

RoboCup team Photon robot specification

Team Photon uses DARwIn-OP robot from Robotis.



- Robot name: Robotis DARwIn-OP
- Height of the robot: 454.5 mm
- Weight: of the robot 2.9 kg
- Walking speed in cm/s: 14.0 cm/sec
- Number of degrees of freedom and type of motors on each kinematic chain of the robot: 20 (6 DOF per leg, 3 DOF per arm, 2 DOF in neck), motors: 20 × Dynamixel MX-28
- Type of sensors used (incl. type of camera(s)): 3-axis gyro, 3-axis accelerometer, 3 buttons, 2 microphones, camera: Logitech C905
- Computing Unit: fitPC2i (Intel Atom 1.6GHz) Ubuntu Linux, CM-730 (ARM CortexM3 STM32F103RE 72MHz)