



SKYROBOT™ FX450

Unmanned Aircraft System

SkyRobot™ FX450 is a high performance unmanned fixed wing aircraft optimized for cost effectiveness, heavy payload, long endurance (20 hours with 10 kg payload), modularity, and safe operations.

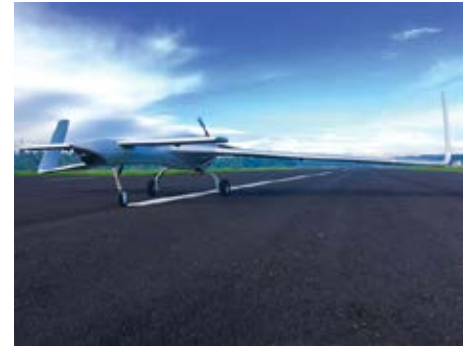
SYSTEM DESCRIPTION

SkyRobot™ FX450 is an unmanned aircraft system with an integrated mission management system which provides special capabilities for beyond line of sight (BLOS) operations. The system is based on manned aircraft standards with robustness and reliability for various weather conditions. SkyRobot™ FX450 has very low energy consumption compared to manned aircraft with the same size payload and performance.



KEY FEATURES

- Aerodynamically high performance¹ unmanned aircraft for operational flexibility
- Cost effective solution for an aircraft with similar performance and payload capability
- Fuel efficient aircraft engine with EFI and starter, runs on gasoline, JP-5, or JP-8
- Advanced triple redundant flight control system including management unit and communication system
- Different communication and datalink options, live video streaming up to 200 km, with high bandwidth communication option (also option for encrypted communications)
- Open architecture allows integration of customized payloads
- Rugged ground control station with IP/Ethernet based features including external log in, distant monitoring and operational control, and a robust transport case
- Wide range of advanced payload configurations, including external sensor pods, geo-referenced EO/IR, Tracking, Radar, Lidar, multi/hyper spectral, & HD live video



¹ The performance may vary depending on the payload and environmental conditions
² Fuel and external payload

Typical application areas

- National security and border surveillance
- Emergency
- Inspections and monitoring (BLOS)
- Resource management



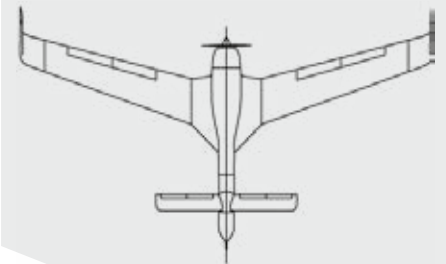
Performance¹

Endurance	Up to 20 hours
Range	2000 km+
Service ceiling	4000 m
Cruise speed	35 m/s (68 knots)
Stall speed	20 m/s (39 knots)
Vne (Never exceed speed)	60 m/s (115 knots)



Technical specification

Wing span	7.2 m
Aircraft length	4.0 m
Empty weight	80 kg
MTOW	180 kg
Payload	100 kg ²
Engine	2 Stroke, 28 kW
Fuel	Gasoline, Heavy Fuel
Safety system	Ballistic parachute
Onboard power	Up to 3000 W
Take off	Runway (200 m)
Landing	Runway (400 m)



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