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AUTEL EVO
MAX 4N

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Aircraft

Max. Takeoff Weight	4,41 lbs (1999 g)
Max Speed	23m/s
Max Takeoff Altitude	14,764ft (4500m)
Max Flight Time (windless)	42 mins
Max Hovering Time (windless)	38 mins
Max Wind Resistance	27mph* * Takeoff and landing can withstand wind speeds up to 27 mph (12 m/s).
IP Rating	IP43
Operating Temperature	-4°F to 122°F (-20°C to 50°C)
Internal Storage	128GB internal storage, with 64GB of available space" (Remaining available space will vary with different firmware versions)
GNSS	GPS+Galileo+BeiDou+GLONASS

Gimbal

Mechanical Range	Pitch: - 135° to 45° Yaw: - 50° to 50° Roll: - 45° to 450
Controllable Range	-90° to 30°
Stable system	3-axis mechanical gimbal (pitch, yaw, roll)
Max Control Speed (pitch)	200%
Angular Vibration Range	<0.005°

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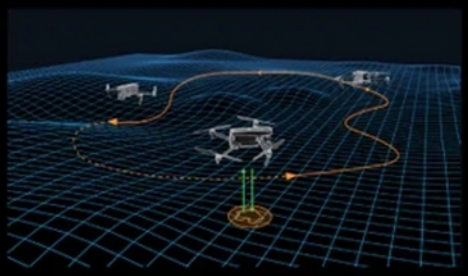

Autonomous Path Finding

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 overwatch, industrial inspection, and land surveying.

No Blind Spots

EVO Max 4N combines traditional binocular vision systems with millimeter wave radar technology. This allows the EVO Max 4T's onboard Autel Autonomy Engine to perceive objects down to 0.5 inch, eliminating blind spots and enabling operation in low light or rainy conditions.

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.

640x512
Thermal Resolution

0.0001 LUX
Starlight Camera

450,000
Max ISO

up to 0.75 mi
Laser Rangefinder

50MP
Wide Camera

Thermal Camera

Equipped with 640 x 512 high-resolution thermal imaging camera, 30fps, and 16x digital zoom.

Starlight Camera

With an impressive 0.0001 LUX and ISO ranges from 100-450,000 it has the ability to lock and track targets at night. This camera is the ultimate tool to explore the night.

Laser Rangefinder

Tap a target to get the coordinates and distance rapidly from up to 0.75 miles away.

Wide Camera

Moonlight Algorithm 2.0 boosts post processing and allows the pilot to capture crisp, detailed images in low-light environments.
Video: Supports 4K 30fps, max ISO 64000.
Photo: Moonlight mode reduces noise and enhances HDR.

Applications

Law Enforcement

Fire and Rescue

Utilities and Infrastructure

Construction

Mining

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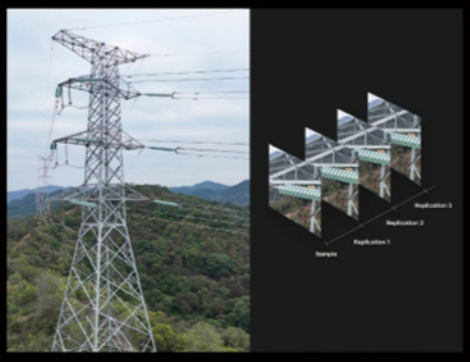
Smart Features

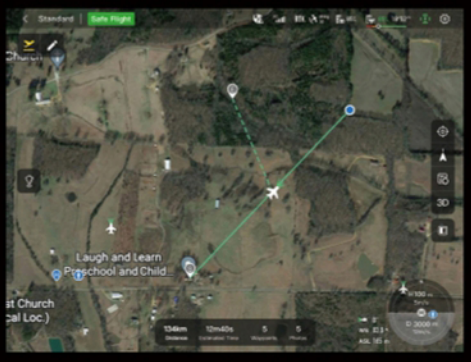
3D Map Planning

Plan, create, and execute 3D waypoint mission plan on a 3D map.



Mission Reproduction*

With this feature activated, fly a manual or semi-autonomous mission, or string multiple missions together.

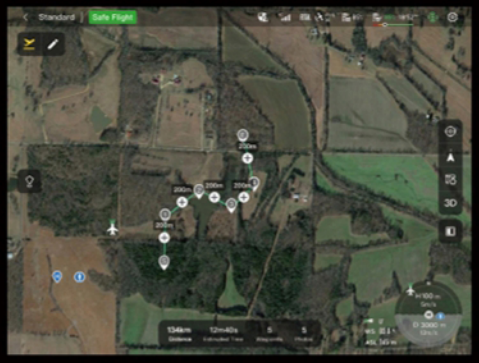


Quick Mission*

Temporary quick missions can be created while executing other missions, and multiple sub-missions can be stacked for enhanced flexibility.

Multiple Mission Types

The Enterprise App provides various autonomous and semi autonomous mission planning for public safety, inspection, and surveying.



Waypoint Missions

Users can add waypoints for flexible, non-structured flight paths.

Rectangular Mission

Supports one-click automatic generation of a rectangular flight area.

Automatic Mission Generation And Data Capture*

Automatically produce routes by adding regional boundary points through dots or importing KML files.

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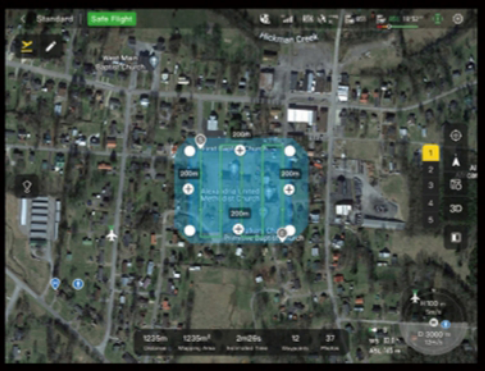
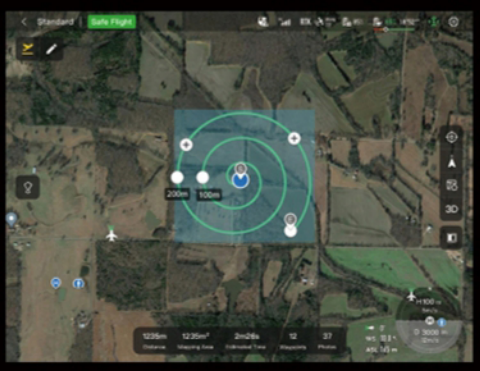
Terrain Follow*

Maintain relatively constant altitude from the ground for uneven or sloped terrain.



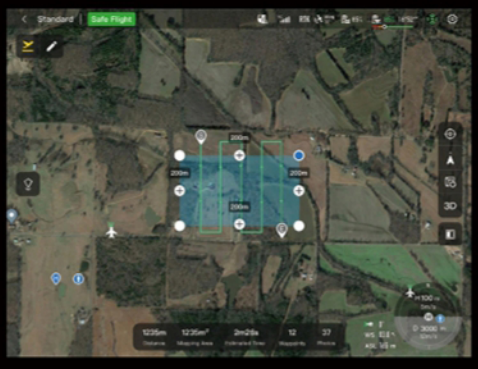
Oblique Photography

Automatically plan 5 groups of routes (1 ortho + 4 oblique) according to the flight area set by the user.



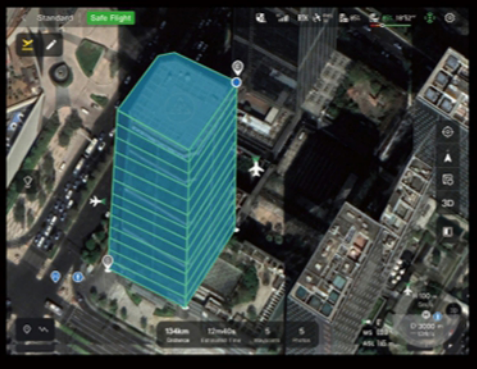
Spiral Mission*

Supports helical flight search in a designated area for SAR.



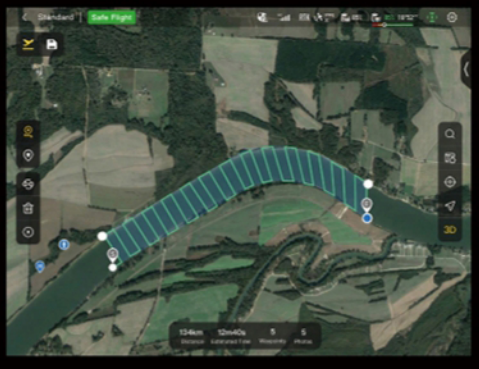
Polygon Mission

Supports one-click automatic generation of polygon flight areas.



Vertical Scan*

Perform vertical surveys for building facades, open pit walls, and towers.



Corridor Mission*

Supports intuitive and effective corridor mission planning for roads, rivers, pipelines, power lines and other narrow, large-scale terrain.

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Visual Sensing System

Obstacle Sensing Range	Forward: 19.7-1220.5in (0.5-31m) Backward: 19.7-984.3in (0.5-25m) Sideward: 19.7-1023.6in (0.5-26m) Upward: 0.66-85.3ft (0.2-26m) Downward: 0.98-75.5ft (0.3-23m)
Obstacle Avoidance	720°
FOV	Forward/Backward Sensor: 60°(H), 80° (V) Upward/Downward Sensor: 180°(sideward), 120° (forward & backward)
Operating Environment	Forward, Backward, Sideward, Upward: The surface has rich texture, under sufficient lighting environment (>15 lux, normal indoor fluorescent lighting environment) Downward: The surface is a diffuse material with a reflectivity >20% (walls, trees, humans, etc.), under sufficient lighting environment (>15 lux, normal indoor fluorescent lighting environment)

Radar and Visual Sensing Systems

Sensing Range	Forward & Backward: 11.8-1968.5in (0.3-50m) Sideward: 19.7-1023.6in (0.5-26m) Upward: 0.66-85.3ft (0.2-26m) Downward: 0.49-262.5ft (0.15-80m) (60Ghz radar)
FOV	Forward/Backward Sensor: 80° (H), 120° (V) Upward/Downward Sensor: 180° (sideward), 120° (forward & backward)
Operating Environment	Forward, Backward, Upward, Downward: supports all-weather obstacle avoidance for glass, water, twigs, buildings and high voltage lines. At least one of the 2 conditions should be met: sufficient lighting or the obstacle has strong reflection ability to electromagnetic waves. Sideward: The surface has rich texture, under sufficient lighting environment (>15 lux, normal indoor fluorescent lighting environment)

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Smart Controller

Screen	7.9 inch, 2000nits max. brightness, 2048*1536 resolution
Operating Time	2.5 hours (Max. brightness) 4.5 hours (50% brightness)
Max Transmission Distance (without interference)	12.4 miles/20km (FCC), 4.9 miles/8km (CE)
IP Rating	IP43
Storage	128G
GNSS	GPS+GLONASS+Galileo
Operating Temperature	-4°F to 104°F (-20 C to 40 C)

Aircraft Battery

Capacity	8070mAh
Voltage	14.88V
Battery Type	LiPo 4S
Energy	120wh
Net Weight	1.15 lbs (520g)

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