



<Press Release>

Yoshiyuki Sankai
CYBERDYNE, INC.
September 25, 2017

**Announced, start of selling “HAL Lumbar Type to Promote Independent Living
(tentative name)”**

**~Promoting independent living of care receivers and reducing burdens of care givers
to realize “Zero Burdening-care Society”~**

CYBERDYNE, INC. [Headquarters: Tsukuba, Ibaraki, Japan CEO: Yoshiyuki Sankai (the “Company”)] plans to release “HAL Lumbar Type to promote independent living (tentative name)” (the “Product”), on October 2, 2017. The Product is capable of maintaining and improving the weakened bodily functions of a user in the core and lower body.

Alike other HAL products, the Product reads “bio-electrical signal” that is the user’s brain signal to the muscle surges on the skin surface and assists his/her intended movement. When the user with weakened bodily functions wears this device to repeatedly perform movements such as standing up and sitting down, the functions of the body themselves will be improved and the user will be able to increase their independence in their ordinary life without wearing HAL. The Product only weighs 3kg. As it can easily be worn and controlled according to the user’s intent, he/she could use it to move his/her body in casual and fun manner.

It is anticipated that by disseminating the Product, quality of life of care receivers could be improved and physical burden of care givers could be reduced. Long-term care for those heavily dependent on it is a significant problem that the society with aging population and declining birthrate faces. The Company aims to realize “Zero Burdening-care Society” where everybody could live healthily and comfortably, with the help of the Product and Cybernic* Technology. Furthermore, by reducing number of people that are heavily dependent on care, the Company aims to lighten the financial issue of the public long-term care insurance system and solve problems of care facilities, such as high turnover rates and lack of manpower.



At first, the Company plans to start selling this Product to care facilities so that further verification could be conducted in the practical fields. Further upgrades will then be applied to the Product and the company will expand its sales volume. Through these endeavors the Company aims to accelerate the research and development in the long-term care sector and creation of new industry, which will eventually lead to the realization of the super smart “Society 5.0” with innovative Cybernic Technology.

- * **Cybernic:** A new academic field that is centered around human, robots and information systems. Targeting medicine, welfare and living support fields (including labor support) as its main industries,. It fuses and combines the functions of humans, robots and information systems, realizing interactions between physical-information-vital systems. Cybernic is championed by Dr. Yoshiyuki Sankai, a professor at the University of Tsukuba (he is also the President and CEO of CYBERDYNE) and the technology is thought to be one of the core technical domain that drives the movements to realize “Society 5.0”. Cybernic technology means practical application of Cybernic





A part of the research and development of this Product was based on results achieved through ImPACT Program of Council for Science, Technology and Innovation (Cabinet Office, Government of Japan).

Since CYBERDYNE, INC. was established as a venture company from the University of Tsukuba in 2004, the Company has promoted the comprehensive development of various Cybernic systems (Cybernic devices, Cybernic interfaces, etc.) that utilize Cybernic technology from research and development to social implementation, aiming to tackle the various issues facing society. The company has developed business in the fields of medicine, welfare and daily living (including the work environment), and its main product Robot Suit HAL® is widely distributed not only in the medical and welfare fields but also in care support and labor support fields. In addition, new products such as Transport Robots and Cleaning Robots equipped with artificial intelligence and environment recognition functions, HAL Lumbar Type that reduces the load and stress on the lower back, smaller-sized HAL (Single-Joint Type), vital sensors for detecting arteriosclerosis and arrhythmia measurements, etc. are continuously being developed.

For more details, please refer to the following website: www.cyberdyne.jp/eng/