

# Micro-ROV Observer



150m depth



3 thrusters



Up to 4h autonomy



2 color cameras



Ultra-portable



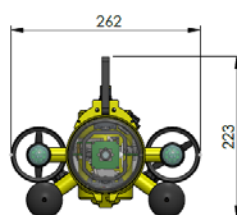
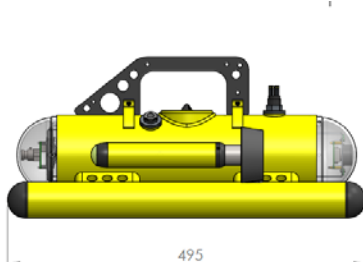
## SUBSEA TECH

Marine and Underwater Technologies

## The Observer Micro-ROV

is an ultraportable underwater inspection robot designed for observation and diagnostic missions down to 150 meters depth. Compact and lightweight (6kg), it allows rapid deployment and easy transport to remote or confined locations. Its embedded batteries provide up to 4 hours of autonomous operation. Its front camera on a Pan & Tilt turret delivers a 180° panoramic view, enabling detailed inspection of submerged structures, port facilities, hydraulic networks, and other complex environments.

The Observer features a modular design with an ancillary plug, allowing easy integration of various sensors and tools such as sonars, probes, and manipulators, adapting the system quickly to mission-specific requirements.



### CAMERAS

The front Full HD camera on the Pan & Tilt turret allows orientable observation up to 180°. Tilt option is available on the rear camera for enhanced flexibility.



### BATTERIES

Thanks to its two NiMH embedded batteries, the Observer Micro-ROV has fully autonomous energy supply allowing operations up to 4h in the most remote locations.



### ANCILLARY PLUG

The quick plug interface available on the Observer Micro-ROV allows easy integration of many options such as sonars, USBL positioning system, US and CP probes, etc.

# TECHNICAL SPECIFICATIONS

## MAIN FEATURES

Depth rating	150m
ROV dimensions	L 495 mm × W 262 mm × H 223 mm
ROV weight	6kg in air / neutral in water
ROV max. speed	1.8 knots

## PROPULSION AND POWER

Thrusters	3 brushless outrunner motors : 2 horizontal and 1 vertical
Batteries	NiMH accumulators, 4h autonomy
External power	External – 220 VAC (110 VAC on request) - 1 kW max.

## SYSTEM CONTROL

Piloting	Standard: PC 17" + controller Option 1: Semi-rugged PC 14" + joystick unit Option 2: Integrated console 17"
Video display	via PC or console with overlays
Control	2 multi-function joysticks and soft touchpad
Recorder	PC + 250 GB hard drive
Auto functions	Heading, depth, speed
Video outputs	HDMI + USB

## INTEGRATED SENSORS

Front/rear cameras	Full HD (4K option), 1080p resolution, 0.01 lux sensitivity, 130° lens, 60 fps
Pan & Tilt	Pan & Tilt unit integrated on front camera, optional on rear camera
Lighting	Front : 2 x 1200 lumens, Rear : 1000 lumens, intensity control
Sensors	Compass, depth, temperature, leak detector (internal moisture level) Option : IMU

## UMBILICAL

Standard	See table Neutral diameter 7.9 mm, outer diameter 6.3 mm, Kevlar braid with 100 kg breaking strength
Optional lengths	Custom lengths up to 300 m (500 m long-distance option)

## PACKAGING

Transport (option)	Case containing the ROV, the umbilical cable, the power supply, and the control unit
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## MAINTENANCE AND WARRANTY

Documentation	Operator manual in electronic version
Maintenance	No specific maintenance needed
Warranty	1 year parts and labor excluding transport costs
Technical support	<8h (business days), average response <48h

## OPTIONS


Mechanical sonar	Tritech Micron DST or equivalent
Acoustic posit.	BluePrint Seatrac USBL
Thickness measurement	Cygnus US gauges
CP measurement	Buckleys CP probes
Physico-chem. measures	Salinity, pH, turbidity gauges
Manipulator	2 functions manipulator
Samplers	Water and sediments samplers
Defect scaling	Laser pointer tool with software
WiFi link	Video transmission up to 1000 m

LEVELS OF FINISH		STARTER	MAX	ULTRA
CAMERAS	Front full HD camera	●	●	●
	Front Pan & Tilt	●	●	●
	Rear Full HD camera		●	●
	Rear Tilt			●
LIGHTING	2 x 1200 lumen LEDs at the front with adjustable intensity	●	●	●
	1000 lumen LED lighting at the rear with adjustable intensity		●	●
SENSORS AND AUTOMATIC FUNCTIONS	Humidity	●	●	●
	Temperature	●	●	●
	Depth	●	●	●
	Compass		●	●
ACCESSORY PORTS	Basic	●	●	●
	Additional			●
UMBILICAL	Standard umbilical*	100m	100m	150m

\* Umbilical extendable up to 300 m

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