

R7

Compact observation class ROV

- Versatile, multi-function design
- Highly manoeuvrable
- Fully digital
- Ergonomic & intuitive user interface
- Man-portable & simple to deploy
- Professional-grade robustness
- Highly serviceable & easy to maintain



OPERATIONAL PERFORMANCES

Movements	In 3 axes + rotation on its own axis
Forward speed	3 knots (In 0 knots current)
Operating depth	300m in sea water
Operating T°C	-2 / 37°C (Water)
Storage T°C	-10 / 50°C (Air)

VISION SYSTEM

Inspection TV camera on Tilt unit

- 4x Optical Zoom 1080p Full HD color TV camera

Lighting

- 2 LED spotlight of 5000lm each
- 2 additional spotlights available as option

NAVIGATION SENSORS

- Integrated Inertial Motion Unit (IMU) for ROV attitude control and automatic correction
- Heading sensor with auto heading function
- Depth sensor with auto depth function
- Altimeter with auto altitude function

SURFACE COMPONENTS

Control command unit

- Incorporated in watertight shockproof suitcase (IP65 in operation, IP 67 in transport mode)
- Integrating rugged and fanless hard drive 1TB SSD
- 15,6" touch screen (Resolution 1920x1080 Full HD)
- Second screen available as an option
- Weight in air < 35kg

Power Supply Unit

- Incorporated in watertight shockproof suitcase (IP65 in operation, IP 67 in transport mode)
- Power supply: 110/230VAC - 3kW
- Man portable: weight in air < 35kg



R7 - HMI navigation display



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CHARACTERISTICS

Digital design allows connection with all modern payloads

Dimensions (mm)	L 780 x W 551 x H 424
Weight in air	< 35 kg w/o additional equipment
Material	Polypropylene frame, stainless steel fittings
Propulsion	7 dc thrusters 4 horizontal (vectored)/ 3 vertical (for attitude correction)

OPTIONS

- Navigation and profiling sonar
- Imaging sonar
- 2 to 5 function electric manipulator arm (Dual arm configuration available)
- USBL positioning system
- Doppler Velocity Log (DVL)
- Up to two additional LED lights (5000lm each)
- Ultra-sensitive 1080p Full HD colour navigation camera

HUMAN MACHINE INTERFACE

- Screen designed for sunny and harsh environments
- Optional additional screen for Sonar, USBL or second video camera
- Software control feature (Cameras, lightings, thrusters...)
- Monitoring of all ROV's subset functions (T°, voltage, current...)
- Auto heading, auto depth, auto altitude and auto attitude corrections
- Recording of Full HD videos and snapshots on internal SSD
- Self-diagnosis of the whole system
- Head-up display of navigation parameters, amps & voltage, fault indicators
- Ergonomic joystick controller

MAINTENANCE

- Easy access to all payloads
- Payloads can be replaced with standard tools
- Quick and easy change of thrusters

FRANCE & OTHER COUNTRIES

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