

Aircraft System

- Description of aircraft system.



Figure 1: Bat 4 UAV

The MLB Bat 4 is a small, unmanned aerial vehicle that is currently operated as a radio controlled aircraft and contains no automatic flight control equipment. The Bat 4 carries an electronics payload that operates independently of the aircraft systems. The Bat 4 has a gross weight of 55 lbs and a wingspan of 13 ft. It operates from a 100 x 20 meter runway at speeds of 35 to 60 kts. The fuel supply is currently limited to 1 hour flight duration maximum.

The aircraft is constructed of composite materials (foam, fiberglass, Kevlar, and carbon fiber) and machined metal parts. Prototypes have been flight tested and 6 aircraft have been delivered to a customer in academia.