



EVO Max Series

Reach New Frontiers

The EVO Max Series features industry-leading A-Mesh networking, anti-interference, autonomous flight (Autonomy), high-precision visual navigation, AI target recognition and positioning, and 720° omnidirectional obstacle avoidance. These capabilities ensure stable and intelligent operations in all-weather, complex environments. EVO Max 4T is equipped with a 10x optical zoom camera, enabling long-range reconnaissance of vehicles and vessels up to 2 km away. EVO Max 4N integrates an ultra starlight night vision camera, delivering clear visibility in extremely low-light conditions. The powerful flight platform, combined with a range of gimbal payloads, delivers outstanding performance across public safety, energy inspection, emergency response and many other fields, setting a new benchmark for industrial UAV applications.



No Blind Spots



Superior Anti-Interference Capability



High-Precision Visual Navigation



A-Mesh Networking



AI Target Recognition



8K 10x Optical Zoom Camera



0.0001 LUX Starlight Vision Camera



Hot-Swappable Battery



15 km Transmission Range



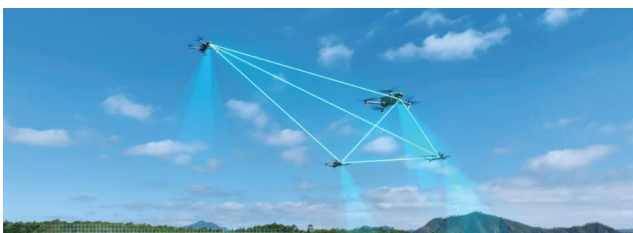
42 min Max. Flight Time





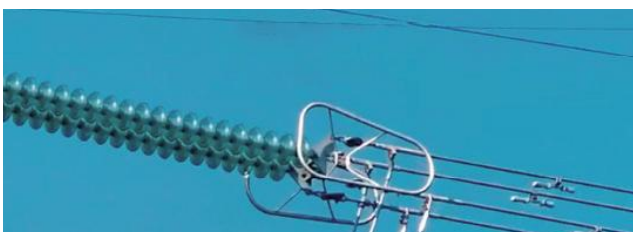
Autonomous Flight Planning

Autel's Autonomy Engine collects surrounding environmental data and plans 3D flight paths through complex environments such as mountains, forests, and buildings. Use cases include rapid 3D scene reconstruction, public safety oversight, industrial inspection, and land surveying.



A-Mesh Networking

EVO Max series features the new A-Mesh system, enabling drone-to-drone autonomous communication, connection, and collaboration. With A-Mesh, multiple drones in the vicinity can act as relay points to greatly improve BVLOS operation effectiveness.



Super Zoom

EVO Max 4T supports 10x continuous optical zoom and up to 160x hybrid zoom, and clearly identifies vehicles and vessels from over 2 km away, greatly enhancing the operational efficiency by reducing the need for on-site presence. It is ideal for public safety, energy inspection, emergency rescue missions and other application scenarios.



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.



Anti-interference

The EVO Max Series uses advanced flight control modules and algorithms that can identify flight control interference signals and satellite positioning interference signals. This enables the EVO Max Series to fly confidently near power lines, critical structures, and in complex areas.



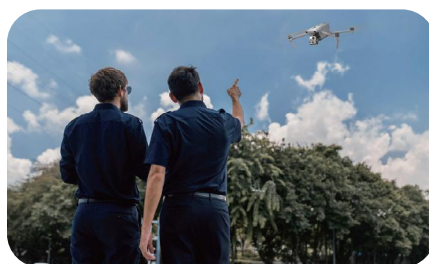
Starlight Camera

EVO Max 4N delivers exceptional night vision imaging performance, precisely capturing rich details even in ultra-low light (0.0001 Lux). It is capable of surveillance through glass and detecting light sources from 5 km away, making it ideal for long-range, covert night operations.

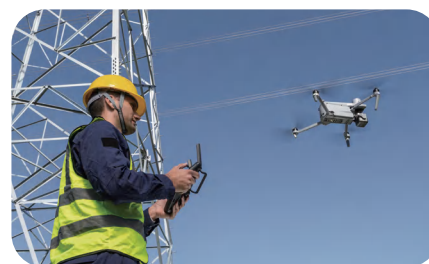
Applications



Law Enforcement



Security Patrol



Powerline Inspection



Emergency Search and Rescue



Geographical Surveying



Firefighting Rescue

Fusion 4T XE / Fusion 4T V2

Laser Rangefinder

5-1200 m Measurement Range
 $\pm(1\text{ m}+D*0.15\%)$ Accuracy

(D refers to distance from vertical reflective surface)

Thermal Camera

640 × 512 Resolution
9.1 mm Focal Length, 16x Digital Zoom
-20°C to 150°C / 0°C to 550°C Measurement Range
 $\pm 2^\circ\text{C}$ or reading $\pm 2\%$ Measurement Accuracy

Zoom Camera

1/2" CMOS, 48 MP
F2.8-F4.8 Adjustable Aperture
10x Optical Zoom, 160x Hybrid Zoom
4000 × 3000 30P Video Resolution
8000 × 6000 Max Photo Size



Wide-Angle Camera

1/2" CMOS, 48 MP
F2.8 Aperture, FOV 83.4°
24 mm Equivalent Focal Length
4000 × 3000 30P Video Resolution
8000 × 6000 Max Photo Size

Fusion 4N / Fusion 4N V2

Thermal Camera

640 × 512 Resolution
9.1 mm Focal Length, 16x Digital Zoom
-20°C to 150°C / 0°C to 550°C Temperature Range
 $\pm 2^\circ\text{C}$ or reading $\pm 2\%$ Measurement Accuracy

Laser Rangefinder

5-1200 m Measurement Range
 $\pm(1\text{ m}+D*0.15\%)$ Accuracy

(D refers to distance from vertical reflective surface)

Starlight Vision Camera

2.3 MP
LUX: 0.0001
ISO: 440000
1920 × 1200 30P Video Resolution
8x Digital Zoom



Wide-Angle Camera

1/0.98" CMOS, 50 MP
F1.85 Aperture, FOV 85°
23 mm Equivalent Focal Length
4000 × 3000 30P Video Resolution
8192 × 6144 Max Photo Size

Accessories



Autel Smart Controller V3

High-brightness display: 7.9 inches, maximum brightness of 2000 nits, resolution of 2048*1536.
Fast download: Up to 20MB/s maximum rate to download materials from the drone to mobile devices.
Functional interfaces: HDMI interface outputs live broadcast signal, USB interface expands 4G module.
Long battery life: Up to 4 hours of continuous work, fully charged in 2 hours.
Large storage: Built-in 128G of storage space, easily back up shooting materials.



EVO Nest (optional)

Evo Nest is an unmanned aerial vehicle (UAV) automatic operation platform equipped with an all-weather meteorological monitoring station, modular lightweight design, can be quickly deployed in substations, industrial parks, rooftop platforms, and other various situations. The unattended system consists of the nest, multi-rotor UAVs, and command center, among other components. Autel Command Center can remotely issue operation tasks, ensuring data transmission security while decision-making from miles away.



Loudspeaker And Spotlight Combo (optional)

Size: 145x116x83 mm
Installation method: Screw quick release
Searchlight: Maximum rated power 30W; FOV14°; Illuminance 30Lux@50m / 7Lux@100m / 3Lux@150m; Illumination pitch angle supports remote adjustment from 30° to -90° or automatic adjustment with the gimbal
Loudspeaker: Rated power 10W; 114 decibels @1m; Broadcasting distance $\geq 300\text{m}$; Speaker delay $< 300\text{ms}$; Supports recording, audio playback



RTK Module (optional)

Improves anti-electromagnetic interference ability, achieves centimeter-level positioning accuracy, assisting in completing precision inspection tasks.

EVO Max Series Model Comparison



Compared to the EVO Max series, the EVO Max Series V2 has refined the placement of the fisheye lens and navigation lights, further enhancing the UAV's visual obstacle avoidance capabilities.



The EVO Max Series V2 features side grooves for improved heat dissipation.

Payload and Feature Differences

	EVO Max Series			EVO Max Series V2	
Gimbal [1]	Fusion 4T	Fusion 4T XE	Fusion 4N	Fusion 4T V2	Fusion 4N V2
Battery [2]	ABX40 / ABX41			ABX41-D (Support battery in-place detection function)	
Other Mounting	RTK Module, Loudspeaker & Searchlight combo				
4G Transmission [3]	Not Support			Optional	
Remote Controller	Autel Smart Remote Controller V3				
App	Autel Enterprise				

Notes:

[1] Gimbals are interchangeable between the Evo Max Series and the EVO Max Series V2. Specifically, Fusion 4T XE and Fusion 4T V2, as well as Fusion 4N and Fusion 4N V2, are fully compatible across versions. However, Fusion 4T is only compatible with the EVO Max Series aircraft platform.

[2] The EVO Max Series comes standard with the ABX40 or ABX41 model battery (specific model based on actual purchase), while the EVO Max Series V2 comes standard with the ABX41-D model battery. The batteries for the EVO Max Series and EVO Max Series V2 are compatible and both support hot swapping. The ABX41-D Intelligent Battery supports the Battery In-place Detection Function.

[3] Contact sales for more information.

Specifications

Series	EVO Max Series			EVO Max Series V2	
Model	EVO Max 4T	EVO Max 4N	EVO Max 4T XE	EVO Max 4T V2	EVO Max 4N V2
Aircraft Dimensions	562*649*150 mm (unfolded, with 1136 propellers) 563*650*150 mm (unfolded, with 1158 propellers)			563*657*147 mm (unfolded, with 1158 propellers)	
weight	1645 g (including ABX40 battery, Fusion 4T, propellers)	1665 g (including ABX40 battery, Fusion 4N, propellers)	1635 g (including ABX40 battery, Fusion 4T XE, propellers)	1666 g (including ABX41-D battery, Fusion 4T V2, propellers)	1700 g (including ABX41-D battery, Fusion 4N V2, propellers)
Max Takeoff Weight	1999 g				
Max Flight Time	42 min				
Max Endurance Range	25 km				
Max Wind Speed Resistance	12m/s				
Operating Frequency	900MHz / 2.4GHz / 5.2GHz / 5.8GHz				
Max Transmission Distance	15 km				
Ingress Protection Rating	IP43 (* Customization is supported)				
GNSS	GPS + GLONASS + Galileo + BDS				