

R.O.V. SENTINEL 2.1



amesys
BEN

PRINCIPAL CHARACTERISTICS

- **Dimensions**
 - 49 cm (L) x 27 cm (H) x 21 cm (l)
 - L 19.3 x W 10.6 x H 8.3 inches
- **Depth rating**
 - 150 meters (500 feet)
- **Weight**
 - 6.5 kg (14.3 lbs.)
- **Maximum speed**
 - 3.5 knots
- **Umbilical length**
 - 50 meters (50, 150, 200m options)
- **Vision**
 - 1 high resolution (530 lines)/high sensitivity (0.002 lux) **color camera**
 - 2x900 lumen LED lights, variable intensity
- **Pilot interface**
 - Integrated in one waterproof case
 - 8.1" video screen
 - Navigation joystick
- **3 to 4 hours system autonomy on embedded batteries**

Rechargeable and operable on external supply (110-220 V)

DESCRIPTION

Sentinel 2.1 is a hand portable cost effective **observation vehicle**, with the unique feature of having **embedded batteries** allowing the system to be operated instantaneously in the most remote locations.

Packaged in **one single transport bag**, with a total weight of **17kg** (38lbs), including umbilical and control console, it is a highly portable system, for both inshore and offshore waters. Equipped in its standard version with **a high quality color camera** (530 lines, 0.002 Lux) and an 8.1" LCD video screen, it provides underwater inspection capability at a fraction of the cost of human diving.

The video output connector on the pilot console allows the use of an additional external screen or a video recorder.

OPTIONS

- Rear Camera,
- Video recorder / storage,
- Search sonar (Micron DST),
- 2 functions manipulator,
- Water / sediment sampler,
- Integrated acoustic positioning.

TECHNICAL SPECIFICATIONS

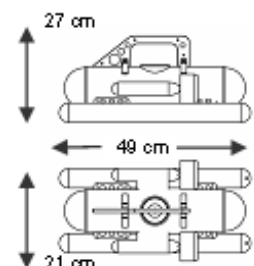
Main Features		
Rated Depth	150 m (500 feet).	
Dimensions	Length x Width x Height : 450 mm x 270 mm x 210 mm - 17.7 in x 10.6 in x 8.6 in.	
Weight	In air: 6,0 kg (13,3 lbs) In water : neutral, adjustable by clump weights on bottom cylinders.	
Speed	3,5 knots.	
Propulsion and Energy		
Thrusters	3 thrusters : 2 longitudinal (forward/backward), 1 vertical (up/down).	
Propellers	3 x 3 blades propellers with funnels.	
Accumulators	Ni-MH accumulators, 3 hours autonomy (vehicle + console).	
External power	AC 110-220 V – allows simultaneous ROV operation + accu recharge.	
Control System		
Console	Integrated in a 12" x 10" waterproof case: Video screen and digital recorder in the lid, joystick, keypad and connectors in the base.	
Video display	8.1" Color LCD screen.	
Digital recorder	"One touch" Integrated digital recorder, 3 levels of compression, data storage on USB key.	option
Keypad	1 navigation joystick, on/off power and lights, DC connector and video output for screen.	
Outputs	1 RCA connectors for video display/recorder.	
Video cameras and lighting		
Front camera	Color camera, 530 lines, 0,002 lux.	
Rear camera	Color camera, 530 lines, 0,002 lux.	option
Lighting (front)	2 x 900 lumen LEDs, each side of front camera.	
Pan & tilt	Pan & tilt unit on front or rear camera, with joystick control	option
Sensors and tools		
On board sensors	Compass, pressure, temperature.	option
Sonar	Tritech Micron DST sonar or equivalent.	option
Acoustic posit.	Mini USBL (with console integrated display) or GIB Lite™ ("Underwater GPS").	option
Sampling	Water and/or sediment sampling tool.	option
Manipulator	2 functions (wrist rotation, grabbing) manipulator. Non parallel jaws, maximum opening: 75 mm. Larger jaws on request.	option
Audio comm.	2 ways audio communication with vehicle (listening/speaking mode).	option
Umbilical		
Standard	50 m umbilical, 5.2 mm diameter with Kevlar braid (100 kgf breaking load).	
Extensions	50 or 100 m umbilical extensions (up to 200 m).	option
Packaging and documentation		
Shipping container	"All in one case". Water proof Storm case, lifetime guarantee, with pressure valve, wheels and handle. Total weight: 25 kg (55 lbs), including vehicle, control console and umbilical.	option
Operator/maintenance manual	Detailed operator/maintenance manual, printed + electronic version.	
Warranty	One year warranty parts and labor.	
Support contract	Annual maintenance and reconditioning contract, with free upgrades.	option

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