

MARQUES™

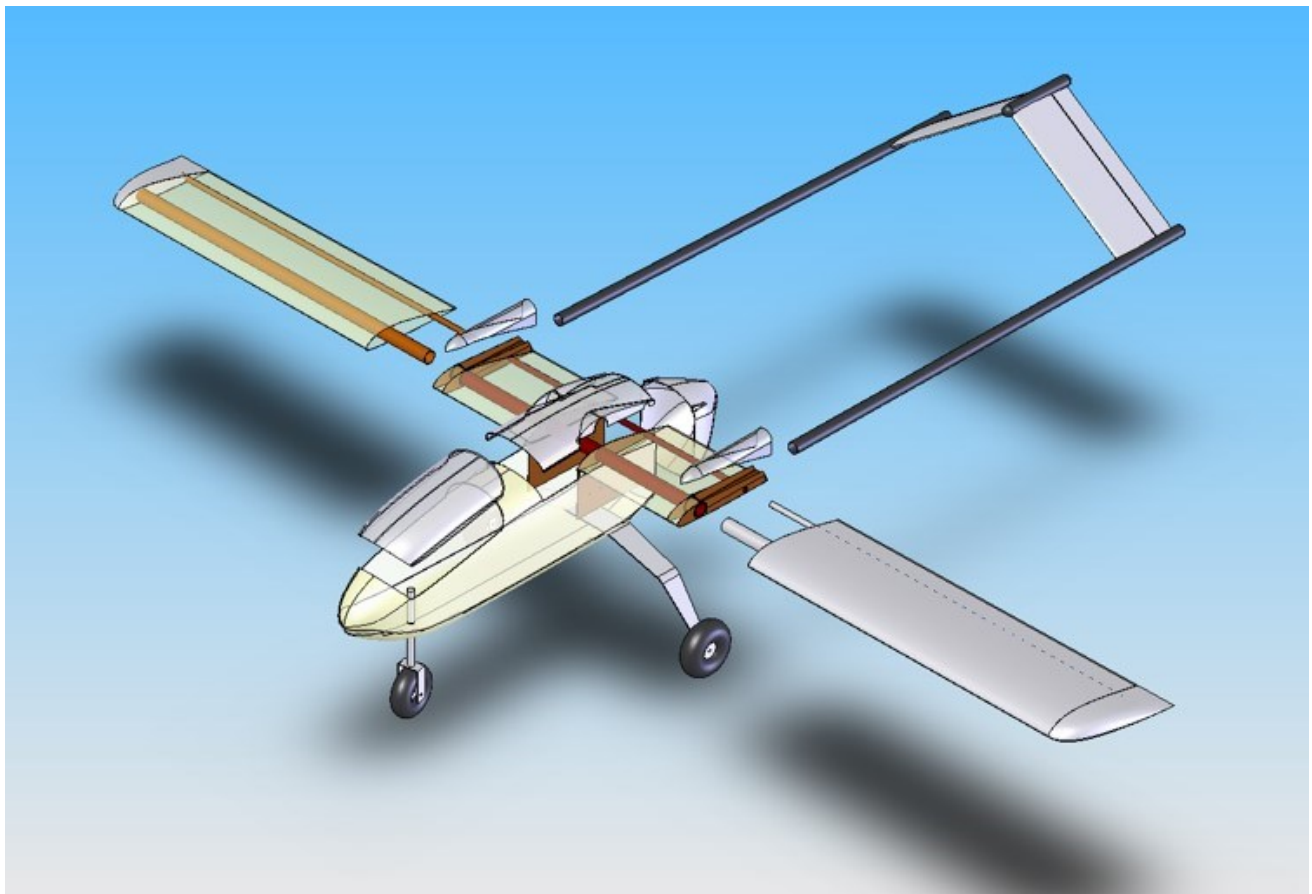
A V I A T I O N



GROUND TO AIR IR MISSILE TRAINING

MA AirDefence AD-2

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 Target program.

Contact our representatives to discuss your UAS requirements.



MARQUES AVIATION LTD.

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