

## Wireless Sensor Platform Launches New EMG and GSR Products and Receives CE Certification

### PRESS RELEASE

**Dublin, Ireland - January 21, 2010** – The Shimmer wireless sensor platform has recently been awarded the CE mark, proving it has met EU consumer health and safety requirements for medical equipment. The CE certification also includes the ECG, EMG, and Motion capture Products.

The CE Certification coincides with the launch of the platforms new EMG (Electromyography), and GSR (Galvanic Skin Response – for testing characteristics such as stress levels) products, and reflects the platforms continued advancement of wireless sensing innovation.

Marketed and developed by Shimmer Research the Shimmer wireless sensor platform now offers a wide range of wireless sensing possibilities from physiological and kinematic motion capture to tilt and vibration sensors. Commenting on the expanding range of wireless sensors Kieran Daly, VP of Business Development at Shimmer Research noted that the company is 'committed to driving wireless sensing innovation by providing sensors that capture data to the highest industry standards'. Indeed, this was made evident by validation work carried out on the ECG, Motion, and GSR sensors for ambulatory ECG, Temporal Gait Analysis, and GSR data capture in biomedical research settings. The information captured by Shimmer was comparable to, or outperformed larger, traditional wired units that would be considered gold standard.

Remarking on the validation results, Daly stated that everybody at the company was 'very pleased with the results, it's a good representation of the quality the platform offers, and highlights how Shimmer performs against well known traditional wired units that can be costly and don't offer the same flexibility'

Continuous innovation is an ethos that is communicated throughout the organisation and is at the heart of the company's R+D centre in Cambridge, Massachusetts. The focus is to lead wireless sensing development, and streamline the introduction of this new technology to market. The launch of the EMG and GSR products and the recent CE certification are only an indication of future developments on the horizon, with another sensor product - new to the wireless arena - due for release at the end of February. Daly noted that 'the company is at an exciting stage of growth, with the platform having gained real traction in both the research community and in industry'. February will see Shimmer Research publish it's technology roadmap for 2010 which will detail a full schedule of product releases and platform developments, the first of which will be a new SPAN design that acts as a USB access point for the platform's low power 802.15.4 (base layer of Zigbee) solution.

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Having recently launched the second generation Shimmer platform, Shimmer Research is an excellent example of the progress being made in WSN (wireless sensor networks) and pervasive computing. The platform is open source, and can easily integrate into existing products to fast track product development. With the company's expanding range of sensing modules and recent CE certification, Shimmer is unique in opening up wireless sensing technologies to industries from Disease Management, Ambient Assisted Living, Remote Vital Signs Monitoring, and Telemedicine, to Sports Science, Personal Health and Fitness, Rehabilitation, and Personal Health Care Management.

As a direct result of the technology Shimmer offers, the company has seen rapid growth over the past 12 months, and currently ships to over 30 countries worldwide. ON World forecasts that spending in WSN R+D alone will reach over US\$1.3 billion in the next two years. In almost all applications wireless sensors offer huge advantages in terms of flexibility and economy, and represents important progress in areas such as Healthcare and Assisted Living where wireless technology can present significant cost reductions whilst increasing the level of service. This is especially relevant due to the increasing pressures that will be placed on Healthcare systems with an ageing population placing a greater demand on limited resources and services. Wireless sensor solutions could save as much as \$25 billion worldwide in annual healthcare costs in 2012 by reducing hospitalisations and extending independent living for seniors (ON World). This has prompted the EU to increase funding for wireless sensors seven fold in the last five years in the healthcare sector alone, and to grow funding for wireless sensors to €1.5 billion in the next five years for the healthcare sector.

#### About Shimmer Research

Shimmer Research is a Division of Realtime Technologies Ltd, who licensed the Shimmer technology from Intel in 2008. Shimmer Research develops, manufactures and markets Shimmer worldwide and currently ships to over 30 countries. The company is headquartered in Dublin, Ireland, and has offices in Cambridge, Massachusetts where R&D and North American Sales and Marketing are based.

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