

# MARQUES™

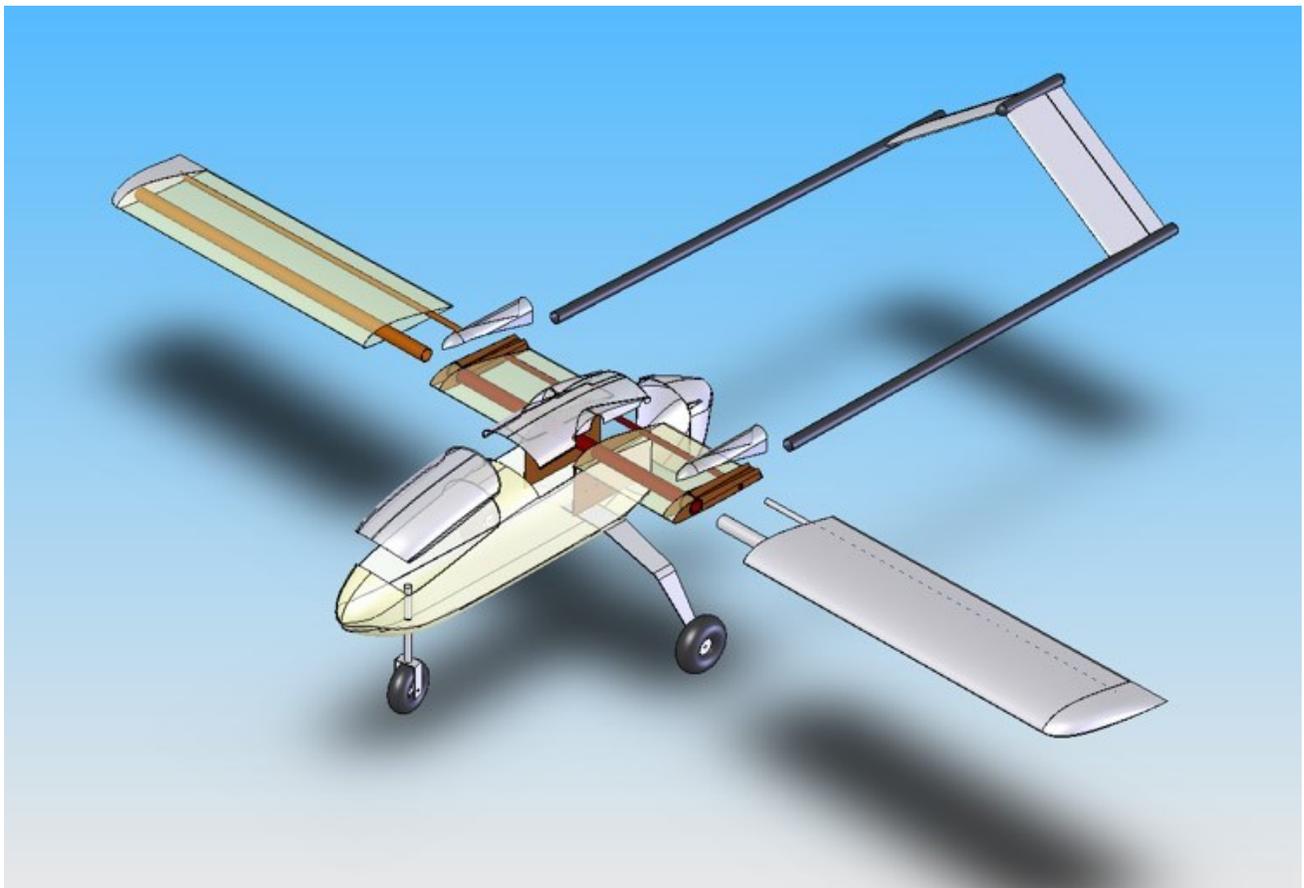
A V I A T I O N



GROUND TO AIR IR MISSILE TRAINING

MA AirDefence AD-2

[www.marquesaviation.com](http://www.marquesaviation.com)



## MA AD-2 AirDefence

### UAV TARGET SYSTEM

The UAV target system is intended for air defense weapon training to evaluate and test the various close-in and short-range air defense weapon systems.

This aerial target is capable of simulating (completely or partially) a variety of air-defense threats.

The target is a recoverable unmanned air vehicle equipped with power plant, automatic flight control system, recovery parachute and modular multi-version mission payloads.

### SYSTEM COMPONENTS

This air defense training and simulation system includes the following standard components:

- Eight air vehicles.
- Ground Control Station (GCS).
- Bungee launcher.
- Ground support equipment.

The system may also include a truck for mobile operations.

## SPECIFICATIONS

- **Dimensions**

Length overall: 1.6 m

Height overall: 0.5 m

Wing span: 2.4 m

- **Weight**

Max launching weight: 30 kg

Max payload weight: 8 kg

- **Performance**

Max level speed: 240 km/h

Operating height range: 3000 m

Max endurance: 120 min

Max operating radius: 10 km



## SYSTEM DESCRIPTION

### AIR VEHICLE

The airframe has a modular design that is easily disassembled into major components for ease of transport, shipping, and service. The airframe is made of glass/ carbon fiber plastics and aluminum alloys with large hatches and removable cowlings that provide easy access to all onboard systems.

### POWER PLANT

Two-stroke piston engine with pusher propeller rated up to 7.5 hp

### FLIGHT CONTROL SYSTEM

The Flight Control System consists of an autopilot system, which is a small computer board that contains onboard software for automatic UAV stabilization and navigation including telemetry and Ground Control Station communication.

### LAUNCH & RECOVERY SYSTEM

The target can be launched from the ground by mobile bungee launcher. The target is equipped with a parachute recovery system. Parachute recovery can be initiated manually from the Ground Control Station, or automatically via mission parameters or emergency procedures.

### MISSION PAYLOADS

The aerial target mission payload corresponds to the type of simulated threat and the employed air defense weapon system. In general the payload may include the following:

- Visual augmentation for optical tracking (continuous or strobe light emitter, smoke generator or smoke cartridges).
- Infrared (IR) augmentation (IR emitter, pyrotechnic tracking flares).
- Radar augmentation aids (Luneberg lenses, corner reflectors).

The payloads can also be mounted underneath the wings to increase the number of presentations.

## INVESTORS & SALES

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

Contact our representatives to discuss your UAS requirements.



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