



VAPOR® 55 MX ALL-ELECTRIC HELICOPTER UAS

The VAPOR® 55 MX all-electric helicopter unmanned aircraft system 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 55 MX 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 distance with its class-leading payload capacity of 10 pounds with 75 minutes of endurance is unmatched by any quad-copter or other Helicopter UAS.

Built for Heavier Payloads & Longer Distances

VAPOR[®] 55 MX

DISTINCTIONS



» **RANGE**
Up to 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

RANGE	Up to 20 miles (32 km) with Silvus & MPU5 radios
GTOW WEIGHT*	55 lb (24.9 kg) for commercial use 65 lb (29.5 kg) defense missions with less endurance
USABLE PAYLOAD*	10 lb (4.5 kg) @ 55 lb GTOW Up to 20 lb (9 kg) @ 65 lb GTOW
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 5.8 GHz (Video), Silvus, Persistent Systems, MicroHard
GROUND CONTROL	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

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

TELESCOPING TAIL BOOM
For quick assembly & disassembly

COMMON PAYLOAD INTERFACE CONNECTOR
Allows for easy swapping of payloads

20% 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*
- » *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*