

PRO:ZERO BOATS



**10M PROZERO ISR USV
SURVEILLANCE**



PROZERO 10M UNMANNED SURFACES SURVEILLANCE VESSEL

ProZero 10m ISR Unmanned Surface Vessel – the ultimate solution for Intelligence, Surveillance, and Reconnaissance operations.

This state-of-the-art unmanned vessel is specifically designed and expertly crafted to perform exceptional ISR missions in any marine environment.

With advanced sensors, cameras, and communication systems, the ProZero 10m ISR-USV can collect, process, and transmit vital information in real-time, providing you with the intelligence you need to make informed decisions.

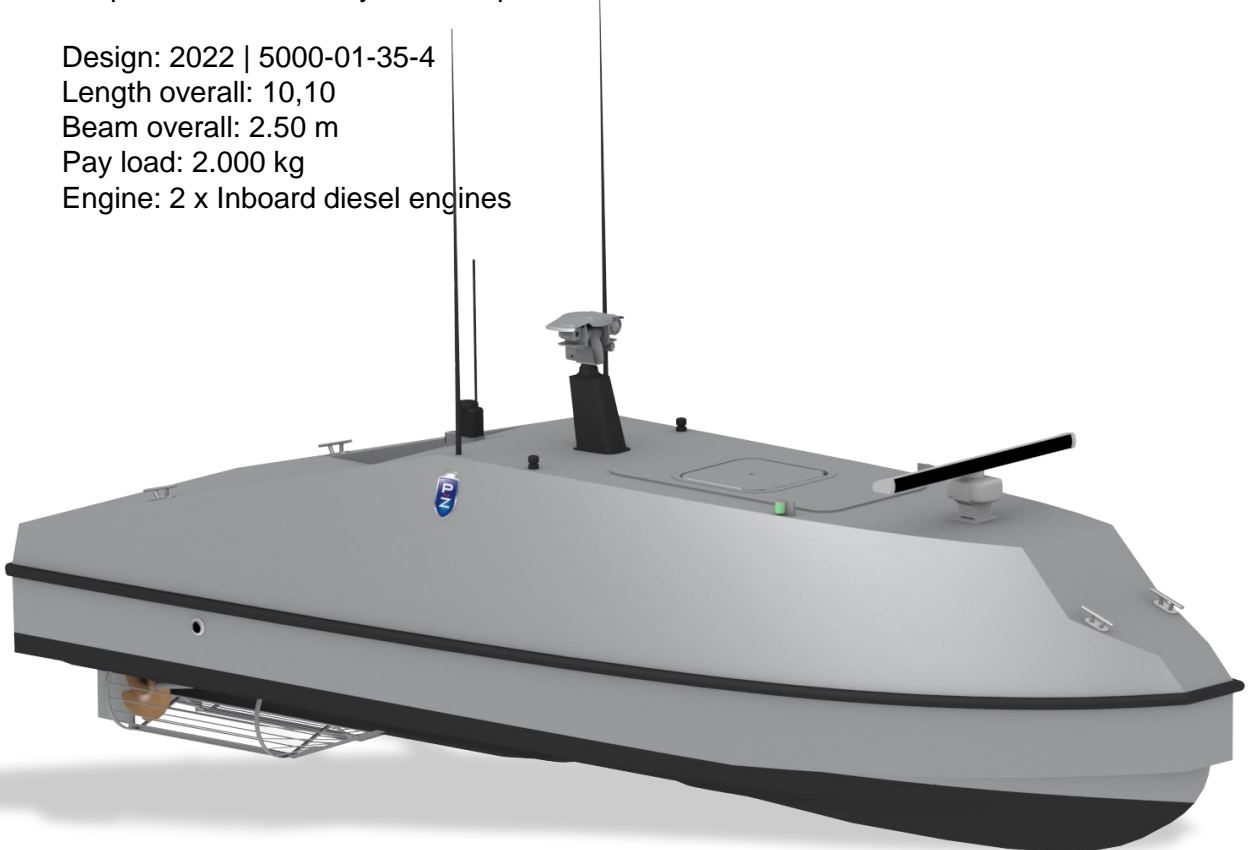
Whether you're monitoring a coastal border, a maritime asset, or conducting search and rescue missions, this vessel is your go-to tool for precise and timely data collection.

The ProZero 10m ISR-USV is engineered to handle even the toughest conditions with ease.

Its advanced propulsion system, combined with precise maneuvering capabilities, ensures that it can operate in any type of marine environment, providing a comprehensive view of the surroundings.

Built to last, the ProZero 10m unmanned surface vessel is constructed using the latest in composite materials, making it highly durable and low-maintenance. Its sleek and innovative design also allows for customization to meet your specific needs, making it the perfect solution for your ISR operations

Design: 2022 | 5000-01-35-4
Length overall: 10,10
Beam overall: 2.50 m
Pay load: 2.000 kg
Engine: 2 x Inboard diesel engines



DESCRIPTION:

The boat has been built to meet the requirements from the competent authorities and operators demands.

BENEFITS:

This USV is developed for autonomous and remote operated surveillance and reconnaissance missions, with able space for installment of various equipment.

The USV is offered with the possibility to mount armour panels for protection for added durability.

This truly offshore capable vessels shallow draft allows for coastal and river operations, and the proven sea keeping capabilities ensures secure operations at open seas as well.

Benefits by being significantly lighter than market average are lower fuel consumption and lighter lifting equipment on launch site or mother vessel.

Streamlined hull and superstructure supporting the great and proven sailing capabilities.

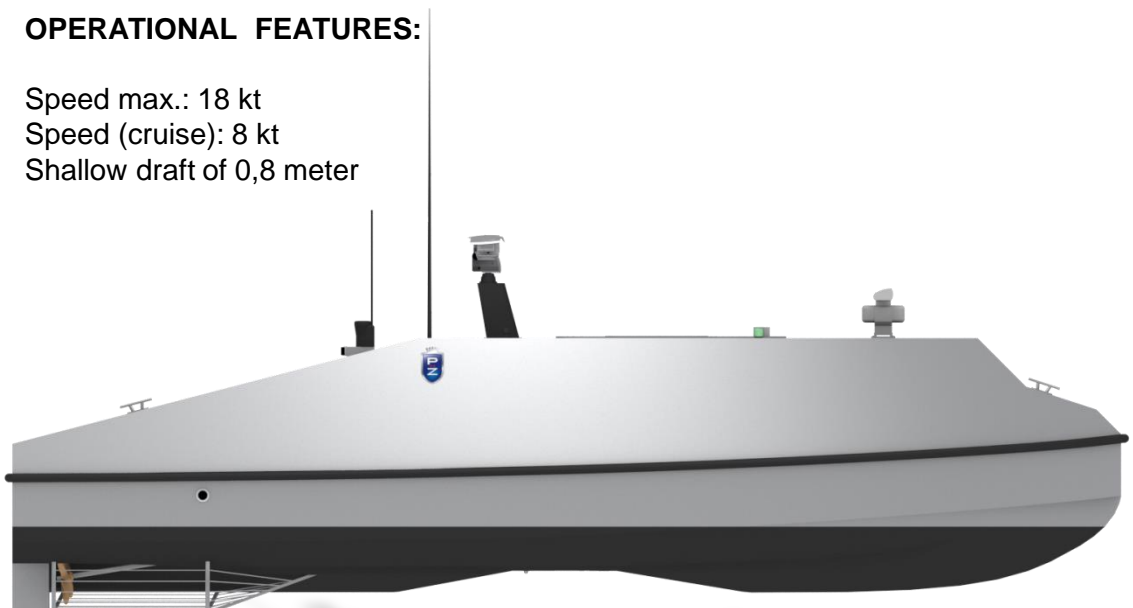
The high and stable superstructure provides a good platform for Line-of-Sight sensors.

Furthermore, the ample installation space adds protection for equipment and a clutter free deck.

The hull integrated sonar makes the USV able to investigate and detect below the surface. Combined a strong platform for surveillance and reconnaissance missions

OPERATIONAL FEATURES:

Speed max.: 18 kt
Speed (cruise): 8 kt
Shallow draft of 0,8 meter



HULL, DECK AND SUPERSTRUCTURE:

The boat is made of a combination of glass- and carbon fibre as sandwich construction with PVC as core material in selected areas.

This core material act as a natural buoyancy reserve material, due to its lightweight and zero water absorption.

Moreover, the sandwich construction minimizes the needs of internal stiffeners, increasing the usable internal space and offers a natural insulation capability.

The sandwich construction also functions in effect as a double skin hull.

The Hull is prepared with recess for multi-beam sonar.

FENDER:

The fender is built from a hard rubber holed D profile fender.

The fender is bolted to the hull and protects the hull all around.

DECK:

Central placed mast for optimum position of observation module.

Deck is self-bailing. 4 mooring bites.

Recces on aft deck for protection of air intake.

Large deck hatches allowing fast replacement of main components.

Small and lockable inspection hatches.

SUPERSTRUCTURE:

The superstructure is designed to handle adverse weather and provide a high and stable platform for enhanced line of sight equipment, such as cameras, radars etc. Furthermore, ensuring able installation space for various equipment inside, minimizing clutter top side.

ENGINES, PROPULSION, STEERING etc.

2 x Inboard diesel engines for redundancy.

Autonomous and remote operations

Propellers protected against debris and grounding

Complete propulsion and steering system integrated into hull for added protection.

TANKS: Independent diesel tanks with hatch and filling protection.

ELECTRICAL SYSTEM & LIGHTING:

All electrical wiring in marine cable.

Shore power with control lamp, marked fuses, earth connection.

Isolation transformer with earth plate for protection of galvanic corrosion.

24-volt electrical system.

Main switches with separate battery systems for start, navigation and consumption.

Battery charger with indicator.

Navigational lights.

Floodlights on the deck by request Searchlight on request.

NAVIGATION & ELECTRONIC EQUIPMENT:

Fluxgate/Gyro/satellite compass

High-definition radar

Multi-beam sonar

Visual observation module, with range finder and thermal camera

Data transfer module

Satellite communication

Radio wave remote control

Other passive/active sensors and equipment can be fitted on request.

Complete engine instruments supplied by engine manufacturer.

Control panel for all lighting and other electrical equipment.

SECURITY EQUIPMENT:

Bilge pumps

Fire extinguisher in engine room

Fire extinguisher in technical compartment

Further equipment can be fitted on request



