KONICA MINOLTA

AUTOMATED
NIGHT NURSE

SOLUTIONS
FOR HEALTHCARE

WHAT CHALLENGES DO HOSPITALS AND ELDERLY-CARE CENTERS FACE NOWADAYS?

Hospitals and elderly care centers are currently grappling with a range of challenges, including the aging population and a shortage of staff. The world's population is rapidly aging, with a significant increase in the number of elderly individuals requiring healthcare services and long-term care. According to the World Health Organization, the global population aged 60 years and older is expected to double by 2050, reaching approximately 2 billion people.

One of the critical issues associated with this demographic shift is the shortage of healthcare professionals and caregivers. The demand for elderly care services has outpaced the available workforce, creating a strain on the existing staff and compromising the quality of care.
Another significant concern is the occurrence of falls among elderly patients in hospitals and care centers. Falls are a leading cause of injury and can have serious consequences for the well-being and independence of older individuals. According to a study published in the Journal of the American Geriatrics Society, approximately 30% to 50% of hospital falls result in an injury, and falls are responsible for 70% of accidental deaths among people aged 75 years and older.

Falls not detected in time are a signifi cant health risk for the elderly. With current home automation or smart sensors, in 6 out of 7 falls, someone is only there after 5 minutes to help the client. In addition, healthcare personnel is inundated with false alarms due to the inability of current systems to communicate accurately.

Kepler Night Nurse's pioneering and reliable care software eliminates 99% of false alarms. In addition, state-of-the-art fall detection technology reduces incidents. As a result, care staff needs to spend less time on rehabilitation and psychological support, among other things. This results in enormous time and therefore cost savings.

INTRODUCING THE SMART HEALTHCARE SENSOR

NOT A CAMERA ANYMORE.

WHAT CAN WE DETECT?

MAN DOWN

IN BED

SITTING ON THE BED EDGE

OUT OF BED

OUT OF ROOM

GET UP FROM CHAIR

IN BATHROOM

UNIFORM DETECTION

The main purpose of the system is to detect a person falling of their bed or slipping and falling on the floor. It can also provide additional useful information: whether there is a staff member in the room (to track how much assistance the patient receives), whether the patient is in the bathroom and for how long (to monitor medication's influence on patient's comfort or their safety), whether the patient is sitting on the edge of their bed (especially useful when they should not get out of bed unassisted) or simply whether the patient is out of their room.

LESS FALLS

Detects all movements of the patient. This prevents patients from falling.

MORE SAFETY

Makes the life of a patient safer. 5 out of 6 times help arrives within 5 minutes of the fall.

MORE INSIGHTS

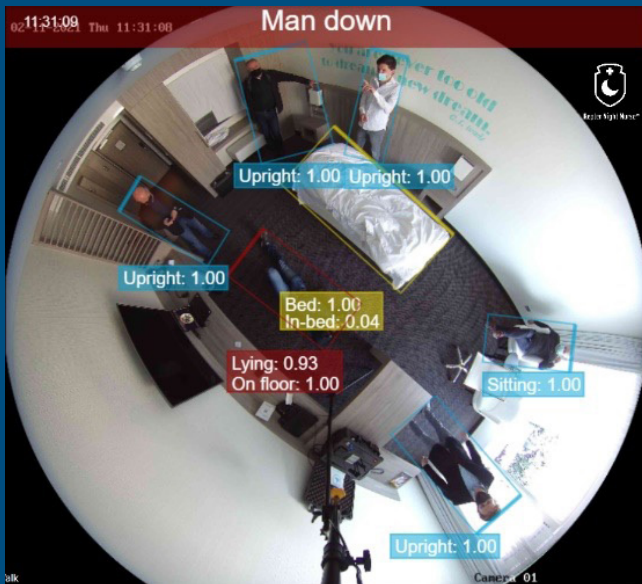Gives insight into a patient's rhythm of life through the activity report.

MORE PRIVACY

Detects from images what is happening without storing these images, nor showing them to anyone.

WHAT YOU SEE

A CLEAR DASHBOARD SHOWING CURRENT STATUS OF EACH ROOM

COMPREHENSIVE REPORT OF PATIENT'S ACTIVITIES

WHAT <u>ONLY</u> THE CAMERA SEES

DYNAMIC DETECTION OF HOSPITAL BED, EVEN IF IT IS RELOCATED

DETECTION OF A PERSON IN THE ROOM (PATIENT/STAFF)

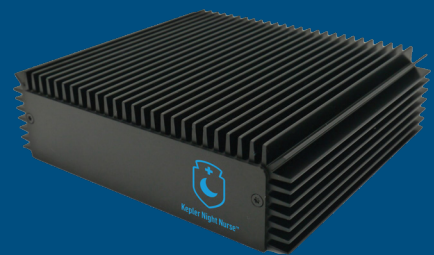DETECTION OF PATIENT'S POSITION AND LOCATION

PRIVACY AS FIRST PRIORITY - THE VIDEO STREAM IS NOT VISIBLE TO ANYONE

WHAT IS THE ARCHITECTURE?

FISHEYE CAMERA

VIDEO STREAM

METADATA

OTHER KONICA MINOLTA SOLUTIONS FOR HEALTHCARE

GENERAL SECURITY

Based on Mobotix cameras and centrally managed by Luxriot VMS, that can also use already existing cameras. High performance intrusion detection can be incorporated.

PARKING MANAGEMENT

Dedicated Mobotix camera or server-based solution working on an existing one.
Great for both indoor and outdoor parkings.

GUN DETECTION

Detects a gun or a rifle held by a person. Can work with Mobotix or existing cameras, indoor and outdoor.

FIGHTING & VANDALISM DETECTION

Detects two people behaving agrresively or a person destroying an object. Can work with Mobotix or existing cameras, indoor and outdoor.

SMOKING DETECTION

Detects visible smoke. Can work with Mobotix or existing cameras, indoor and outdoor.

SLIP AND FALL DETECTION

Detects a person falling on the floor. Can work with Mobotix or existing cameras, indoor and outdoor.

EMERGENCY INTERCOMS

Vandal proof, indoor (hallways, patient rooms) or outdoor (gates).
Can include inductive loop for hearing aids, SOS button and a built-in camera.

NOTES