# AUTEL
## ROBOTICS

# Dragonfish Series

## Next-Gen Multi Mission eVTOL

The Dragonfish Series UAV is a vertical takeoff and landing (eVTOL), tiltrotor aircraft used to provide multi-sensor intelligence, surveillance, and reconnaissance (ISR) Services. The Dragonfish is ultraportable, runway independent, and assembles within 5 minutes from case to takeoff. The Dragonfish does not require any additional launch equipment or recovery equipment and can take off and land automatically or manually. Delivering up to 179 minutes of flight time, and a range of up to 45km*, or extended indefinately with repeaters the system offers class leading performace in endurance and capability. The Dragonfish features a quick release for rapid payload changes, with multiple class leading EO/MWIR sensor options. Industry leading flight control and tracking algorithms make the Dragonfish system operable by a single operator with minimal training necessary.

* Contact our sales team for more information.

| Superior Anti-Interference | Runway Independent | 5 Min Rapid Deployment | 1-2 Person Portable | Silent Flight |
|---|---|---|---|---|
| Intelligent and User-Friendly | 5-Second Self-Check | Max Flight Speed: 108 km/h | Longest Flight Time: 179 minutes | Transmission Distance: 45 km* |

## Superior Anti-Interference

In complex environments, the UAV maintains exceptional communication and video transmission performance, featuring strong anti-interference capabilities and stable, reliable transmission.

## Quick Assembly

The Dragonfish Series features tooless assembly with a 5-second rapid self-check and the ability to take off within 5 minutes.

## Smart Operations

Autel Robotics' advanced flight control technology and AI intelligence offers unparalled ease of use and precision, enables features such as intelligent tracking, tap-to-fly, AI target recognition and positioning, quick mission, offsite landing, mobile platform takeoff and landing.

## Silent Flight Operations

The Dragonfish achieves ultra-silent flight through its exceptional propulsion system and innovative noise-reduction design. Barely audible above 400 ft (120m) AGL*, the Dragonfish significantly reducing the risk of detection while ensuring operational secrecy.

## Workflow

**01**

**Easy Transportation and Takeoff**

**Easy and Secure Transportation:** IP-rated integrated transport case, sturdy and reliable, designed to be carried and transported by a single person over both short and long distances.
**5 Min case to takeoff:** Complete assembly within 5 minutes, system self-check in 5 seconds.

**02**

**Intuitive 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.

**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.

**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.

## Dragonfish Series Technical specifications

|  | Dragonfish Standard | Dragonfish Pro |
| --- | --- | --- |
| Size | 1290×2302×483 mm (excl.propellers) | 1655×2980×520 mm (excl.propellers) |
| Weight | 7.5 kg (incl. batteries, propellers, excl. gimbal) | 16.8 kg (incl. batteries, propellers, excl. gimbal) |
| Max. Takeo Weight | 9.0 kg | 19 kg |
| Max. Extra Payload Weight | 1.5 kg | 2.2 kg |
| Max. Flight Time | 106 min (@DG-L20T) | 179 min (@DG-L20T) |
| Max. Horizontal Flight Speed | 30 m/s | 30 m/s |
| Max. Wind Resistance | 12 m/s | 12 m/s |
| Service Ceiling Above Sea Level | 6000 m | 5000 m |
| Operating Temperature | -20°C ~ 50°C | -20°C ~ 50°C |
| GNSS | GPS / Galileo / BDS / GLONASS | GPS / Galileo / BDS / GLONASS |
| Supported Gimbal | DG-L20T | DG-L20T, DG-L50T |

## Payload System Technical specifications

**DG-L20T**

- 4K 20X OPTICAL ZOOM
- 12M PIXEL WIDE ANGEL CAMERA
- 640X512 INFRARED CAMERA
- LASER RANGE SENSOR

**DG-L50T**

- 4K 50X OPTICAL ZOOM
- 12M PIXEL WIDE ANGEL CAMERA
- 1280X1024 INFRARED CAMERA
- LASER RANGE SENSOR
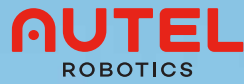
# EVO Lite Enterprise Series

## 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 |

## Lightweight and Portable

The EVO Lite Enterprise Series drones weigh only 866 grams and have folded dimensions of just 210*123*95mm, making them easy to carry in a backpack. With a simple operation, and a 40-minute endurance capability, they are ideal for efficient execution of missions by a single operator.

## AI Target Recognition and Positioning

Utilizing wide-angle or infrared lenses combined with intelligent AI algorithms and a self-learning system, the aircraft can automatically recognize and locate up to 64 different objects, including people, cars, and boats, projecting their positions on the map.

## High-Definition Video Transmission

Equipped with Autel SkyLink image transmission technology for a dual-signal, dual-reception system, the image transmission anti-interference capability improved, and the transmission distance reaches up to 12 kilometers. It supports 2.4GHz/5.2GHz/5.8GHz adaptive frequency hopping transmission, automatically selecting the best channel based on electromagnetic interference, providing strong anti-interference capability.
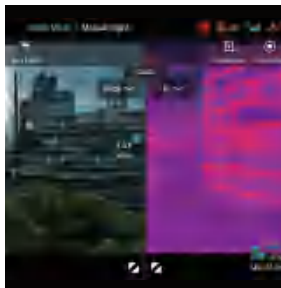
## Split-Screen Display

Visible light, infrared, or map support dual-channel simultaneous output on the screen, providing comprehensive information through comparison.

## Customizable Toolbar

Customize the menu toolbar in the app for quick access to frequently used functions, meeting personalized usage needs.
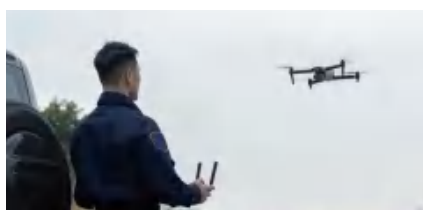
## MSDK

The open Mobile SDK provides efficient, versatile, and easy-to-use control and service interfaces, enhancing development efficiency and enabling the creation of custom solution scenarios.

## Applications

Law Enforcement

Security Patrol

Emergency Rescue

## Technical Specifications

| | EVO Lite 640T Enterprise | EVO Lite 6K Enterprise |
|---|---|---|
| Weight (including battery, gimbal camera) | 866g | |
| Dimensions | 433*516*95mm (unfolded with propellers) ; 210*123*95mm (folded without propellers) | |
| Max Flight Time | 40min | |
| Flight Speed | 18m/s | |
| Max Wind Resistance Level | Fresh breeze | |
| Operating Frequency | 2.4GHz / 5.2GHz / 5.8GHz | |
| Max Transmission Distance | 12km | |
| GNSS | GPS / BDS / GLONASS | |
| 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 | 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*3076 / 3480*2160 Maximum video resolution of 4K 30P |
| Thermal Imaging Camera | 640*512 resolution 9.1 mm focal length 16x digital zoom Temperature measurement range: -20℃ to 150℃ / 0℃ to 550℃ Temperature accuracy: ±3℃ or ±3% of reading (whichever is greater) | / |

# AUTEL
ROBOTICS

# EVO Max 4T

## Reach New Frontiers

The EVO Max 4T utilizes Autel Autonomy's autonomous flight technology, enabling global path planning, 3D scene reconstruction, autonomous obstacle avoidance, and return-to-home capabilities in complex environments. Its high-precision visual navigation system ensures stable and reliable flight in conditions of strong signal interference, signal occlusion, or weak signals. This drone introduces the industry's first A-Mesh networking technology, supporting the free networking of multiple devices for integrated air-ground network coverage. The combination of "binocular fisheye vision + millimeter-wave radar" multi-sensor fusion perception technology provides 720° all-round sensing and obstacle avoidance capabilities, allowing for all-weather operation. Equipped with the FusionLight camera 4T, it integrates a 4K 10x continuous optical zoom camera, an ultra-sensitive wide-angle camera, a thermal imaging camera, and a laser rangefinder, efficiently empowering public safety, energy inspection, emergency management, and setting a new benchmark for industry application drones.

**720°**

All-Weather
Obstacle Avoidance

Superior
Anti-Interference Capability

High-Precision Visual
Navigation

A-Mesh Self-Organizing
Network

8K 10x Optical
Zoom Camera

Hot-Swappable
Battery

15-Kilometer
HD Video Transmission

42 Minutes of Enduring
Endurance

# FusionLight Camera 4T

## Laser Rangefinder

Measuring Range: 5-1200 meters
Measurement Accuracy: ± (1 meter + D×0.15%)

* D = measurement distance

## Thermal Imaging Camera

640×512 resolution
13 mm focal length
16x digital zoom
Temperature Measurement Range:
-20°C to + 150°C / 0°C to + 550°C

## Ultra-Sensitive Wide-Angle Camera

50 million pixels
1/1.28 inch CMOS
F1.9 aperture
FOV 85°
23 mm equivalent focal length

## Zoom Camera

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



## Autonomous Flight Planning

The EVO Max 4T, equipped with Autel Autonomy's autonomous flight technology, collects environmental data in real-time to achieve global path planning, 3D scene reconstruction, autonomous obstacle avoidance, and return-to-home in mountainous, forested, and urban environments, empowering security, inspection, and surveying industries.



## High Precision Visual Navigation

Even in urban environments where satellite signals are obstructed or weak, it achieves high precision and low latency in distance and coordinate information. It utilizes SLAM visual navigation technology for high-precision indoor and outdoor navigation and stable flight.



## A-Mesh Networking

Introducing the industry-first A-Mesh networking technology, it enables free networking between drones and between drones and ground terminals, supporting various modes like "one-to-many control" and "dual control". Even across long distances, obstacles, mountains, buildings, or in no-network areas, it enables free networking within the network, collaborative operation, and breaks through the operational boundaries of conventional drones.

## ▌ Applications



| Powerline Inspection | Emergency Search and Rescue | Law Enforcement | Geographical Surveying | Firefighting Rescue |

## ▌ Specifications

| | | | | |
|---|---|---|---|---|
| Weight (including battery, gimbal camera, and propellers) | 1640g | Maximum wind resistance | 12m/s (27mph) |
| Dimensions | 562*651*147mm (unfolded with propellers)<br>318*400*147mm (unfolded without propellers)<br>257*145*131mm (folded without propeller) | Operating frequency | 900MHz / 2.4GHz / 5.2GHz / 5.8GHz |
| | | IP protection level | IP43 (*Custom service) |
| Maximum endurance time | 42 mins | Image transmission distance | 15 kilometers |
| Maximum horizontal ight speed | 23m/s | GNSS | GPS / GLONASS / Galileo / BDS |

# 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 | A-Mesh Network | 56x Dual Thermal Camera | 4K 35x Optical Zoom |
| --- | --- | --- | --- | --- |
| IP55 Rating | Hot-swappable Battery | Wire-Level Obstacle Avoidance and Pathfinding | 15 kilometers Transmission Range | Flexible Payload Expansion |

# Autel DG-L35T Gimbal

## Zoom Camera

8 MP
4K 35x optical zoom
560x hybrid zoom
Ultra-sensitive ISO supports up to
a maximum of 160,000

## Laser Rangefinder

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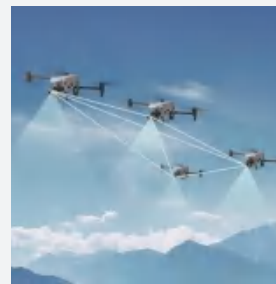*where D represents the distance from the vertical reflecting surface

## Wide Camera

48 MP
Aperture: F/2.8
DFOV: 84°
Equivalent focal length: 24mm

## 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.

### A-Mesh Networking

With integrated A-Mesh networking technology, the drone can establish networks between drones and controllers, supporting various working modes such as " single-controller multiple drones" and "master-slave dual control". Even in scenarios with long distances and obstacles, such as mountains, buildings, or areas without network, it can achieve multi-device networking, enabling drone-to-drone autonomous communication, connection, and collaboration.

### 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.
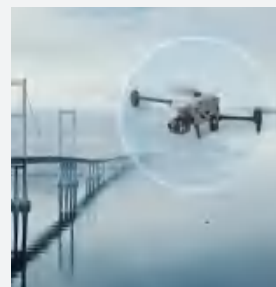
### No Blind Spots
### Ultimate Obstacle Avoidance

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.
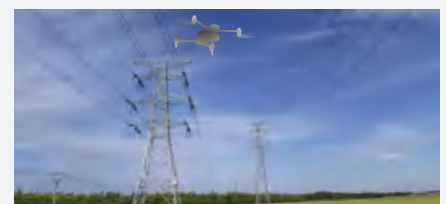
## Application

Public Safety

Search & Rescue

Inspection

## Specifications

| | |
|---|---|
| Weight (including battery, gimbal camera, and propellers) | 6340g |
| Max. Payload | 3000g |
| Dimensions | 1205*980*278mm (unfolded, incl. propellers) 780*568*278mm (unfolded, excl. propellers) 455*263*248mm (folded, excl. propellers) |
| Max Flight Time (windless) | 40mins |
| Max Horizontal Speed (windless near sea level) | 25m/s |

| | |
|---|---|
| Max Wind Resistance | 12m/s |
| Operating Frequency | 2.4GHz / 5.2GHz / 5.8GHz / 900MHz |
| IP Rating | IP55 |
| Max Transmission Distance | 15km |
| GNSS | GPS / GLONASS / BDS / Galileo |

# 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 environmen-tal 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 transpor-tation and emergency response in various fields.

Exceptional Anti-Inter-ference Capability

High-Precision Visual Navigation

A-Mesh Network

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.

### A-Mesh Networking

With integrated A-Mesh networking technology, the drone can establish networks between drones and controllers, supporting various working modes such as "single-controller multiple drones" and "master-slave dual control." Even in scenarios with long distances and obstacles, such as mountains, buildings, or areas without network, it can achieve multi-device networking, enabling drone-to-drone autonomous communication, connection, and collaboration.

### 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 60 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

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**
Efficiently Empowering Long-Distance Transportation Operations
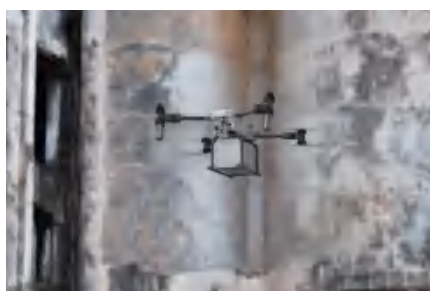
**DG-L35T Gimbal**
Providing support for long-distance and nighttime reconnaissance operations

**Ground Station**
Extending the transmission range by 90%

## Applications

**Logistics Transportation**

**Emergency Rescue**

**Public Safety**

## Specifications

| | |
|---|---|
| Weight (Battery and gimbal included) | 23kg |
| Max. Payload | 10kg |
| Dimensions | 1879*1866*584mm (incl. propellers and mount.) 1141*1120*563mm (excl. propellers) 752*328*526mm (folded, excl. mount) |
| Max Flight Time (windless) | 55mins (@1kg payload) |
| Max Horizontal Speed (windless near sea level) | 25m/s |

| | |
|---|---|
| Max Wind Resistance | 12m/s |
| Operating Frequency | 2.4GHz/5.2GHz/5.8GHz/900MHz |
| IP Rating | IP55 |
| Max Transmission Distance | 15km |
| GNSS | GPS / GLONASS / BDS / Galileo |

# AUTEL
ROBOTICS

# EVO II Enterprise V3

## Compact. Versatile. Powerful.



**9.3 Miles (15 Km) Transmission Range**

**360° Obstacle Avoidance**

**Centimeter-level Positioning with RTK**

**Modular Accessories**

**42 Mins Flight Time**

EVO II Enterprise V3 integrates a superior imaging system, an upgraded 15km image transmission (SkyLink 2.0) and additional accessories in order to meet different aerial needs including inspection, search and rescue, law enforcement, fire fighting, and more. The foldable design empowers industry users with an efficient and portable aerial work tool.

# EVO Ⅱ Dual 640T Enterprise V3

**640x512 30hz** **16x** **4x**
Thermal Camera   Digital Zoom   Lossless Zoom

**RYYB** **0.8"** **50MP**
Sensor   CMOS   Photo

## Multiple Temperature Measurement Modes

Spot Temperature Measurement, Regional Temperature Measurement, Central Temperature Measurement, Temperature Alarm, Isotherm, Image Enhancement.

# EVO Ⅱ Pro Enterprise V3

**1"** **6K** **20MP** **Moonlight** **F2.8~F11**
CMOS   Video   Photo   Algorithm 2.0   Adjustable Aperture

**4K** **Max.ISO** **16x** **3x**
HDR   44000   Digital Zoom   Lossless Zoom

## Accident Reconstruciton

EVO II Pro Enterprise V3 is excellent for rapid accident reconstrucition with built in mission planning, and is compatible with Pix4D, DroneDeploy and SkyeBrowse.

## SkyLink 2.0 Video Transmission

15KM: Fly farther with HD video transmission up to 9.3miles (15km).
QHD: Obtain critical details with QHD video within 1km.
2.4G/5.8G/900MHz: Support tri-band communication and can automatically frequency hop for maximum anti-interference capability.
*900MHz working frequency is only applicable for FCC countries.

## Quieter Acoustic Signature

Fly closer without being noticed with EVO II Enterprise V3's new propeller design. The Enterprise is inaudiable to the ear at around 190 meters high (623 ft).

## Mission Versatility

With an expanded selection of accessories at its disposal, the EVO II Enterprise V3 can evolve from a simple imaging tool to a multifunctional flight platform that can adapt to different scenarios.
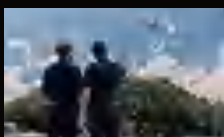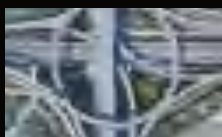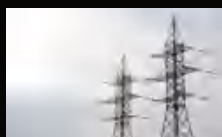
Loudspeaker

Spotlight

Strobe

RTK Module (Optional)

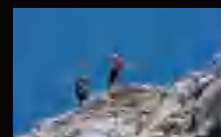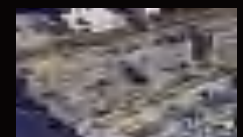## Application

Public Safety

Traffic Supervision

Power Inspection

Firefighting

Search and Rescue

Mapping

## Packing List

Aircraft (including battery, propellers and 32G SD Card), Gimbal Cover, Remote Controller (sticks included), Spare Battery*2, Spare Propellers (pair*2), Battery Charger+Power Cable, Car Charger, Multi-Charger, RC Charger, RC Charging Cable, Loudspeaker, Spotlight, Strobe, Extended Port Cover, RC Lanyard, RC Protective Case, Spare Control Sticks (pair), Protector Case, RTK Module (Optional).

# AUTEL
### ROBOTICS

# EVO Nest

## Simplify Remote Operations

**-22°F～131°F**     **Easy To Maintain**    **25 Minutes Fast Charging**    **IP55**

Reliable, durable, and transportable, EVO Nest is a base for automatic take o , landing, charging, and mission planning for the EVO 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 ts in the bed of a standard pickup truck and is light enough for 2 people to carry. Paired with the Autel Integrated Command System for centralized drone management, the Nest is easy to set up, maintain, and operate.

www.autelrobotics.com

# Complete Remote Operations System

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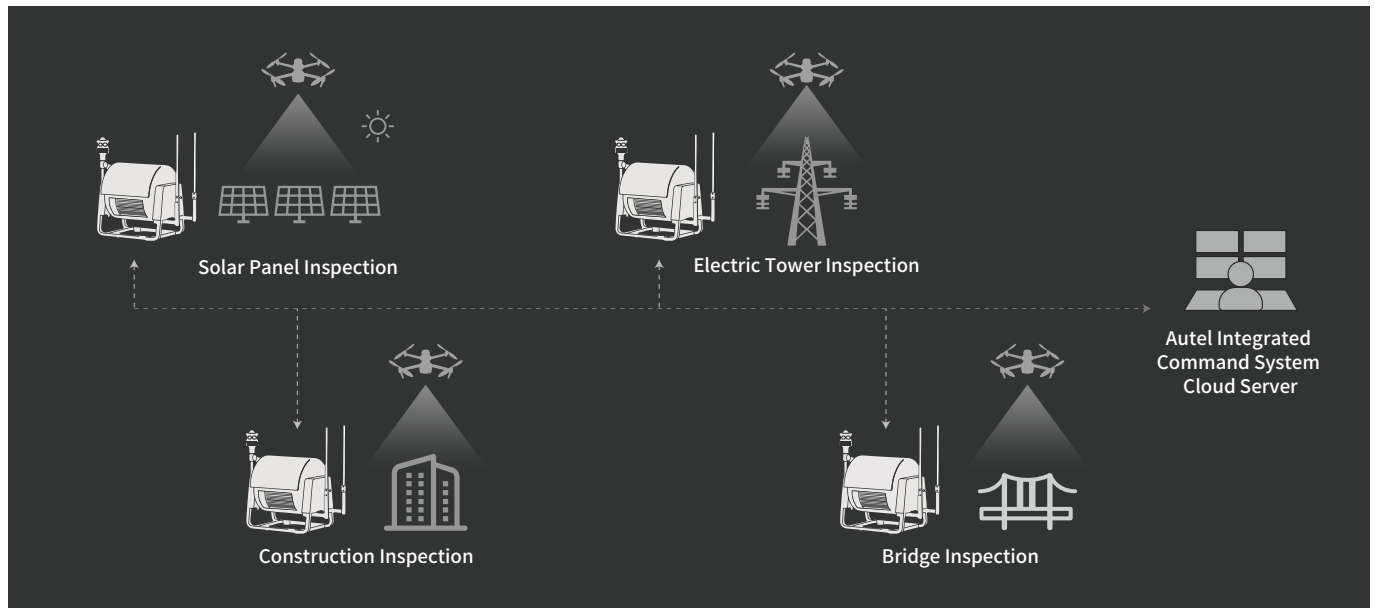


## Autonomous, Semi-Autonomous, Or Remote Piloting

Autel's Remote Operations System gives the pilot great flexibility and control whether the mission is preplanned before the flight, layered on top of an ongoing mission, or if the pilot wants to remotely control the aircraft live.

## Multi-Nest Systems

Multiple Nests can be networked to cover large areas and allow flexible, expandable operations.

## All Weather Performance

The Nest's integrated weather systems provide localized weather data for safe remote drone operations. An industrial temperature control unit allows the Nest to work in temperatures between -22°F and 131°F.

## Transportable & Easy Setup

The Nest weighs 132 lbs, has a footprint of less than 1 yd², and can be set up by a team of 2.

## Information Management

The EVO Nest uploads flight and mission data into cloud for easy access, storage, and management.

## Encryption

The EVO Nest supports AES 256 image transmission encryption and GB28181 protocol output video stream.

## Simplified Maintenance

Thoughtfully designed, the EVO Nest is made for remote operations requiring infrequent maintenance trips.

## Fast Charge Capable

The EVO Nest can safely charge an EVO Max Series from 10% to 90% within 25 minutes.

## Custom Solutions

Autel can provide customization and further system development to suit industry-specific drone needs.

## Specification

| 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 | 3100m |

| Max Power | 1200W ~ 2000W |
|---|---|
| Standby Power | 10W |
| Operating Voltage | AC 110V / 220V |
| Max Charge Current | 16A |
| Drone Charge Duration | 10% ~ 90% 25min |
| Hatch Endurance | ≥50000 Times |
| Model | EVO Max Series |