

Hybrid VTOL V500P

The Longrange Professional Mapping Drone





400 Km

Max. Flight Distance*



4-6 hours

Max. Flight Endurance*



30 Km

Control Radius*



10 Kg

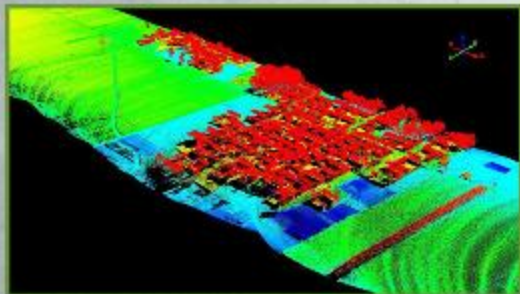
Max. Payload Capacity

Technical Specification

Body length	2.5m
Wing span	3.8m
Propeller	30 Inch
Materials	Carbon-fiber or Glass-fiber Composite
M.T.O.W.	50kg
Max. payload weight	10kg
Max. endurance	4h@10kg Payload 6h@5kg Payload
Flight radius	200-400km
Max. Control Distance	Remote: 1km GCS: Standard 30km
Max. speed	110km/h
Typical speed	100km/h
Max. tank	12L
Max. take-off height	4500m (3kg Payload)
Max. wind resistance	13m/s (Level 6)
Operation environment	-20°C+60°C; Small Rain-proof
Battery for VTOL Only	4*14000mAh-6S Li-ion Battery
Take-off and landing	VTOL
Package size	1.6*0.7*0.6m



CAMERA & LIDAR PAYLOAD



Laser wavelength	1550nm
Measurement max. distance	1300m
Typical measurement distance	5m-600m
Scanning field	40°/70°
Point density	600k/s
Height measurement accuracy	< 15cm
Relative absolute plane measurement accuracy:	< 20cm
Working temperature	- 22 ℃ - 55 ℃
System weight	6kg
Type of IMU	MEMS IMU
Update frequency	50~1024Hz
Number of GNSS antennas	1~2
Positioning modes	GPSL1/L2, GLONASSL1/L2, Beidou B1/B2
Digital camera Pixel	>42MP
Digital camera FOV	66°/46°

FLIGHT PLAN AND CONTROL SOFTWARE

V500P is equipped with industrial-level VTOL autopilot as well as professional GNSS. Through SMD own-designed Flight plan and Control Software, it ensures fully autonomous flight including take-off, transit, cruising and landing.

It can support up to 1000 waypoint flight planning as well as 100 waypoint emergency landing.





FEATURES

V500P is fully developed by SMD Team, it adopts the advantage of both Copter and Fixed Wing, resolves the difficulty of take-off and landing in a very smart way. VTOL enhanced the capability and flexibility of this UAV platform largely by making it adaptable for many complicated areas in terms of take-off and landing, for example, mountain, hills, forest, area with high-density buildings. It is now the very ideal choice when operating industrial-level UAV.

Reasons to choose

Hybrid VTOL V500P

Easy operation

Pilot does not need complicated training to grasp the essence of how to fly this UAV. Major job of the pilot is flight-planning.

Efficient

No need for high-cost and troublesome launch and recycling devices, no need to add extra sensors for retrieving.

Flexibility

The V500P is able to take-off and land vertically (Vertical takeoff and landing) without restrictions of the site environment.

Powerful

The V500P possesses capability of Fixed-wing such as long endurance, faster flight speed, long range coverage as well as heavy-lifting.





About YANMU


PT. Yanmu Indonesia (Yanmu) is a distributor and aerial surveys specialist. We market various types of drones and has a goal to become a leader in this field. Yanmu established since 2013 in Sleman, Yogyakarta, Indonesia. Yanmu is an active sole distributor in the marketing of drones for mapping needs, training on the use of drones and various other related services.


Currently, Yanmu has become the exclusive distributor for the products Sensefly, LiDAR USA and SMD.


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