

VAPOR[®] 35 ALL-ELECTRIC HELICOPTER UAS



With advanced autopilot and a variety of available sensors, the all-electric VAPOR 35 Helicopter UAS provides the operational flexibility to meet your most demanding missions. Featuring military-grade components, intelligent HW/SW system design, and high energy density lithium-polymer battery, VAPOR delivers enhanced flight stability and up to one hour of flight time on a single battery charge.

Multi-mission capable, VAPOR 35's modular payload bay provides access to a variety of available integrated sensors and third party payloads including gimballed EO/IR, survey grade PPK mapping, LiDAR and hyperspectral sensors. VAPOR 35's economical packout and single case mission configuration enables one-man lift operation. Every VAPOR Helicopter UAS incorporates proprietary HeliSynth™ technology for system level optimization including advanced autopilot, payload control & operation, and mission performance efficiency.

HIGH PERFORMANCE GPS
GPS/GLONASS receiver

ADVANCED BLADE DESIGN
High performance aerodynamic blade design with increased gust rejection

ADVANCED FLIGHT CONTROL SYSTEM
Robust, industry leading Autopilot and FCS

DATA LINK
900 MHz, 2.4 GHz, 5.8 GHz

BATTERIES
High performance lithium-polymer batteries with industry leading energy density

MODULAR PAYLOAD BAY
Accommodates high quality sensors with flight control system driven camera triggering

WIDE STANCE LANDING GEAR
The wide stance landing gear configuration guarantees stable landings even on rough terrain



SPECIFICATIONS

GROSS WEIGHT 32 lbs (14.5 kg)

USEABLE PAYLOAD 5 lbs (2.27 kg)

GROUND SPEED LIMIT 33 mph (15 m/s)

MAX ENDURANCE Cruise: 60 mins, Hover: 45 mins

RANGE 35 miles (56 km)

DIMENSIONS Aircraft: 6.4 ft (1,941 mm) x 2.1 ft (625 mm) x 1.6 ft (493 mm)
Rotor Diameter: 5.6 ft (1,704 mm)

OPERATING ALTITUDE 0-12,000 MSL

MAX WIND PEAK 20 kts (23 MPH); Gusts 40 kts (45 MPH)

DATA LINKS 900 MHz, 2.4 GHz, 5.8 GHz, Satellite

PAYLOAD OPTIONS



EO/IR Sensor



Lidar



Hyperspectral



PPK Mapping

KEY FEATURES

- **Precision Flight Control Performance**
 - Fully automatic flight operation allows VAPOR to complete missions without operator intervention, with dynamic re-tasking to ensure safety, reliability and mission execution
 - Advanced Blade Design and 3 Blade Rotor with low RPM deliver enhanced flight stability, increased gust rejection and maximized payload performance
- **Endurance** – Up to one hour of flight time on a single battery charge
- **Automated Mission Execution** – Enables operators to plan, simulate and execute missions automatically
- **Payload Flexibility** – Choose from available integrated sensors or custom-configure with third party payloads

NEED MORE OPTIONS?

Contact your AV Representative to discuss Payload Integration and Custom Configuration options.