



NIBBIO **FAST RECONNAISSANCE UNMANNED SYSTEM**

The NIBBIO Tactical Recce System is the Selex ES solution for Nations requiring deep, fast and undetected reconnaissance in critical missions for the acquisition of high value information (e.g. time-critical targets identification) in hostile scenarios.

The NIBBIO makes Selex ES the European leader in the field of tactical unmanned deep reconnaissance platforms. The system includes a fast, reliable, high performance, high subsonic drone, a Ground Control Station and a wide array of mission payloads.

The drone platform is the tactical evolution of the Selex ES well known Mirach 100/5 Aerial Target, currently used by major European and NATO Armed Forces with a certified mission reliability of more than 98% and is mainly aimed at promptly responding to “On Call”, fast, deep, recce operations.

KEY FEATURES

- Highly reliable and proven aerial platform
- Wide selection of ready-to-be-installed multispectral payload suites
- JATO assisted launch from ground or ship
- Recovered on ground (parachute + airbags) or at sea (parachute)
- Improved survivability, due to low radar and IR signatures, optional-chaff and flares dispensers, high-subsonic speed and outstanding maneuverability
- System flexibility and significant end-user customization.



The NIBBIO drone performs “Launch and Forget” silent missions in fully automatic mode. The flight plan and the mission payload management are stored inside the aircraft before the flight either by GCS link or by a flash disk or similar inserted into the aircraft without the aid of a GCS.

All pre-launch operations can be performed by a laptop PC. The drone flight plan can be partially or entirely re-tasked at any point of the mission, should the need arise, both in Line of Sight operations, via command uplink in real-time (in “Click and Go” mode), and in BLOS positions via satellite link.

During deep penetration pre-programmed reconnaissance missions, the drone transmits sensor imagery and data to the Ground Control Station (GCS) either while in Line of Sight or BLOS, if supported by a relay communication platform. When in Beyond Line of Sight and silent missions, data will be stored and later transmitted to the GCS as soon as the link is reestablished.

The flexible payload/data link interface allows the NIBBIO System to address multi-payload capability, as well as end-user payload customization and integration. The NIBBIO Tactical Recce System provides Selex ES with an efficient response to deep penetration and fast reconnaissance requirements aimed at highly defended high value targets, preserving customer’s sovereign/operations.

Selex ES Customer Support, aiming to supply customers with “value for money”, is provided by a dedicated Logistics and Services Business Unit. The high quality standard of the after sales service, guarantees the products quality and performance, for the entire scheduled service life.

Selex ES Product Support Services catalogue includes traditional services such as:

- maintenance
- Spares
- Ground Support Equipment
- Technical publications
- Training
- Field service engineering.

TECHNICAL SPECIFICATIONS

Physical

Length	4.1m
Wingspan	2.3m
Height	0.9m
Fuselage diameter	0.4m
MTOW	360Kg

Performances (ISA conditions)

Max payload weight	70Kg
Max mission range	400Km
Max airspeed	Mach 0.8
Max Altitude	10,000m

Payloads

EO/IR
SAR
ESM
Jammers, Chaff/Flares dispenser
NBC sensors