

Hybrid Littoral Security and Chokepoint Surveillance System

Surface, subsurface, and underwater mission capability in one modular platform



Multipurpose Platform

MANTA is a hybrid unmanned maritime system designed for operations in congested, high-risk, and strategically sensitive waters. Combining surface navigation, underwater mission capability, and precision controlled intervention, it supports navies and maritime security forces in harbour protection, critical infrastructure security, chokepoint surveillance, demining operations, and subsea inspection.

Built for strategic littoral environments

MANTA is designed for operations in ports, anchorages, coastal approaches, offshore zones, and narrow maritime passages where persistent awareness, rapid inspection, and controlled intervention are essential.

Hybrid multi-domain mission execution

The platform combines USV, AUV, and fiber-optic controlled operation in one compact system, enabling transition from surface patrol to underwater detection, inspection, and close-in intervention.

Persistent security with a reduced operational footprint

MANTA provides a deployable, modular, and cost-efficient unmanned capability that helps reduce reliance on scarce manned assets for routine surveillance, inspection, and force protection tasks.

MISSIONS

- Core naval and maritime security missions
- Harbour and naval base protection
- Anchorage and coastal approach surveillance
- Mine and suspicious object
- Hull, quay wall, and terminal inspection
- Offshore energy infrastructure monitoring
- Chokepoint ISR in congested littoral waters
- Rapid post-incident survey and damage assessment

A compact unmanned system for maritime security, infrastructure resilience, and contested littoral operations



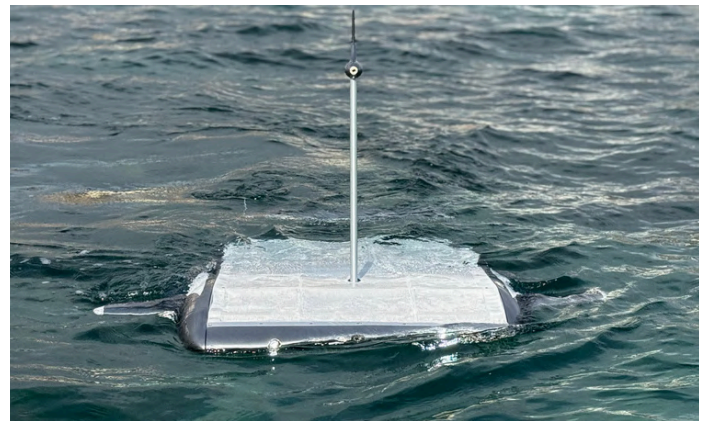
DESIGNED FOR COTESTED littorals, ports and strategic chokepoints

In narrow waterways and high-value coastal zones, operators require systems that can detect, inspect, and respond across multiple environments without overcommitting larger naval assets.

MANTA provides this flexibility through three integrated operating modes, supporting surveillance, underwater inspection, and precision intervention within a single mission cycle.

Mode 1 : USV

Surface patrol, reconnaissance, and real-time ISR for harbour approaches, anchorages, terminals, and coastal security zones.



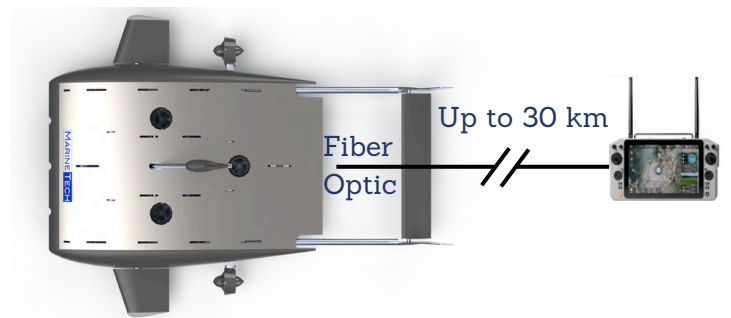
Mode 2 : AUV

Autonomous underwater operation for subsea search, object detection, route inspection, and underwater survey in shallow or congested environments.



Mode 3 : Fiber optic controlled operation

Secure, ultra-precise control for close-in inspection and intervention in sensitive areas where positive control, responsiveness, and reliability are critical.



Performance callout

Operational reach
Up to 30 km with real time control and data transfer.

Operator line

For navies, coast guards, port security authorities, and offshore infrastructure operators.

MARINETECH Robotics

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MARINE TECH

R O B O T I C S

UHV MANTA 2

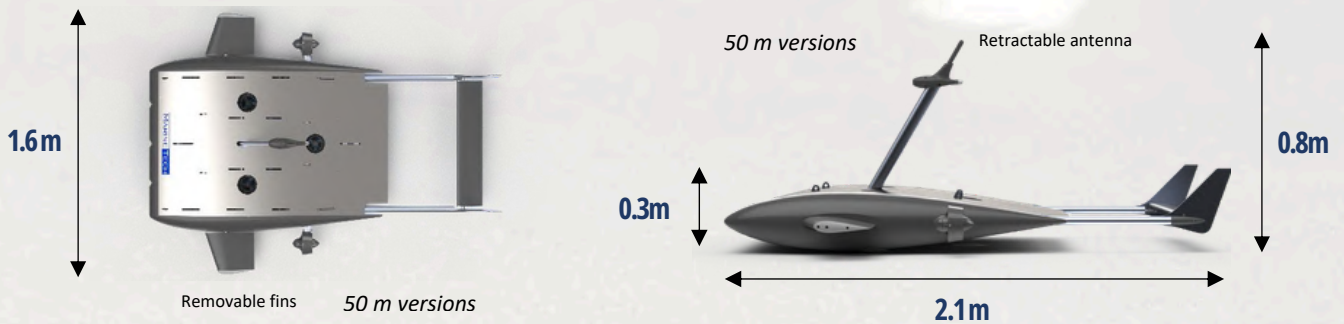
50 M AND 300 M VERSIONS

Unmanned Hybrid Vehicle

UHV MANTA2 - HYBRID GENERATION Marine Drone

CHARACTERISTICS

- **Operational depth** : 0 to -50 and 0 to -300 m
- **Weight** : 90kg
- **Size (Length x Width x Height)** : 2.1 x 1.6 x 0.8m
- **Payload** : 10 kg
- **Control** : manual, autopilot or supervised mode
- **Endurance** : up to 20 hours
- **Speed** : 0-5 knots



SENSORS

Multibeam Echosounder
Side Scan Sonar
Magnetometer
CTD
Camera

Communication :

- 4G / 5G
- Wifi
- UHF

NAVIGATION

Surface : Manual, auto-pilot with GPS/IMU
Sub-surface : Manual, auto-pilot with GPS/IMU
Underwater : Auto-pilot with DVL/USBL

