



INTEGRATED AERIAL TARGET SYSTEM

Mirach 40 is a reusable state-of-the-art multi-threat aerial target system, designed and manufactured completely inhouse.

Proposed worldwide to train and qualify a wide variety of weapon systems, it combines reliability, performance and life-cycle cost effectiveness to make it the target drone system of choice for realistic aerial threat simulation.

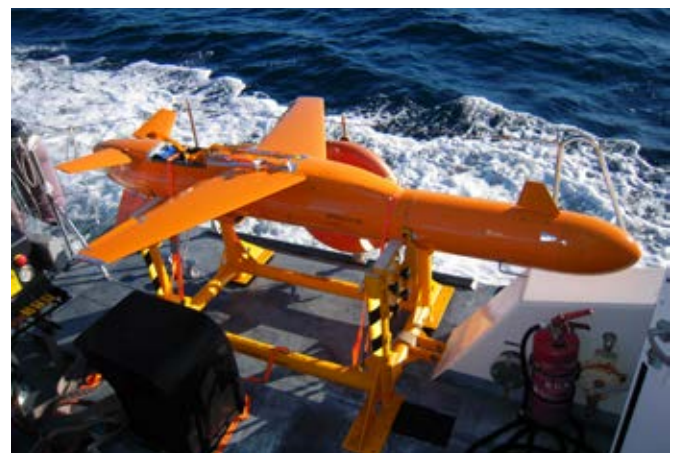
GENERAL DESCRIPTION

Mirach 40 is a true cost-effective subsonic target system, designed to combine great operational flexibility (e.g. rapid adaptation to mission planning changes) with high mission reliability, leveraging on the Mirach family heritage and expertise.

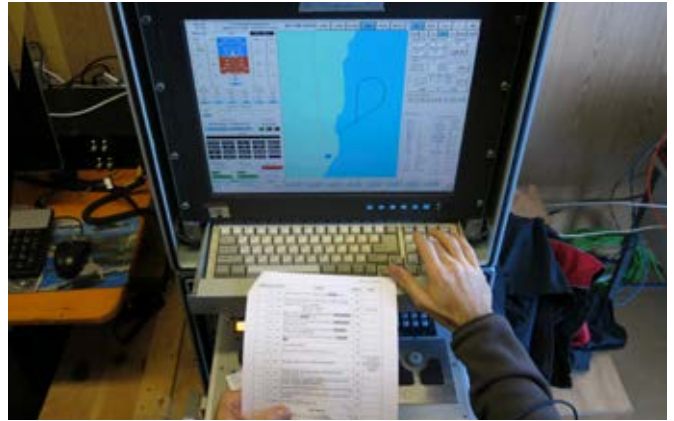
Mirach 40 complements the company's portfolio of Aerial Targets with a cost-effective threat simulator designed specifically for recurrent training activities. It is capable of carrying a wide and flexible range of mission payloads, installed inside the fuselage and under the wings.

This configuration flexibility offers an effective solution to the most complex engagement scenarios required for training, weapons system test and evaluation.

The system simulates many of the common threats, including very-low-altitude sea skimming missions, formation flights, and 3D "g-controlled" manoeuvres within a flight envelope between 5 and over 8000 meters, and a presentation speed up and over 200m/s.



MIRACH 40



KEY FEATURES

- State-of-the-art high subsonic aerial target system
- Operational altitude from 5m to >8000m
- Speed in excess of 200m/s
- Low overall life-cycle costs
- No pyrotechnics involved
- Simulates most of the present-day threats in terms of kinematics and signatures
- ITAR free
- Pneumatic ramp launch
- Efficient recovery and turnaround times
 - Ground <1 hour
 - Sea <3 hours
- Customized turn-key configurations.

The M40 is launched via a pneumatic catapult, which provides benefits in terms of mission reliability and safety/environmental/logistics footprint for the lack of pyro boosters.

The system is controlled by the Mirach Common Ground Control Station and during operations it allows mission planning and re-tasking, while also offering rehearsal and playback options to assist operators training. It can be recovered on ground or sea, with easy handling and a turnaround time of less than one hour for ground recovery and 3 hours for sea recovery.

The system features a fully automated pre-flight test procedure increasing overall mission reliability (reduced operator workload and involvement) and reducing personnel training accordingly.

TECHNICAL SPECIFICATIONS

DIMENSIONS	
Length	2.5m
Wingspan	1.5m
Fuselage diameter	0.2m
MTOW	70kg

PERFORMANCES (ISA)	
Endurance	>60 minutes
Maximum speed Over	200m/s
Operating altitude	5m to over 8000m
Load factor	6G
Maximum payload	15kg

PAYLOADS CONFIGURATIONS

- Active and passive RCS augmenters
- IR augmenters
- Smoke generators
- IR and chaff dispenser (IRCM/A and IRCM/M)
- MDI radar.

