

W TUPAN

Autonomous multi-purpose vessel



TIDEWISE

The USV (Unmanned Surface Vehicle) **W Tupan** is an autonomous multi-purpose vessel designed and built in Brazil to operate in offshore environment. Made of naval aluminum and designed according to **MASS guideline Rev 3**, the english standards that were a reference for the rules published in the **Regulamento Provisório para Operação de Embarcação Autônoma**, issued in February 2020 by the Diretoria de Portos e Costas (DPC), subordinate to the Brazil's navy.

Technical specifications

Length	4.92 m
Beam (width)	1.78 m
Height	3.34 m (mast mounted)
Draft	0.60 m
Displacement	1.500 kg, loaded
Propulsion	Diesel-electric, two propellers 4.5kW each
Steering	Fully redundant, Differential thrust + two rudders
Maximum speed	6.5 knots
Endurance	Up to 7 (seven) days without refuelling
Estados de mar operacionais (Escala Beaufort)	Operational: 5 Surviving: 10
Power output	Permanent magnet diesel generator 9kW
Power available for payload	Up to 1kW
Communications	Up to 18 (eighteen) km by radio link (options with 4G, Satellite e Wi-Fi)
Remote controller	WiseHelm
Software	WiseControl®
Transport	Road trailer 20ft shipping container
Lifting	Single point lift

Applications

- Ports, energy and offshore
- Environmental solutions
- Surveillance and security

