e-survey

eDrone300

FLAGSHIP INTELLIGENT MANUFACTURING INDUSTRIAL INTELLIGENT SELECTION

The eDrone300 is an industrial-grade flagship drone that integrates several cutting-edge technologies for unmanned aerial systems. The frame is made of magnesium alloy and the foldable body is designed to be safe and stable, convenient to carry. Equipped with millimeter-wave radar and integrated binocular perception system, it can achieve all-round obstacle avoidance.

UAV

Multi-machine Relay Networking: Uninterrupted Communication

Support "One-Control-Two"(one remote controls two drones), "Two-Control-One"(two remote controls one drone) and "Star Networking" (multi-UAV linkage networking)modes. This mode can break through the operational boundaries of conventional drones and easily cope with complex terrain.

All-round Protection

There is no longer a need to worry about flight safety, and the dual obstacle avoidance fusion technology of "visual obstacle avoidance + millimeter wave radar" gives the UAV omnidirectional safety protection.

Impressive Battery Life: Ultra-long Endurance

The eDrone300 has a 14000mAh battery with a long battery life of 49 minutes, while reducing the number of battery changes, significantly improving work efficiency.

Dual-payload Platform

Provide dual-load gimbal interface, with a maximum load of 3kg. It can support two independent loads at the same time for comprehensive operation to meet the needs of complex operations.

Lightweight Backpack Design: Easy to Carry

Easily carry it by yourself in a variety of complex environments, with a total weight of less than 10 kg.

Website & Social media

Product Specification

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Product Parameter	
Type	Quadcopter with 4 propellers
Symmetrical motor wheelbase	725mm
Unfolded dimensions	549 × 592 × 424mm（exlcude paddle）
Folded dimensions	347 × 367 × 424mm（including tripod&paddle）
Weight	4kg（with battery）
Max. takeoff weight	4kg（with battery）
Max. flight time	49mins（no wind/light wind, hovering test battery runs from full capacity to out of capacity）
Max. payload	3kg（Max loading, Max safe flight speed 15m/s）
Max. wind resistance level	Level 7（wind speed 13.9-17.1 m/s）
Max horizontal flight speed	23m/s（sport mode, horizontal /no wind）
Max. takeoff altitude	5000m
Communication distance	■ 15km（FCC） ■ 8km（CE/SRRC/MIC）
IP Level	IP45
Hovering accuracy（GNSS）	■ Horizontal: ±1.5m ■ Vertical: ±0.5m
Hovering accuracy（Vision positioning）	■ Horizontal: ±0.3m（vision positioning on）
Hovering accuracy（RTK）	■ Horizontal: ±0.1m ■ Vertical: ±0.1m
Positioning accuracy	■ Vertical: 1cm+1ppm ■ Horizontal: 1.5cm+1ppm

Product Parameter	
video transmission range	15km（Flying at an altitude of 200 meters without any interference）
Omnidirectional barrier avoidance	Obstacle perception range（Buildings, trees, utility poles, towers over 10m）Front:0.7m~40m（80m max detectable distance for large metal objects）Left&right:0.6m~30m（40m max detectable distance for large metal objects）Up&down&back:0.6m~25m Work environment: rich texture on the surface, sufficient lighting conditions（>15lux, indoor fluorescent light normal illuminate
Standard battery	1 × Li-Polymer batteries, 14000mAh
AI function	Target inspection, follow, recognition
Flight safety	ADS-B function, Can sense surrounding civil aviation aircraft information for evasion

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