



Navantia

NAVANTIA  
UNMANNED  
SURFACE VEHICLE

# NAVUSV



## MISSIONS

- **Surveillance:** security and environmental
- **Dissuasion:** interjection, routes, etc
- **Rescue:** shipwrecks, ship out of control, illegal immigration, etc
- **Disasters:** firefighting, spills, toxic clouds, etc
- **Support:** escort, guard ship, transport, etc

## FUNCTIONS

- **Remote control** from command and control (C2) centre: course, speed and sensors.
- **Automatic control:** autonomous navigation by way-points, or "Click & Go"; and automatic mooring / un-mooring.
- **"Return Home"** mode by operator command, or due to loss of signal, starts automatic return home by quickest route.
- **Manned mode** activated by hardware key.

## SENSORS

- **Radar:** provides surface targets to the C2 system
- **Sonar:** provides underwater targets to the C2 system
- **Electro-Optical system:** provides infra-red and TV images to the C2 system
- **LIDAR:** provides positional awareness for unmanned control and collision avoidance
- **Driving aid system camera:** provides the C2 system with a pilot's view
- **Stereoscope vision cameras:** port, starboard and aft vision cameras provide a 3D view and real distance data
- **360° vision security camera:** provides security around the vehicle
- **Inertial navigation:** provides positioning information and navigation control
- **Dual antenna GPS:** provides vehicle position information
- **AIS receptor**
- **Echo sounder** provides water depth and vehicle speed
- **Meteorological station**
- **Fluorimeter:** provides information on spills

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## PLATFORM CHARACTERISTICS

- Cabin apt for both unmanned and manned operations
- Aluminium structure resistant to high temperatures
- Unsinkable
- Self-draining deck by gravity
- Self-protection against the environment
- Flexible length and beam
- Flexible propulsion and range
- Adaptable capacity to carry troops or passengers

## WEAPON AND DEVICES ADAPTABILITY

- Remote controlled flare launcher
- Remote controlled water colouring launcher
- Remote controlled life raft launcher
- Towing hook, rated at 1.5 t
- Mooring system, allows autonomous mooring and unmooring
- Remote controlled water cannon, flow rate controlled remotely
- Remote controlled sonic cannon
- 12.7 mm remote controlled weapon station
- Remote controlled torpedo launcher
- Remote controlled depth charge launcher