

Newly released - HOAP-3

Fujitsu Automation, in collaboration with Fujitsu Lab, has developed a new model of their miniature humanoid robot, the HOAP -3, which strengthens cooperation functions with the external world, such as a communication and an image recognition function,.

Their first purchase order has been received and other new sales activities begin today.

Since the sale of the first HOAP-1 in 2001, the HOAP Series Humanoid Robots have targeted the mechanical engineering departments of universities as well as the Robotic research areas, particularly of controls engineering speciality for research and development.

The HOAP-3 provides portability, as it measures only 60cm in height and weighs a mere 8.8 kg, the same as its predecessor, the HOAP-2 which has been on the market since 2003.

HOAP-3 was developed with strengthened cooperation functions such as a communication function, an image recognition function and a new exterior.

HOAP-3 can be used for research of communication with robots, such as a dialog with people. Research and development on the robot included, functions which made vision and operation cooperate by having added a camera, a microphone, a speaker, LED for expression, the vocal

Furthermore, the actuator of the head and arms, now include a distance sensor, grip sensor and more powerful motion expression.

The robot is now standard with vocal recognition, voice synthesis, image recognition and wireless HOAP-3 can be used in various fields, such as robot research, communication research, or as an

Like the previous HOAP series, the internal Interface information of Hardware and Software is open source, so a user is able to program freely.

Included is simulation software, to check developed control programs, for prior verification of movement, efficient program development is possible.

Features of HOAP-3

1. Standard installation of vocal recognition and voice synthesis function
2. All functions can be controlled by the included wireless system
3. Complicated motion function is made easy by the HOAP-3's 28 joints.
4. Each sensors are installed as standard
5. Simulator for verification of operation is equipped as a standard feature.

Specification

Height - 60 cm

Weight - 8.8 kg

Image, Vocal interface

Camera (2 sets)

Microphone (1set)

Speaker (1 set)

Joint freedom .

28 DDF (Degree of Freedom)

Sensor

Gyro sensor (3 axis)

Acceleration sensor (3 axis)

Foot sole sensor (4 pcs per leg)

Grip sensor (1 pc per hand)

Distance sensor (1 pc)

Command PC

OS: RTLinux

CPU: Intel Pentium M Processor 1.1GHz

Wireless unit

Wireless LAN : 802.11g

control cycle : 1ms

Interface and in-body

network

USB 1.0 (12Mbps)

Power supply

DC24V 10A (240W)