

Inspection Class ROV TORTUGA STD



Maximum speed
3 knots



Azimuthal propulsion
4 x 14 kg



Compact and
lightweight



500 m depth



SUBSEA TECH
Marine and Underwater Technologies

The TORTUGA STD ROV

is an underwater inspection vehicle designed for operations down to 500 meters depth.

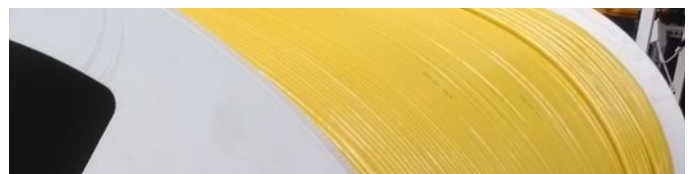
Equipped with four azimuth-controlled horizontal thrusters delivering 14 kg of thrust each and two vertical thrusters (14 kg each), it provides excellent stability and maneuverability, with a maximum speed of 3 knots.

With an excellent thrust-to-weight ratio and a fully integrated acoustic imaging solution, the TORTUGA STD is a high-performance inspection ROV for demanding environments: low visibility, strong currents, and long-range inspections.



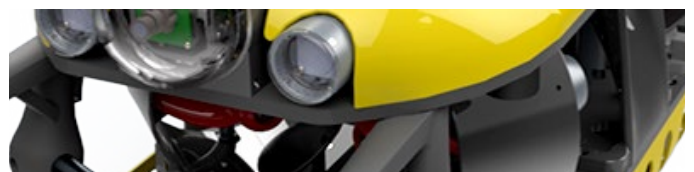
PROPULSION

The TORTUGA STD features four azimuth-controlled horizontal thrusters (14 kg each) and two vertical thrusters (14 kg each), ensuring precise control, stability, and reliable performance in current.



COMMUNICATION

Thanks to an innovative communication system, the tether has a reduced diameter (9.5 mm), minimizing drag and optimizing inspection range.



HYDRODYNAMISME

Inspired by AUV principles, the TORTUGA STD's shape optimizes hydrodynamic flow, enhances navigation performance, and improves energy efficiency.

TECHNICAL SPECIFICATIONS

GENERAL ROV

Depth rating	500 m
Dimensions	L 978 mm x W 400 mm x H 481 mm
Weight	38 kg in air / neutral in water
Max speed	3 knots
Payload	15 kg

PROPULSION AND POWER SUPPLY

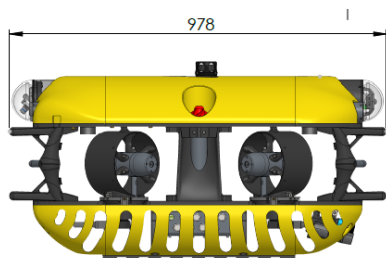
Thrusters	4 azimuth-controlled horizontal thrusters (14 kg/thruster) 2 vertical thrusters (14 kg/thruster)
Power supply	400/230 VAC
Surface power requirement	10 kW (400 V - 25 A or 230 V - 50 A)

SYSTEM CONTROL

Piloting	Console integrated into a waterproof case (625 x 500 x 218 mm)
Display	Integrated 17" and 21" PC screens with selectable sources (video, sonar, navigation, and other sensors)
Controls	Multi-function joysticks and keyboard
Recorder	Integrated PC with standard 250 GB storage
Auto functions	Heading, depth, up/down
Connectivity	HDMI

INTEGRATED SENSORS

F/R cameras	Full HD 1080p, 130° lens in air, 100° in water, 60 FPS, 0.01 lux 4K option
Pan & Tilt	Integrated unit on front and rear cameras
Lighting	Front: 2 x 10,000 lumens Rear: 2 x 10,000 lumens Intensity control
INS	Xsens MTi3
Sensors	Compass, depth, temperature, internal humidity detector



UMBILICAL

Standard	300 m neutral (diameter 9.5 mm) Breaking strength: 500 kg Extensions up to 500 m
Communication	Power Line Communication (PLC)
Option fibre optique	Length up to 3000 m of fiber optic cable with a 1500 Vdc power supply

MAINTENANCE ET GARANTIE

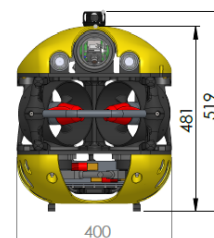
Documentation	Operator manual
Maintenance	No specific maintenance required
Warranty	1 year parts and labour
Technical support	Response: < 8 hours (business days) Resolution: < 72 hours average

OPTIONS

For your missions, the TORTUGA STD can integrate a wide range of sensors and equipment.

SUGGESTIONS :

Acoustic camera	Blueprint Oculus 2D imaging sonar
Sonar profileur	Imagenex 831A
USBL	BluePrint SeaTrac
DVL	WaterLinked A50
SBP	Tritech SeaKing Split-head
Side Scan Sonar	Starfish 4530EM
Thickness meas.	Cygnus probe
CP measurement	Buckleys CP probe
FMD measurement	Cygnus FMD
3D photogram.	IVM Hydro 300
Phys.-chem. meas.	Salinity, pH, turbidity probes, etc.
Manipulator	2 to 5-function manipulator arm
Cleaning tools	Rotating brush, cavitation lance and rotor
Laser measurement	Laser pointer system with sizing software
Auto navigation	Waypoint navigation, dynamic positioning



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