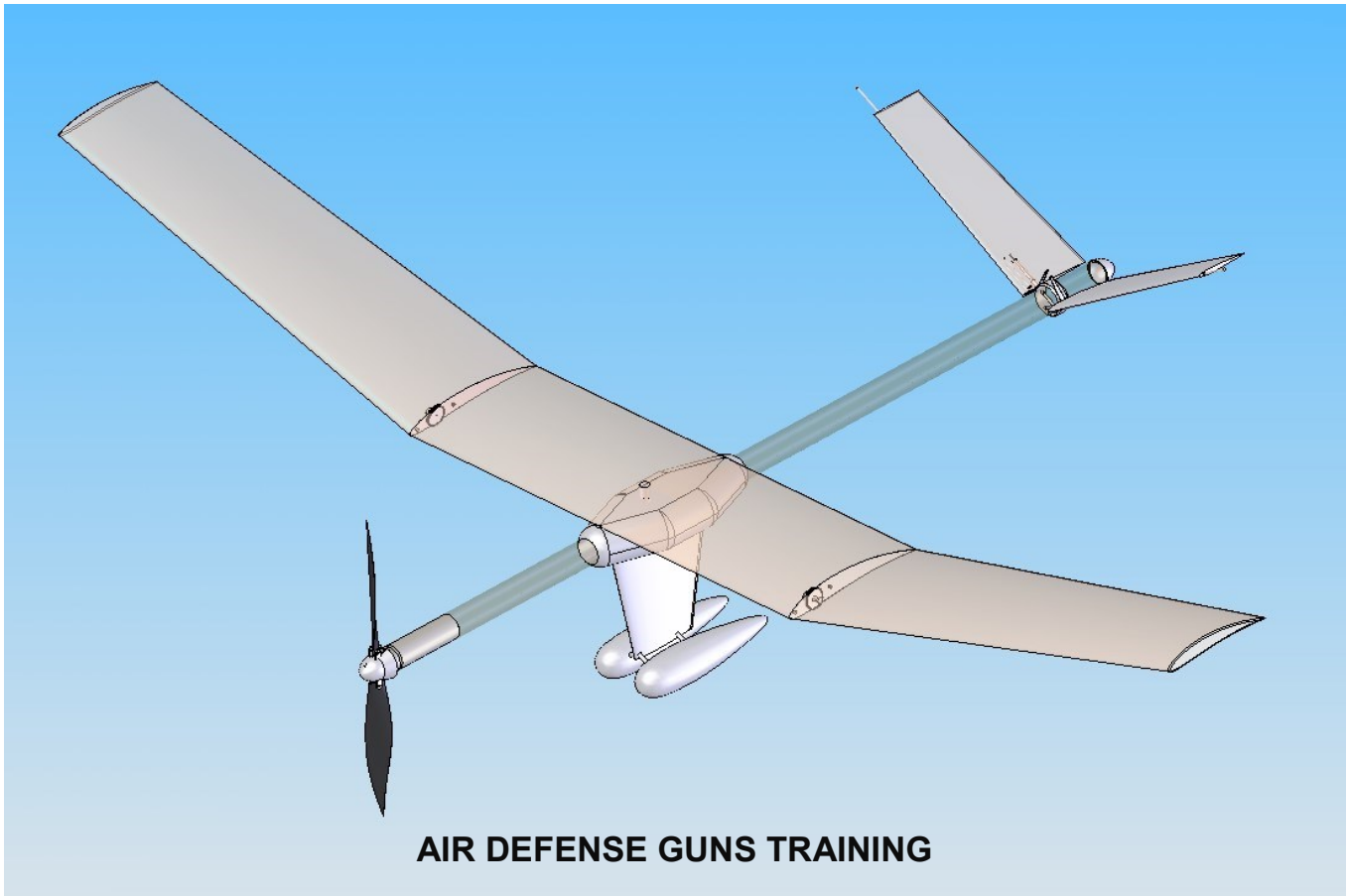


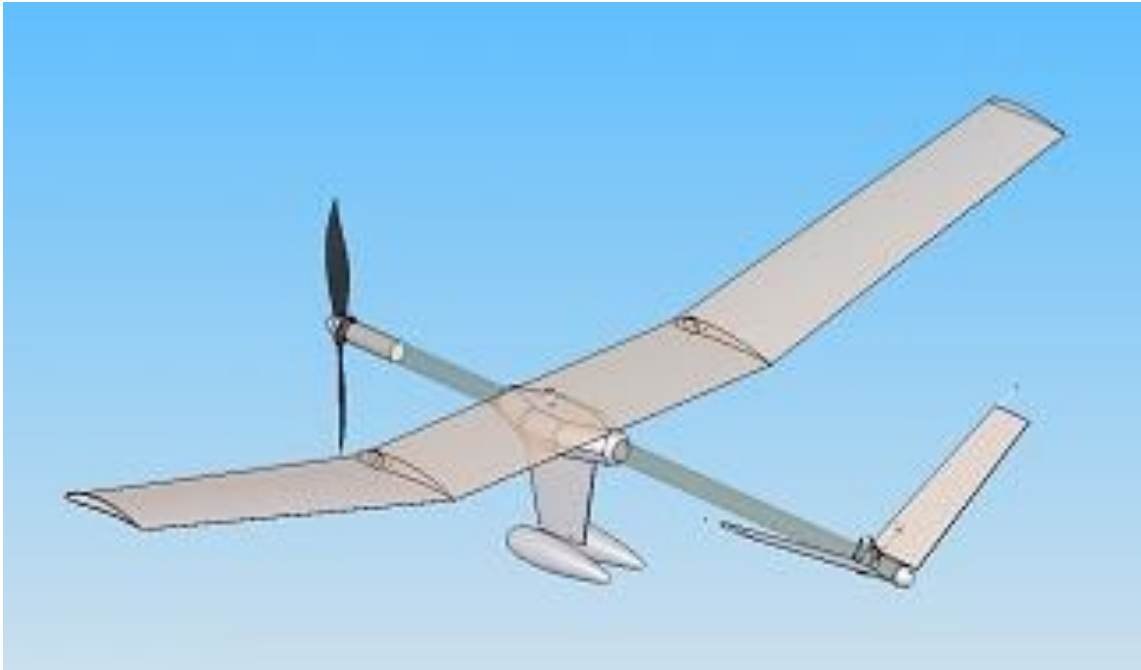
MARQUES™

A V I A T I O N



MA AirDefence AD-3

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MA AD-3 AirDefence

UAV TARGET SYSTEM

The UAV target system is intended for air defense guns training.

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:

- Ten 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: 1.8 m

Height overall: 0.4 m

Wing span: 2.4 m

- **Weight**

Max launching weight: 5 kg

Max payload weight: 1 kg

- **Performance**

Max level speed: 140 km/h

Operating height range: 2000 m

Max endurance: 60 min

Max operating radius: 10 km

SYSTEM DESCRIPTION

AIR VEHICLE

The UAV is a single electric motor, cantilever high wing with a V-tail UAV.

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.

The wing and the V-tail are fully molded and finished in multiple parts. These parts are removable with quick release joints.

POWER PLANT

Electrical brushless motor with a puller folded two-blade propeller.

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 hand or small 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

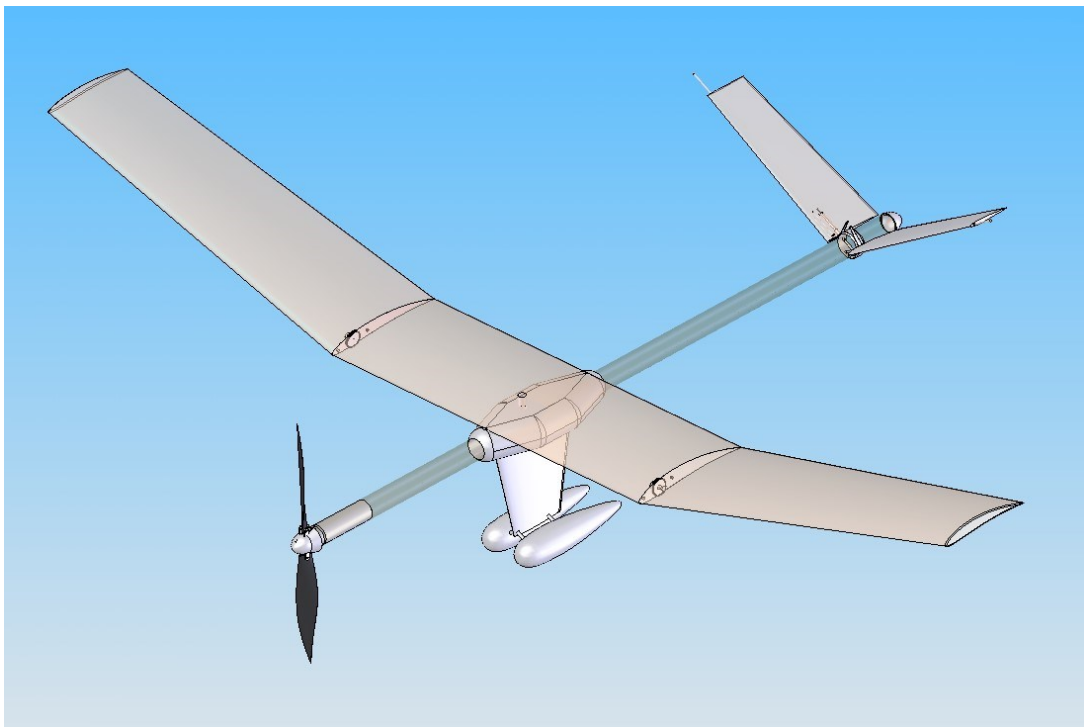
The aerial target mission payload corresponds to the type of simulated threat and the employed air defense weapon system. In general the payload may include the following:

- Visual augmentation for optical tracking (continuous or strobe light emitter, smoke generator or smoke cartridges).
- Infrared (IR) augmentation (IR emitter, pyrotechnic tracking flares).

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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