

# VAPOR<sup>®</sup> 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**  
Survey Grade GPS/GLONASS receiver with optional RTK

**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 command/control link with optional 2.4 GHz high bandwidth payload link

**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)

900 MHz, 2.4 GHz, 5.8 GHz, Satellite

**DATA LINKS**



**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.