



VAPOR® 55 MX ALL-ELECTRIC HELICOPTER UAS

The VAPOR® 55 MX all-electric helicopter unmanned aircraft system (UAS) is extremely versatile and can be easily configured to support a variety of mission requirements for defense, commercial and industrial applications. The all-weather VAPOR UAS incorporates a modular design that makes integration of high-performance single or multiple sensor payloads quick and easy. It features a sleek, modular, low-profile design that is rugged and portable with its telescoping tail and fold-up landing gear. Specifically built for heavier payloads and longer distances, VAPOR is unmatched by any quadcopter or other helicopter UAS with its 24-pounds of flexible payload capacity, and up to 105 minutes of endurance with a 3rd battery option.

SPECIFICATIONS

| | |
|---|---|
| OPTICAL SENSOR | Trillium HD-25 (standard), Other options HD-45-LV-CZ, HD-45-CZ-GS, HD-55-LV-CZ, HD-55-MV HD, HD-25-LV |
| GROUND SPEED LIMIT | 33 mph (15 m/s) |
| DIMENSIONS | Aircraft: 6 ft x 2.2 ft x 2.1 ft (1.8 m x 0.67 m x 0.64 m) // Rotor Diameter: 7.5 ft (2.29 m) |
| OPERATING ALTITUDE* | 0-12,000 ft (3,657 m) MSL (density) |
| ENVIRONMENTAL OPERATIONAL LIMITS | Min: 0 °F (-17 °C) // Max: 120 °F (49 °C) |
| MAX WIND PEAK* | Sustained: 34.5 mph (30 kts) |
| DATA LINKS | 900 MHz, 2.4 GHz or 5.89 GHz (video), Persistent Systems MPU5 (Standard), options Silvus, DTC |
| GROUND CONTROL | Live GPS position, full authority control, automatic or manual flight |

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Built for Heavier Payloads & Longer Distances

VAPOR® 55 MX

DISTINCTIONS



» **RANGE**
Up to 19.8 miles (32 km)



» **ENDURANCE**
Cruise: 75 min, Hover: 60 min (2-batteries)*
Cruise: 105 min, hover: 80 min (3-batteries)*



» **USABLE PAYLOAD****
Up to 24 lb (10.9 kg)



» **GTOW WEIGHT***
Up to 68 lb (30.8 kg)



HARDCASE PACK OUT
12.9 in height x 16.1 in depth x 45.5 in width



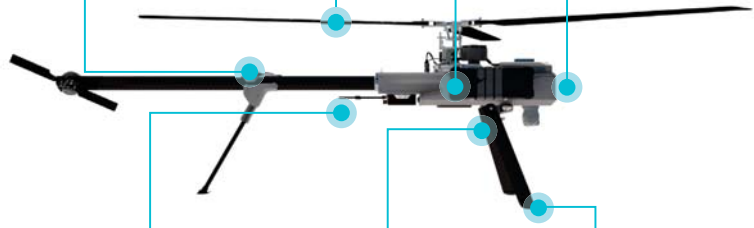
RUCKSACK PACK OUT
25 in height x 9.5 in depth x 14.3 in width

HIGH-PERFORMANCE GPS
GPS/GLONASS receiver

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

COMMON RADIO INTERFACE CONNECTOR
Allows for easy swapping of radios (Microhard, Silvus or MPU5)

ADVANCED FLIGHT CONTROL SYSTEM
Robust, industry leading autopilot & FCS



COMMON PAYLOAD INTERFACE CONNECTOR
Allows for easy swapping of payloads

LARGER PAYLOAD BAY
With belly-mounted Picatinny rails for quick payload mounting

FOLDING LANDING GEAR
For quick assembly & disassembly

KEY FEATURES

- » *Payload flexibility—payload modules with rail design enables quick & easy payload integration for increased mission flexibility*
- » *Sleek, modular airframe design for easy assembly & disassembly*
- » *Flexible core architecture—key enabler for continuous development that will allow for seamless extensions & upgrades*
- » *Modular radio options—seamlessly operate with a low-cost encrypted radio or swap to hardened military radio*

EXAMPLES OF POSSIBLE PAYLOADS



EO/IR Sensor



SIGINT



Drop Mechanism***



Lidar



Hyperspectral



PPK Mapping



Multi-Payload

*Nose mounted Trillium HD-25 optical sensor Standard

**FAA restricts the max Gross Takeoff Weight (GTOW) of drones operating in the NAS to 55 lb unless you have special authorization.

***With HD-25 - up to a 15-18 lbs droppable payload

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