

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

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



R7 - HMI navigation display

MAINTENANCE

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



R7 - HMI navigation display