

Robot Specification of Barelang FC

Barelang FC 1



Dimension	Height	655 mm
	Foot	100 mm x 160 mm
	Leg	370 mm
	Arm	305 mm
	Weight	6.2 kg
DOF	Head	2 DOF
	Hip	2 x 1 DOF
	Arm	2 x 3 DOF
	Leg	2 x 5 DOF
Motion	Walking Speed	25 cm/sec
CPU	Main Controller	Intel NUC (Intel Core i3 1.70GHz)
	Sub Controller	CM-730 (ARM CortexM3 STM32F103RE 720MHz)
Actuator	Head	2 Dynamixel MX-28
	Arm	2 x 3 Dynamixel MX-28
	Hip	2 x 1 Dynamixel MX-64
	Leg	2 x 6 Dynamixel MX-64
Sensor	Gyroscope	LYPF540AH
	Accelerometer	ADXL335
	Camera	Logitech C930
Power	Battery LiPo 4 Cell 2200 mAh	

Barelang FC 2



Dimension	Height	550 mm
	Foot	80 mm x 135 mm
	Leg	275 mm
	Arm	250 mm
	Weight	4.45 kg
DOF	Head	2 DOF
	Hip	2 x 1 DOF
	Arm	2 x 3 DOF
	Leg	2 x 5 DOF
Motion	Walking Speed	25 cm/sec
CPU	Main Controller	Intel NUC (Intel Core i3 1.70GHz)
	Sub Controller	CM-730 (ARM CortexM3 STM32F103RE 720MHz)
Actuator	Head	2 Dynamixel MX-28
	Arm	2 x 3 Dynamixel MX-28
	Hip	2 x 1 Dynamixel MX-28
	Leg	2 x 6 Dynamixel MX-64
Sensor	Gyroscope	LYPF540AH
	Accelerometer	ADXL335
	Camera	Logitech C930
Power	Battery LiPo 4 Cell 2200 mAh	

Barelang FC 3



Dimension	Height	655 mm
	Foot	100 mm x 160 mm
	Leg	370 mm
	Arm	305 mm
	Weight	6.2 kg
DOF	Head	2 DOF
	Hip	2 x 1 DOF
	Arm	2 x 3 DOF
	Leg	2 x 5 DOF
Motion	Walking Speed	25 cm/sec
CPU	Main Controller	Intel NUC (Intel Core i5 2.90GHz)
	Sub Controller	CM-730 (ARM CortexM3 STM32F103RE 720MHz)
Actuator	Head	2 Dynamixel MX-28
	Arm	2 x 3 Dynamixel MX-64
	Hip	2 x 1 Dynamixel MX-64
	Leg	2 x 6 Dynamixel MX-106
Sensor	Gyroscope	LYPF540AH
	Accelerometer	ADXL335
	Camera	Logitech C930
Power	Battery LiPo 4 Cell 2200 mAh	

Barelang FC 4



Dimension	Height	565 mm
	Foot	80 mm x 125 mm
	Leg	280 mm
	Arm	245 mm
	Weight	4.6 kg
DOF	Head	2 DOF
	Hip	2 x 1 DOF
	Arm	2 x 3 DOF
	Leg	2 x 5 DOF
Motion	Walking Speed	25 cm/sec
CPU	Main Controller	Intel NUC (Intel Core i5 2.90GHz)
	Sub Controller	CM-730 (ARM CortexM3 STM32F103RE 720MHz)
Actuator	Head	2 Dynamixel MX-28
	Arm	2 x 3 Dynamixel MX-28
	Hip	2 x 1 Dynamixel MX-64
	Leg	2 x 6 Dynamixel MX-64
Sensor	Gyroscope	LYPF540AH
	Accelerometer	ADXL335
	Camera	Logitech C930
Power	Battery LiPo 4 Cell 2200 mAh	

Barelang FC 5



Dimension	Height	560 mm
	Foot	80 mm x 130 mm
	Leg	290 mm
	Arm	245 mm
	Weight	4.45 kg
DOF	Head	2 DOF
	Hip	2 x 1 DOF
	Arm	2 x 3 DOF
	Leg	2 x 5 DOF
Motion	Walking Speed	25 cm/sec
CPU	Main Controller	Intel NUC (Intel Core i3 1.70GHz)
	Sub Controller	CM-730 (ARM CortexM3 STM32F103RE 720MHz)
Actuator	Head	2 Dynamixel MX-28
	Arm	2 x 3 Dynamixel MX-28
	Hip	2 x 1 Dynamixel MX-64
	Leg	2 x 6 Dynamixel MX-64
Sensor	Gyroscope	LYPF540AH
	Accelerometer	ADXL335
	Camera	Logitech C930
Power	Battery LiPo 4 Cell 2200 mAh	