

NimbRo KidSize 2007 Robot Data Sheet

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<http://www.NimbRo.net>

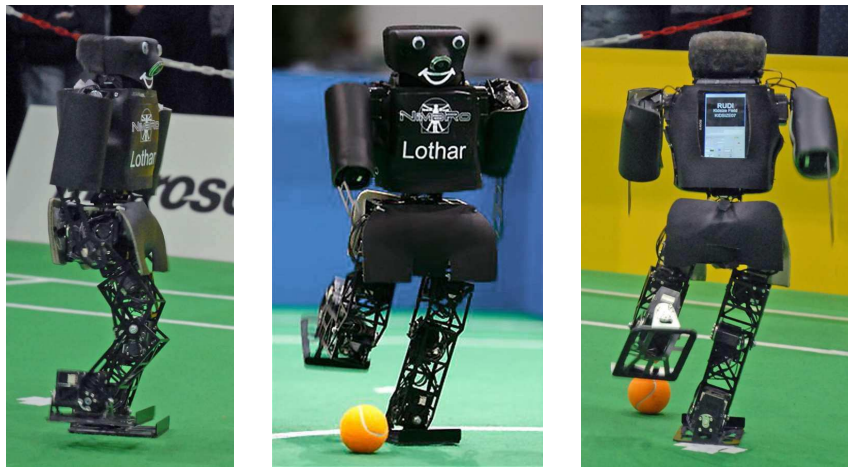


Fig. 1. NimbRo KidSize 2007 robots Lothar and Rudi with new camera head.

- **Robot names:** Rudi, Lothar, and Jürgen
- **Number of degree of freedom:** 20 DOF: 6 per leg, 3 per arm, 2 in the trunk
- **Type of motors:** Robotis Dynamixel RX-64 and DX-117
- **Computing unit:** Sony VAIO UX1XN ultra mobile PC, Intel 1.3GHz Core Solo
- **Walking speed:** up to 50cm/s, omnidirectional walking
- **Cameras:** three WVGA USB2.0 cameras IDS uEye UI-1226LE, (with wide-angle lenses, combined field-of-view less than 180°)
- **Sensors:** dual-axis accelerometer (ADXL203, $\pm 1.5g$) and two gyroscopes (ADXRS, $\pm 300^\circ/s$)
- **Other specs:** size: 60cm, weight: 4kg.

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Fig. 1. NimbRo KidSize 2008 robot Steffi.

- **Robot names:** Ariane, Birgit, Conny, Steffi
- **Number of degree of freedom:** 17 DOF: 6 per leg, 2 per arm, 1 in the neck
- **Type of motors:** Robotis Dynamixel RX-64 and RX-28
- **Computing unit:** Sony VAIO UX1XN ultra mobile PC, Intel 1.3GHz Core Solo
- **Walking speed:** up to 50cm/s, omnidirectional walking
- **Cameras:** three WVGA USB2.0 cameras IDS uEye UI-1226LE, (with wide-angle lenses, combined field-of-view less than 180°)
- **Sensors:** dual-axis accelerometer (ADXL203, $\pm 1.5g$) and two gyroscopes (ADXRS, $\pm 300^\circ/s$)
- **Other specs:** size: 60cm, weight: 3.5kg.