



## VAPOR<sup>®</sup> 55 MX ALL-ELECTRIC HELICOPTER UAS

The VAPOR<sup>®</sup> 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

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

# 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



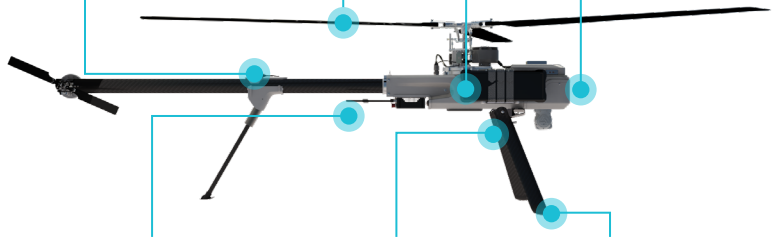
**RUCKSACK PACK OUT**  
25 in height x 9.5 in depth x 14.3 in width

**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