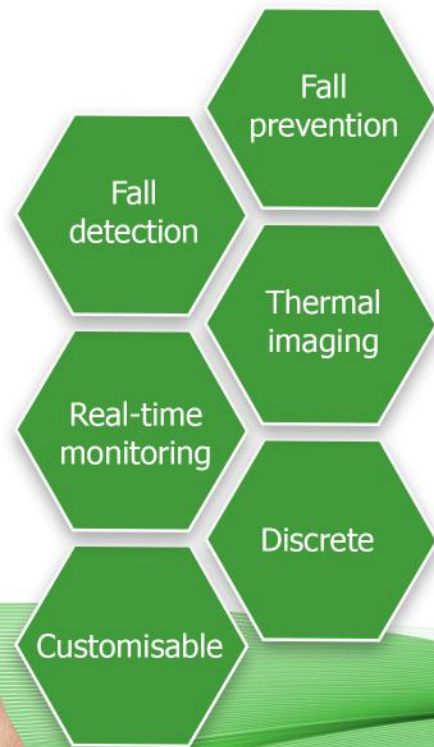


SAFE

System to Avoid Fall Events



rinicare
smart healthcare

SAFE - Falls Prevention Monitoring System

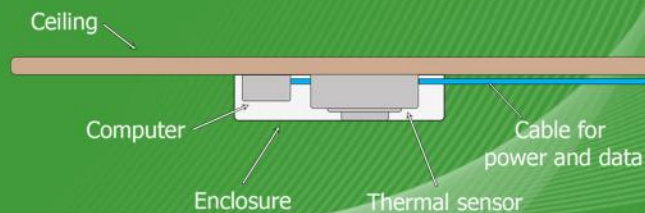
SAFE is a new system designed to automatically alert carers when a patient is in a position that could pose a risk of resulting in a fall. This could be when the patient is getting in or out of bed for example.

SAFE uses a small thermal sensor placed in a discrete enclosure above the patient's bed. A built-in computer analyses the patient's heat trace relative to the edges of the bed and determines the classification of the patient's position.

The SAFE system communicates this position in the form of a coloured icon to indicate the level of risk identified.

Carers can set individual sensitivity levels for patients to customise the system and reduce the number of false alarms.

SAFE system sensor unit



- + *Thermal imaging sensor attached to ceiling above the patient's bed*
- + *Low resolution thermal imaging sensor protects the privacy of both patients and clinicians*
- + *Provides non-invasive 24/7 monitoring*
- + *Personalised settings reduces alarm fatigue*

How does SAFE work?

The low-resolution thermal sensor in the SAFE system enables silent, 24/7 monitoring without intruding on the privacy of patients and care staff.

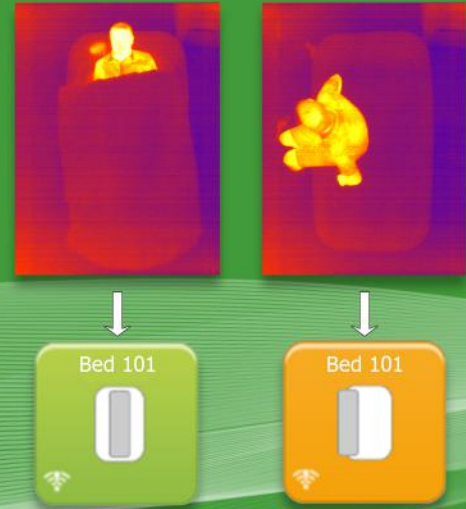
The thermal sensor can “see” in complete darkness, which significantly reduces the need for visual inspections at night-time, which can interrupt patients’ sleep.

The built-in computer can recognise 4 pre-defined positions and translate those into coloured icons to indicate the patients’ current position and immediate risk level.

The SAFE system works even when the patient is under a blanket as long as the head is still visible.

SAFE is designed as closed loop system, and it does not need to integrate with other systems.

Examples of thermal images* and icons

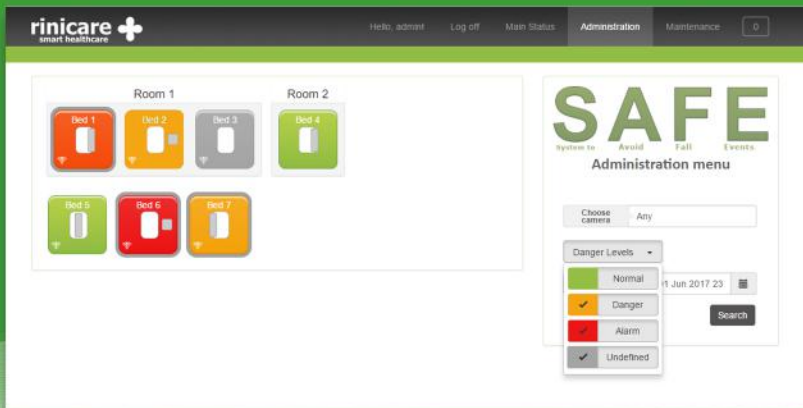


- + Green icon = patient in a safe position
- + Orange icon = patient in an unsafe position

**Thermal images enhanced and colorised for clarity*

SAFE User Interfaces

The SAFE user interface is easy to use and any alarms are displayed on both the PC screen and on the connected mobile devices to allow fast response.



The sensitivity for each SAFE system can be set to suit each patient's individual risk level, which helps to reduce the number of false alarms.

SAFE can identify 4 general positions:
Inside the bed (safe), sitting on the edge of the bed, standing next to the bed, and fallen to the floor.

The patients' positions relative to the beds are displayed in real-time on the screen, which is updated every second.

All alarms are immediately forwarded to mobile devices with the SAFE app*.

Caretakers can acknowledge that they are reacting to an alarm with one press on the screen (Either PC or mobile device) to avoid that all staff respond to the same alarm.

Why SAFE?

SAFE works in both daylight and darkness
Low maintenance and service
Second-by-second reporting

24/7
monitoring

Ideal for multiple settings
Also detects empty beds
Reassures patients and carers

Detects
bed-exits

Protects
privacy

No patient identification
Thermal imaging, no optical
Low resolution for anonymity

SAFE

Simple menu options
No I.T. expertise needed
Admin menu easily accessed

Easy to use

Bespoke risk
settings for
each patient

Easy menu to set risk level
Promotes patient freedom
Reduces alarm fatigue

Prevents
falls

Detects potentially dangerous positions
Fast reporting increases prevention
Customisable alerts sent to carers

Rinicare Ltd develops state-of-the-art technological solutions for healthcare applications. Research solutions provided by Rinicare utilises the latest information and communications technologies and provides a solid foundation for enhancing its users' quality of life. Ultimately, Rinicare's goal is to design innovative, hospital-grade, and medically certified technologies aimed at both improving patient outcomes and alleviating pressure on healthcare budgets.



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Healthcare providers around the world face the challenge of maintaining sustainable healthcare systems in light of an aging population and continuously increasing costs. Rinicare's approach to addressing these challenges is based on a collaborative effort with end-users to design advanced wireless communications, innovative prediction algorithms, and enhanced software technology solutions.

