AUTEL
ROBOTICS

EVO Max 4T XE

Reach New Frontiers

The EVO Max 4T XE 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 XE, 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

EVO Max 4T XE
Chase the Heat

Laser Rangefinder

Measuring Range: 5-1200m (16.4–3737 ft)
Measurement Accuracy: ± (1 m + D×0.15%)
* where D is the distance to a vertical reflecting plane

Zoom Camera

1/1.2" CMOS, 48MP
Aperture: f/2.8–f/4.8
10x Optical Zoom
160x Max. Hybrid Zoom
Video Resolution: 4000x3000 30P
Photo Size: 4000x3000, 8000x6000

Thermal Camera

640×512
Focal Length: 9.1 mm
16x Digital Zoom
Range: -4 $^{\circ}$F to 1022 $^{\circ}$F
Accuracy: ±2℃ or reading ±2%

Wide Angle Camera

1/1.2" CMOS, 48MP
Equivalent: 24 mm
Aperture: f/2.8
DFOV: 83.4°
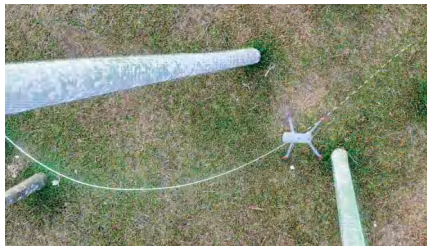
Autonomous Flight Planning

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.
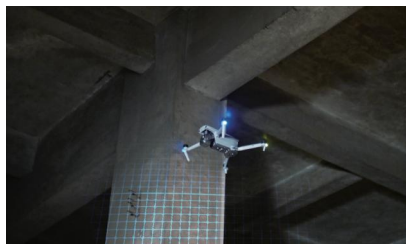
High Precision Visual Navigation

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.
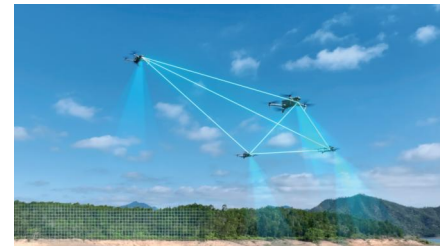
A-Mesh Networking

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

power line inspection

emergency search and rescue

law enforcement

geographical surveying

firefighting rescue

Specifications

Weight (including battery, gimbal camera, and propellers)	1635g	Maximum wind resistance	12m/s (27mph)	
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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