



Heavy-duty long flight time multi-rotor

Optosky electric hexacopter drone, available on demand to quickly change different payload equipment, it can be adapted to lidar and dual-lens tilt head. Experienced thousands of square kilometers of cadastre the test of the measurement project, continuous improvement and optimization, really close to Project requirements, it is a rare good helper for high-precision aerial survey.



Overload long flight time

Up to 50 minutes under 5kg load



High precision positioning

Equipped with RTK/PPK differential processing system



Intelligent operation

Intelligent operation, personnel can get started after simple training



Precise terrain following

Realize the flight function of following terrain fluctuations



Safe redundant

Three-redundant flight control, dual-redundant compass, battery redundancy, six-rotor design, safety guarantee



Disassembly and assembly without tools

The connecting parts adopt quick release structure



One-click load change

One-click load replacement, fast and convenient



Dual Antenna Directional

Avoid magnetic compass interference and improve flight safety

System parameters

Size	1620×1410×500mm	Diagonal Size (Propellers Excluded)	1500mm
Standard load	5kg	Standard flight time	>50min
Max load	8kg	Max Flight Time	>90min
Flight speed	0 ~15m/s	Max Service Ceiling Above Sea Level	5000m
The maximum takeoff mass (MTOM)	22kg	Max Wind Speed Resistance	12.5m/s
Battery	32000mAh × 2 or 25000mAh× 2	Differential mode	RTK/PPK
Operating temperature	-20~45°C	Box size	790×615× 360mm

Recommended load



Airborne Lidar RZ1350

Laser ranging range	1350m
Maximum scan angle	330°
Laser maximum pulse emission frequency	820kHz
Scanning Elevation Accuracy	≤5cm (flight high 200m, RMS)
Scan plane accuracy	≤8cm (flight high 200m, RMS)



Airborne Lidar RZ900

Laser ranging range	775m (50KHz) to 300m(500KHz)
Maximum scan angle	360°
Laser maximum pulse emission frequency	500, 200, 50 kHz (Can be set)
Scanning Elevation Accuracy	≤8cm (flight high 200m, RMS)
Scan plane accuracy	≤20cm (flight high 200m, RMS)