

UAV

Aircraft System				
model	MF2500 take-off weight		11kg	
aircraft type	VTOL (vertical takeoff and landing)	propulison system	electric pusher propeller	
system structure	modular design	power supply	lithium polymer battery	
wingspan	250cm	battery power(fixed wing)	38500mAh*1	
length	148cm	battery power(rotor)	3700mAh*2	
payload	1-2kg	body material	kevlar fiber material	

Flight Performance					
take-off method	vertical take-off	endurance	best up to 150 minutes		
landing method	vertical landing	single flight range	maximum 180km		
practical ceiling	5500m	single flight coverage	maximum 46 sq.km/GSD 10cm		
cruising speed	typical 21m/s(75km/h)	landing space	vertical landing within 1m		

Operation Performance				
pre-flight setup 10minutes		weather limit	beaudfort scale 6 (10.8-13.8m/s)	
control model	autopilot	operating temperature	-10°C to 45°C	
radio communication range	3-20km	environmental humidity	90% condensing	
transmitting power	1-2W			

Onboard Sensor				
autopilot 1x for auto cruise		magnetometer	1x for magnetic heading	
airspeedometre	1x for correcting airspeed	gyroscope	1x for measuring aircraft angle	
accelerometer	5x for speed control	GPS receiver	1x for spatial positioning	
barometer	1x for calculation of altitude			

Ground Control				
pre-flight checks	via logical and intuitive checklist			
basic operations	automatic take-off, flight, data capture and landing			
flight planning	includes typical aerial survey programs in addition to standard flight control			
camera triggering	automated, realtime display			
fail-safe routines	automated			
auto return	upon indications of low battery, airspeed anomaly, abnormal attitude			
fail-safe commands	manually controlled, one-key operation			

Sensor

	Options					
	sensor size	resolution	camera lens	GSD	height flight	single flight coverage
DLSR	35.9*24.0 mm	7952*5304	35 mm	5 cm	387 m	24 sq.km
	full frame			10 cm	775 m	46 sq.km
double-lens	35.9*24.0 mm	7360*4912	35 mm	3.5 cm	251 m	7 sq.km
	full frame			5 cm	358 m	11 sq.km
5-lens	23.5*15.6 mm	6000*4000	35/20 mm	3.5 cm	178 m	12 sq.km
	APS-C			5 cm	255 m	18 sq.km

Note: The 150-minute flight performance results from clear weather with gentle breeze or no wind, Temperature between 10°C-25°C, properly and fully charged batteries, plus well-trained operation. For safety reasons, it is strongly recommended not to reach the limit.



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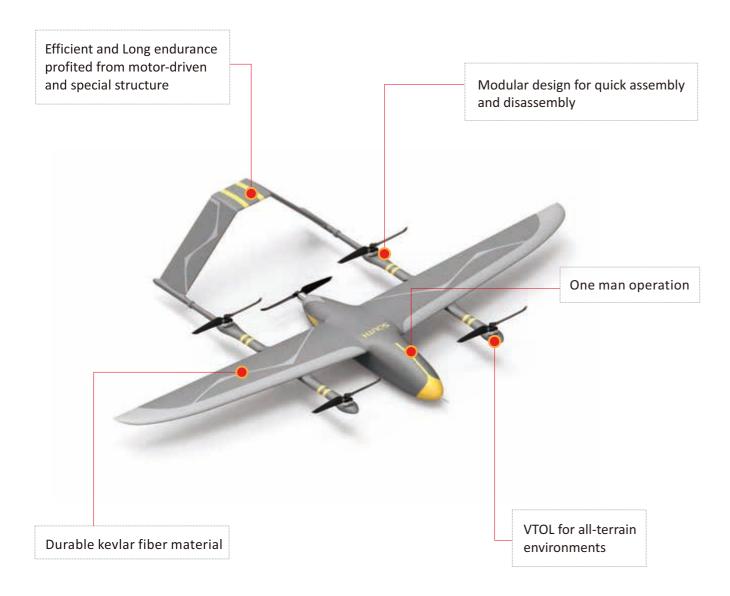


SKYCRUISER MF2500

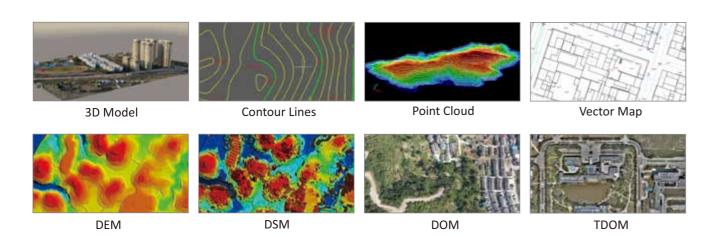




Illustration



OUTPUTS



Features

• 150-minute endurance

With the 150-minute long endurance and 180km-flight range, the MF2500 is better than other VTOL UAV on the market, Accessory: two sets of batteries (300 minutes enough to work one day).

Multiple and Flexible payload
 Flexible payloads meet different requirements.





High-precision direct geo-referencing
 Down to 1cm±1ppm accuracy with inbuilt RTK/PPK module, high
 precision on demand, no GCPs required.



Accessible to CORS For differential corrections directly, independent to ground base station.



VTOL 120m

It is easy to work in complex terrain with the 120m VTOL, the MF2500 is better than other VTOL UAV on the market.

