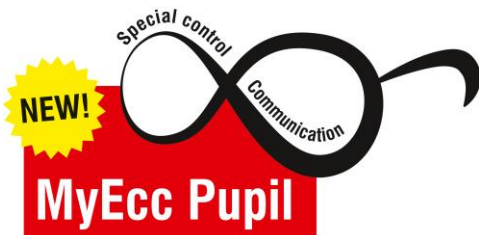




HomeBrace
Your home at your hands



**One eye control –
infinite possibilities!**

Press release

MyEcc Pupil: One eye control – infinite possibilities!

New software extension combines wheelchair control with communication

HomeBraceGermany GmbH has expanded and refined its award-winning special wheelchair control module MyEcc Pupil as a communication device. Using eye tracking and customizable speech generation buttons, people with ALS and other muscle conditions can now communicate even in bright sunlight – without having to keep their eyes on a display.

MyEcc Pupil was originally designed to enable people with impaired head motion to control their wheelchair unassisted, inside and outside their home. No alternative can compare. With its integrated eye tracking sensor, MyEcc Pupil is the only wheelchair drive system that delivers uninterrupted and complete wheelchair functionality in even the brightest sunlight. Driving, adjusting the seating or speed, controlling robotic arms – MyEcc Pupil makes it all possible. What's new is the expandable software that now allows MyEcc Pupil to be used as a communicator. The program's drive options that steer the wheelchair in a selected direction can be used in another mode to spell or select already stored words – customizable and configurable to suit your individual needs.

Eye tracking by a sensor in the dedicated glasses frames is uniquely designed to work reliably in a range of lighting conditions, from very bright to dark. "We're delighted that we can finally meet our customers' desires and give them a voice, even in bright sunlight," managing director Thomas Rosner says.

The one-of-a-kind system will be presented for the first time to the health industry at the upcoming Expolife trade show in Kassel ahead of launch in summer 2023.

More about how the software works

The sensor selectively tracks left or right eye movement, which the associated software converts to commands. Depending on the selected mode, these can be drive commands to the wheelchair, control commands to the seat adjustment system or a connected robotic arm, or word/letter selection commands.

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Here's how it works. To activate wheelchair drive mode, look left, right and left again. A beep indicates that the software is ready to convert the user's eye movements into drive commands. If the user looks left, the wheelchair drives to the left, and so on. Closing your eyes will bring the wheelchair to an immediate stop. Speech generation works much the same way, but is activated by looking down, up and down again. This takes the user to a user interface that is divided into buttons. A panel might contain the letters A, B, C, and D in the top left button, with a middle section where you can switch to the next level where complete words are stored. Button assignment is customizable and needs to be trained in advance using MyEcc Display. Once trained, the software can be used without a display. Wheelchair driving does not require a display in the user's field of vision either, which increases driving pleasure and safety.

Additional benefits of MyEcc Pupil

MyEcc Pupil comes with self-tinting lenses. An optician can fit prescription lenses if necessary. The frame is robust, corded and can be used with any power wheelchair that has an appropriate switch control module. The special control module only needs eye movement to work, making it ideal for people with progressive conditions like ALS. There is no need for a display in the user's field of vision for driving or for communication. Any user issues such as nystagmus are no problem at all for MyEcc Pupil.

About HomeBraceGermany

HomeBraceGermany GmbH develops assistive devices with one goal in mind: to make everyday life more manageable for people with disabilities and to help them meet their basic needs. In line with this ethos, the product portfolio offers a variety of wheelchair control modules to suit specific medical conditions, a mouth-operated human-computer interaction device, and an environment control system with an unparalleled range of user options.

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