

I-kid Robot Specification Page

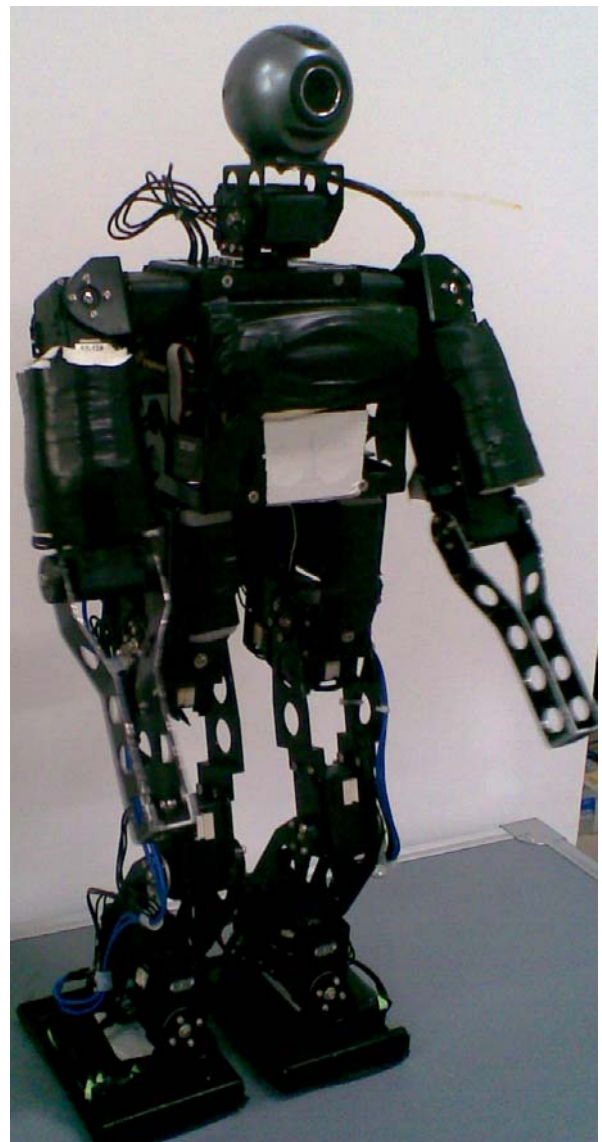
Humanoid Kid-Size League, RoboCup 2012

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Specification:

Robot Name	GRM-Lite
Height	57.6 Cm
Weight	3.02 Kg
Walking Speed	30 cm/s
Degrees of Freedom	21 in total with 6 in each leg, 3 in each arm, 1 in the waist, 2 in the neck
Type of Motors	13 Robotics RX-28 8 Robotics AX-12
Computing Unit	PC104 AMD LX800, 500MHz
Network Communication	Cortex-M3 LPC1768, 100MHz
Sensors:	
▪ Camera	Logitech Quickcam 5000
Frame Rate	15 f/s
Angle	50
Resolution	640*480
▪ Accelerometer	ADXL203
▪ Gyroscope	LPR530AL
Power Source	Polymer Lithium Ion Batteries, special Power Module
Capacity	full-load operation , 10min
Operating System	Linux
Control of Motor	ARM+Real Time Operating System
Memory	256M internal memory+4G external storage
Gait Locomotion	Real-time planning, Omni-directional

Robot picture:



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Robot picture:

Specification:



Robot Name	GRM-Strong
Height	58.3 Cm
Weight	5.34 Kg
Walking Speed	24 cm/s
Degrees of Freedom	21 in total with 6 in each leg,3 in each arm, 1 in the waist,2 in the neck
Type of Motors	13 Robotics RX-64 8 Robotics RX-28
Computing Unit	PC104 AMD LX800,500MHz
Network Communication	Cortex-M3 LPC1768, 100MHz
Sensors:	
▪ Camera	Logitech Quickcam 5000
Frame Rate	15 f/s
Angle	50
Resolution	640*480
▪ Accelerometer	ADXL203
▪ Gyroscope	LPR530AL
Power Source	Polymer Lithium Ion Batteries, special Power Module
Capacity	full-load operation , 30min
Operating System	Linux
Control of Motor	ARM+Real Time Operating System
Memory	256M internal memory+4G external storage
Gait Locomotion	Real-time planning, Omni-directional