



VAPOR[®] 55 ALL-ELECTRIC HELICOPTER UAS

The all-electric VAPOR 55 Helicopter UAS delivers flight control performance, endurance, and payload flexibility. 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.

With an expansive modular payload bay, and up to 10 lb useable payload capacity, VAPOR is multi-mission capable, with access to a variety of available integrated sensors and third party payloads including EO/IR, survey grade PPK mapping, LiDAR and hyperspectral sensors, and Drop/Delivery Mechanism. Every VAPOR Helicopter UAS incorporates proprietary HeliSynth™ technology for system level optimization including advanced autopilot, payload control & operation, and mission performance efficiency.

Versatile Payload Flexibility

VAPOR® 55

DISTINCTIONS



» RANGE
8 km



» ENDURANCE
Cruise: 60 min, Hover: 45 min



» USEABLE PAYLOAD
10 lb (4.5 kg)



» GROSS WEIGHT
55 lb (24.9 kg)

SPECIFICATIONS

GROSS WEIGHT	55 lb (24.9 kg)
USEABLE PAYLOAD	10 lb (4.5 kg)
GROUND SPEED LIMIT	22 mph (10 m/s)
MAX ENDURANCE	Cruise: 60 min, Hover: 45 min
LINK RANGE	8 km standard GCS
DIMENSIONS	Aircraft: 8.4 ft x 2.2 ft x 1.9 ft (2.56 m x 0.67 m x 0.58 m) Rotor Diameter: 7.5 ft (2.29 m)
OPERATING ALTITUDE	0-12,000 ft (3,657 m) MSL (density)
MAX WIND PEAK	Sustained: 27 km/h (15 kts), Gust: 37 km/h (20 kts)
DATA LINKS	900 MHz, 2.4 GHz, 5.8 GHz, Satellite



EO/IR Sensor*



Lidar



Hyperspectral

PAYLOAD OPTIONS



PPK Mapping

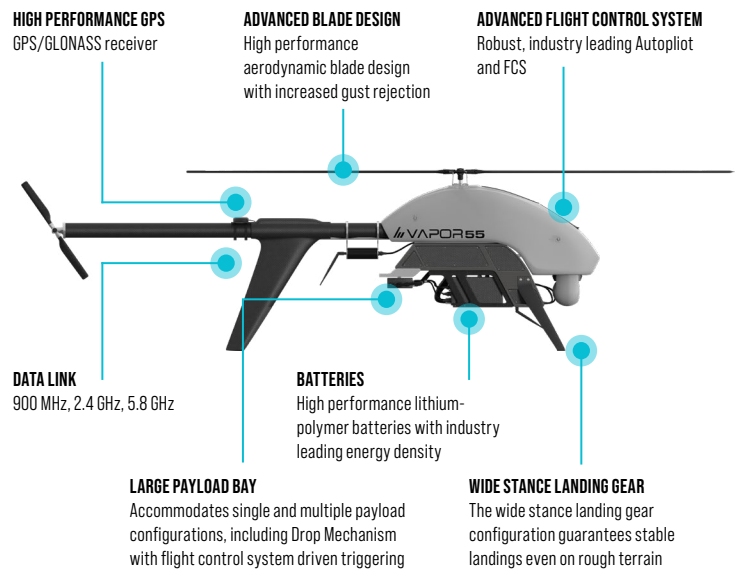


Drop Mechanism



Multi-Payload

*System comes standard with EO/IR Sensor. Contact your AV Representative to discuss Payload Integration and Custom Configuration options.



KEY FEATURES

- » Precision flight control performance
 - » Fully automatic flight operation allows VAPOR to complete missions without operator intervention, with dynamic retasking 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