

# Mini-ROV Guardian



Depth rating 150m



5 thrusters



2 colour 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 colour 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

<b>Depth rating</b>	150m
<b>ROV dimensions</b>	L 470mm x l 254mm x H 160mm
<b>ROV weight</b>	4,5kg in air / neutral in water
<b>ROV max. speed</b>	3 knots (max. current 2 knots)

## PROPULSION AND POWER SUPPLY

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

## SYSTEM CONTROL

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

## INTEGRATED SENSORS

<b>Front/rear cameras</b>	Colour video cameras, 700 TVL, 0,01 lux
<b>Pan &amp; Tilt</b>	Pan & Tilt unit integrated on front camera, optional on rear camera
<b>Lighting</b>	Front : 4 x 1200 lumens, Rear : 1000 lumens , intensity control
<b>Sensors</b>	Compass, depth, temperature, leak detector (internal moisture level)

## UMBILICAL

<b>Standard</b>	100m : 80m (Ø 6,3mm) + 20m buoyant (Ø 7,9mm), integrated Kevlar braid
<b>Optional lengths</b>	Extensions with customized lengths up to 500m on demand

## PACKAGING

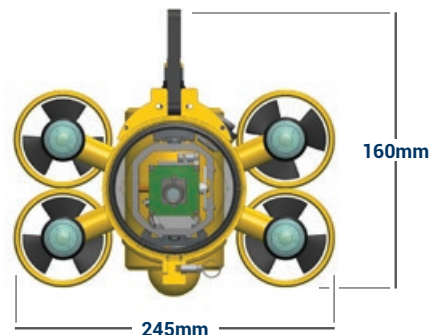
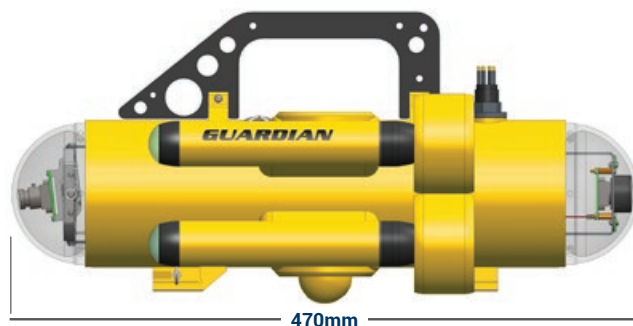
<b>Transport</b>	Single transport case including ROV, console, umbilical and transformer
<b>Dimensions</b>	L 640mm x l 500mm x H 380mm
<b>Weight</b>	29 kg

## MAINTENANCE AND WARRANTY

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

## OPTIONS

<b>Acoustic camera</b>	2D imaging sonar Teledyne Blueview M series or BluePrint Oculus
<b>Mechanical sonar</b>	Tritech Micron DST or equivalent
<b>Acoustic posit.</b>	BluePrint Seatrac USBL
<b>Thickness measurement</b>	Cygnus US gauges
<b>CP measurement</b>	Buckleys CP probes
<b>Physico-chem. measures</b>	Salinity, pH, turbidity gauges
<b>Manipulator</b>	2 functions manipulator
<b>Samplers</b>	Water and sediments samplers
<b>Defect scaling</b>	Laser pointer scaling tool with software
<b>Video enhancement</b>	LYYN Hawk Board (integrated or external)
<b>WiFi link</b>	Wifi video transmission on external screen
<b>Contrat support</b>	Contrat annuel de maintenance



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