



Skid AspiROV



Suction system



5 thrusters



2 color video cameras



Drive wheels



SUBSEA TECH
Marine and Underwater Technologies

The AspiROV robot

is an ultra-portable robot with a total weight of 12 kg, especially designed for visual inspection and cleaning of fire fighting, industrial and potable water tanks. It can be used in cleaning mode (rolling skid) and in inspection mode (open water navigation). A ballast system allows the operator adjusting the robot buoyancy for obstruction clearance. A single operator is necessary and the sediments are pumped out of the tank thanks to the suction hose and the pump.



VIDEO CAMERAS

The AspiROV embeds 2 high sensitivity 700 TVL video cameras. Rear camera is mounted on tilt while front camera is mounted on pan&tilt.



ROLLING SKID

Equipped with 2 drive wheels, AspiROV can move in any direction on the tank bottom. It can also be operated in open water thanks to its thrusters.



SUCTION NOZZLE

Thanks to the suction nozzle connected to the surface pump through a 35m hose, AspiROV pumps out the sediments and cleans liner, steel or concrete tank bottoms.

TECHNICAL SPECIFICATIONS

MAIN FEATURES

Depth rating	100m
Dimensions	L 660mm x l 430mm x H 530mm
Weight	12kg in air / 6kg to neutral in water, adjustable with ballast system
Max. speed	Navigation : 2m/s; Rollong: 0,2m/s

PROPULSION AND POWER SUPPLY

Thrusters	5 magnetic coupling thrusters : 4 horizontal and 1 vertical
Wheels	2 drive wheels (rear) and 1 free wheel (front)
Ballast	Apparent weight adjustment to optimize rolling ability
Power supply	External power 220 VAC (110 VAC on demand)

SYSTEM CONTROL

System control	Console integrated in a waterproof case with 8" LCD screen, digital recorder/reader, 2 joysticks, touchpad and connectors
Ballast control	Waterproof case with emptying/filling control
Video display	8" LCD screen with data overlay
Recorder	Digital recorder/reader on SD card
Auto functions	Heading, depth, Up/Down, speed

UMBILICAL

Standard	50m buoyant (Ø 7,9mm), integrated Kevlar braid
Optional lengths	Extensions with customized lengths up to 200m on demand

SUCTION SYSTEM

Suction hose	35m standard (flexible part in water : 20m, rugged part bent over the tank, outside part : 15m)
Pump	Centrifugal gasoline pump Subaru 60m ³ /h (others on demand)

INTEGRATED SENSORS

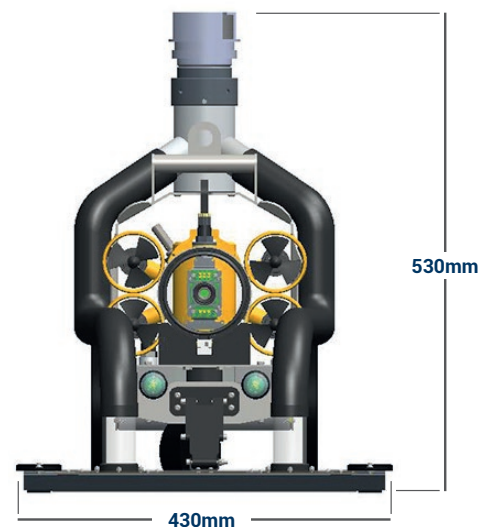
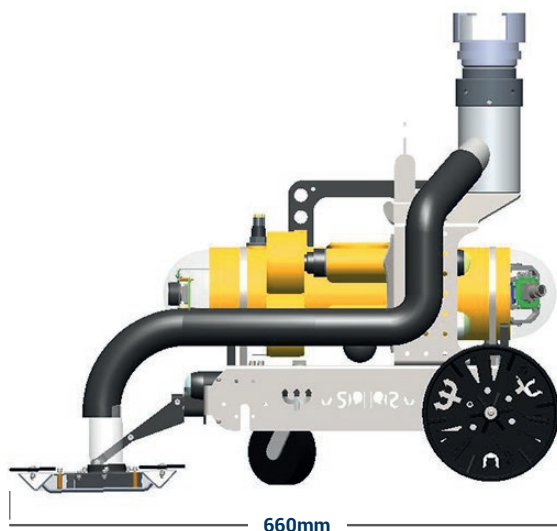
Front/rear cameras	Colors video cameras, 700 TVL, 0,01 lux
Pan & Tilt	Pan & Tilt unit integrated on front camera, tilt on rear camera
Lighting	Front : 4 x 900 lumens, Rear : 3 x 900 lumens , intensity control
Sensors	Compass, depth, temperature, leak detector (internal moisture level)

PACKAGING

Transport	Transport case including Guardian ROV, console and transformer. Separate case for rolling skid, umbilical, ballast and control
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MAINTENANCE AND WARRANTY

Documentation	Operator manual in hard and soft versions
Maintenance	No specific maintenance needed
Warranty	1 year parts and labor excluding transport costs



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