

COMMAND AND CONTROL CENTRES

Fixed and mobile command and control centres:

- Administration and Electronic Chart software in accordance with International Hydrographic Organisation (IHO) standards
- Human Machine Interface (HMI) with all chart types using IHO S52 presentation library standards, including S63 encrypted charts and S57 Edition 3 non-encrypted charts
- Data base administration and exploitation management systems

- Automatic target detection and tracking (radar & optronic)
- Intelligent Video Analysis (IVA)
- Track management, correlation and fusion
- Alarm generation, management and application
- Video and data recording

SENSORS

Integration of sensors from leading OEMs:

- Electro-optical (EO) systems
- Radars
- Sonars
- Automatic Identification Systems (AIS)
- Radio Direction Finding (RDF)
- Weather stations
- Electronic Warfare (COMINT, ELINT)

UN-MANNED VEHICLES

Multiple missions, both military and civilian, including:

- Protection of ports and off-shore platforms and wind farms
- Search, localization and rescue of maritime disasters
- Environmental protection against leaks and spills to protect water quality
- Mine warfare, surveillance and antiterrorism
- Control of illegal immigration, trafficking and contraband

The principal characteristics of Navantia's USV are:

- Adaptable to customer requirements (e.g. size, power, materials)
- Equipment selected to meet missions and functions
- 3 types of operation: piloted, remote control, autonomous
- Artificial Intelligence: Dynamic Positioning, COAS (Collision Avoidance System), COLREG (Convention on the International Regulations for Preventing Collisions at Sea)
- Automatic mooring and un-mooring

DISSUASION ELEMENTS

Automatic and manual control of:

- Searchlights
- Loudhailers
- Water cannons
- Sound cannon
- Soft-kill weapons
- Hard-kill weapons
- Un-manned vehicles
- Anti-Drone Systems





SVAP REFERENCES

Spanish Naval Base & Navantia Shipyard, Ferrol, Spain

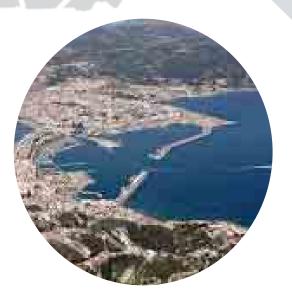


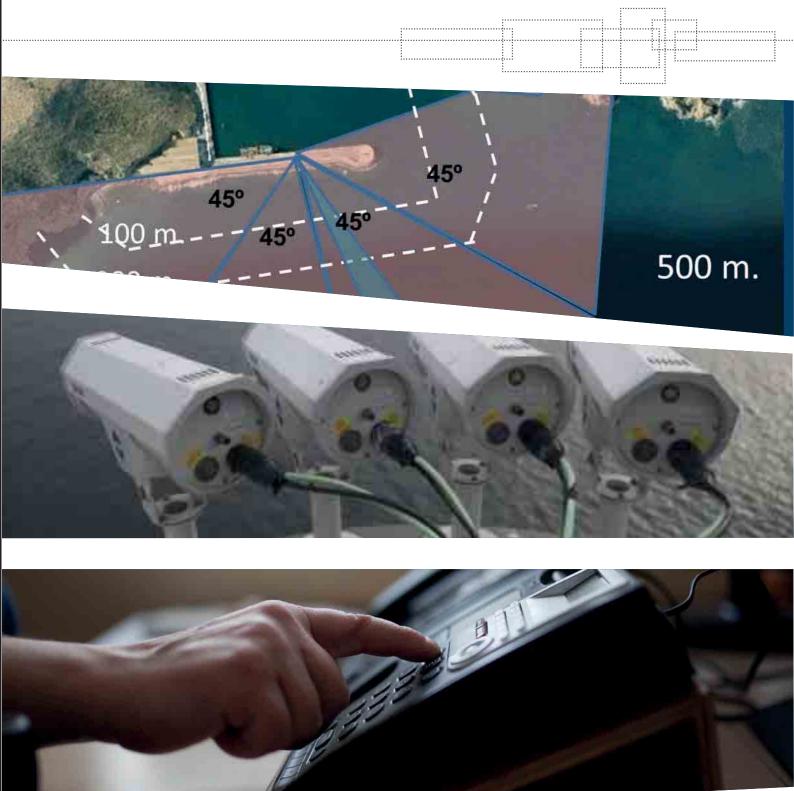
Spanish Naval Base & Navantia Shipyard, San Fernando, Spain





Spanish Naval Base & Navantia Shipyard, Cartagena, Spain







ABOUT NAVANTIA

Navantia is a Spanish Government Owned Company and is an Industrial Group with the following Business Lines:

Naval shipbuilding and design.

(Systems.

× Ship repairs and conversions.

O Diesel engines, gearboxes and power generation.

Through Life Support.

Transfer of Technology solutions

Offshore merchants and wind energy

Command and Control systems
Integrated Platform Management Systems
Surveillance systems
Gun Fire Control Systems
Naval guns
Communications systems
Navigation systems
Simulators and training

More than 20 countries...

...with offices worldwide



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