

Skid AspiROV



Suction system



5 thrusters



2 color video cameras



Drive wheels



SUBSEA TECH

Marine and Underwater Technologies

The AspiROV robot, with a total weight of 12 kg, is designed for visual inspection and cleaning of industrial, fire, and potable water storage tanks. It operates in cleaning mode (rolling) and inspection mode (free-water navigation). A ballast system allows for buoyancy adjustment, facilitating obstacle clearance. Only one operator is required for its operation. Sediment is evacuated through a hose connected to an external pump, located outside the tank, ensuring rapid and efficient waste removal of up to 10 mm. AspiROV offers a reliable and practical solution for maintaining the cleanliness and integrity of your water storage tanks.



VIDEO CAMERAS

The AspiROV robot is equipped with two 700 TVL high-sensitivity cameras. The rear camera is mounted on a tilt, while the front camera is on a pan & tilt turret.



ROLLING SKID

Equipped with drive wheels, the AspiROV robot can move in all directions along the tank floor. It can also navigate in open water thanks to its thrusters and ballast.



SUCTION NOZZLE

Transparent suction nozzles allow visual monitoring of pumping efficiency. Once the siphon is primed, the pump can be turned off, and evacuation is done by simple hydrostatic pressure.



TECHNICAL SPECIFICATIONS

MAIN FEATURES

Depth rating	100m
Dimensions	L 660mm x W 430mm x H 530mm
Weight	12kg in air / 6kg in water or neutral, adjustable with ballast
Max. speed	Navigation: 1.5m/s, Rolling: 0.2m/s

PROPULSION AND POWER SUPPLY

Thrusters	5 thrusters with submersible brushless motors; 4 longitudinal and 1 vertical
Wheels	2 motorized rear wheels (2x10W) and 1 free wheel at the front
Ballast	Adjustable apparent weight to optimize traction in rolling mode
Power supply	External power supply at 220 VAC (110 VAC on request)

SYSTEM CONTROL

System control	Integrated console in a waterproof case with 8" LCD video screen, digital recorder/player, joysticks, keyboard, and connectors
Ballast control	Pneumatic compressor for filling and emptying the ballast
Video display	8" LCD screen with overlays
Recorder	Digital recorder/player on SD card
Auto functions	Heading, depth, speed

SUCTION SYSTEM

Suction hose	25m reinforced hose for external abrasion + 10m flexible hose
Pump	Centrifugal motor pump 60m ³ /h with 40m discharge hose (firefighter-type)

UMBILICAL

Standard	50m neutral (Ø 7.9mm), Kevlar braid
Optional lengths	Custom extensions up to a total length of 300m

INTEGRATED SENSORS

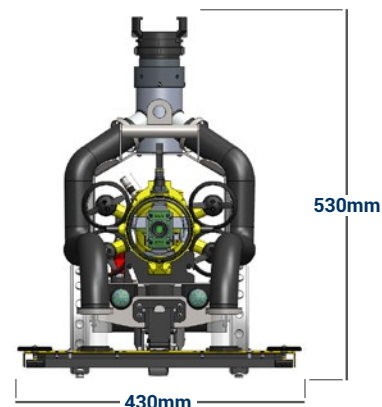
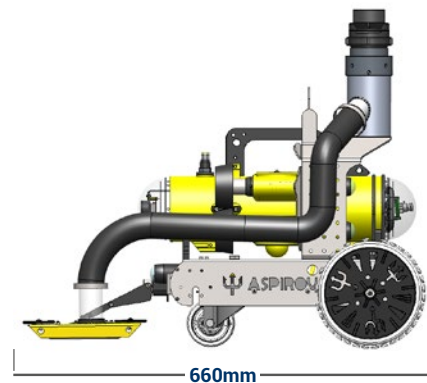
Front/rear cameras	700 TVL color cameras with 0.01 lux sensitivity
Pan & Tilt	Integrated pan & tilt turret on the front camera, tilt on the rear camera
Lighting	2x2400 lumens at the front, 3x1000 lumens at the rear, with intensity control
Sensors	Compass, depth, temperature, internal humidity detector

PACKAGING

Transport	Transport case including the Guardian mini-ROV in its Pelicase + skid, pump, and hoses
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MAINTENANCE AND WARRANTY

Documentation	Operator manual in paper and digital version
Maintenance	No specific maintenance required
Warranty	1 year parts and labor, excluding transport fees



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