

Magni-X

Micro Multi-Rotor SRR Platform



The Magni-X VTOL (vertical takeoff and landing) Micro-UAS is a military fully autonomous multi-rotor platform with the most advanced close-range observation system. Though suited for a wide range of missions and applications, the Magni-X is specially designed for Short Range Reconnaissance (SRR) and for the urban arena, providing day and night intelligence imagery powered by advanced AI algorithms for tactical combat units.

The Magni-X military grade FCC (flight control computer), along with powerful HW processing capability and unique navigation solutions, makes it ideal for intelligence applications in hostile environments.

Magni-X is powered by the NEVO – advanced mission software that provides the operator with all the necessary flight data and real-time video images to enable effective execution of the mission.

NEVO provides support from early stage of flight plan, speed and altitude throughout mission stages, routes, take-off / landing sites (before and during the mission), target coordinates, etc.

The capability to autonomously execute the mission enables the operator to focus on monitoring the targets by controlling the payload on the NEVO.

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Key Features

- Fully autonomous military tactical sUAS
- Military grade FCC (flight control computer)
- Classification and object tracking capability using advanced AI algorithm
- Object detection & obstacle negotiation capability
- Return home integrated capability upon GPS blocking
- Advanced and immune data link - using antenna diversity scheme
- Very low radar and acoustic signature
- TRL9 platform

Specifications

- System weight light configuration 2kg
- System weight long endurance conf. Up to 3.2kg
- Endurance 20/40/50 minutes respectively
- Range Up to 5km
- Operational speed 0-45 kph
- Max operational alt (ASL) 4000ft
- Max payload 450g
- Data link L/S-Band & LTE (optional)
- Nighthawk 2 / Nighthawk 2 UZ - EO/IR payload
- Full integrated operational solution

Operational advantages

- Advanced tactical combat suite supporting rapid deployment
- Agile flight control & precision landing
- Advanced mission control software - NEVO
- On-board computing power supporting advanced AI algorithms
- GPS-denied environment capability



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