

## aiRobots : Robot Specification for Humanoid KidSize League of RoboCup 2010

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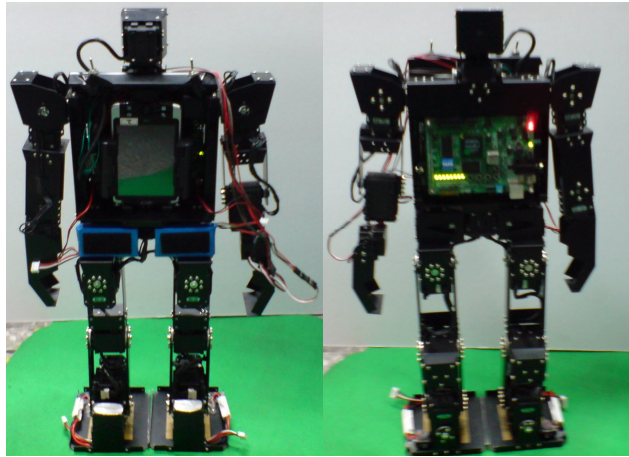


Fig. 1. Picture of aiRobot-III

- Robot name: aiRobot-III
- Number of degrees of freedom: 21 DOF ( 2 in head, 4 in shoulders, 4 in arms, 5 in hips, 2 in knees, 4 in ankles )
- Type of motors: Dynamixel actuators ( AX-12 \* 10, AX-28 \* 9, AX-64 \* 2 )
- Computing unit: Acer N300 PDA ( 400MHz ), Altera Nios Cyclone II EP2C20F484C8 ( 50MHz )
- Camera: Logitech QuickCam Pro5000 CMOS Sensor
- Sensors: Tri-axes accelerometer Hitachi H48C, Digital compass TDCM3
- Walking speed: 16cm/sec
- Other specs: Height : 55cm, Weight : 3.2kg