



USV-I

Multifunctional remote controlled ship

USV-I is developed by Indra in collaboration with Seadrone, under the scope of the Civil UAVs Initiative promoted by the Galician Government. Its development is based on the design, manufacturing and tests for the first experimental USV with the same source, a pioneer in its field in Spain, on which sensors, full navigation systems and payloads for different specific applications have been integrated and tested.

Multifunctional remote controlled ship



With capacity to be optionally manned, with two people onboard, the USV-I is envisioned for the following missions:

- Search and rescue operations.
- Surveillance, protection and maintenance of ports, offshore facilities, marine wind farms and coastal areas.
- Environmental protection.

High modularity, the integrable payloads include:

- Visible light and thermal gyro-stabilized optonics camera. Remote detection: Person in water at 1 500 m; Small ship at 3900 m.
- High-performance radar, with capacity for tracking targets.
- Deployment of search and rescue means, such as beacon, life rings and two rafts with a total capacity for twelve people.
- Ability to carry two castaways with a deployable rescue ladder.
- Integration of submarine remote operation vehicle - mini ROV - for inspection, maintenance and sample collection.
- Incorporation of deployment system with submersible sensors using a multiparametric probe for environmental data capture.
- Side scan sonar for inspections, searching for survivors and tasks.

Main parameters

Overall length	6.92 m
Maximum beam	2.35 m
Displacement	1.9 t
Dead weight	650 kg
Fuel capacity	320 l
Installed power	240 cv
Propulsion	Waterjet
Maximum speed	38 knots
Cruise speed	24 knots
Endurance at cruise speed	230 NM



Important features

- Transportable, together with its equipment, in a 40' container.
- Can be towed on the road without special requirements.
- Easily deployed and integrated as an accessory on a moderate sized ship.
- High-reliability operation as a result of using well proven technologies with a redundant communications system.
- Twelve mile range of operation.
- Robust, reliable and optimized platform.
- High-performance in terms of speed, endurance and maneuverability.
- Reduced draught making it possible to operate in areas inaccessible to other types of ships.
- Operation with remote manual control or by autopilot, or manned manual control.
- Navigation capacity with wind up to BF 8 and waves of 4 m significant height.



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