Radar-Sensor-based Healthcare Solution

Innovative protection, connected care

Challenges in
Elder and Patient Care

Living alone can be dangerous for the elderly who need care for illnesses or disabilities. Even in nursing homes or hospital wards, nursing staff often have heavy workloads, making it difficult to provide optimal care all the time.

Needs in Elder and Patient Care

In an ideal situation, caregivers need to do the following to ensure adequate care for elders and patients.

Responding to an accident in real time

Any delayed response can lead to serious consequences, making timely reminders of unexpected events essential.

Protecting privacy while protecting health

Unprotected privacy of elders and patients can cause them psychological stress and slow their recovery. Seeing cameras in the ward, for example, can make them feel more anxious and uneasy.

Providing long-term health data monitoring

Health data can help identify disease risks in advance. Additionally, it allows family members who don't live with the elderly to check their health status at any time.

Solution Highlights

Hikvision's intelligent radar sensors cater to these healthcare needs, enabling more comfortable, predictive, and refined elder and patient care in an efficient and contact-free way.
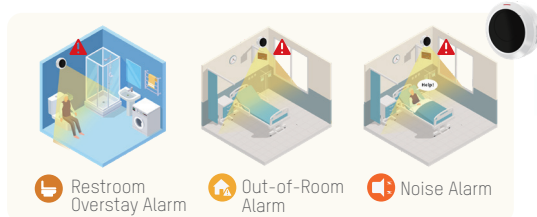
Elderly Safety Protection

Solution 1:

Fall Detection Radar + Thermal Camera

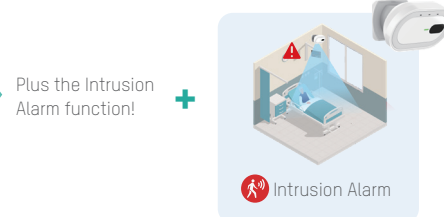Detect in time and respond quickly when the elderly encounter danger

Solution 2:

Thermal Radar Presence Detector

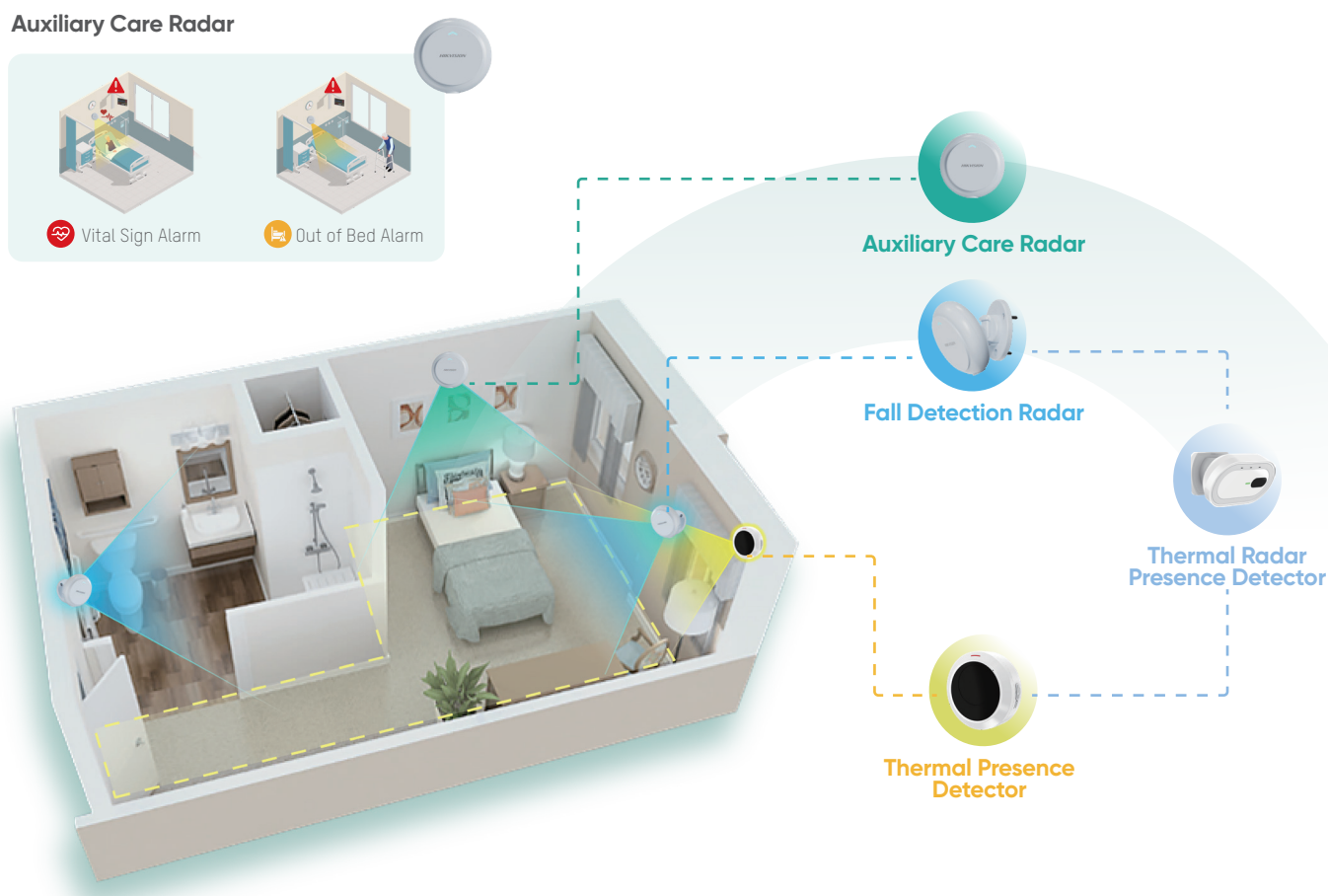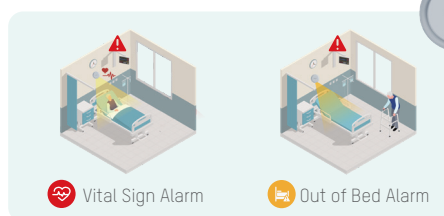An all-in-one device for fall detection, visual verification, and security protection

Fall Detection Radar

Thermal Presence Detector

Thermal Radar Presence Detector

Fall Alarm

Restroom Overstay Alarm

Out-of-Room Alarm

Noise Alarm

Plus the Intrusion Alarm function! +

Intrusion Alarm

Health Condition Management

Provides significant medical information for better analysis of sleep quality and overall health.

Auxiliary Care Radar

Vital Sign Alarm

Out of Bed Alarm

Auxiliary Care Radar

Fall Detection Radar

Thermal Radar Presence Detector
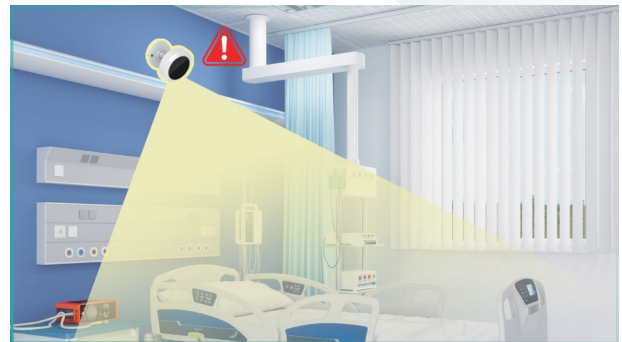
Thermal Presence Detector

Automated Fall Detection

- Precise fall detection with **Millimeter-wave radar** technology
- Non-contact, immediate alarm triggering
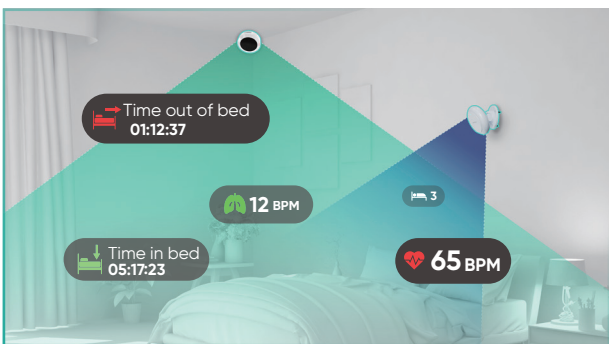- Thermal imaging views provide video verification with privacy protection

Automatic Warning of Anomalies

- Seven unique alarms with radar sensors and presence detectors
- Detect dangers to the elderly before they escalate, helping to avoid serious consequences
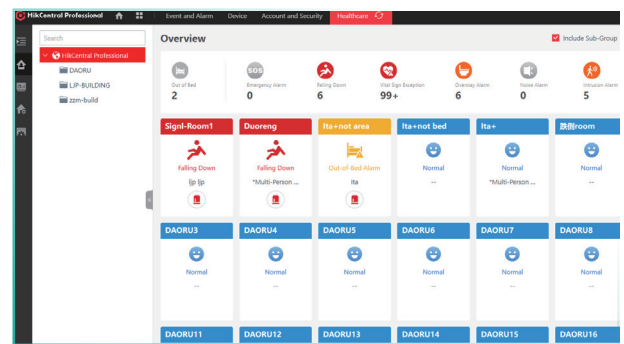

Easy Auxiliary Care

- 24/7 non-contact measurement of heart/breathing rates, sleep time, and sleep quality
- Provide detailed long-term health reports to help analyze the health status of the elderly

Centralized Management

- All data converged on HikCentral Professional software for easy viewing on PC
- Nursing staff can view the status of multiple rooms at a glance with no need to make ward rounds frequently

Product Showcase

DS-TDSB00-EKT/POE/4M
Fall Detection Radar

Working Frequency	60 to 64 GHz
Modulation Wave	FMCW
Detection Range	20 m²
Data Cycle	70 ms
Communication Mode	Wi-Fi, RJ45 interface
Weight	180 g

DS-TDSB00-EKT/POE/4M
Auxiliary Care Radar

Working Frequency	60 to 64 GHz
Modulation Wave	FMCW
Detection Range	1 to 2.7 m
Communication Mode	Wi-Fi, RJ45 interface
Weight	170 g

HM-TD1018-1/QR
Thermal Radar Presence Detector

Resolution	160 × 120
Pixel Pitch	12 μm
Monitoring Height	2.7 m
Focal Length	1.3 mm
Communication Mode	RS-485
Weight	380 g

HM-TD1017-1/QW-HS111(O-STD)(B)
Thermal Presence Detector

Resolution	160*120
Pixel Pitch	17 μm
Monitoring Height	2.7 m
Focal Length	1.9 mm
Communication Mode	Wi-Fi, RS-485
Weight	100 g

Radar-Sensor-based Healthcare Solution

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