After being confined to the research labs and limited medical applications for many years, gaze trackers are now more portable, cheaper and easier to use. TouchEye software technology using entirely gaze-based selection rivals the performance of traditional input devices while overcoming the inherent problems of gaze-based click alternatives in the market place. TouchEye technology presents a complete replacement for a mouse or touchscreen input.

The Technology
TouchEye is:
- Twice as fast as other gaze-based click alternatives under testing, even for novice users.
- Frequent use increases performance, approaching that of the mouse.
- Does not cause inadvertent clicks, as they occur in other gaze-based click alternatives.
- Minimizes visual and cognitive distractions.
- Allows for consistent screen content - removes the need for overlapping content which competes for viewer attention (e.g. radial menus).
- Does not change screen content as magnification techniques do (e.g. fish-eye lens).
- Based on natural gaze movement (other gaze-based click alternatives require artificial eye control such as dwelling, blinking or gestures, which are tiring and not preferred by users).
- Minimises hand movement and is likely to reduce the occurrence of repetitive strain injuries (RSI).

IP Position
UniServices has filed a patent application.

The University of Auckland
The University of Auckland is New Zealand’s leading university and is the only one ranked among the world’s top 200 universities by the Times Higher Education World Rankings of Universities. It is also the highest ranked New Zealand university in the QS World University Rankings and the Shanghai Jiao Tong Academic Ranking of World Universities. The University of Auckland is an international centre of learning and academic excellence. It is New Zealand’s pre-eminent research-led institution and has key linkages with many of the world’s top research intensive universities. Based in the heart of New Zealand’s largest and most diverse city, The University of Auckland has the most comprehensive range of courses in the country. The University’s mission is to be a research-led, international university, recognised for excellence in teaching, learning, research, creative work and administration. The University actively seeks to work with government, other universities, research organisations, businesses and commercial consultancies in research, development and education.

Auckland UniServices Limited
Auckland UniServices Limited is the largest research and development company of its kind in the Southern Hemisphere and a wholly owned company of The University of Auckland.

By connecting its clients with The University’s brightest academic minds, UniServices provides commercial organisations the innovative technologies they seek, and governments the national programmes they need. The results can mean huge strides in a company’s international competitive edge, or in a country’s health, education and welfare capability. UniServices manages all of The University’s intellectual property and is responsible for all research-based consultancy partnerships and commercialisation. UniServices’ open innovation and world-class thinking can change the world.

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