Communication & Interface

RobAIR robot

The RobAIR robot is controllable by any device which can access to internet.

Others Equipments

Equiped with a grid of microphones for visio-conferencing, a battery, and a WiFi roaming system for not being disconnected when the robot is moving
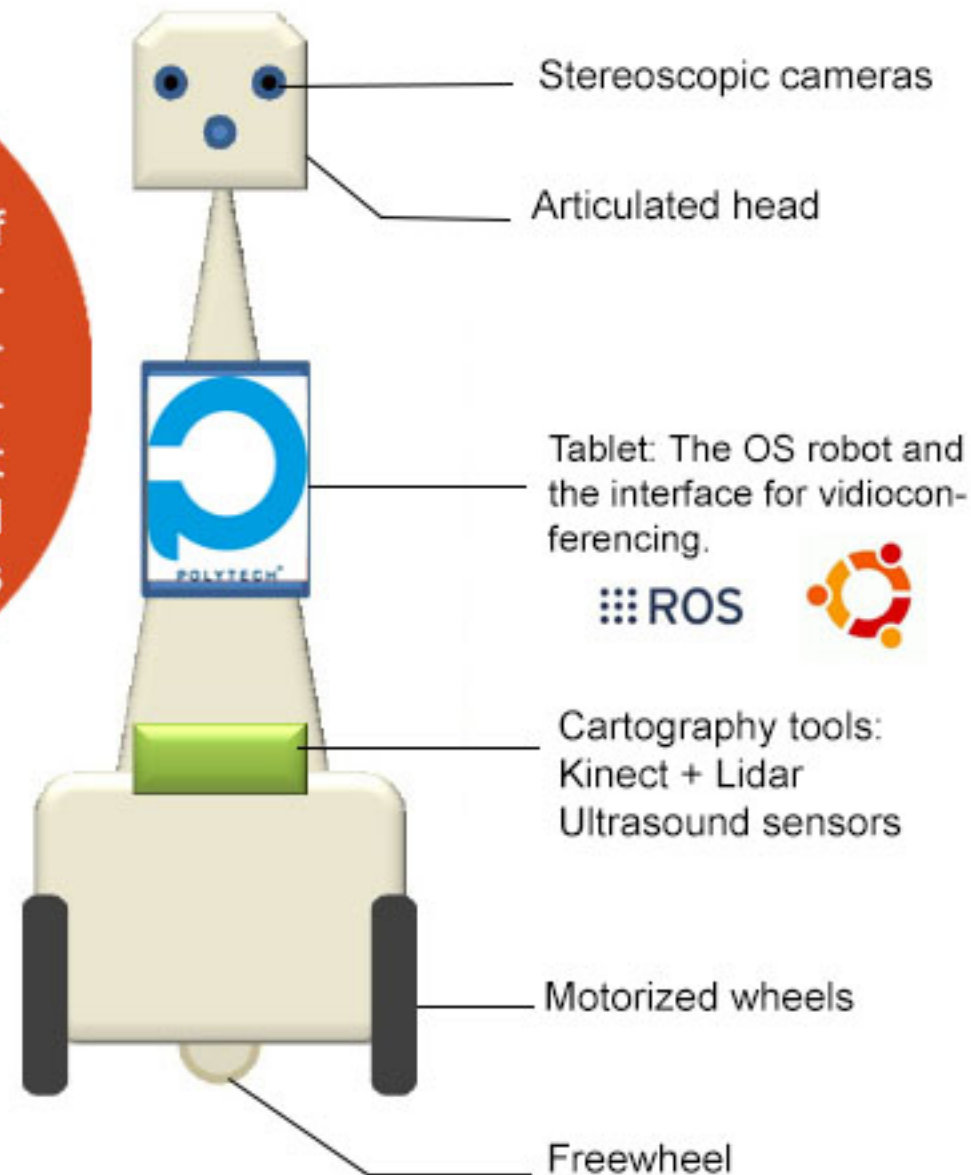
A screen display the videoconferencing and some information about the robot.

The TV controller catches command sent and retransmit them to the robot.

Stereoscopic cameras

Articulated head

Tablet: The OS robot and the interface for vidioconferencing.

⋮⋮⋮ ROS

Cartography tools: Kinect + Lidar Ultrasound sensors

Motorized wheels

Freewheel

The robAIR project

RobAIR is a project in which several schools and departments are involved, such as the RICM and 3I departments of Polytech'Grenoble, ENSIMAG and Pole Design de Villefontaine. This project consists of developing an extensible and open-source robotic platform.

The robot, called RobAIR, is a telepresence robot that can be used for museum tours while the user controls it thanks to an Android tablet.

The conception of this robot was divided into several sub-projects:
 * The electronic aspects for the 3I students.
 * WiFi Roaming for the first RICM group.
 * The robotic aspects for the second RICM group.
 * Communication between the user and the robot and interface for the last group.

Find more information on our wiki page:

http://air.imag.fr/mediawiki/index-.php/RobAIR2013

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RobAIR
project

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A RICM 4 project

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