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 lb with 75 minutes of endurance is unmatched by any quad-copter or other Helicopter UAS.
**Built for Heavier Payloads & Longer Distances**

### 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)

### 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

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</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; 65 lb (29.5 kg) for defense missions</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; 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>Environment Operational Limits</strong></td>
<td>Min: 0 °F (-17 °C); 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 5.8 GHz (Video); Silvus, Persistent Systems, MicroHard</td>
</tr>
<tr>
<td><strong>Ground Control</strong></td>
<td>Live GPS position, full authority control, automatic or manual flight</td>
</tr>
</tbody>
</table>

**Examples of Possible Payloads**

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

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

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**High-Performance GPS**

- GPS/GLONASS receiver

**Advanced Blade Design**

- High-performance aerodynamic blade design with increased gust rejection

**Common Payload Interface Connector**

- Allows for easy swapping of payloads

**20% Larger Payload Bay**

- With belly mounted Picatinny rails for quick payload mounting

**Telescoping Tail Boom**

- For quick assembly & disassembly

**Folding Landing Gear**

- For quick assembly & disassembly

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*AVOR™ 55 MX*