol; Autonomous inspection and AI identification & tracking contributes to the suspect detection at any time, works with SkyCommand Center to realize the remote command and deployment.

Lee County Sheriff

Complement Manned Aircraft

Lee County, Florida was the first law enforcement department in the U.S. to adopt a Dragonfish drone to augment its helicopter fleet, increasing response options and providing convenient, low-cost aerial overwatch.

Products

Dragonfish Standard

Ground Station

DG-T3

Hurricane Response

The department used drones to survey damage and search for missing people in the wake of Hurricane Ian in 2022.

High-Profile Cases

The Dragonfish was used to search for Brian Laundrie during the highly publicized Gabby Petito case.

"You can't hide from this thing (Dragonfish)"
Carmine Merceno, Sheriff

About

Lee County Sheriff, Lee County, Florida

- Southeast Florida
- 1,600 sworn officers
- 700,000 residents
- Serving 6 towns

07 Case Studies

Public Safety

Huntsville Police Dept.

Critical to Mission Success

The Huntsville, Alabama Police Department carries on the Rocket City's legacy by leading the region in drone adoption. Based on their success, other departments in the region are adopting Autel drones, increasing interdepartmental operability.

Products

EVO II Series

Smart Controller

640T Thermal

Versatile Toolsets

5,000 flights in 3 years. Missions include photo-grammetry, drug interdiction, overwatch, and more.

Valued Asset

Pilots are advised to treat their drones like K-9s. Monthly trainings ensure pilots are experts with their tools. drug interdiction, overwatch, and more.

Rapid Response

Precinct-based deployment means drones can typically respond to a scene within 5 minutes. Locally-based pilots have greater familiarity with the neighborhoods they're flying in.

About

Huntsville Police Dept., Huntsville, Alabama

- Northern Alabama
- 216,000 population

- 500 sworn officers
- 26 EVOs, 29 pilots

07 Case Studies

Public Safety

Pine Pond Fire

Rapid Response

In August 2022, firefighters in Texas got support from a Dragonfish while fighting the Pine Pond Fire. It provided precise intelligence that helped commanders deploy assets faster, safer, and more efficiently.

Products

Dragonfish Standard

Ground Station

DG-L20T

Grid Coordinate Display

Exact coordinates on the camera view, allowed assets to be deployed efficiently.

Range and flight time

2+ hour flight time allowed for rapid response and full coverage of the area.

Thermal surveillance

Multispectral cameras and precise positioning allowed commanders to monitor crews on the ground and check at-risk homes.

About

Pine Pond Fire, Bastrop, Texas

- 700 acres burned
- 10 days to contain

- 150 responders, from 30 depts
- 0 deaths, 0 homes destroyed

Please contact us via the following information listed for marketing or sales cooperation. We look forward to hearing from you.

HQ

Tel: 0086-755-8654-8489
Email: marketing@autelrobotics.com
Address: 8th Floor, Block B1, Nanshan iPark, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong, 518055, China.

United States

Tel: (844) MY AUTEL or (844) 692-8835
E-mail: support@autelrobotics.com
Address : 22522 29th Dr SE, Ste 101, Bothell, WA 98021, United States

Other Regions

Asia-Pacific Sales cooperation: apac@autelrobotics.com
Europe Sales Cooperation: euro@autelrobotics.com
Middle East Sales Cooperation: mena@autelrobotics.com

www.autelrobotics.com
marketing@autelrobotics.com
@Autel Robotics
202504_v1