

CASE STUDY

Elderly care provider Oktober virtually eliminates false alarms for patients falling down while ensuring care is provided instantly whenever they do.



Kepler Night Nurse™

THE SCENARIO

Oktober is an elderly care provider operating in the Kempen area of the Netherlands, concerned with maintaining the well-being and dignity of patients in their care. As such, they are constantly searching for ways to reduce risk, increase safety, and ensure their care staff can do the best possible job efficiently. Oktober looks after 600 patients across 9 care facilities.

In elderly care, falls are a persistent and often unavoidable problem, with the majority of over 65s experiencing one or more falls yearly. Falls in older adults can often be severe, resulting in functional decline, reduced quality of life, and in extreme cases, even death - with all of these outcomes more likely if they are left untreated for long periods.



RESULTS

A sample group of 16 patients produced over **1500 alarms** when monitored with traditional motion detectors over the course of a week.

The introduction of the Kepler Night Nurse reduced this to **30 alarms** in the first implementation - identifying falls, leaving the bed, going to the bathroom etc.

CONCLUSION

By using Kepler Night Nurse the usual **1500 alarms** are reduced to **30 alarms**.

THE SOLUTION

Traditional methods of monitoring the well-being of patients as regards falls range from regular in person checks, CCTV, motion detectors, wearables, and pressure pads. Oktober used motion detectors to monitor when patients experienced falls in their rooms. While the system produced alerts when patients fell, it could not distinguish between a fall or any other movement (e.g., moving in bed), producing far more alarms than staff could react to.

Oktober began upgrading its monitoring solution by implementing Kepler Vision's AI-enabled "Kepler Night Nurse" - which detects falls by analyzing live camera feeds in consenting patients' rooms. It sends alerts to staff whenever a fall is detected. This allows staff to respond to falls in seconds while eliminating the vast majority of false alarms they would otherwise need to react to - freeing up staff time to focus on other aspects of proactive care.

OKTOBER SPOKESPERSON:

The danger presented to elderly people in care from simply falling cannot be overstated. Even mild falls can have profound long-term consequences for our patients if left unattended, but care staff cannot be everywhere. Kepler Night Nurse solves this problem by ensuring that staff can attend to patients the moment they are needed, without wasting time checking on patients unnecessarily.

Because of how it benefits not only patients but those who look after them, staff have embraced the technology from the start as a way to reduce the 'alarm fatigue' created by poor experiences with alarm systems in the past. The Kepler Night Nurse provided the healthcare professionals with more time and opportunity to focus on residents in need of extra attention. Responses from patients have been positive as well. Kepler Night Nurse helps them feel safer and improves their sense of privacy because healthcare providers no longer have to check up on them for no reason.

CONSIDERATIONS OF PRIVACY

As the Kepler Night Nurse uses AI monitoring of live camera feeds to check on patients, each patient was given the choice if they wanted to be monitored in this way. 100% of patients at Oktober facilities elected to have Kepler enabled monitoring cameras in their rooms to guarantee the immediate response they ensured in the instance of a fall.



BEFORE KEPLER NIGHT NURSE

- Patients in danger of being left for hours after a fall
- Staff burnt out from responding to hundreds of false alarms
- Genuine falls missed by outdated systems

AFTER KEPLER NIGHT NURSE

- Patients and families confident in receiving immediate care after a fall
- Staff freed up to focus on other aspects of caregiving
- All genuine falls identified and responded to in minutes

KEPLER NIGHT NURSE IN OKTOBER ELDERLY CARE CENTER

Kepler Vision helped 9 Oktober facilities improve safety, reduce risk, and eliminate unnecessary responses to false alarms. Since deployment Oktober has installed over 1300 Kepler Night Nurse enabled sensors throughout its facilities in patients rooms and common areas, with the quality of monitoring constantly improving thanks to Kepler's AI learning system.