

ViGiSense

A.I. Wellbeing & Safety Monitoring Technology

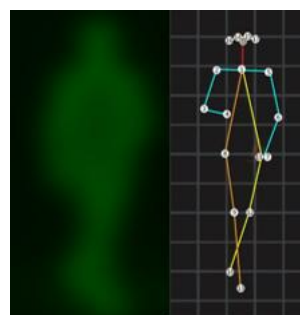
ViGiSense is the latest Wellbeing and Safety Monitoring Technology powered by A.I. ViGiSense incorporates Machine Learning & A.I., Advanced Radar technology and Digital Signal Processing technologies.

ViGiSense is designed to fulfill safety monitoring without infringing privacy. That means ViGiSense understands what you are doing by utilizing the radar signals, with proprietary A.I. algorithms and Machine Learning analysis.



This makes ViGiSense is particularly suitable to be used in places with absolute privacy requirements, such as bathrooms, toilets, hospitals, elderly centers, and even for ordinary homes.

Thanks to the advancement in radar, DSP, A.I. and Machine Learning technologies, the non-infringing sensing technology is able to capture human gestures. The patent-pending platform not only offer real time monitoring and help to detect people falling, but can also be used as a well-being monitoring platform in order to ease aging population problems for the society, and enhancing healthy aging. This in turns reduces long term financial burdens for the government.

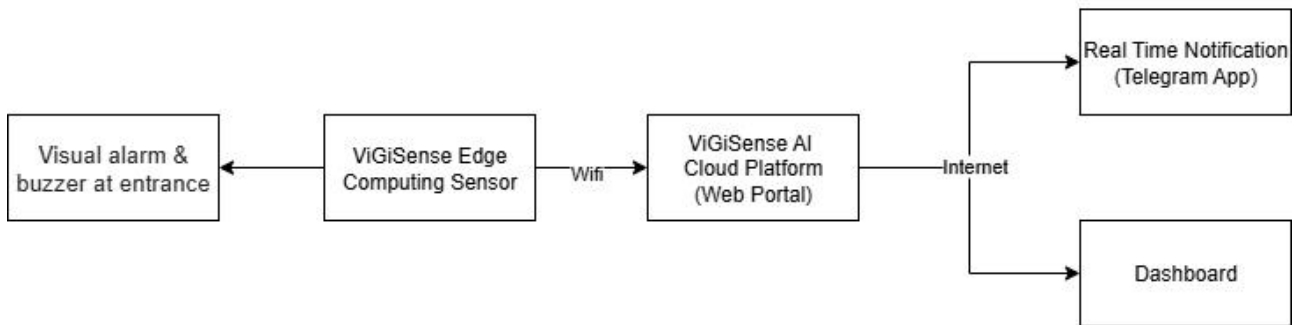


The 4-Pillars of ViGiSense

Furthermore, the technology does not require any wearables and is a passive sensor deployment, this can easily be adopted in public safety domain and smart city applications, such as A.I. traffic light automation systems, public toilets monitoring for druggies and violences, etc.



Topology - Simplification for Deployment

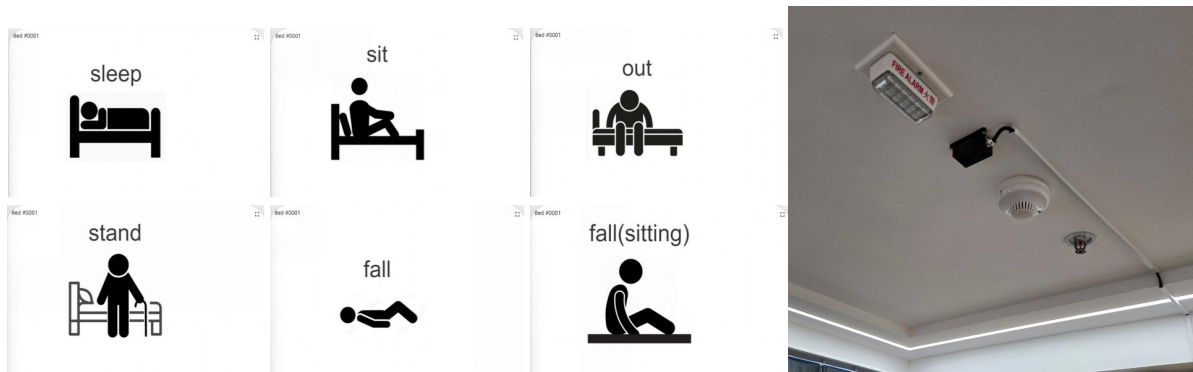


ViGiSense Wellbeing Platform is a full functioning AI Platform that is able to analyse human behavior. This enables 7/24 all aspect monitoring with safety alert.

The simpler form, ViGiSense-Elite version, is designed to run selected human behavior models at edge. This simplifies deployment, reduces onsite hardware, and reduce maintenance needs. Deployment is easy and simple. Mount the sensor, turn on the power and it works!

Case Study - Fall Prevention System @ Elderly Center in HK

In one of the references for ViGiSense-Elite, the following human behavior models are selected to run in the ViGiSense Edge Computing Sensor. That means the ViGiSense Computing Sensor is able to recognise these selected actions.



When specific action(s) are detected, the nurse will receive an App notification, telling them that the elderly is trying to get off the bed. This may lead to accidents and the nurse is able to go help them out at once.



Keeping the Elderly Safe and Reduce Nurse Workload



Fall Detection - A Selection of Models

To accommodate to different needs and scenarios, just pick different models to run in the ViGiSense Edge Computing Sensor. Depends on the needs, the following models is able to fulfill fall detection in places such as toilets and bathrooms.



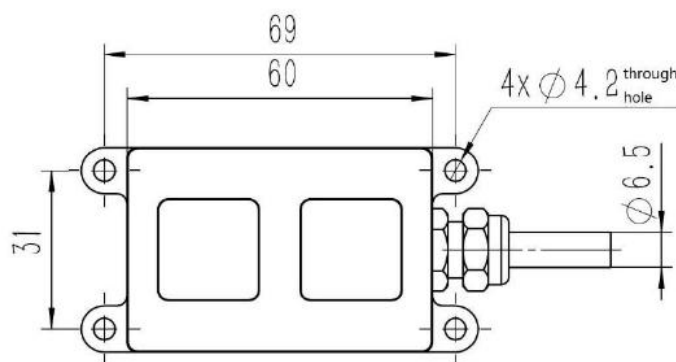
Specification - ViGiSense-Elite Edge Computing Sensor



Parameter	Specification
Part Number	VGEL01WF03
Dimension	Sensor head 78 x 40 x 30 mm Communication Box 120 x 100 x 40 mm (Customizable)
Weight	110 g (sensor head)
VSCEL Emitter	850 nm
Emitting Angle	76 (Horizontal) x 32 (Vertical) °
Monitoring area	5.4 x 2 m ² @ 3.5m
Maximum Distance	12 m
Minimum Distance	0.25 m
Maximum Frame Rate	35
Power	12V DC
Uplink	Wifi (Tailor make option: 4G / LoRaWan)
Protection	IP65 for Communication Box
Operating Condition	-10 to 55 °C, 0-99% RH (non-condensing)
Storage Condition	-40 to 85 °C

Installation

The ViGiSense Edge Computing Sensor for the Elite Version is designed to be light weight, and easy ceiling-mount using the holes provided. Shown below is the dimension for reference.



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Product Warranty and Customer Support

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

