



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

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|-------------------------------------|------------------------------------------------------------------|
| 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

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|------------------|------------------------------------------------|
| 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](#).