

ShadowfaxUAS

Relentless Persistence



SHADOWFAX SF30

The ShadowfaxUAS SF30 is a class-leading, versatile, cost-effective, compact, long-endurance, long-range, VTOL Group 3 surveillance and reconnaissance uncrewed aerial solution.

The SF30 was designed for a flight duration of 10 hours, a maximum payload capacity of 7kg/15 lbs and a flight range of 800km/500 mi, rivalling the performance of UAVs twice its size, but at a significantly lower price point and much smaller logistical footprint.

The platform was designed to carry a wide variety of high-quality sensors within its 40 litre/1.4 cubic foot, highly accessible payload bay.

The SF30 offers robust vertical take-off and landing capability, allowing it to operate in unforgiving environments. It can take off and land anywhere - even from the top of a vehicle - and is completely runway and launch equipment independent.

The UAV disassembles into a light 1.7m/5.6 ft long transport box, which allows for transportability in rugged environments with small vehicles. It is fully operational with two crew members.

The UAV features a modular forward propulsion engine unit which can be swapped out in seconds, permitting easy maintenance and significantly improved reliability and platform availability and utilisation. Reliability and high system availability has further been enhanced by using best-in-class equipment on board. The forward propulsion engine, VTOL motors, speed controllers and actuators were specifically designed for use in UAVs.

The platform is capable of carrying a wide range of communications equipment, including satcom, encrypted MIMO radios and cellular, offering extensive operational range.

The UAV is ITAR FREE, offering easy export capability to most countries.

Shadowfax UAS (Pty) Ltd is a registered exporter of unmanned aerial systems with the South African Arms Control Committee.

SF30 SPECIFICATIONS

Flight performance:

- Endurance: 10 hours
- Payload: 7 kg/15 lbs
- Sortie range: 800 km/500 mi
- Maximum altitude: 4000m/13,200 ft
- VTOL

Environmental operational range:

- Temperature: -10 to 50 °C
- Wind: <20kts

Dimensions:

- Wing span: 4,132 m/13.56 ft
- Maximum all up weight: 35 kg/77 lbs
- Takeoff area required: 6 m x 6 m/20 x 20 ft
- Transport case: 1.7m x 0.7m x 0.6m/
5.61 x 2.31 x 1.98 ft

Propulsion system:

- VTOL: Electric quadrotor with position-locking propellers
- Forward propulsion: Four-stroke gasoline UAV engine with EFI
- Integrated fuel level and fuel consumption sensor
- On-board power: 300-550W, user-defined voltages

Communications:

- Encrypted MIMO Radio: 150 km/80 mi
- Cellular: Only limited by 4G service coverage
- Satcom: Unlimited

Operations Crew:

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