

Team aiRobot KidSize 2009 Robot Specification

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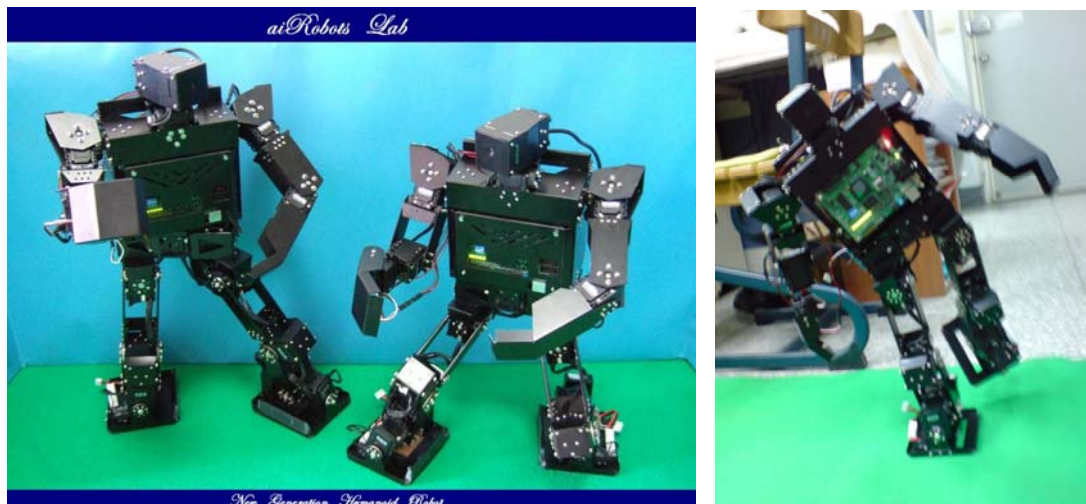


Fig.1 Picture of aiRobot-III

- **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