

Kepler Vision's Medical Night Nurse Software Takes Elderly Fall Detection to the Next Level

London, 19 October 2020 — Kepler Vision Technologies – global leader in the development of vision-based human activity recognition software - today announced that its Kepler Night Nurse (KNN) software has officially been registered as a medical device in compliance with the European council directive 93/42/EEC.

KNN is the world's first computer vision-based fall detector to achieve the medical device status. The intended use is the

“Monitoring the mobility of patients with a reduced ability to keep balanced.”

To that end, KNN detects and prevents falls by elderly using machine learning and computer vision.

This new technology, based on artificial intelligence, reports its false alarm rate in number of false alarms *per year*. In contrast, alternative technologies such as motion sensors, bed mats, and wearables, generate a series of false alarms *per day*. Clearly, this showcases the incredible power of today's hottest technology artificial intelligence: KNN outperforms all current fall detection methods by a factor of 1,000. The software encodes seventeen patent applications of which two have been granted and 15 are pending.

The fact that Kepler Vision has successfully registered its KNN computer vision software as a medical device proves the functional quality of its software. The registration requires the software to be built according to today's best practices. It also means the software has been tested internally and in practice to meet its specifications. Finally, it means risk assessments have been executed and mitigating measures are defined and in place. As such, the medical device registration builds credibility and awareness of the Kepler Vision brand within the medical technology sector.

To look after the well-being of patients, the medical KNN software monitors live video streams for patients' body language and activity levels. After extensive testing, the KNN is now deployed in several care homes in The Netherlands. The software

provides significant safety for patients while enhancing their privacy; instead of invading nurses, patients are left in peace while being monitored 24/7 by artificial intelligence. The KNN sends out an alarm when a patient has fallen or a notification when a patient is struggling, unable to get out of bed or has remained in the bathroom for longer than expected. This allows carers to intervene only when necessary, reducing the amount of time spent checking on patients and freeing up staff time and resources. In addition, the KNN reporting can automatically add accurate behavioural observations to a patient's medical file which can help doctors with their diagnoses.

Dr. Harro Stokman, CEO of Kepler Vision Technologies, said: "This is a proud moment for us as a business and one that sets the stage for future growth and success. Given the current care home crisis which has come about as a result of the current pandemic, it is even more important that our technology is perceived as a force for good within the care industry and by the medical profession."

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For more information please contact the team at kepler@fiveinaboat.com

About Kepler Vision Technologies

Kepler Vision Technologies is a Dutch company which uses artificial intelligence to look after the well-being of humans at night through vision-based human activity recognition software.

Kepler Vision's mission is to make the job of nurses operating in elderly care homes less stressful and more enjoyable by allowing them to focus on providing care - not chasing false alarms and writing endless reports.

To achieve this Kepler Vision's Night Nurse solution analyses live video streams, recognizing if and when clients need care and informing staff accordingly.

Kepler Vision Technologies is a spinoff company from the University of Amsterdam. To date, it has received investment from organisations including UvA Ventures and the Netherlands Ministry of Economic Affairs totaling over €3.9 million.

The company is headquartered in Amsterdam and employs 15 people with expertise across machine learning, computer vision and healthcare.

The company website is here: <https://www.keplervision.eu/>