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“intendiX-SOCI”

g.tec introduces mind-controlled computer gaming, featuring Blizzard Entertainment's World of Warcraft[®], at CeBIT 2012

In 2009, g.tec introduced the intendiX-SPELLER, the first commercially available brain-computer-interface (BCI) system for home use. Soon, g.tec will release the intendiX-SOCI (screen-overlay-control-interface), allowing people to control PC-applications such as computer games with a brain-computer interface.

Although this system will not be available until later in 2012, g.tec will host the first public demonstration of the pre-release version at CeBit-2012. Booth visitors can attend live demonstrations of intendiX-SOCI used to control Blizzard Entertainment's World of Warcraft[®], one of the most popular computer games in the world. People can perform a wide variety of tasks using brain activity alone, including moving through the game world, obtaining and turning in quests, fighting monsters, and casting spells. intendiX-SOCI does not require any movement whatsoever, leaving the hands and voice free for other tasks.

This breakthrough in gaming uses a type of brain signal called the steady-state visual evoked potential, or SSVEP, which is picked up by a few electrodes mounted on the head. When people pay attention to a flickering item on a monitor a region in the back of the brain responds at the same frequency. g.tec's technology can detect this brain activity and use it to determine which item the user considers important. Therefore, people can send commands within the game just by paying attention to different items on the monitor. intendiX-SOCI can detect these different brain signals with an accuracy of 98%.

Visitors at our booth will have the opportunity to try the system on their own. Our staff will mount the electrodes and instruct people how to control the game with only their thoughts. Such a demo takes 20-30 minutes.

CeBIT2012 Hall-9 Booth-A17, **Live demos: 11:00 and 15:00.**



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