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**Making the Next-Generation Cleaning Robot CL02 ride on elevators on its own
Automation of disinfection work
~ Joint verification with Tokyu Community ~**

CYBERDYNE, INC. [Tsukuba, Ibaraki, CEO: Yoshiyuki Sankai (the “Company”)] is conducting joint verification with TOKYU COMMUNITY CORP. [Setagaya, Tokyo, President: Katsuhide Saiga (“Tokyu Community”)] for the developed Interface Unit for the Cyberdyne’s next generation Cleaning Robot CL02 (“CL02”) that will allow the robot to connect with elevators from multiple vendors.

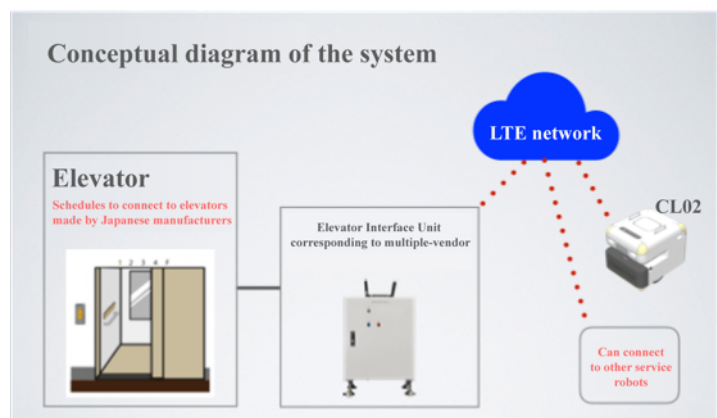
By enabling the autonomous navigated robot to ride on elevators on its own, the area covered by each unit will expand rapidly, enabling efficient and automated cleaning and disinfection work even more.

The autonomous navigated robots of the Company are equipped with one of the world’s most advanced SLAM technology to move fast and accurately on its own. When it is used for cleaning, the robot of the Company is capable of covering 3,000 square meters in 2 hours. The Company began to offer the next-generation Cleaning Robot CL02 (“CL02”) from April 2018 to airports^{*1}, train station and station buildings^{*2} shopping facilities^{*3} and office buildings^{*4} etc. In office buildings, hotels, and other buildings with many floors, the connection with the new interface unit will allow the Company’s autonomous navigation robot to move to other floors without being manned by operators. Furthermore, by attaching the sprayer of anti-septic solution, the robot can be used to automatically disinfect the entire facility.

*SLAM stands for Simultaneous Localization and Mapping



CL02 riding on the elevator



Conceptual diagram

The Company is conducting joint verification with Tokyu Community, to verify the connection with all five-elevator maker which has the dominant share of Japanese market. For starters, the interface unit was set up in NOTIA, which is a property managed by Tokyu Community, to verify the linkage of CL02 and elevators made by Hitachi and the effect of the interface unit was confirmed. The two companies will continue to verify with the remaining four elevator companies at different sites of Tokyu Community. By developing elevator interface unit for multiple vendors, the two companies are aiming to enable all next generation autonomous navigated robots of the Company to move between floors without human hand safely and freely, which would be an ideal environment for human and robot to exist together.

CYBERDYNE Inc.

URL	https://www.cyberdyne.jp/english/
Founded	June 2004
Share capital	26.778 billion Japanese yen (as of March 31, 2020 : non-consolidated, Japanese GAAP)
CEO	President and CEO Yoshiyuki Sankai
Address	2-2-1 Gakuen-minami, Tsukuba, Ibaraki, Japan

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.

*1 Adoption by airports (November 14, 2019)

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

*2 Adoption by train stations and station buildings (May 19, 2020)

https://www.cyberdyne.jp/wp_uploads/2020/05/20200519_PR_ENG2.pdf

*3 Adoption by large shopping facility (February 20, 2018)

https://www.cyberdyne.jp/wp_uploads/2018/02/20180220_Diversity_CL02_ENG.pdf

*4 Adoption by office buildings (March 28, 2018)

https://www.cyberdyne.jp/wp_uploads/2018/03/20180328_News_Sumitomocorp_ENG.pdf

*5 Introduction of disinfection robot (March 31, 2020)

https://www.cyberdyne.jp/wp_uploads/2020/03/200331_PR_ENG.pdf