CASE STUDY
OHRID ROV

SA ScientAct

In Brief:

The case: Remotely Operated Vehicle (ROV)

Year: 2013

Project Administrator:

Ohrid Hydrobiology Institute

Advantages:

Exterior temperature sensor

20 points Calibration

Integrated bracket

Interface for direct connection to low voltage supply

Project ID:

BOB 2 is a complete autonomous and remotely operated vehicle (ROV).
It is able to measure and transmit huge amounts of data for water quality with minimum cost and extremely high accuracy.

The ROV is continuously connected to the base station for the handling and transfer of data.

The operator has full control of the movement of the ROV and the measurement process and measuring points.

Has onboard computer and can run any software.
Has autopilot with integrated programmer for autonomous missions.

Main Features:

The main advantage of the ROV is that is able to receive any kind of measuring.
instrument, as complex as can be.

- **On board bottom profiler**

- **On board lifting (winch) system**

- **On board water quality profiler**

- **On board Camera**

- **On board industrial PC**

- **On board remote controlled winch**

- **On board mission planner**

- **On board autopilot**

Features - Equipment
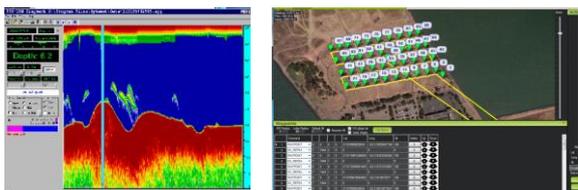
Electric power	
Type	Nano – core technology lithium ion batteries
Capacity	3000mAh X 3
On board winch	
Movement	Via stepper servomechanism
Speed reducer	Included a differential reducer
Depth control	Via magnetic sensor the control system measure the rations and calculate the depth of the submersed equipment
On board camera	
Resolution	640 X 480
Max Frames/sec	25
On Board industrial PC	
Max. speed	1.66 GHz
Memory Technology	DDR2 667 MHz
Memory Max. Capacity	2 GB
Graphics	3.5 Gen Integrated Graphic Engine, CRT Interface
Ethernet	LAN 1 10/100/1000 Mbps
On board Echo sounder	
Frequency	50/210
TCP/IP connection	
Outdoor/RF Line-of-Sight Range	Up to 3.2 km w/ 2.5 dB dipole antenna,
On board Water quality system	
Type	Autonomous profiler
GPS	
Type	external
Compatibility	NMEA 0183
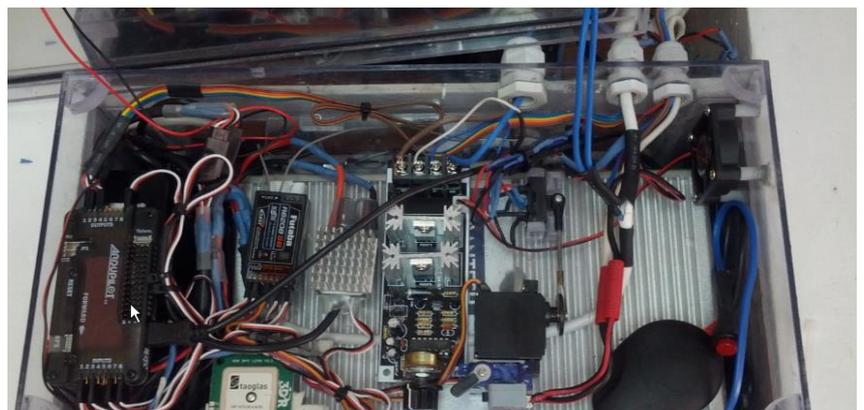
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