

Observation class ROV

# Mini TORTUGA XP4



Current speed  
> 2.5 knots



4 vertical thrusters of 15 kg  
for active pitch and roll control



Depth 300m



Up to 20 kg payload capacity



**SUBSEA TECH**

Marine and Underwater Technologies

## The Mini TORTUGA XP4

is a compact, observation-class ROV derived from the larger TORTUGA XP4 and depth-rated 300 m. Lightweight and hand-portable, it can be deployed by a single operator.

Its four horizontal thrusters deliver 15 kg of thrust each and can be manually configured in vector, in-line, or lateral modes, ensuring stable navigation in currents up to 3 knots. The four vertical thrusters, also 15 kg thrust each, provide automatic pitch and roll control, giving the vehicle 6 degrees of freedom and precise, stable positioning.

The Mini TORTUGA XP4's high thrust-to-weight ratio, combined with integrated acoustic imaging, makes it a versatile solution for demanding subsea inspection missions in harsh conditions.



### PROPULSION

Equipped with 4 horizontal and 4 vertical thrusters (15 kg each), the Mini TORTUGA XP4 delivers precise maneuverability, excellent stability, and reliable station-keeping in strong currents.



### COMMUNICATION

A PLC communication umbilical ensures robust, cost-effective, and repairable operations while minimizing drag.



### PILOT CONSOLE

The rugged 21" + 17" console, protected in a waterproof Pelicase, integrates video, sonar, navigation, and other sensors with selectable sources. The system includes data recording (standard 250 GB) and multiple connectors for flexible integration of external devices.

# TECHNICAL SPECIFICATIONS

## ROV

<b>Max. depth</b>	300m
<b>ROV dimensions</b>	L 671 mm x W 726 mm x H 471 mm
<b>ROV weight</b>	29 kg
<b>Max. ROV speed</b>	3 knots
<b>Payload</b>	10 kg (wet weight) and 20 kg trough frame lift (dry weight)

## PROPULSION AND POWER SUPPLY

<b>Thrusters</b>	Horizontal: 4 x 7 kg, manually adjustable, 100 mm propellers with protective nozzles Vertical: 4 x 7 kg, 100 mm propellers
<b>Power supply</b>	220Vac (mains or generator)
<b>Power requirement</b>	4 kW

## SYSTEM CONTROL

<b>Control</b>	Integrated waterproof case (634 mm x 505 mm x 220 mm)
<b>Display</b>	2 screens (21" + 17"), source-selectable (video, sonar, navigation, sensors)
<b>Controls</b>	2 multi-function joysticks + preset buttons
<b>Recorder</b>	Integrated PC, standard 250 GB storage
<b>Auto. functions</b>	Heading, depth, attitude; altitude & position optional
<b>Video outputs</b>	HDMI, USB, RJ45

## INTEGRATED SENSORS

<b>Front camera</b>	Full HD camera (1920 x 1080 p) 0.001lux Option: Full HD camera on the back
<b>Pan &amp; Tilt</b>	Pan & Tilt on the front camera
<b>Lighting</b>	2x 10,000 lumens LED front lighting with intensity control. LED direction manually adjustable Optional: LED lighting integrated in the rear camera
<b>AHRS</b>	Xsens MTi3
<b>Sensors</b>	Pressure (depth), gyroscopic compass, accelerometers

## UMBILICAL

<b>Standard</b>	300m (9.5mm neutral / 8mm flowing), resistance 500kg
<b>Communication</b>	PLC Fibre optic over 500m

## CONDITIONING

<b>Standard</b>	Wooden case for the ROV + Pelicases for the whole system
<b>Option</b>	Flight case for the set

## MAINTENANCE AND WARRANTY

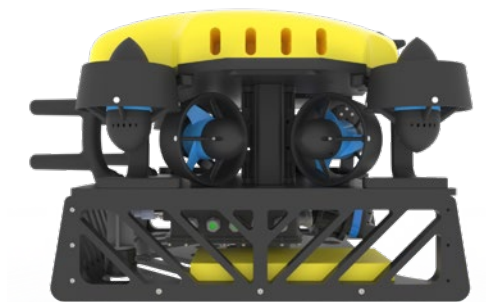
<b>Documentation</b>	Operator/maintenance manual
<b>Maintenance</b>	Maintenance contract (optional)
<b>Warranty</b>	1 year parts and service support
<b>Technical support</b>	Response: < 8h (business days) Resolution: < 48h average

## OPTIONS

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


### OUR SUGGESTIONS :

<b>Imaging sonar</b>	Blueprint Oculus
<b>Side scan sonar</b>	Blueprint Starfish
<b>Bathymetry sonar</b>	Norbit WBMS
<b>Acoustic positioning</b>	Blueprint SeaTrac USBL
<b>Metal detector</b>	JW Fischer RMD-1
<b>Manipulator</b>	EG-2F Subsea Tech
<b>DVL</b>	Waterlinked A50
<b>Navigation</b>	Automatic navigation software
<b>Pan &amp; Tilt</b>	On the rear camera



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