Alpha Global

Digital Angel™

Innovation that is safe for Aged Care

Preventing falls and improving operations

What is Digital Angel™?

Allows more time for hands on care where and when it is needed most

Digital Angel™ by Alpha Global is a revolutionary fall prevention and safety management solution for Australian and New Zealand Aged Care and Hospital organisations. Built on Artificial Intelligence (AI), the machine learning capability allows us to program and add multiple scenarios into the platform. This means we can monitor and tailor for different risk profiles for resident care.

- ⊘ Fall prevention and monitoring
- ⊘ 24/7 Preventative Monitoring
- ⊘ No Wearables or Sensors
- ⊘ Less intrusive than traditional security systems
- ⊘ Real time alerts and alarms
- ⊘ Improve response rates and outcomes

Better patient safety **50%** DECREASE IN RESIDENT FALLS WITHIN THE FIRST 6 MONTHS OF OPERATION

Watch the demo video here

SCAN ME

DIGITAL ANGEL™ BY ALPHA GLOBAL

Curtin Heritage client story

[QR code]

SCAN ME

More witnessed incidents

24hr

NON-INTRUSIVE MONITORING FOR FAST RESPONSE

How does it work?

Digital Angel™ uses optical sensors to actively analyse activity within rooms

Using optical sensors (which are small form cameras), the Digital Angel™ solution identifies human activity to alert support staff when movement or other events occur wit may precede a fall or safety incident occur. This system allows for 24/7 in-room monitoring to ensure incidents are swiftly responded to.

For example, when an event, such as movement that can be a precursor for a fall or a prolonged period in an en-suite occurs, an alarm is triggered and an alert is sent to the care team platform to enable assessment and appropriate action to be taken.

- ✓ Artificial intelligence to monitor human activity

- ✓ Computers monitor in-room activity 24/7

- ✓ Customised to each resident and care requirements

- ✓ Scalable - it can be activated in all or just selected rooms

- ✓ Common areas can also be covered if required

Is it a CCTV system?

Digital Angel™ is key to the future of health care technology and AI processing

Digital Angel™ technology doesn't act or provide facilities with a tool like that of a CCTV surveillance system. Thanks to advancements in technology, cameras can now be used as "sensors" to provide a range of monitoring functionality that allows software to make decisions on events.

- ⊘ Staff have no on-demand access to cameras

- ⊘ Cameras feed directly into computers

- ⊘ Live in-room footage can only be viewed when a potential incident occurs

- ⊘ Greater privacy

- ⊘ Provides choice to residents

Observation reduction

71%

LESS INTRUSIVE OBSERVATIONS THROUGH PROACTIVE FALL AND INCIDENT MONITORING

Resident scenarios

Falling/seizure risk

Ted has dementia and tends to stay in his room all day, He is unsteady on his feet but often forgets to use his walking frame placing him at high risk of falls. Further to discussion with Ted and his son, the sensor is set to alert staff if he falls to the ground.

Ensuite timer

Alexa values her independence and privacy and wants to shower and move around her room by herself, however she suffers from fainting spells and falls. She elects to have the sensor alert staff when she is in the en suite for 30 mins or more.

No movement

Adrian suffers from epilepsy, he visits the bathroom several times in the night and is a light sleeper, He doesn't like to be disturbed between his bathroom visits and prefers to have his door locked. To enable staff to respond to any incidents his room sensors are set to alert if he does not move from his bed for 3 hours.

Predictive bed exit

Emily often falls when she gets out of bed at night. She and her family choose to configure the sensors in her room to alert care staff when there is movement in her bed suggesting she's about to get up.

Behaviour analysis

Fred is at high risk of constipation and speaks little English which creates difficulty in communicating when he is uncomfortable. His room sensor is configured to alert care staff to repetitive movements which suggest he is in and out of the bathroom a lot throughout the day.

The Process

Incident Detected

Optical sensors in the room are actively monitoring human activity 24/7 to provide enhanced levels of care.

AI Verifies Incident

The video is processed using artificial intelligence to decide what type of incident has occurred.

Alarm Raised

A notification is sent directly to staff informing them of the room, time and type of incident. Staff then have the option to assess the incident via a live preview or respond immediately if required.

Nurse Call

Alerts can be pushed through the nurse call system to ensure the correct support staff are selected to assist.

Assistance

Thanks to the speed in which alarms can be raised, staff can act quickly. This information is logged and reported to provide improved care plans for the individual, as well as valuable operational data for management.

What is required by law to operate Digital Angel™?

Although Digital Angel™ is not a surveillance system in the typical sense, it does come under the privacy laws. As optical sensors are utilised to achieve 24/7 human activity monitoring, you are required to obtain consent from the residents and or family in order to use this technology.

- ✓ Consent is required from the resident or family
- ✓ Organisation protects data and privacy
- ✓ Surveillance and computer policies are in place

Observation reduction 56% LESS CARER INTERVENTION AND REDUCTION IN INTRUSIVE STAFF BEHAVIOUR

Frequently asked questions

Can staff access the camera in my room like a normal surveillance device?

No, staff can only get a short live preview into the room when an event occurs.

Under what conditions can staff see in my room?

Access is granted only when an event occurs i.e a fall.

Can I deactivate my room from watching me?

Yes, rooms are configured individually and can be turned off at your request.

Where is the video & data stored?

Video is stored on the camera, it is only used to review events with the intent of improving care.

Prevention vs detection - what's the difference?

This system goes beyond detection - it allows monitoring and real time alerts for high risk residents, identifying activity prior to a fall occurring. It doesn't require additional resources to constantly monitor to detect falls after they have happened.

Is it cloud based?

No, on site servers host the technology to ensure secure and safe transmission of data.

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