

Critical communication, security and multimedia systems for non-residential buildings



Radar 4D

FDD-001 model



No intrusive cameras



No hard-to-reach buttons



No embarrassing wearables



Safe: harmless RF waves



A VIRTUAL CAREGIVER IN EVERY ROOM

Older adults demand both **constant protection and freedom** from buttons and wearables

They also want the **dignity that goes hand-in-hand with privacy** – nobody wants a camera in the bedroom or bathroom. Our touchless technology is built around non-optical 4D imaging, providing 24/7 fall detection and unique visibility into activity.

Our **API integration** allows it to work with all nurse and warden call systems, social alarm units and care platforms.

FEATURES

- High resolution.
- 140° field of view.
- 20m^{2*} coverage area.
- Works in **all lighting conditions**.
- Operates effectively in **steam** – ideal for **bathrooms**
- **Small and flexible** form factor.

(*) The surface area is 5x4m² when the device is placed on the ceiling. On a wall, the area is 4x4m²



Plastic case (front)



RF module



Integrated chip



Digital board



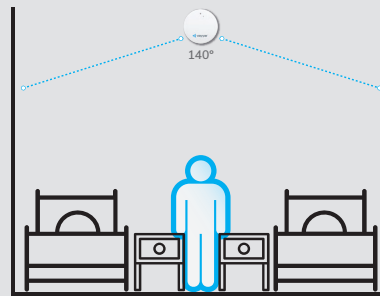
Plastic case (back)



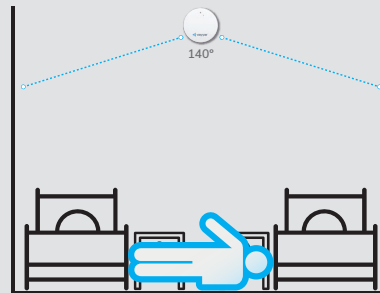
- **Fall detection:** eliminates long lies.
- **Fall prediction:** identifies unreported falls.
- **Wander control:** notifies on empty room.
- **Unwanted visitor:** alerts on unauthorized presence.
- **Loneliness prevention:** monitors time alone in room.
- **Mobility assessment:** measures time at rest.
- **UTI identification:** tracks bathroom usage.
- **Staffing support:** registers resident interactions.



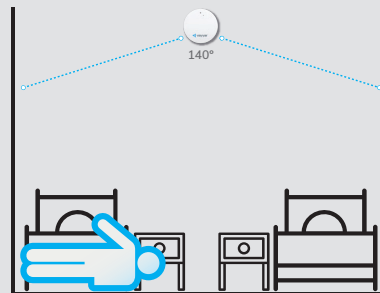
How it works



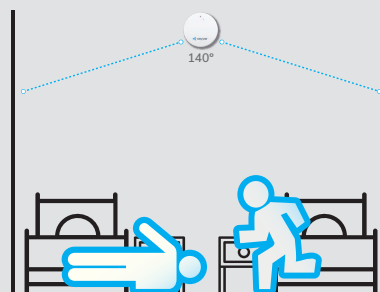
The system detects that **there are people in the room** and analyses the environment, which has been previously configured.



When a **person falls**, the system analyses whether they can get up or if someone comes to their aid for 120 seconds. During this time, it can emit acoustic or visual signals to reassure the person.



The system, which works via microwaves, prevents people who **fall in places that are 'hidden' from view** from being assisted, as the detector is able to analyse the situation even in these cases.



If help arrives before the sensor triggers the alarm, it restarts and re-analyses the situation. This way, if both people fall, the system is able to detect it and send an alarm.