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CoMoveIT

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Towards

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CoMoveIT Smart

A novel head-foot steering system

CoMoveIT Smart is a head-foot steering system for powered wheelchairs for people with complex movement disorders. It has been developed at **KULeuven,** based on years of research. Now CoMoveIT brings this solution to the users, with a focus on, but not limited to people with cerebral palsy(CP).

Through **evidence-based development** we can proudly announce a brand new way of combining Artificial Intelligence (AI) and head-foot control for powered wheelchairs.

Offering a maximum of **independence, participation** and **quality of life** through improved user **mobility.**

CoMoveIT Smart fits the specific demands of the user through:

- Autocalibration
- Adapting the system to the user
- A smart algorithm
- Therapeutic driving
- Full operation of the Omni 2 control unit

Thanks to the features listed above, it is a lot easier to drive a wheelchair. This leads to a fast learning experience, allowing therapists and users to move far more quickly through the rehabilitation process.
Eventually, lower care costs for rehabilitation and care centers, and more importantly, a happier life for the end user are the results.

Carl's testimonial

"My son Levi was born with CP. Due to a lack of motor control and elevated muscle tension he can't drive a wheelchair with joystick. With this head-foot control we're telling a completely different story.

With CoMoveIT Smart, Levi can use his head to steer left and right. Using the foot plates, he's able to move forward.

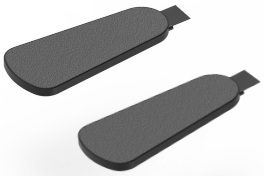
Thanks to the built-in sensors and artificial intelligence in the head array and foot plates, the system automatically adapts to Levi's movements and input. It's remarkable how relaxed he's riding around now, the muscles in his arms and legs are totally free of tension."

Features & Design

Easy installation
Compatible with powered wheelchairs and seating of most players
R-net Plug-and-Drive
Compatible with OMNI2 for external devices control (eg. smartphone, laptop...)

CoMoveIT Smart exists of different elements, each with their specific function, working in perfect consort with eachother.

Head Set
Configurable to maximally suit the user's position, needs and capabilities
eg. steering, driving and Omni control



Foot Pads
Adaptable and configurable to suit the user's needs
eg. driving forwards, backwards and Omni control

Electronic Box
The beating heart of the CoMoveIT Smart system, regulating the sensor input with its intelligent algorithm

CoMoveIT Smart and Ergonomics

Adjustability
The position of the head array can be adjusted in all directions to give the user the maximum amount of control and comfort

Configurations
A maximum amount of different configurations and combinations are possible, based on the user's needs and capabilities

Compatibility
The CoMoveIT Smart system, with its sleek design is compatible with most powered wheelchairs and seatings. This also applies to custom made seating

Evidence-Based Development

Ranked as Reuter's Most Innovative European University

CoMoveIT Smart is the result of years of thorough research and development at KULeuven Bruges. An extensive collaboration between the departments of Rehabilitation and Engineering Sciences laid the groundwork of what was eventually going to become the spin-off CoMoveIT.

With the quality of life, and everything that entails as a basis, a team of healthcare professionals and engineers went to work on the development of a new way towards independence and mobility for people with complex movement disorders in general and people with CP in particular.

Co-founder Sotirios with the first CoMoveIT Smarts

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