AUTEL ROBOTICS

EVO Max 4N

Explore the Night

The EVO Max 4N employs Autel Autonomy's autonomous flight technology, achieving global path planning, 3D scene reconstruction, autonomous obstacle avoidance, and return-to-home capabilities in complex environments. Its high-precision visual navigation allows for stable and reliable flight in conditions of strong signal interference, occlusion, or weakness. This drone introduces the industry's first A-Mesh networking technology, enabling free networking among multiple devices for integrated air-ground network coverage. With "binocular fisheye vision + millimeter-wave radar" multi-sensor fusion perception technology, it offers 720° all-round sensing and obstacle avoidance capabilities, suitable for all-weather operations. The EVO Max 4N is equipped with the FusionLight Camera 4N, integrating a super starlight-level night vision camera with 0.0001 Lux ambient light recognition, an ultra-sensitive wide-angle camera, a thermal imaging camera, and a laser rangefinder, efficiently serving public safety, energy inspection, emergency management, and establishing 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

Superstarlight-Grade
Night Vision Camera

Hot-Swappable
Battery

20-Kilometer HD
Video Transmission

42 Minutes of Enduring
Endurance

FusionLight Camera 4N

Thermal Imaging Camera

640×512 resolution
9.1 mm focal length
16x digital zoom
Range: -20℃ to +150℃ / 0℃ to +550℃

Super Starlight-Level Night Vision Camera

2.3 million pixels
0.0001 Lux ambient light recognition
440,000 ultra-high ISO
41.4 mm equivalent focal length

Laser Rangefinder

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

*D = measurement distance

Ultra-Sensitive Wide-Angle Camera

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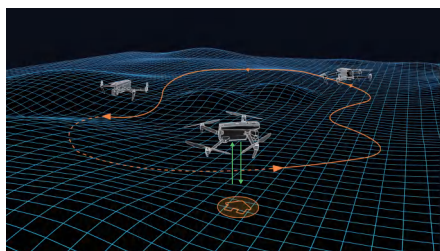
Autonomous Flight Planning

The EVO Max 4N uses Autel Autonomy's autonomous flight technology for real-time environmental data collection, enabling global path planning, 3D scene reconstruction, autonomous obstacle avoidance, and return-to-home in mountainous, forested, and urban environments, supporting the security, inspection, and surveying industries.
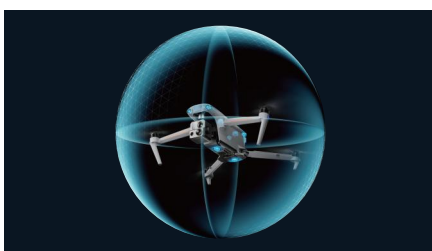
High Precision Visual Navigation

In urban environments, where satellite signals are obstructed or weak, it can still achieve high precision and low latency in distance and coordinate information, utilizing SLAM visual navigation technology for high-precision indoor and outdoor navigation and stable flight.
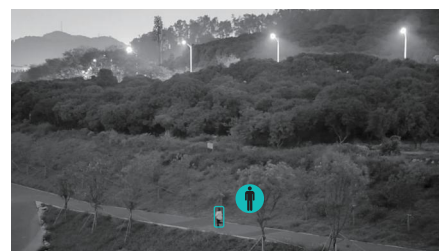
Nighttime Object Identification & Tracking

Featuring the Starlight and thermal cameras, the EVO Max 4N can identify and lock onto objects, such as heat sources, individuals in motion, and vehicles, enabling high-altitude tracking in extreme low light situations.

Applications

 power line inspection

 emergency search and rescue

 law enforcement

 geographical surveying

 firefighting rescue

Specifications

Weight (including battery, gimbal camera, and propellers)	1665g	Maximum wind resistance	12m/s
Dimensions	562*651*147mm (unfolded with propellers) 318*400*147mm (unfolded without propellers) 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 flight speed	23m/s	GNSS	GPS + GLONASS + Galileo + BDS

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