

Observation Class ROV

TORTUGA XP4



Max. speed
2.5 knots



4 vertical thrusters 14 kg each
for active pitch and roll control



300 m depth



Up to 20 kg payload capacity



SUBSEA TECH

Marine and Underwater Technologies

The TORTUGA XP4 is a compact observation-class ROV, certified for a depth of 300 m. Lightweight and hand-portable, it can be deployed by a single operator, with no need for heavy launch-and-recovery equipment or a dedicated technical team.

Its four horizontal thrusters each deliver 14 kg of thrust and can be manually configured in vectored, in-line, or lateral mode, ensuring stable navigation up to 2.5 knots. The four vertical thrusters, also 14 kg each, provide automatic pitch and roll control, giving the vehicle 6 degrees of freedom along with precise, stable positioning, even during complex maneuvers in confined environments.

Its excellent thrust-to-weight ratio, combined with the integration of acoustic imaging solutions, makes it a versatile and reliable solution for demanding underwater inspection missions in difficult conditions.

Built with a rugged, transportable form factor and an intuitive single-operator console, the TORTUGA XP4 delivers dependable performance wherever it's deployed, without compromising on data quality.



PROPULSION

4 horizontal thrusters and 4 vertical thrusters (14 kg each) ensure precise maneuverability, optimal stability, and reliable position-keeping, even in the presence of sustained currents.



COMMUNICATION

The PLC (power-line communication) umbilical ensures robust, cost-effective, and easily repairable operations, while reducing drag and optimizing operational range.



PILOT CONSOLE

21" + 17" console in a watertight Pelicase, integrating video, sonar, and navigation with selectable sources. Standard 250 GB recording and multiple connections for external equipment.

TECHNICAL SPECIFICATIONS

ROV

Max. depth	300 m
Dimensions	L 600 mm x W 728 mm x H 401 mm
Weight	33 kg
Max. speed	2.5 knots
Payload	10 kg (in water) and 20 kg via lifting frame (dry)

PROPULSION AND POWER

Thrusters	Horizontal thrusters: 4 x 14 kg, manually adjustable orientation. 140 mm propellers with protective nozzles. Vertical thrusters: 4 x 14 kgf. 140 mm propellers
Power supply	230 Vac (mains or generator)
Power required	3.8 kW (230V – 16 A)

SYSTEM CONTROL

Console	Integrated watertight case (634 x 505 x 220 mm)
Display	2 screens (21" + 17"), selectable sources (video, sonar, navigation, sensors)
Controls	2 multifunction joysticks + preset buttons
Recording	Integrated PC, standard 250 GB storage
Auto functions	Heading, depth, attitude; altitude and position optional
Connections	HDMI, USB, RJ45

INTEGRATED SENSORS

Front camera	Full HD 1080p (4K optional), 130° lens in air / 100° in water, 60 FPS, 0.01 Lux. Option: Full HD rear camera
Pan & Tilt	On the front camera
Lighting	2x 10,000 lumens LED at the front, adjustable intensity, manual orientation. Option: LED lighting integrated into the rear camera
AHRS	Xsens MTi3
Other sensors	Pressure (depth), gyroscopic compass, accelerometers

UMBILICAL

Standard	300 m (9.5 mm neutral / 8 mm loaded), 500 kg breaking strength
Communication	PLC Optional fiber optic beyond 500 m

CONDITIONNEMENT

Standard	Wooden crate for the ROV + Pelicases for the rest of the system
Option	Flight case for the full system

MAINTENANCE AND WARRANTY

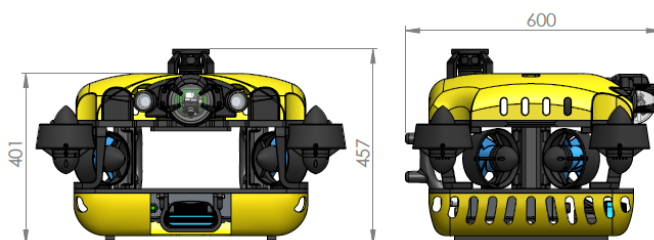
Documentation	Operator/maintenance manual
Maintenance	Maintenance contract (optional)
Warranty	1 year, parts and labor
Technical support	Response time: < 8 h (business days) Average resolution time: < 72 h

OPTIONS

For your missions, the TORTUGA XP4 can integrate a wide range of sensors and equipment.

OUR SUGGESTIONS:

Control unit	14" rugged PC + joystick console
Imaging sonar	Blueprint Oculus
Side Scan Sonar	Blueprint Starfish
Bathymetric sonar	Norbit WBMS
Acoustic positioning	Blueprint SeaTrac USBL
Metal detector	JW Fischer RMD-1
Manipulator arm	EG-2F Subsea Tech
DVL	Waterlinked A50
Navigation	Automatic navigation software
Pan & Tilt	On the rear camera



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