

Robo-Erectus Sr-2015 AdultSize Robot Specifications.

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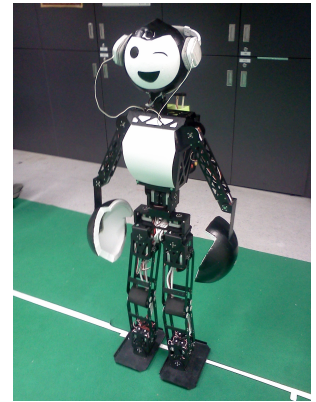
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url: www.rob-erectus.org

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Physical Specifications of the RESr Winky

1. Physical Specifications.					
Weight	Dimensions			Speed	
	Height	Width	Depth	Walking	Running
13.2kg	1320mm	430mm	260mm	300mm/sec	—
2. List of Degrees of Freedom.					
Joint	Roll	Pitch	Yaw		
Head		✓	✓		
Shoulder	✓	✓			
Elbow		✓			
Hip	✓		✓		
Knee		✓✓			
Ankle	✓				
3. Sensors.					
Sensor	Details				
Camera	Philips 900NC: 640x480 Resolution 30fps.				
Rate Gyro (IMU)	IDG-3200: $\pm 2000^\circ/sec$ angular rate.				
Accelerometer(IMU)	ADXL345: $\pm 6g$				
4. Actuators.					
Actuator	Torque			Speed	
Kondo KRS-6003HS	43.0 kg.cm @ 11.1v			0.15 sec / 60 deg @ 11.1v	
Kondo KRS-6003HV	67.0 kg.cm @ 11.1v			0.22 sec / 60 deg @ 11.1v	
5. Specifications of the boards.					
Features	High Level Host Processor			Low Level Micro-processor	
Processor	fitPC2i			dsPIC32	
Speed	1600Mhz			80Mhz	



Physical Specifications of the RESr Bv-MkI

Under Construction

1. Physical Specifications. (Estimated)					
Weight	Dimensions			Speed	
	Height	Width	Depth	Walking	Running
Not Available	1350mm	500mm	300mm	Not Available	—
2. List of Degrees of Freedom.					
Joint	Roll	Pitch	Yaw		
Head		✓	✓		
Shoulder	✓	✓			
Elbow		✓			
Hand		✓			
Hip	✓	✓	✓		
Knee		✓✓			
Ankle	✓	✓			
3. Sensors.					
Sensor	Details				
Camera	Logitech C905: 640x480 Resolution 30fps.				
Rate Gyro (IMU)	IDG-3200: $\pm 2000^\circ/sec$ angular rate.				
Accelerometer(IMU)	ADXL345: $\pm 6g$				
4. Actuators.					
Actuator	Torque			Speed	
Vstone S-SV3310	327.0 kg.cm @ 16.8v			0.255 sec / 60 deg @ 16.8v	
Kondo KRS-6003HS	43.0 kg.cm @ 11.1v			0.15 sec / 60 deg @ 11.1v	
5. Specifications of the boards.					
Features	High Level Host Processor			Low Level Micro-processor	
Processor	fitPC2i			dsPIC32	
Speed	1600Mhz			80Mhz	