

Wheelphone

Make your mobile phone really mobile

Swiss Made



Android



iPhone



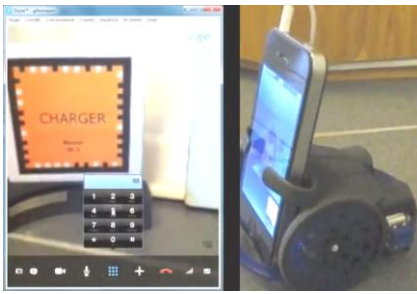
your phone

Wheelphone is the symbiosis between a smartphone and a robot. iPhone is powered by the robot via the dock connector and it communicates with the robot via the audio connector. Android phones are powered and communicate through the micro USB cable.

- Compatible with **Android** phones
- Compatible with **iPhone**
- Telepresence
- Avoid obstacles
- Doesn't fall from table
- Runs on carpet
- Docking station available
- Charges phone
- Available examples (apps) source code



Applications



Telepresence:
worldwide telepresence simply using Skype



Onboard sensors:
move safely on a table avoiding obstacles thanks to its proximity sensors and without falling down thanks to its ground sensors

Line following:
one of the possible behaviors that exploits the ground sensors

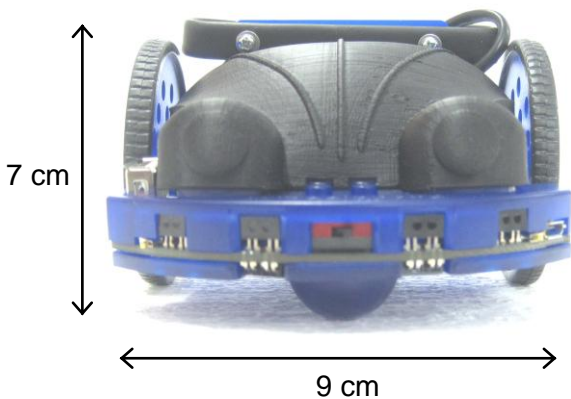


Docking station:
the robot can be programmed to autonomously recharge



ROS:
monitor interface based on Robot Operating System

Specifications



- 92 mm width, 102 mm length, 68 mm height, 200 g
- LiPo rechargeable battery. About 3.5 hours autonomy. Recharging time about 1h45
- Charge with a micro USB(500mA) or with 2 golden contacts in front and the relative docking station(1000mA)
- Microchip PIC24FJ64GB004 @ 16MHz (8 MIPS); 16 bit microcontroller ... and the one of the phone
- RAM: 8 KB; Flash: 64 KB ... and the one of the phone
- 2 DC geared motors; speed controlled with backEMF
- Max: 30 cm/s
- Molded plastic case, adaptable phone holder
- 4 infra-red sensors detecting objects proximity and ambient light; 4 ground sensors detecting cliffs or color differences
- 1 red/green LED (charging/charged indicator)
- Android: USB high speed; iPhone: sound cable. Both reaches 20 Hz sensor refresh
- Additional USB connector (type A) as alternative to the micro USB cable
- Android SDK, iOS SDK

PRICE: 250\$ www.wheelphone.com

