

CREATING SMART HEALTHCARE SOLUTIONS TOGETHER

KEPLER
VISION TECHNOLOGIES

Using AI to improve care and look
after patients at night

Only 1 false alarm per room per 86 days





Currently in the care industry, nurses need to check into patient's bedrooms throughout the night. This is a task that is disruptive and invades patient privacy. Traditional care home systems create false alarms, leading to higher work pressure and lower job satisfaction. This is now unnecessary, since the smart Kepler Night Nurse Solution combines Kepler and Hikvision technology to recognize patient body language and human activities. It looks after their well-being in multiple situations and warns caregivers instantly – but only when really needed. This solution improves elderly care quality with 40% reduction of caregivers' workload at night and 99% reduction in false alarms.

The Kepler Night Nurse solution analyzes live video streams, recognizing when clients need care and informing staff accordingly, for example, if a client has fallen. We currently monitor over a thousand patients at different care centers and are working on pilot projects with ten further care centers. The Kepler Night Nurse is able to completely replace other domotics such as mat sensors, bracelets, RFIDs and panic buttons. At the same time, the Kepler Night Nurse is able to provide the same coverage regarding the wellbeing of clients, without the need to invade their privacy or disturb their sleep. The Kepler Night Nurse is fully integrated with Hikvision's cameras to provide a comprehensive and objective overview of what goes on during different shifts. This reduces the time spent by caregivers on writing reports.

Specifically, Kepler uses DeepinView Fisheye and In-ceiling Fisheye cameras to be the 'eyes' of the system. These have a high level of picture quality – up to 12 MP – making the Kepler Night Nurse software more accurate. They also have Day (color)/night(black/white) modes, for clear pictures 24/7 and bi-directional audio possibilities, so nurses can talk to patients through the system, if necessary. These are seamlessly integrated into the system, for full flexibility and intuitive usability.



KEY BENEFITS

- Falls detected within 60 seconds.
- Insight into what is happening in the room.
- Adjustable alarms, and no more needless or false alarms.
- Beds can be moved without adjustment of the Kepler Night Nurse.



KEY FEATURES

- Works 24/7 in all rooms
- Falls detected within 60 seconds
- Only 1 false alarm per room per 86 days
- Integration with nurse call system.
- No drawing detection lines or fields needed.
- Activity Report provides insights into the client's life rhythm
 - Insight into lifestyle
 - Indication of restlessness at night
 - Indication that the client is withdrawing more often.
- Registered medical device
- Full solution available including a camera and nurse call system



Kepler Night Nurse™

Man down

Bed: 1.00 Sitting: 1.00
In-bed: 0.00 On floor: 1.00



About Us

Hikvision

At Hikvision we believe that close collaboration with our ecosystem of partners is needed to further accelerate innovation and development in the security industry, while also securing maximum value creation for clients.

We work in close technical partnership with hundreds of best of breed manufacturers of hardware and software systems in the security, building automation and IoT industries. Our Technology Partner Program ensures that our clients can use Hikvision technologies knowing that we provide vendors with the tools to obtain comprehensive integration and compatibility with all our products.

Kepler Vision Technologies

Kepler Vision Technologies is a Dutch company that uses artificial intelligence to look after the well-being of humans 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 instead of chasing false alarms, chasing patients, and writing endless reports. Kepler Vision Technologies is a spinoff company from the University of Amsterdam. Kepler is headquartered in Amsterdam and employs 15 people with expertise across machine learning, computer vision and healthcare.

The employees working at Kepler Vision Technologies have profound knowledge about computer vision and deep learning. They use this knowledge to create artificial intelligence for the healthcare industry and, in particular, to help nurses. The Kepler team has over 20 years of experience in this field. Some of the best computer vision researchers founded Kepler and apply their expertise to further improve our products.

Hikvision Europe

Dirk Storklaan 32132
PX Hoofddorp
The Netherlands
Tel. +31 23 55 42 770
info.eu@hikvision.com
www.hikvision.com
 @ HIKVISION Europe

Kepler Vision Technologies

Deymanstraat 18F
1091 SE Amsterdam,
The Netherlands
Tel: +31 6 22 59 00 36
info@keplervision.eu
<https://keplervision.eu>
 kepler-vision-technologies/