

# 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.

# Built for Heavier Payloads & Longer Distances

VAPOR® 55 MX

## \_Distinctions



### RANGE

Up to 19.8 miles (32 km)



### ENDURANCE

2-Battery<sup>1</sup>  
Cruise: 75 min,  
Hover: 60 min  
3-Battery<sup>1</sup>  
Cruise: 105 min,  
Hover: 80 min



### USEABLE PAYLOAD

Up to 24 lb (10.9 kg)



### GTOW WEIGHT<sup>2</sup>

Up to 68 lb (30.8 kg)

## \_Specifications

<b>OPTICAL SENSOR</b>	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
<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

1. Nose mounted Trillium HD-25 optical sensor Standard
2. FAA restricts the max Gross Takeoff Weight (GTOW) of drones operating in the NAS to 55 lb unless you have special authorization.
3. With HD-25—up to a 15-18 lbs droppable payload



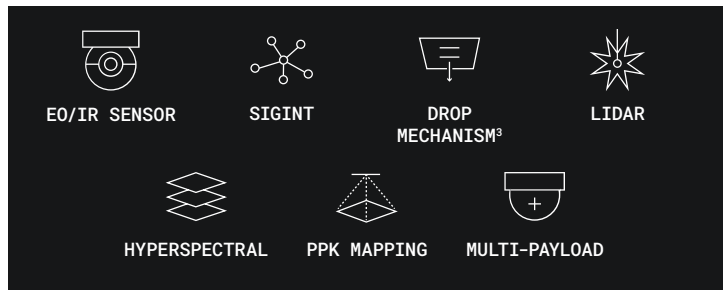
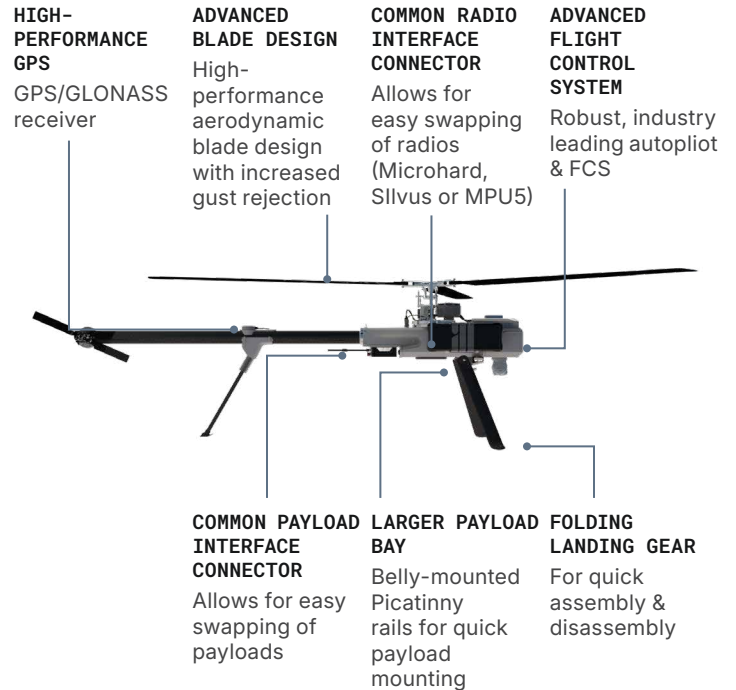
### HARDCASE PACK OUT

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



## \_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

