



# Maveric

Maveric RC is a robust carbon fiber plane that can be used as a platform for cameras, communication devices, or atmospheric sensors. The unique folding wing allows for easy transport and quick deployment. Maveric’s proven design is an ideal starting point for research projects involving robot control and coordination, novel aerial sensors, or environmental monitoring.

## Maveric RC Aerial Research Platform

- Ready to fly, tested with trimmed flight controls
- Cost-effective test platform for sensors or instruments
- Very quick to deploy, easily stores in convenient carrying tube
- Includes Maveric Shell (airframe used with Maveric RC), RC controller/receiver, flight stabilization system, Lithium Polymer battery pack, brushless DC motor and folding propeller

## Maveric Shell

- Robust carbon fiber airframe only, install your favorite commercial powertrain and control systems, or design your own
- Several access bays for sensors and instrumentation
- Patented bendable-wing design for instant deployment and easy transport
- Hatches with captured thumbscrews for battery and electronics bay access

## Specifications

### Construction

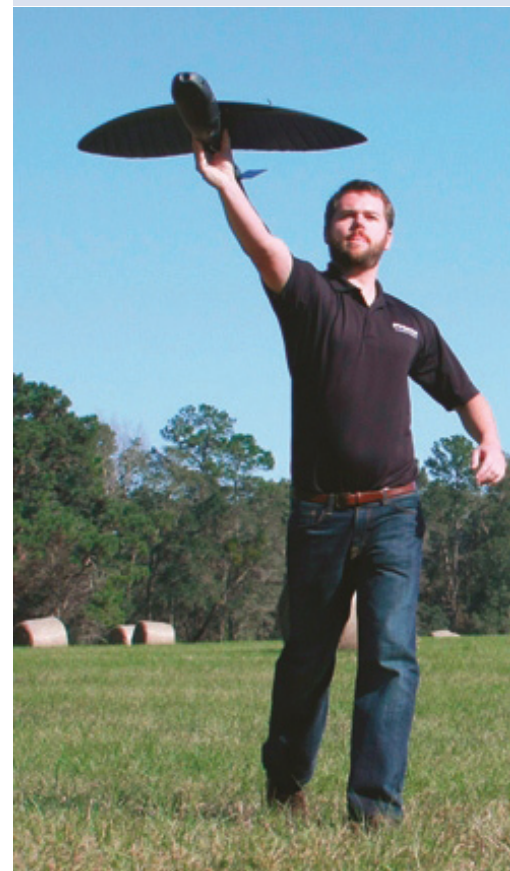
- Material: Carbon fiber
- Control surfaces: Stabilizers and rudders
- Modular nose, tail, fuselage, wing, and payload bay

### Size

- Storage Tube:  
15.2 cm diameter x 78.2 cm length
- Wingspan: 75 cm
- Length: 67.3 cm

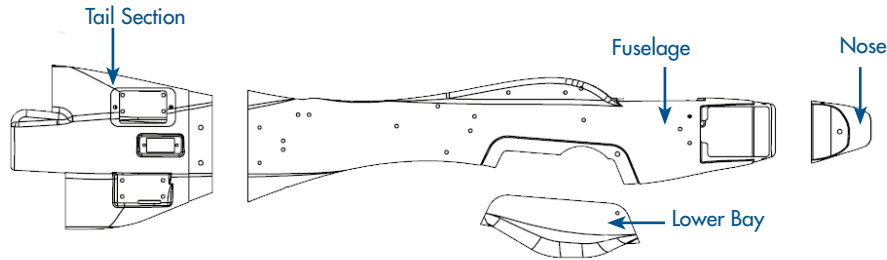
### Performance

- Typical Operating Altitude: 30 - 152 m
- Cruise Speed: 26 knots (48 km/hr)
- Stall speed: 18 knots (33 km/hr)
- Weight: 1.16 kg (standard model)
- Payload: 200 - 300 g  
(configuration-dependent)
- Endurance: 45 to 90 min  
(configuration-dependent)
- Launch method: Hand-launched



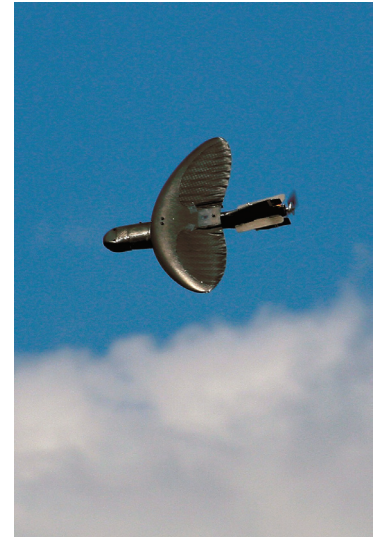
# Maveric RC

## Diagram



### Available Component Bays

Available Component Bays	Total Volume
Nose	132 ml
Fuselage	1607 ml
Lower Bay	296 ml
Tail Section	390 ml



## Included in the Maveric RC

- **Futaba 8FG Radio Set**
  - 8 proportional channels with 2048 resolution
  - Assignable switches/functions
  - Integrated FASST 2.4 GHz
  - Storage for up to 20 model types
  - 128 x 64 backlit LCD display
  - Compatible with 32 MB to 2 GB SD memory cards
  - All-channel & battery failsafe
  - Digital trims and memory
  - Trainer system
  - Sticks with ball-bearing gimbals, length and tension adjustments
  - Radio Set includes:
    - Wall charger
    - 1700 mAh NiMh battery
    - R6008HS receiver
    - Neck strap
- **FY-21AP Flight Stabilizer System w/GPS, RTH Functions**
  - 6 x RC receiver connections
  - 1 x FY-GPS 10Hz Receiver
  - Functions:
    - Return to home
    - Auto-circling over given position
    - Switch-activated altitude hold
    - Flight stabilization
- **Outrunner brushless DC motor**
  - No. of cells: 2 - 4 Li-Poly
  - RPM/V: 840
- **Lithium Polymer 2 x 3 cell battery pack**
- **Lithium Polymer charging system**



Futaba 8FG Radio



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