

MRL Humanoid KidSize Robot Specification 2011

Robot picture:



Height:	42.2 cm
Weight:	2.16 Kg
Walking Speed:	0.02 m/s
Degrees of freedom:	20 in total with 6 in each leg, 3 in each arm, and 2 in the neck
Servo motors:	20 Robotis AX-12
Sensors:	
Camera	A4Tech PK-836MJ
Resolution	up to 5 MP
Frame rate	up to 30 fps
Angle	66 Degree
Joint angle encoder	20 (integrated in servos)
Gyroscope (body)	ITG-3200, 3 axis
Accelerometer	ADXL330 Small, Low Power, 3 axis
Pressure Sensor	FSR
Microcontroller board:	
Manufacturer	ROBOTIS
Processor	ATmega128
WLAN	Zigbee 100
Embedded PC Board:	
Manufacturer	RobotShop Inc.
Processor	DM&P Vortex 86 DX with 1GHz
RAM	256MB DDR 2 onboard
Operating system	Windows XP Embedded
I/O Interface	Micro SD slot x1 USB port x 1 (USB 2.0 version)
Power Consumption	+5V @ 400 mA
Batteries:	9.6 V, 2300mAH