

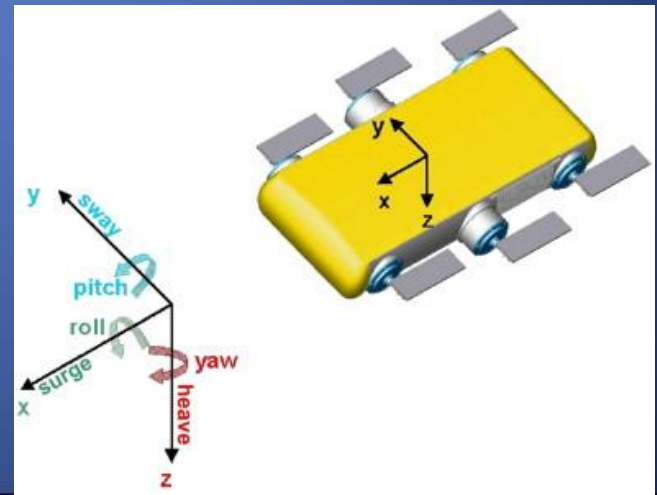
AQUA2



I&R - ITIS PININFARINA

What is aqua 2?

- The Aqua2 is an amphibious hexapod robot capable of propelling itself on land or through the water.
- the AQUA2 underwater robot is an autonomous underwater vehicle (AUV) that uses six independently controlled fins to provide a highly-maneuverable underwater sensor platform.



What is the use?



- This extremely lightweight and portable vehicle provides researchers an ideal platform for research projects ranging from reef monitoring to aquaculture inspection

How does it work?

- It can collect data from on-board cameras, inertial and environmental sensors, the surf zone, or even the open ocean: it has one or two front or rear mounted digital cameras suitable for navigation, data acquisition or stereo reconstruction of the local environment
You can tele-operate AQUA2 from the shore, have it operate autonomously, or can be operated by a scuba diver

Information on Aqua 2

The robot is a highly-maneuverable vehicle that poses no danger to humans or sea life and can land or take-off with minimal impact. The robot has been tested to a depth of 36.5 meters and has an intended operating range of 30 meters from shoreline or other launch base. An on-board control computer operates 6 independent servo motors for a variety of locomotion modes and each battery set provides five hours of vehicle operation.



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