

# 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, transmission technology, and battery systems. 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 conducting the missions. The DG-L35T gimbal integrates a 560x super hybrid zoom camera, dual thermal imaging cameras, ultra-sensitive starlight night vision camera, and laser rangefinder, providing more professional and comprehensive solutions for public safety, energy inspections, emergency management.



Non-GNSS Visual  
Positioning



A-Mesh Network



Dual Thermal Camera



4K 35x optical zoom



Weather rating: IP55



Hot-swappable  
Battery



720° Omnidirectional  
Obstacle Avoidance



12.4 Miles  
Transmission Range



# Autel DG-L35T Gimbal | Insight Beyond Limits

The Autel Alpha is equipped with a versatile payload, integrating dual thermal imaging cameras (short/long focal length), a 4K 35x night vision Zoom camera, a wide-angle camera, and a laser rangefinder, giving you full-spectrum target monitoring and efficient support for long-range reconnaissance scenarios.



## Zoom Camera

8 MP  
4K 35x optical zoom  
560x hybrid zoom  
Supports ultra-sensitive starlight vision

## Laser Rangefinder

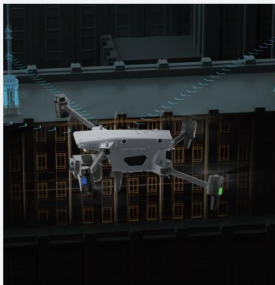
Measurement range: 10-2000 meters  
Measurement accuracy: <400m: +1m;  
>400m: D×0.3%  
\* where D represents the distance from the vertical reflecting surface

## 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.



### Autonomy Autonomous Flight

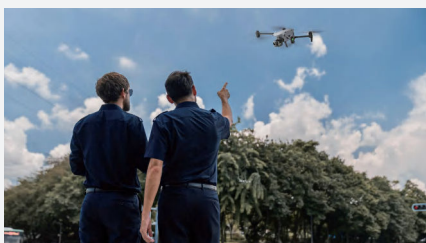
Autel's Autonomy Engine is continuously improving, enabling functions such as global path planning and 3D scene reconstruction in complex environments. It offers various obstacle avoidance capabilities, including return-to-home, manual control, and mission planning, providing a more professional solution for industries such as security, inspection, and surveying.



### 720° Omnidirectional 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 720° omnidirectional perception and obstacle avoidance capabilities. It can detect minor obstacles like glass, poles, and power lines. Additionally, it supports nighttime obstacle avoidance for flight safety.

## Application



Public Safety



Search & Rescue



Inspection