

Autonomous Underwater Vehicle (AUV) Vehicle specifications and capabilities

(Please, attach this document to the Team Information Form and/or the Team Match Form)

Vehicle Details

Team's Name: OUBOT

Vehicle's Name: Sparus

Vehicle's Version: II

Picture of the vehicle:



Vehicle Features

Vehicle weight: 52kg

Dimensions: 160x23x46cm

Maximum payload capacity:

Nominal mission time (i.e. with mission payload):

Depth Rating: 200m

Cruise speed:

Maximum speed: **4knots**

Navigation System and accuracy: **PCle/104, Intel Core i7**

Please, select the option that applies to your vehicle:

Full remotely piloted

Fully Autonomous

On- board sensors

Please, describe in this section the on-board sensors of your vehicle (i.e. visual/IR cameras, sonar, DVL, altimeter, IMU, GPS, etc...).

Visual camera

Multibeam sonar

Compass

IMU

DVL

altimeter

Communication

Please, define the frequencies and the technologies used for communication with the vehicle when on surface and underwater (e.g. WiFi, radiolink, acoustic modem)

WiFi

ethernet

Security features

Please, describe the communication capabilities of the vehicle and possibilities for communicating with other robots at surface and underwater In case of a Team Match, please give relevant information for teams from other domains (i.e. use of ROS as software architecture for a better communication of multi-domain robots).

WiFi with range 100m

NOTE-1: The information in this form will be published on the euRathlon website for dissemination purposes.

Please tell us if there is some information that you wish to keep private (i.e. by marking or highlighting that text).

NOTE-2: If you are requesting a Team Match, the whole of the information in this form will be provided only to those teams we believe to be good candidates, from a different domain, for a possible match.