

## **Kepler Vision Launches New Smart Sensor to Enhance Elderly Monitoring Solutions**

- *The new “Kepler Vision Smart Sensor” system will make it easier to ensure the wellbeing of patients through AI monitored live video feeds*
- *Kepler’s proprietary computer vision technology allows staff to respond immediately to patients in distress, guaranteeing privacy and eliminating false alarms.*

**Amsterdam, January 17th 2022** — Global leader in vision-based human activity recognition software Kepler Vision Technologies today announced the launch of its new range of Kepler Vision Smart Sensors. Developed in partnership with video security systems provider Hikvision to process Kepler Vision’s Night Nurse (KNN) software, Kepler Vision Smart Sensors enable care providers to better monitor the wellbeing of elderly patients in care home environments.

Integrated with the computer vision powered Kepler Night Nurse software, the sensor and software solution transform a monitored video feed into text to alert staff when they are needed. For example: a video feed showing an elderly resident fallen on the floor is indicated by the message “In room 13 a client has fallen who needs help” - delivered to a nurse through the nurse call system. The video feed itself does not need to be sent or viewed by the nurse, ensuring privacy for the client, and removing the need for constant camera monitoring.

Through the use of deep learning and computer vision, KNN’s video monitoring system is able to detect when elderly patients fall, when they are in physical distress, and when patients suffering from dementia wander into areas that are not supposed to - automatically alerting staff when these patients need assistance. Replacing old sensor systems such as bed mats, motion sensors and wearables like necklaces and bracelets, the software allows staff to immediately respond to patients, and eliminates 99% of false alarms.

Two versions of the Kepler Vision Smart Sensor are available for use in care homes. A 6 MP camera for private rooms, and a 12 MP version for monitoring common rooms and hallways. These new devices reduce the calibration period for the Kepler Night Nurse solution, and

reduce the set-up cost for the system as a whole. While the quality of the Kepler Vision Smart Sensor ensures the highest level of operability for Kepler Vision's monitoring, the KNN solution will still work with any existing camera systems already in use by care facilities.

Dr. Harro Stokman, CEO of Kepler Vision Technologies, said: "We are very excited about the increased efficiency and accuracy that the new Kepler Vision Smart Sensor brings to care staff looking after the wellbeing elderly patients. The combination of the Kepler Night Nurse solution with these sensors eliminates the need for pilot tests for the system in care environments, significantly reduces the set-up cost of the whole monitoring solution, and maximizes both the reliability and accuracy of our cutting edge computer vision solution. Given the current state of the care home industry, we are proud to be offering something that reduces the strain on care staff by allowing them to more effectively administer care, without sacrificing the privacy of patients."

Marc van der Heuvel, Hikvision Europe Business Development Leader for Benelux said: "We are pleased to be deepening our partnership with Kepler Vision by working with them on this new range of sensors. The work Kepler has done in creating the Kepler Night Nurse solution has the potential to be revolutionary for patient monitoring in elderly care around the world, and we're glad that our cutting edge camera technology will enable Kepler to fully realize the potential of its computer vision software, in a way that will benefit both care staff and patients."

The launch of the Kepler Vision Smart Sensor is an important component of Kepler Vision's full stack solution. This consists of the computing hardware found in the Kepler Edge Appliance, the Kepler Vision Smart Sensor and of course the software itself in the form of the Kepler Night Nurse, which is being constantly refined to add greater functionality for care facilities of all kinds.

Kepler Vision's Night Nurse solution is the world's first computer vision-based fall detector to be awarded medical device status. Its computer vision powered software officially registered as a medical device in compliance with the European council directive 93/42/EEC. The registration

signifies that the software has been tested both internally and in the field to meet the highest specifications and that risk assessments and mitigating measures have been met.

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### **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/>

For more information please contact the team at [kepler@fiveinaboat.com](mailto:kepler@fiveinaboat.com)

### **About Hikvision:**

Since 2001, Hikvision has grown from being a single-product supplier to the world's leading provider of security products and solutions. From the early digital age to today's intelligence era, we have seized every opportunity to advance the industry with our innovative technologies. And venturing into new areas of inspiring technology – such as Artificial Intelligence, cloud computing, and the fusion of deep learning and multi-dimensional perception technologies, to name a few – Hikvision leads the security industry as an IoT provider with video as the core competency. Now we have brought these innovation to the healthcare market, combining them with partner technologies to provide state-of-the-art solutions.