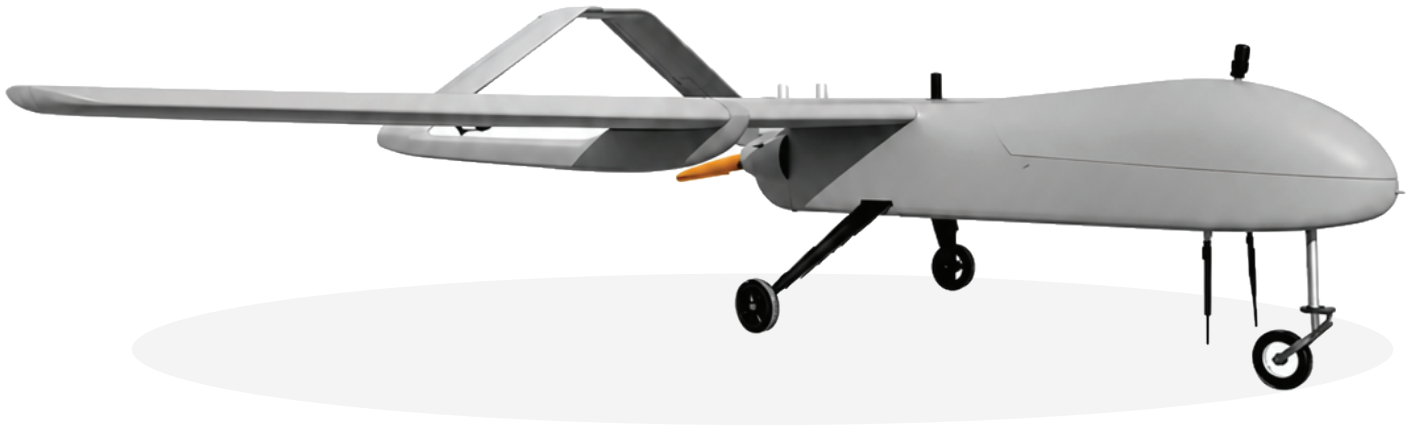


# SKYBOT-5



Fixed Wing VTOL UAV

Heavy Payload Tactical/Surveillance Platform



The Fixed Wing VTOL UAV is a rugged, high-endurance unmanned aerial platform designed for surveillance, reconnaissance, mapping, logistics support, and payload deployment applications.

The platform combines vertical take-off and landing capability with the range and efficiency of fixed-wing flight.

Built on a military / industrial-grade composite structure, it is designed for field deployment, operational reliability, and mission flexibility.



## KEY FEATURES

- Fixed Wing VTOL configuration
- Payload carrying capacity up to 5 Kg Composite carbon / nylon rugged airframe
- Water-resistant and field-deployable structure
- Industrial-grade flight control system
- Locally compliant avionics and electronics
- Indigenous ESC integration with telemetry
- Multi-constellation GNSS support
- Differential airspeed sensing (OPTIONAL)
- Lift and cruise propulsion architecture



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## Airframe & Hardware Specifications

Parameter	Specification
Airframe Type	FixedWingVTOL UAV (modular composite structure)
Material	Carbon / Nylon / Reinforced Composite
Payload Capacity	Up to 5 Kg
Payload Mounting	Nose-mounted / Mission configurable
Motors	BLDC motors (separate lift & cruise)
Propellers	Carbon/Nylon, factory-balanced
ESC	Indigenous ESC with telemetry
Flight Controller	Industrial-grade FC with GNSS & telemetry support

## Avionics, Performance & Environmental Specs

Parameter	Specification
GNSS Support	GPS, GLONASS, Galileo, BeiDou
Airspeed Sensor	Differential, $\pm 1$ accuracy, up to 200 km/h (Optional)
Operating Temperature	-10°C to +50°C
Humidity Tolerance	>90%
Deployment	Field-deployable, rugged outdoor operation
Mission Modes	Waypoint, VTOL transition, RTL, Loiter, Failsafe

