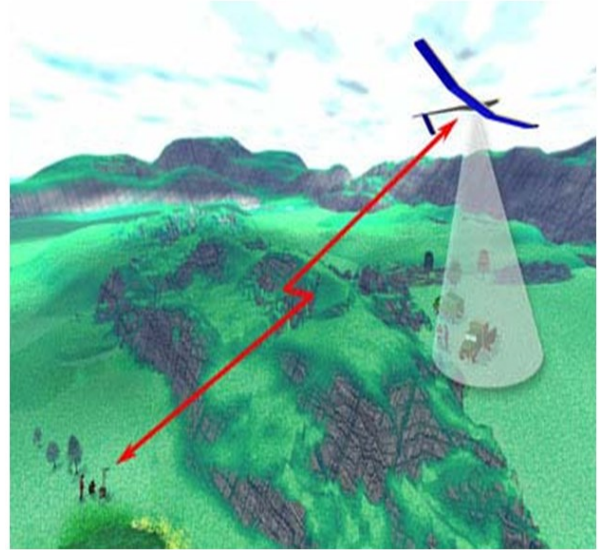
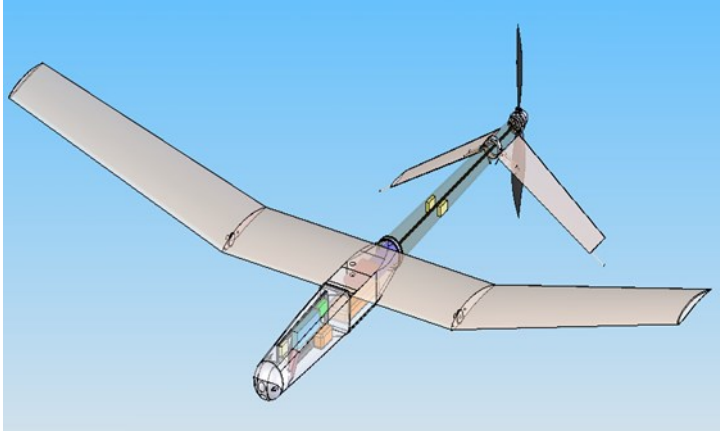


# MARQUES™

A V I A T I O N



MA AirDefence FALCON



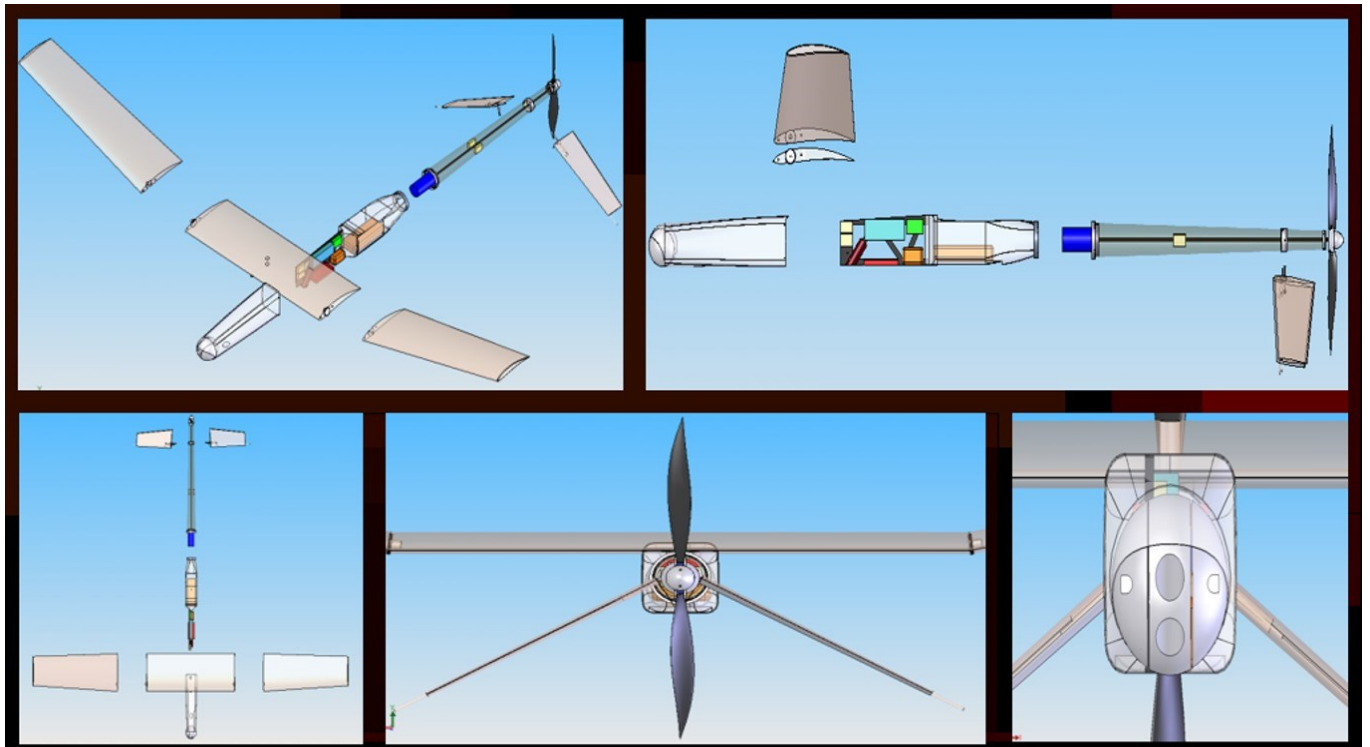
## MA AD FALCON AirDefence

### **CLOSE RANGE UNMANNED AERIAL SYSTEM**

The system is ideally suited for aerial surveillance, scouting missions, area and perimeter aerial control, and highway monitoring and traffic control. It is also suited for search and rescue mission support, patrol and convoy missions, locate and verify area parameter missions, aerial survey, etc.

### **SYSTEM COMPONENTS**

- Durable modular composite air vehicle.
- Quiet and reliable electric propulsion.
- 4 channel UHF uplink receiver and antenna.
- 8 channel microwave (video and telemetry) transmitter and antenna.
- Onboard and ground video switching system (controlled gimbal including 2 different fields of view cameras and a third forward looking fixed camera).
- Advanced miniature GPS navigation autopilot fully autonomous “hands-off” operation from take off to recovery.
- Lightweight waterproof transportation case.



## SPECIFICATIONS

**Wingspan:** 2.2 m  
**Fuselage length:** 1.4 m  
**Launching weight:** 3.5 kg  
**Payload weight:** 1.0 kg  
**Operational range:** 10 km  
**Endurance:** 60 min  
**Speed:** 70-110 km/h  
**Altitude:** 1000 m

## AIRCRAFT

**Airframe:** The airframe has a modular design that is easily disassembled into major components for ease of transport, shipping, and service.

The airframe consists of the following components

- Fuselage: The fuselage is gel-coated and molded from a combination of Kevlar and carbon fiber cloths and completed with the Kevlar ballast tube, which makes it is very rigid.
- Wing: The wing is high-tech carbon fiber composite material D-type design.
- Tail Unit: The V-tail is fully molded and finished in two parts. These parts are removable with quick release joints, and fully movable as ruddervators.
- Power Plant:** The power plant includes a 300 W electric engine with a pusher propeller.
- Power Supply:** The power supply is a Lithium Polimar power storage battery, which provides longer endurance with less weight compared to traditional batteries.
- Launch and Recovery System:** This UAV is hand or bungee launched and recovered by landing in deep stall mode or by deploying a parachute.

## INVESTORS & SALES

MARQUES AVIATION LTD welcomes international investors for the MA AirDefence program.

Contact our representatives to discuss your UAS requirements.



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