



Name: KM-1/KM-2/KM-3/KM-4

Height: 49 CM

Weight: 3 KG

Walking speed: ~0.2m/s

Number of DOF: 22

Actuators used: Servo motor

- * Manufacturer: ROBOTIS Dynamixel RX-28, RX-64

- * Torque: 33 KG-CM (@14.8V), KG-CM (@14.8V)

- * Speed: 0.126sec/60°, sec/60°

Sensors used:

Camera

- * Manufacturer: Logitech Quickcam Pro9000

- * Specification: 15 frames per sec., 320 X 640 resolutions

Tilt Sensor

- * Manufacturer: Analog Device, ADXL202

- * Specification: +/- 2g

Rate Gyro (2X)

- * Manufacturer: Silicon Sensing Systems, CRS03-02

- * Specification: +/- 100 deg/sec

Magnetic Compass

- * Manufacturer: Devantech

- * Specification: Resolution 0.1 degree (Accuracy ~5 degree)

Processing boards used:

Vision Board and Main PC

- * Manufacturer: Advantech

- * Processor: Geode LX-800 for PCM3353 (PC-104 format)

- * Speed: 500 MHz

- * OS: LINUX

Motor controller

- * Manufacturer: Philips LPC-2138

- * Processor: ARM7 TDMI-S

- * Speed: 60MHz