



Robot Name: GRM-Strong

Height: 583mm

Weight: 5341g

Walking speed: 0.035m/s

Number of degrees of freedom: 20

Joint torques: RX64, 64.4kgf/cm, RX28: 28.8kgf/cm

Type of sensors used: Logitech Quickcam 5000, ADCL203 accelerometer

Computing units: Tiny 210 AMD lx800 500MHz

Source: Polymer Lithium Ion Batteries, special Power Module

Capacity: full-load operation 25min

gait locomotion: Current planning, global motion

the control of motor: ARM+Real Time Operating System, 100MHz

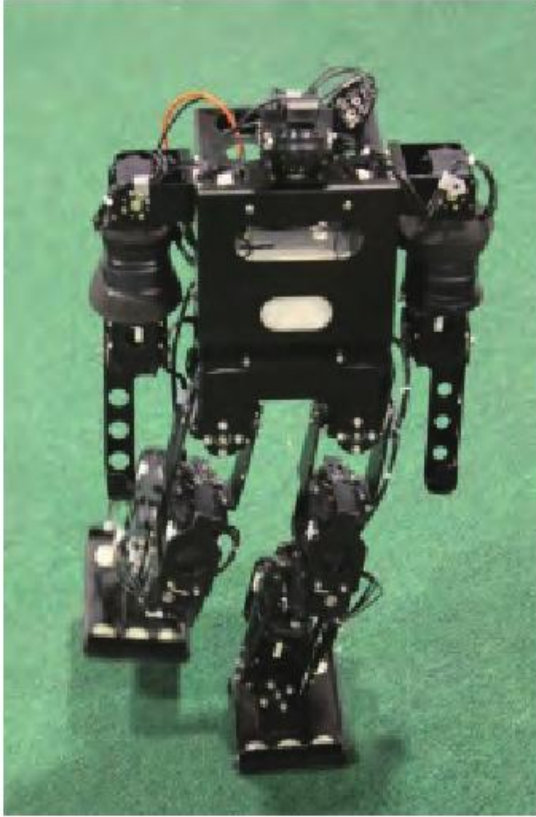
image acquisition: 640*480, 30f/s

the software of gait: MotionDebug4.3 support the wireless debug

memory: 256M internal memory + 4G external storage

network: cortex-M3 LPC1768

operating system: Linux



Robot Name: GRM-8

Height: 683mm

Weight: 5938g

Walking speed: 0.04m/s

Number of degrees of freedom: 20

Joint torques: MX64, 64.4kgf/cm, MX28: 28.8kgf/cm, MX106 100.6Kgf/cm

Type of sensors used: WebCam(with CMOS sensor SONY IMX322), AHRS sensor

Computing units: nVidia Jetson TX2

Operating system: Ubuntu 14.04

Power Source: Polymer Lithium Ion Batteries(14.4V)

Capacity: full-load operation 25min

gait locomotion: real-time omnidirectional walking with online stabilization

lower controller: cortex-M3(LPC1768)+Real Time Operating System(ucOS), 100MHz

image acquisition:1920*1280,30f/s

Software of gait generation: MotionDebug4.3 with WLAN support