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 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**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RANGE</strong></td>
<td>Up to 20 miles (32 km) with Silvus &amp; MPU5 radios</td>
</tr>
<tr>
<td><strong>GTOW WEIGHT</strong></td>
<td>55 lb (24.9 kg) for commercial use</td>
</tr>
<tr>
<td></td>
<td>65 lb (29.5 kg) defense missions with less endurance</td>
</tr>
<tr>
<td><strong>USABLE PAYLOAD</strong></td>
<td>10 lb (4.5 kg) @ 55 lb GTOW, Up to 20 lb (9 kg) @ 65 lb GTOW</td>
</tr>
<tr>
<td><strong>GROUND SPEED LIMIT</strong></td>
<td>33 mph (15 m/s)</td>
</tr>
<tr>
<td><strong>DIMENSIONS</strong></td>
<td>Aircraft: 6 ft x 2.2 ft x 2.1 ft (1.8 m x 0.67 m x 0.64 m)</td>
</tr>
<tr>
<td></td>
<td>Rotor Diameter: 7.5 ft (2.29 m)</td>
</tr>
<tr>
<td><strong>OPERATING ALTITUDE</strong></td>
<td>0-12,000 ft (3,657 m) MSL (density)</td>
</tr>
<tr>
<td><strong>ENVIRONMENTAL OPERATIONAL LIMITS</strong></td>
<td>Min: 0 °F (-17 °C)</td>
</tr>
<tr>
<td></td>
<td>Max: 120 °F (49 °C)</td>
</tr>
<tr>
<td><strong>MAX WIND PEAK</strong></td>
<td>Sustained: 34.5 mph (30 kts)</td>
</tr>
<tr>
<td><strong>DATA LINKS</strong></td>
<td>900 MHz, 2.4 GHz or 5.89 GHz (video), MicroHard (Standard), options Silvus, Persistent Systems, DTC</td>
</tr>
<tr>
<td><strong>GROUND CONTROL</strong></td>
<td>Live GPS position, full authority control, automatic or manual flight</td>
</tr>
</tbody>
</table>

**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

**EXCEPTIONS OF POSSIBLE PAYLOADS**

- EG/IR Sensor
- SIGINT
- Drop Mechanism
- Lidar
- Hyperspectral
- PPK Mapping
- Multi-Payload

**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)

**EXAMPLES OF POSSIBLE PAYLOADS**

- **EO/IR Sensor**
- **SIGINT**
- **Drop Mechanism**
- **Lidar**
- **Hyperspectral**
- **PPK Mapping**
- **Multi-Payload**

**NOTES**

- 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"