



**LET US
HELP
YOU TO
HELP
BETTER**



**ARTIFICIAL INTELLIGENCE
HEALTH CARE REAL TIME SOLUTION**



ARTIFICIAL INTELLIGENCE
VISUAL INVESTIGATOR

The health sector is one of the largest growing industries globally, with an expected growth of 13% in the next 5 years. This is mainly due to the increase in the global aging population rate. In many health care facilities caring for the elders is a challenging task. To monitor their behavioural movement to ensure they are safe, or to give immediate medical assistance in an emergency is crucial.

By combining artificial intelligence to this industry these tasks are now simpler to manage than before. Ai groups AIVI -CARE assists caretakers to monitor their patients and residents by helping them to provide immediate assistance when required in real time.

AIVI-CARE FEATURES

Fall detection

Most age care facilities encourage residents to be mobile when possible, however caretakers due to work load often are unable to provide assistance causing unforeseen accidents that may lead to serious injuries.

AIVI -CARE monitors the residents abnormal behaviour such as critical falls , attempting to get out of bed without assistance and not getting back in to bed at a prescribed time. These emergency situations are alerted to the nurse stations in real time to provide a proactive care.



Bedsore monitoring

Managing this issue is critical for the welfare of immobile resident /patients. AIVI -CARE detects and if forgotten alerts caretakes to turn over patients periodically to prevent and manage bedsore



Loitering detection

Loitering is a common issue that most age care facilities face .Patients suffering from Alzheimer disease tend to forget the purpose of their activity and find them self lost .At times depending on the condition they can hurt themselves and others in the facility.AIVI-CARE has the ability to detect residents loitering within the facility and alert security or nursing staff to be mindful of resident movements.

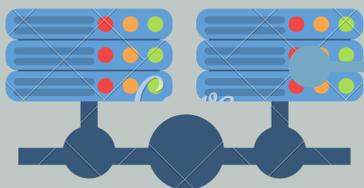


Just in time assistance

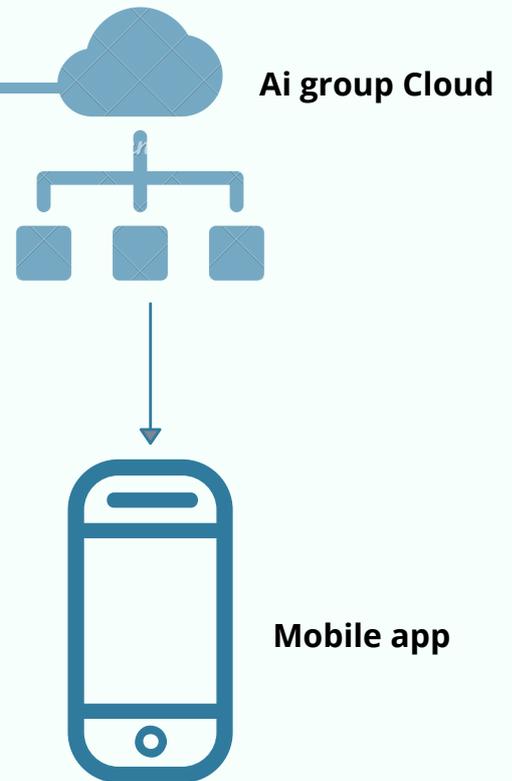
AIVI-CARE can facilitate Just-In-Time assistance to provide proactive care. Our system will alert nursing and security staffs immediately when residents and patients need help.

SYSTEM ARCHITECTURE

INTERNAL NETWORK



EXTERNAL NETWORK (If required)



INTERFACE - EXAMPLES

30/3/2020 Monday 2:47 PM

Camera	Status	Monitoring
Views		
Fall detection <small>fall-detection</small>	Active	<input type="checkbox"/>
Fall prevention <small>fall-prevention</small>	Got out alone 12s	<input type="button" value="ATTEND"/>
Loitering <small>loitering</small>	Loiter resident detected 10s	<input type="checkbox"/>

Fall prevention
Fall prevention

Got out alone 12s



30/3/2020 Monday 2:43 PM

Camera	Status	Monitoring
Views		
Fall detection <small>fall-detection</small>	Fall detected 44s	<input type="button" value="ATTEND"/>
Fall prevention <small>fall-prevention</small>	Away 55s	<input type="checkbox"/>
Loitering <small>loitering</small>	Active	<input type="checkbox"/>

Fall detection
Fall detection

Fall detected 44s



30/3/2020 Monday 2:46 PM

Camera	Status	Monitoring
Views		
Fall detection <small>fall-detection</small>	Active	<input type="checkbox"/>
Fall prevention <small>fall-prevention</small>	Got out alone 5s	<input type="button" value="ATTEND"/>
Loitering <small>loitering</small>	Active	<input type="checkbox"/>

Fall prevention
Fall prevention

Got out alone 5s



30/3/2020 Monday 2:50 PM

Camera	Status	Monitoring
Views		
Fall detection <small>fall-detection</small>	Active	<input type="checkbox"/>
Fall prevention <small>fall-prevention</small>	Away 40s	<input type="checkbox"/>
Loitering <small>loitering</small>	Loitering (30min) 15s	<input type="button" value="ATTEND"/>

Loitering
Loitering

Loitering (30min) 15s

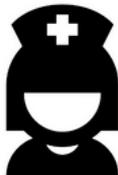


30/3/2020 Monday 2:44 PM

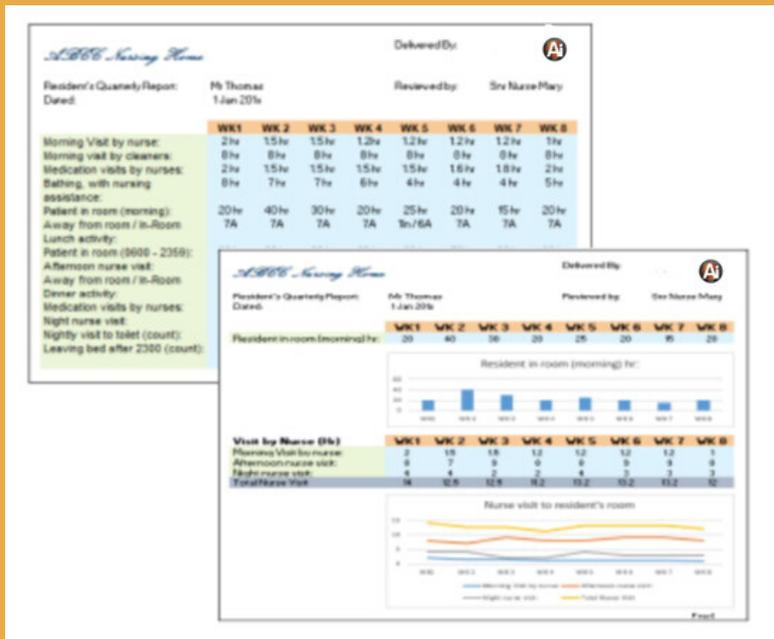
Camera	Status	Monitoring
Views		
Fall detection <small>fall-detection</small>	Nurse visit 3s	<input type="checkbox"/>
Fall prevention <small>fall-prevention</small>	Away 30s	<input type="checkbox"/>
Loitering <small>loitering</small>	Loiter resident detected 40s	<input type="checkbox"/>

Fall detection
Fall detection

Nurse visit



REPORT- EXAMPLES



With current existing systems, duty personnel need to scan multiple screens or do periodic physical visits to monitor critical issues. These issues need to be manually scanned across wards to identify and rectify critical needs for assistance. Ai Groups AIVI-CARE algorithms are specifically designed for health-care to detect these critical incidents in real time by alerting them in a single console.

AIVI-CARE has now taken out human error and the manual labour element out of this process which in turn reduces cross contamination, increases efficiency and the level of care given to each resident.

				WK -2	WK -1	Curr WK
Check out from System						
	311	406	415			
	8 Jan	8 Jan	10 Jan	2	2	3
Alerts						
Falls Detected	4			6	4	4
In-Room	406	412				
In-Corridor	9 Jan	12 Jan				
In-Common Area	CC02	Area 2				
Abuse Alerts (> 1 person & Shouting)				8	10	16
Morning	406 x 5	412	300 x 5			
Evening						
Night	300 x 5					
Bedsore Management						
Late (30 min later)	300			3	2	1
Missing (more than 90 mins)	300 x 2			5	3	2
Missing from Bed (during silent hours)						
(longer than 30 mins during silent hours)		302		2	1	1
(longer than 60 mins during silent hours)		412		1	1	1

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