

ICHIRO-ITS Robot Specification

Humanoid KidSize League, Robocup 2020 Bordeaux, France

muhtadin@ee.its.ac.id , ichiro.its@gmail.com

Lab. Robot Cerdas, Robotics Centre Building, Institut Teknologi Sepuluh Nopember (ITS),
Surabaya 60111, East Java, INDONESIA



Figure 1 Robot Ichiro Arata

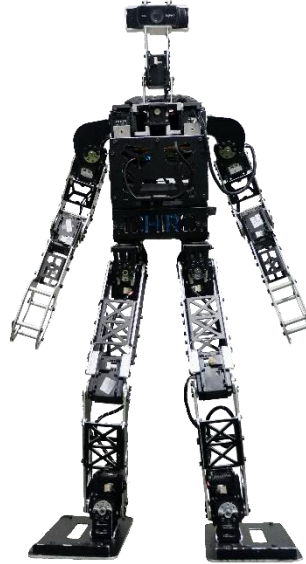


Figure 2 Robot Ichiro Ithaaro

Table 1 Robot Ichiro Specification

Items	Robot Ichiro Arata	Robot Ichiro Ithaaro
Robot Name	Arata	Ithaaro
Height	58 cm	84 cm
Weight	4.3 kg	7.2 kg
Number of Robots	3 Robots	2 Robot
Walking Speed	25 cm/s	22 cm/s
Motors	20 DOF Neck : 2 motors Dynamixel MX-28 Arm : 3 motors Dynamixel MX-64 (x2) Leg : 6 motors Dynamixel MX-106 (x2)	20 DOF Neck : 2 motors Dynamixel MX-28 Arm : 3 motors Dynamixel MX-64 (x2) Leg : 6 motors Dynamixel MX-106 (x2)
Sensors	IMU : MPU6050 Camera : Logitech C930 Force sensor : Load Cell	IMU : MPU6050 Camera : Logitech C930 Force sensor : Load Cell
Computing Unit	Main Controller : Jetson TX2 Sub Controller : CM-740, Arduino Nano	Main Controller : Jetson TX2 Sub Controller : CM-740, Arduino Nano
Operating System	Linux Ubuntu 18.04.3 LTS	Linux Ubuntu 18.04.3 LTS