

Infrared Gas Analyzer

ATD300

Features

- Intelligent battery, safe and reliable, one-key to check the power, battery fault self-check
- Maximum load 3 kg
- The control system adopts dual redundant sensor design
- Laser altitude determination and positioning to ensure the accuracy and stability
- Radar obstacle avoidance module
- Accuracy napoftheearth flight.
- Battery life 70 minutes

Application

- Oil, gas pipeline inspection
- Police, communication
- River, railway
- Telecommunications inspection,
- Building surveying and mapping
- Agriculture, solar energy detection, environmental monitoring

Description

The Optosky ATD300 takes performance and portability to a whole new level, making the drone your everyday companion. The combination of advanced flight technology and industry-customized software and hardware fully expands the visual dimension and breadth, and provides global insights for professional users in the fields of security, inspection, construction, etc.

The modular design of the gimbal and the ground station management system are suitable for a variety of application scenarios, and can be adapted to a loading weight of 3kg to expand more application directions. The SDK interface is also reserved, which can be adapted to mount various industry applications and bring more possibilities.

Model	Description
ATD300	Quadcopter drone





1.Performance

Model & Parameters	ATD300
GPS accuracy	Horizontal: ± 5 cm Vertical: ± 10 cm
Maximum speed	Maximum Speed 21 m/s forward – 20 m/s backward and laterall Wind Resistance 16 m/s during Flight & 14 m/s during Take-off and Landing
WEIGHT	Max Load Weight: 2.5 kg Weight with Battery: 5.3kg Max Takeoff Weight: 7.3kg
Max Practical Ceiling above Sea Level	5000m
MAX Speed	20m/s
MAX Angular Velocity	300°/s
Hovering Time	No Payloads 70 min
	2.5kg Payloads 35 min
MAX Fly Height	6500m
MAX Transmission Distance	20 km
Size	Folded size 29cm×17cm×40cm, unfolded size $\leq 72\text{cm} \times 72\text{cm} \times 39\text{cm}$ motor wheelbase $\leq 990\text{mm}$

2. Advantages

Easy to Carry

The arm, landing gear and gimbal components adopt a folding structure, which can be quickly disassembled and installed in one minute with bare hands; fully autonomous operation (no remote control takeoff, automatic operation, automatic landing).

Long battery life

The aircraft can hover for 70 minutes without load, and is equipped with an intelligent battery management system, which can effectively increase the battery life by more than 30%, and the charging time is 50 minutes, with efficient charging and intelligent operation.

Efficient and intelligent operation

Automatically generate routes, provide map dots, import custom polygons, import KML files, etc. to plan routes. Provide a variety of special route planning (strip route, napoftheearth flight, circumnavigation route).

Security

Equipped with an obstacle avoidance radar module, it can automatically identify obstacles; and it can realize imitation flight without relying on terrain maps, which is not easily affected by the weather, has small errors, high stability, and improves flight safety.




Gimbal modular design

The quick-plug storage pan/tilt is adopted, and the modular design of the pan/tilt is suitable for various scenarios.

Ground Station Management System

It can realize online management of multiple devices at the same time, check the progress of the operation and the status of the drone equipment, and make the flight safer.



	ATD600	ATD300	ATD100
picture			
GPS accuracy	Horizontal: ± 5 cm Vertical: ± 10 cm	Horizontal: ± 5 cm Vertical: ± 10 cm	Horizontal: ± 5 cm Vertical: ± 10 cm
Maximum speed	Maximum speed 21 m/s forward – 20 m/s backward and laterall Wind resistance 16 m/s during flight & 14 m/s during take-off and landing	Maximum speed 21 m/s forward – 20 m/s backward and laterall Wind resistance 16 m/s during flight & 14 m/s during take-off and landing	Maximum speed 21 m/s forward – 20 m/s backward and laterall Wind resistance 16 m/s during flight & 14 m/s during take-off and landing
WEIGHT	Max load weight: 5 kg Weight with battery: 11.2kg Max takeoff weight: 16.2kg	Max load weight: 2.5kg Weight with battery: 5.3kg Max takeoff weight: 7.3kg	Max load weight: 1.5kg Weight with battery: 3.5kg Max takeoff weight: 5kg
Max practical ceiling above sea level	5000 M	5000 M	5000 M
MAX Speed	20M/S	20M/S	20M/S
MAX angular velocity	300°/s	300°/s	300°/s
Hovering time	No payloads 80 min	No payloads 70 min	No payloads 70minutes
	5kg payloads 40 min	2.5kg payloads 35 min	1.5kg payloads 35 min
MAX Fly Height	6500M	6500M	6500M
MAX Transmission Distance	20 km	20 km	20 km