

Aircraft System

The Vector-P is a complete portable, medium-range UAV (Figure 1) that can operate autonomously and serve as a platform for imaging and chemical sensors, and communications relay components. The aircraft and its systems are modular in design for simple maintenance and replacement of damaged components. The airframe is constructed of carbon fiber, fiberglass, and epoxy.

The Vector-P has a wingspan of 101 inches, an airframe length of 104 inches, a weight of 75 pounds, and a cruise speed of 58-70 knots. The aircraft operates autonomously using a Micropilot 2028G autopilot system. The 2-stroke engine operates using gasoline.



Figure 1. Vector-P UAV