



## 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 new 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 more rugged and portable with its telescoping tail and fold-up landing gear. VAPOR was specifically built for heavier payloads and longer distances. With its class-leading payload capacity of 10 pounds and 75 minutes of endurance, VAPOR is unmatched by any quad-copter or other helicopter UAS.

# 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



» **USABLE PAYLOAD**  
Up to 20 lb (9 kg)



» **GTOW WEIGHT\***  
Up to 65 lb (29.5 kg)

## SPECIFICATIONS

<b>RANGE</b>	Up to 20 miles (32 km) with Silvus & MPU5 radios
<b>GTOW WEIGHT*</b>	55 lb (24.9 kg) for commercial use 65 lb (29.5 kg) defense missions with less endurance
<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>USABLE PAYLOAD*</b>	10 lb (4.5 kg) @ 55 lb GTOW, Up to 20 lb (9 kg) @ 65 lb GTOW
<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), MicroHard (Standard), options Silvus, Persistent Systems, DTC
<b>GROUND CONTROL</b>	Live GPS position, full authority control, automatic or manual flight

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

## EXAMPLES OF POSSIBLE PAYLOADS



EO/IR Sensor



SIGINT



Drop Mechanism\*\*



Lidar



Hyperspectral

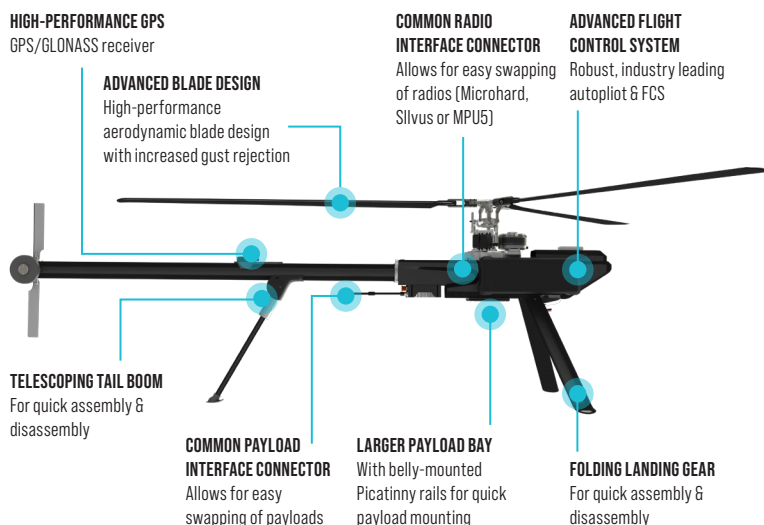


PPK Mapping



Multi-Payload

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



## 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*
- » *Telescoping tail & folding landing gear for greater portability*
- » *Maintenance friendly with no belts to change; increased mean time between overhauls & lower life cycle cost*
- » *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*

