



SKY-Y

Sky-Y is a Medium Altitude Long Endurance (MALE) Technologies Demonstrator. It is a dedicated platform for validating several key enabling technologies for a surveillance Unmanned Aerial System to be used in either a military and civil operational scenario. These include: innovative carbon fiber composite construction, heavy fuel/JP-8 engine (automotive diesel derivative), advanced datalinks, surveillance sensor (EO/IR, Hyperspectral, Synthetic Aperture Radar) and mission management system able to relevant data treatment, elaboration, fusion and distribution by means of an interoperable Tactical Control Station.

The Sky-Y is the system testbed for Alenia Aeronautica MALE product, now in early development. Finally, Sky-Y is the starting point for Molynx, the research project that aims to develop a High Altitude Long Endurance (HALE) system for civil and military applications.

Dimensions

Length	9.725 m
Span	9.937 m
Wing Area	10.785 m ²

Weights

MTOW	1200 Kg
OEW	800 Kg
Max Fuel	250 Kg
Max Payload	150 Kg

Performance

LOS Radius	100 nm
Max Range	500 nm
Altitude	>25 kft
Endurance	14 h

Payloads

- EO/IR Sensor
- Hyper-spectral sensor
- Synthetic Aperture Radar
- ESM/Elint

