QP530
Reconnaissance UAV

Reconnaissance UAV

Eye of the sky, take control from above

Product Features

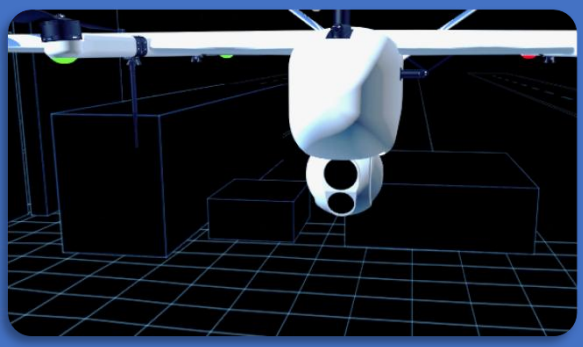
QP530 is a hybrid wing UAV for reconnaissance job, QP530 Equipped with an advanced redundant navigation and flight control system, the QP530 is capable of fully autonomous takeoff, landing and operation, supports a variety of emergency protection functions. It has smart battery, power monitoring, structure monitoring, backup data link, 3D ground station, cloud system and other functions. Equipped with high-definition nacelle, it supports optical zoom 30 times of visible light, infrared, wide-angle and laser ranging functions, which can realize target identification/tracking and intelligent search/lock and follow the target.

Strong Performance

Pure electric powered, 70-115km/h speed regulation, level 7 wind resistance, 120 minutes of endurance

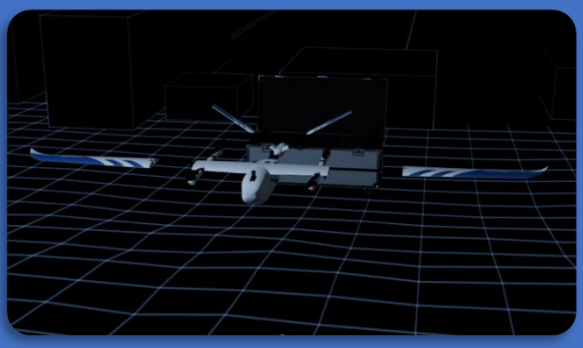
Elevated Nacelle

Reduce blind spots during operation, reduce wind resistance and automatically retract and release



Quick assembling

No tools required for assembling. Can be assemble in 3 min. by one staff

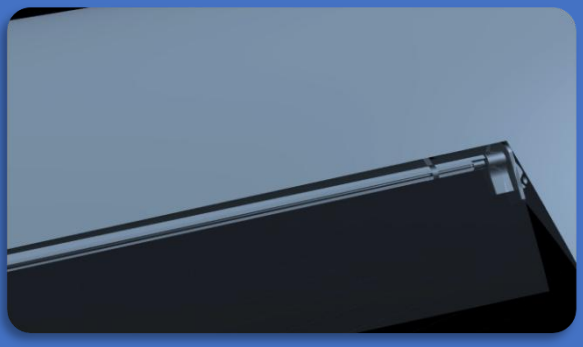


Folding arm

Middle wing integrated design, folding supported for storage Fast expansion, great quality and extremely reliable

Rudder with no connecting rod

No exposed steering gear connecting rod, direct drive structure Reliable and easy to maintain

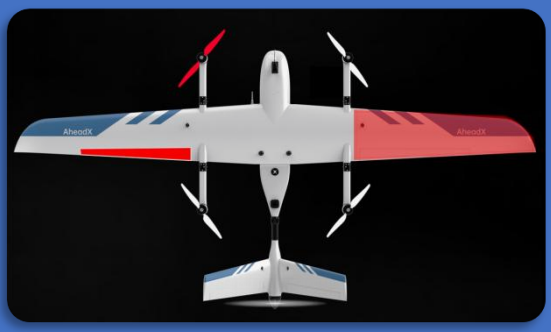


Complex working environment

Can be working shortly in light rain and snow. Working temperature -20~50℃

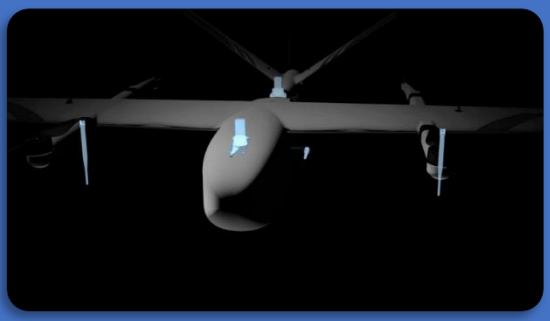
Servo safety condition monitoring

Real-time monitoring of motor/steering gear/structure status, abnormal alarm



Secure hardware backup

Dual redundant airspeed meter/satellite, three redundant heading measurement, four redundant IMUs

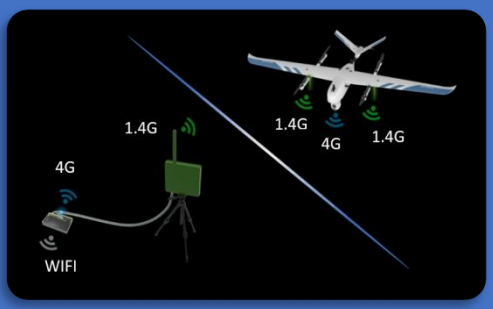


Smart battery

Real-time health monitoring, -20℃ automatic heating Single cell 4.35V, very high energy density

30KM data link +4G dual backup

30KM data link and the airborne 4G communication module are mutual backup, stable communication in complex environment



Reconnaissance and surveillance

Flight/load performance is further optimized for reconnaissance and surveillance applications to meet the requirements of most scenarios. Meanwhile, automatic target identification/locking, geographical location locking, AR navigation, intelligent target search/follow flight and other functions are added to improve target search efficiency.

High definition Nacelle

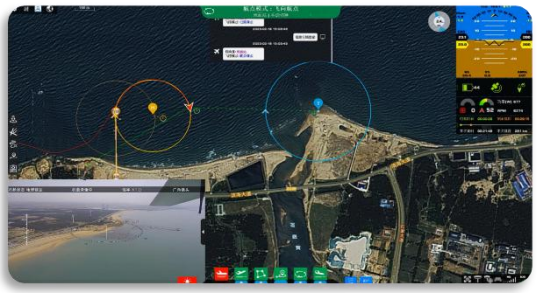
Support visible light/infrared/wide Angle/laser ranging30x optical zoom

Multi-target automatic recognition

People, vehicles and other targets automatic recognition, special target customization

Pointing to fly

Fly to a map click or video center location without any Settings



Large rolling Angle picture does not tilt

Flight control and nacelle system data fusion correction The picture does not tilt when turning at a large Angle

Smart search/follow up

During the search, the UAV automatically follows the direction of the movement of the pod and steadily follows the high-speed target

Location lock

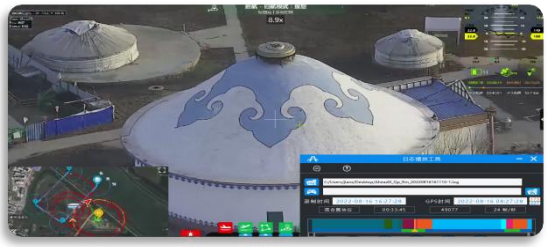
Dramatically improve search efficiency by clicking on maps to quickly locate known locations

AR navigation

AR information screen overlay, visually display aircraft and target position and movement trend

Video log playback

Video and data can be played back frame by frame



Galaxy Cloud System

3D real-time data monitoring, remote control of the drone, view real-time video

Multiple emergency protection

Low power/data link loss/attitude overrun/emergency diversion/millimeter-wave radar imitation ground protection

QP 530 Specification

QP530

Fuselage Length	1.55m
Wingspan	3.0m
Body Materials	Glass fiber + carbon fiber + reinforced PVC
Max. Take-off Weight	17kg
Motor System	4 MR motors + 1 FW motor electric
Storage dimension	124*60*68cm
Max. Endurance	120min
Cruising Speed	70~115km/h
Wind Resistance	≤13.8m/s
Practical ceiling	5500m
Working Temperature	-20℃~50℃
Take-off/Landing Mode	Auto VTOL
Hor. Positioning Accuracy	1cm+1ppm
Ver. Positioning Accuracy	2cm
Heading Accuracy	0.2°

Load Parameter

Model	 PG323	 PG333T	 PG343TL
Camera	Visible light, wide Angle	Visible light and infrared Wide Angle	Visible light and infrared Wide Angle, Lidar
Visible Light CameraParameter			
Resolution	1920×1080		
Focal length of lens	6.5mm-162mm		
Horizontal field Angle	58.1°-2.3°		
Optical zoom	30X		
Fog Penetration	Yes		
infrared Camera			
Detector type	Uncooled focal plane		
Detector resolution	640×512		
Focal length of lens	35mm (4X digital zoom)		
Field Angle	12.5° (Hor.) ×10° (Ver.)		
False color	Black heat, white heat		
Wide-angle lens parameters			
Resolution	1920×1080		
Focal length of lens	3.14mm		
Horizontal field Angle	86°		
Vertical field Angle	54.4°		
Laser ranging parameter			
Ranging range	5~2000m		
Ranging accuracy	±1m		
Ranging frequency	1~4Hz		
Laser wavelength	905nm		