

	Model	MF2500
Aircraft System	aircraft type	VTOL (vertical takeoff and landing)
	system structure	modular design
	wingspan	250cm
	length	148cm
	payload	1-2kg
	take-off weight	11kg
	propulsion system	electric pusher propeller
	power supply	lithium polymer battery
	battery power(fixed wing)	38500mAh*1
	battery power(rotor)	3700mAh*2
	body material	kevlar fiber material
	Flight Performance	take-off method
landing method		vertical landing
practical ceiling		5500m
cruising speed		typical 21m/s(75km/h)
endurance		best up to 150 minutes
single flight range		maximum 180km
single flight coverage		maximum 46 sq.km/GSD 10cm
landing space		vertical landing within 1m
Operation Performance	pre-flight setup	10minutes
	control model	autopilot
	radio communication range	3-20km
	transmitting power	1-2W
	weather limit	beaufort scale 6 (10.8-13.8m/s)
	operating temperature	-10°C to 45°C
	environmental humidity	90% condensing
Onboard Sensor	autopilot	1x for auto cruise
	airspeedometre	1x for correcting airspeed
	accelerometer	5x for speed control
	barometer	1x for calculation of altitude
	magnetometer	1x for magnetic heading
	gyroscope	1x for measuring aircraft angle
	GPS receiver	1x for spatial positioning
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