

Mini-ROV Guardian



Depth rating 150m



5 thrusters



2 color video cameras



Ultra-portable



SUBSEA TECH
Marine and Underwater Technologies

The Guardian Mini-ROV

is a 150m depth rated ultra-portable underwater inspection robot equipped with 4 horizontal and 1 vertical thrusters. Fitted with 2 high resolution color video cameras, one on pan&tilt, and LED lighting, it has been especially designed for long range missions (> 400m). Thanks to an ancillary plug, various accessories such as sonars, gauges and manipulator can easily be mounted on the Guardian.

The complete system with its umbilical is packaged in one single transport case with a total weight of 29 kg.



VIDEO CAMERAS

The Guardian mini-ROV embeds 2 high sensitivity 700 TVL video cameras. Rear camera is fix while front camera is mounted on pan&tilt.



PROPULSION

Equipped with 4 horizontal and 1 vertical thrusters with magnetic coupling, the Guardian Mini-ROV can reach a 3 knots speed.



ANCILLARY PLUG

The quick plug interface available on the Guardian mini-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 470mm x l 254mm x H 160mm
ROV weight	4,5kg in air / neutral in water
ROV max. speed	3 knots (max. operational current 2 knots)

PROPULSION AND POWER SUPPLY

Thrusters	5 magnetic coupling thrusters : 4 horizontal and 1 vertical
Power supply	External power 220 VAC (110 VAC on demand)

SYSTEM CONTROL

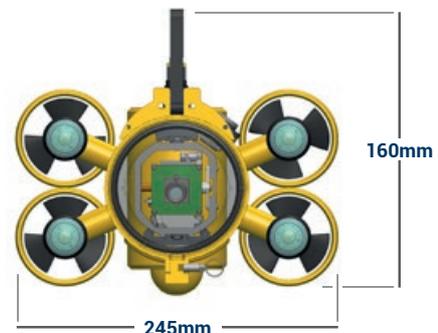
Piloting	Console integrated in a waterproof case
Video display	8" LCD screen with data overlay
Control	2 multi-function joysticks and soft touchpad
Recorder	Digital recorder/reader on SD card
Auto functions	Heading, depth, Up/Down, speed
Video outputs	2 RCA connectors

INTEGRATED SENSORS

Front/rear cameras	Colors video cameras, 700 TVL, 0,01 lux
Pan & Tilt	Pan & Tilt unit integrated on front camera, optional on rear camera
Lighting	Front : 4 x 900 lumens, Rear : 1000 lumens , intensity control
Sensors	Compass, depth, temperature, leak detector (internal moisture level)

UMBILICAL

Standard	100m : 80m (Ø 6,3mm) + 20m buoyant (Ø 7,9mm), integrated Kevlar braid
Optional lengths	Extensions with customized lengths up to 400m on demand



PACKAGING

Transport	All in one transport case including ROV, console, umbilical and transformer
Dimensions	L 640mm x l 500mm x H 380mm
Weight	29 kg

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

OPTIONS

Acoustic camera	2D imaging sonar Teledyne Blueview M900 or BluePrint Oculus
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 scaling tool with software
Video enhancement	LYYN Hawk Board (integrated or external)
WiFi link	Wifi video transmission on external screen



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