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Announcement on reinforcement of expanded functionality of Cleaning Robots ~ Adopted by Haneda Airport for sterilization of the terminal building ~

CYBERDYNE, INC. [Tsukuba, Ibaraki, CEO: Yoshiyuki Sankai (the “Company”) announced that its next-generation Cleaning Robot CL02 (“CL02”) went through upgrades to expand its functionality further. This would allow CL02 to put-on various attachments so that it could be used for purposes other than cleaning. As the first variants of expansion, the Company developed an attachment for CL02 that could spray antiseptic solution, in response to the recent domestic situation and growing needs. The CL02 installed with the relevant attachment was announced to be adopted by Haneda Airport Passenger Terminal.

■ Background

The Company made a signing with Japan Airport Terminal Co., Ltd. (Ota, Tokyo, President: Nobuaki Yokota “Japan Airport Terminal”) for business alliance in July 2015, in order to install next-generation robotic systems in Haneda Airport Passenger Terminal Building. Based on this alliance, the two companies worked together to develop and install various robots. The main purpose of the business alliance is to spread technology of Japan from Haneda Airport, an entry gate to Japan. The alliance also targets to provide quality services towards visitors of the airport based on safety, assurance, and convenience, and to create a healthier working environment for airport employees.

Following the entrance of this alliance, the Company installed HAL Lumbar Type for Labor Support to reduce the workload of the staff members in Airport Limousine Busses on November 2016. The Company then installed CL02 to support the cleaning duty in the Airport on November 2019.

■ Detail on the expanded function

The attachment to spray antiseptic solution was developed as an attachment that expands the function of CL02, a next generation cleaning robot that was adopted by Haneda Airport on November 2019. In addition to the existing ability to clean carpet flooring, the attachment enables CL02 to spray antiseptic solution to walls and floorings in the passenger terminal building. Using the cutting-edge autonomous navigation system, CL02 can work in pre-set areas accurately and autonomously.



Base unit of CL02



Spraying antiseptic solution in terminal building



CL02 with the new attachment

■ Prospects

Haneda Robotics Lab, operated through cooperation of Minister of Land, Infrastructure, Transport and Tourism and the Ministry of Economy, Trade and Industry, has conducted trials to verify the performance and safety of CL02 with the new attachment. Since it fulfilled expectation for both perspectives, CL02 with attachment to spray antiseptic solution was formerly adopted by Haneda Airport. The Company will continue to work with Haneda Airport officials to create a “World’s Leading Future Airport that utilizes Robot Technology” to contribute to safe, assuring and clean airport. Furthermore, the Company will make use of CL02’s ability to navigate autonomously and ability to expand its functions to propose the robot for various use.

<CYBERDYNE, INC.>

The Group’s business is to realize “Society 5.0/5.1”, a future society based on the idea of Techno-Peer-Support where human and technology live together and support each other. This goal is attained through revolutionary changes in industry and society, and The Group seeks to utilize “Cybernetics Technology” (fusion and combination of systems of human, robot and information) that handles “human” + Cyberspace” + “Physical space”, to create a “Cybernetics Industry” for this transition following the breakthroughs of the Robotics Industry and IT Industry.

The Group’s business has a unique advantage in its ability to access and integrate information within the human body (e.g. Brain-nerve and vital systems) in addition to information outside the human body (behavior, life and environmental information) and applying them to different fields such as medicine, nursing care, production, household, and work places. All of the Group’s devices and interfaces are compatible with Internet of Humans/Internet of Things (“IoH/IoT”), and through these products, information of the brain- nerve, vital, physiological, behavioral, life and environmental systems can be integrated and connected to a supercomputer. The Group aims to realize a system where Big Data of the aforementioned information are accumulated, analyzed and processed with AI. The Group simultaneously works on research and development, business development and formation of business alliances to further accelerate the emergence of a Cybernetic Industry that will solve the problems facing society. For further details, please check the website from the following link.
<https://www.cyberdyne.jp/english/>

Link

November 14, 2019 :

Practical installation of Cleaning Robot CL02 for Haneda Airport and Narita Airport

https://www.cyberdyne.jp/wp_uploads/2019/11/20191114_PRCLAirport_ENG.pdf

November 18, 2016:

Haneda Airport Limousine Bus implements CYBERDYNE's HAL for Labor Support

https://www.cyberdyne.jp/english/company/PressReleases_detail.html?id=5102

July 2, 2015:

Basic Agreement Signed on Next-Generation Robot Introduction in the Haneda Airport

https://www.cyberdyne.jp/english/company/PressReleases_detail.html?id=3251