



SoftBank Robotics NAO

An autonomous, programmable humanoid robot, featuring an inertial measurement unit with accelerometer, gyrometer and four ultrasonic sensors. Force-sensing resistors on legs for adaptive walking. Microphones, Ethernet and Wi-Fi connectivity, 2 cameras with face detection. Linux-based operating system. Compatible with the Microsoft Robotics Studio, Cyberbotics Webots, and the Gostai URBI Studio.

Key Features

- CPU: Intel Atom @ 1.6 GHz
- Compatible OS: Windows, Mac OS, Linux
- Programmable using Python, C++, Java, MATLAB
- Two HD cameras, four microphones, sonar rangefinder, two infrared emitters and receivers, inertial board, nine tactile sensors, eight pressure sensors

Possible Applications

- Robot/Robot Interaction
- Robot Listening and Speaking Experiments
- Environment Perception
- Education



Access information

Corresponding infrastructure	University of the West of England Bristol Robotics Laboratory
Location	Coldharbour Ln, Stoke Gifford, Bristol BS16 1QY, UK
Unit of access	Working day

Technical specifications

DoA	25
Interface	Ethernet, Wi-Fi
Autonomy	90 minutes (lithium battery providing 48.6 Wh)
Weight	4.3 kg
Height	58 cm

Additional information

Additional information available [here](#).