Visual Recognition Application Solutions

GIGABYTE[™]

AI Visual Recognition

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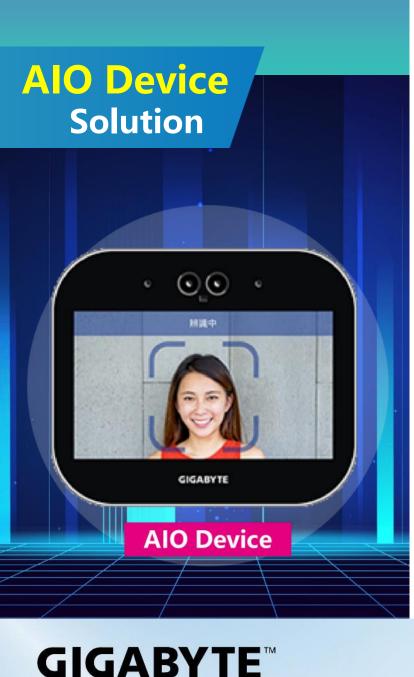
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CLOUDMATRIX

AIO Device Solution



AI Facial Recognition Solution

AIO Recognition Device

- 7-inch screen with IR&RGB dual-lens
- INTEL OpenVINO inference engine
- Capture 128 feature points on the face

Software

Al Intelligent Recognition Edge Application

Hardware

INTEL Apollo Lake Celeron J3455 CPU







ATFORM AI Facial Recognition Solution

Dashboard

With the help of a graphical management platform, multiple languages and timely data presentation, users will be able to intuitively understand the information.

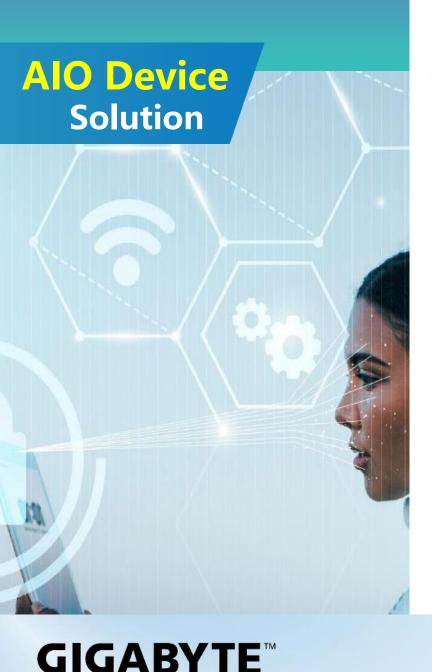
Record

Regardless of the users' successful identification or failure, it will be stored in the system for administrators to quickly understand.

Authorization by Group

By creating various shifts and identification levels for different groups of employees, you can easily protect your facility and manage access rights.





EATURES Al Facial Recognition Solution

Self-Learning System

- The recognition distance can reach 1.5~2 meters
- The recognition rate is 99.8%
- The recognition time is less than 1 second

Reduce Restrictions of Light Source

Device with IR & RGB dual lens, IR can reduce restrictions from environmental light sources.

Independent Operation

Independent operation without the Internet. After the connection is restored, the data will be automatically renewed without causing data loss or system damage.





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SENE TS AI Facial Recognition Solution

Effective Anti-Counterfeiting

Perform 3D modeling by capturing 128 feature points on the face, which can effectively prevent strangers from using others' paper photos to enter the office.

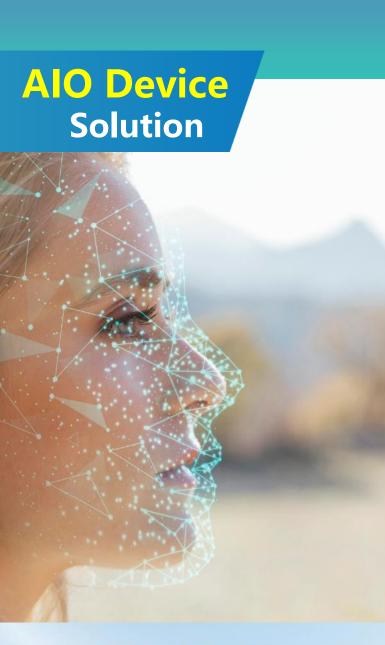
Highly Scalable System Architecture

The modular system structure provides great flexibility for organization of any size and supports expansion.

Improve Management Efficiency

Facial recognition combined with an attendance system simplifies attendance management of employees, making it the best solution for companies.



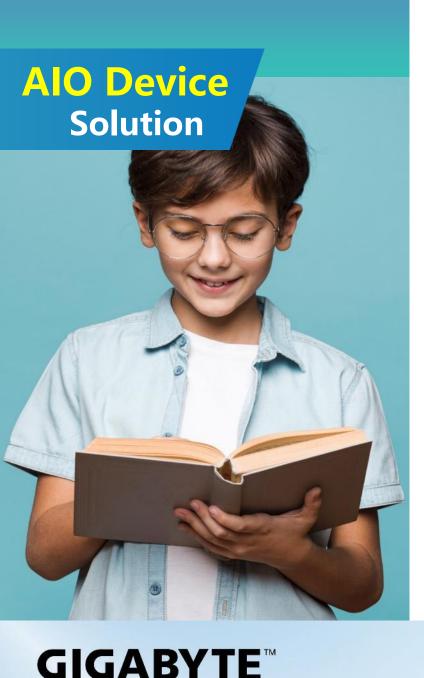


Al Facial Recognition Solution









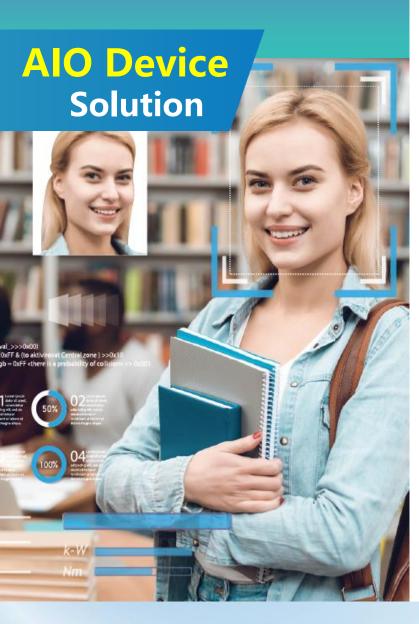
Smart Library Solution

A Smart Upgrade for School Libraries To Borrow Books via Facial Recognition

- The library introduces a facial recognition system to replace the traditional library card.
- Through the combination of identification and library system, to simplify the processes of borrowing and returning books.
- The solution increases the overall efficiency and fluency of borrowing and returning books, and to solve the need of reproduce lost library cards and changing appearance.

Learn More





ENFTS Smart Library Solution

Cost Reduction

Solve the problem of making a library card again due to changes in appearance or lost cards. Reduce the labor and material costs of making a library card.

Protects Data Security

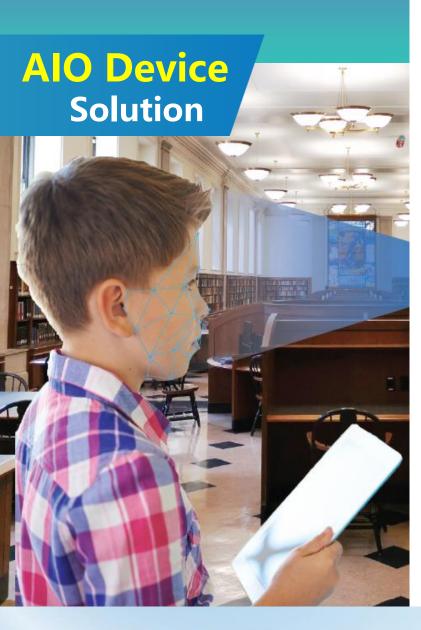
With the rapid identification of the facial recognition system, to reduce problems such as waiting time, labor cost, and increase the overall convenience.

Increase the Convenience of Borrow Books

With the rapid identification of the facial recognition system, to reduce problems such as waiting time, labor cost, and increase the overall convenience.







Smart Library Solution







AlO Device Solution

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ESD Inspection Solution

Upgrade the Level of Safety Control in Your Operating Area

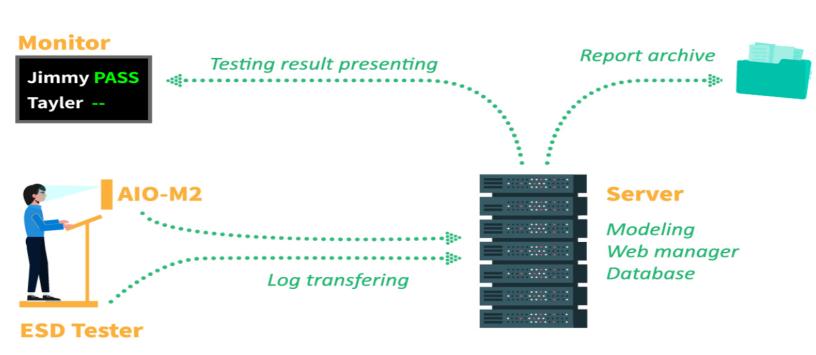
- Static electricity must be carefully controlled in a factory, because static discharge can easily cause fire or component damage.
- ESD testing assisted by facial recognition system is the best way to optimize the ESD safety check process in an industrial environment.
- To secure the assembly line, a person who does not pass the ESD tester will not be able to enter the operating area.







ABCHIERE TURE ESD Inspection Solution









SENE TS ESD Inspection Solution

High Levels of Data Security

Facial recognition records and ESD test results can be complied with in a secure inspection database. The inspection process and API can also be customized.

Ensure Workplace Safety

Assembly line safety is secured when access control depends on the ESD detection result.

Reduced Administrative Workload

 Role-based access control allows for flexible authorization capabilities for factories with multiple shifts and global locations.







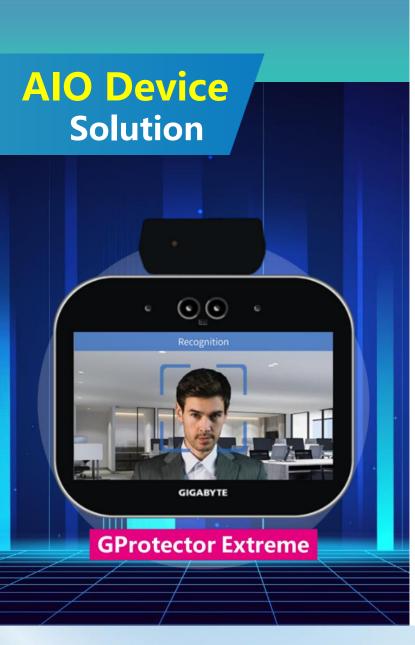
APPLICATION Body Temperature Screening

High Accuracy of Detection is Maintained via a Built-in Al Engine for Optimal Performance

- Contactless detection reduce the possibility of contagious disease transmission.
- Faster, highly reliable and easier to use when screening large numbers of people.
- The standalone device is flexible and can easily be moved from site to site.







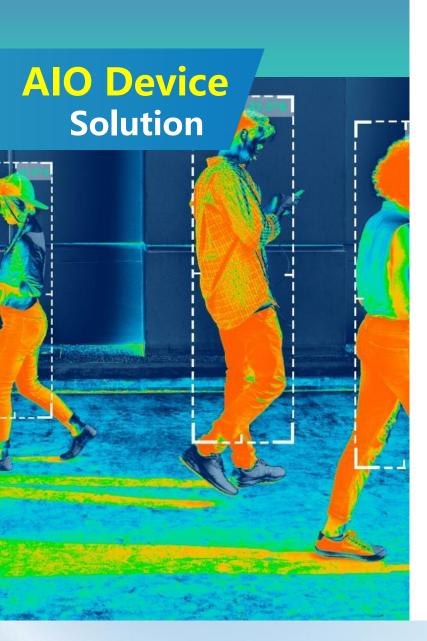
EATURES GProtector Extreme

The Ultimate Solution to Safety and Health Management is Ready to Help !

- Using high-spec thermal camera modules from U.S. suppliers, has stable and reliable performance.
- The device is suitable for busy areas with lots of people.
- The device can finish measuring temperature in one second with an effective detection distance of 3m.
- Measuring the body temperatures of individuals within the thermal camera range, even when they are wearing masks.







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GProtector Extreme

Functional Upgrades to Meet the Needs of Diverse Field Applications

Mode	GProtector Ultimate	GProtectorExtreme a.S.S a.S.
	Ultimate Mode	Extreme Mode
etection Target	Rapid detection of multiple moving individuals	Within the camera shooting region, the device can detect 5-10 people
tection Distance	1.5m~3m	1.5m~2m
tection Method	Multi-point detection	Face detection
etection Result	External screen must be connected	The device can display independently or synchronize with an external screen
erature Correction	0	0
Temperature Alarm	0	0





GProtector Extreme

Economize the Labor Cost

Replacing the traditional way of measuring temperature, users can check their temperature independently, which substantially reduces human resources.

Improve Protection Level

When a high temperature is detected, the system can send alarm notification via screen and voice in real time.

High Accuracy

 Accurate temperature screening is essential to keep everyone protected. The high accuracy of detection is maintained via a built-in Al engine for optimal performance.



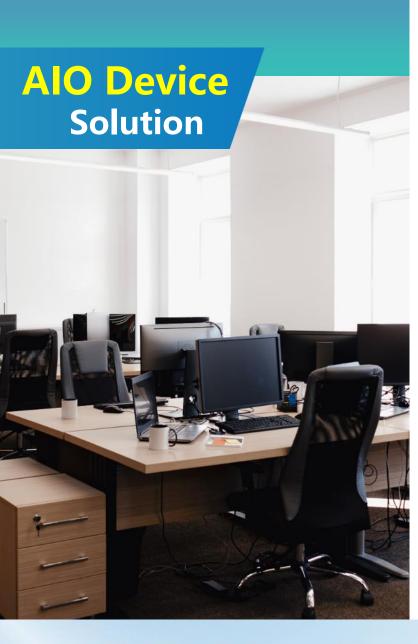


GProtector Extreme









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Open Space Management

Upgrade Your Space with Intelligent Technology and Create Innovative Services for You

- The future of development in post COVID-19, how to make corporate offices, business centers, hotels, and co-working spaces operate efficiently and safely, is a matter of great concern to us.
- We provide platform services for space operations, including resource management, customer relationship management, and integration of various IoT devices to construct space usage scenarios.





AlO Device Solution



SENELTS Open Space Management

Ensuring Safe Space

Using state-of-art facial recognition and temperature screening technology at the entrance. When detected an unauthorized or abnormal temperature, access permission won't be given.

Increase Your Space Revenue

Your space, resources, and automated cash flow will be more effectively managed through our solutions, which can save at least 10%~30% of expenses.

Innovative User Experience

Users can use the space for themselves, and easily control and manage all IoT devices (such as electric lights, door locks, air conditioners, etc.) through mobile Apps.







Open Space Management

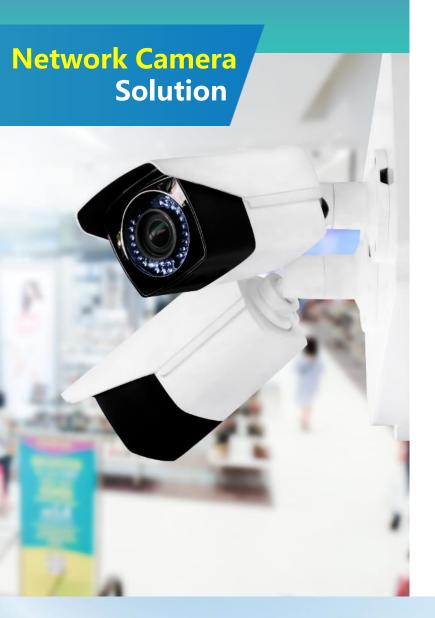


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Network Camera Solution

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EATURES Smart Surveillance Solution

VIP Notification

Identify key customers immediately after they enter the building or store, and the responsible personnel can give customers a personalized reception.

Stranger Alert

With the AI visual recognition system, the stranger can be detected immediately, allowing the guards more time to isolate that customer to respond appropriately.

Flexible Setting of ROI (Region of Interest)

Support to select the specific areas in the image, which can focus on more details and perform key control.





Network Camera Solution



ENETS Smart Surveillance Solution

High Accuracy

 High accuracy of detection by using AI engine algorithms, and system can easily grasp the real-time status, record stranger and VIP images, and measure temperature.

Save Time and Manpower

Through a screening mechanism can improve traditional security system need spend a lot of time and manpower in analyzing to find the target information.

Increase the Value of Your Data

Through system can find useful information from massive data and image, which can help you to clarify conditions at that time and make faster responses.





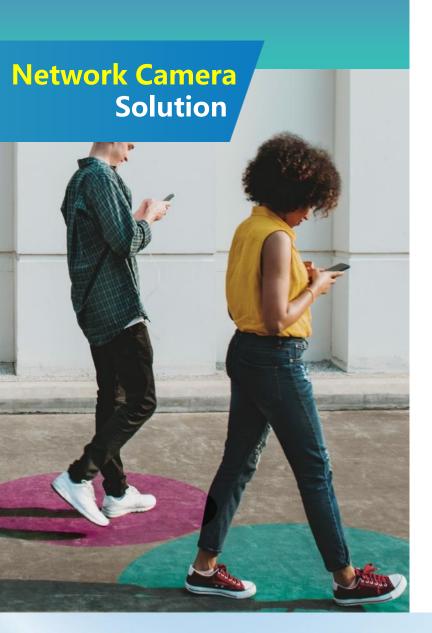


Smart Surveillance Solution









EATURES People Counting Solution

Effectively Conduct Precise Data Analysis

- Anonymously count people entering and exiting at the same time and you can have an idea of peak hours for people traffic.
- Adopt visual recognition, AI algorithm. The location of cameras is not limited.
- Customize boundaries and event areas to improve accuracy.







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People Counting Solution

Real Time People Counting

The system can automatically detect the data of the flow of people in and out to achieve statistical analysis of the number of visitors at the entrance of any place.

Auxiliary Tool for Business Decision-Making

You can precisely and know for certain where your customers are moving, and you can plan your most important displays and promotions in high-traffic areas.

Optimize Staffing and Labor Cost

The industry can identify off-peak and peak hours to arrange personnel schedules.





People Counting Solution



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EATURES Smart Advertisement Solution

Understand Your Customers to Create More Efficient Business Opportunities !

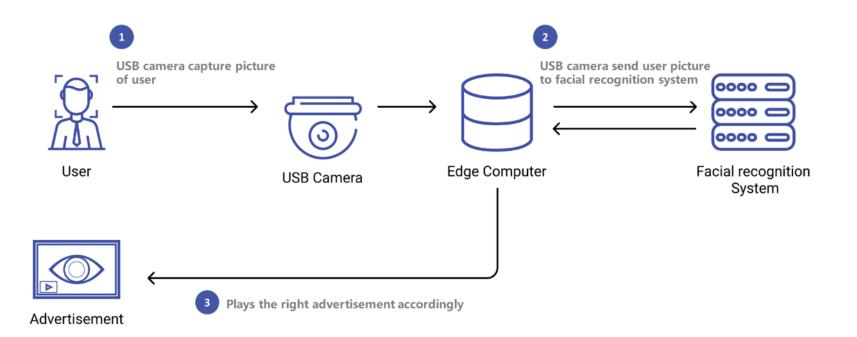
- Make decisions about what ADs you want to show on your screen.
- Count how many people view your ADs.
- Determine the age and gender of the people viewing your ADs.
- Analyze customer data to optimize decisions and performance







Smart Advertisement Solution









Smart Advertisement Solution

Precise Marketing

Through visual recognition, accurately analyze customer behavior and interests, and display the most suitable advertising content to attract customers.

Real-Time Data Insight

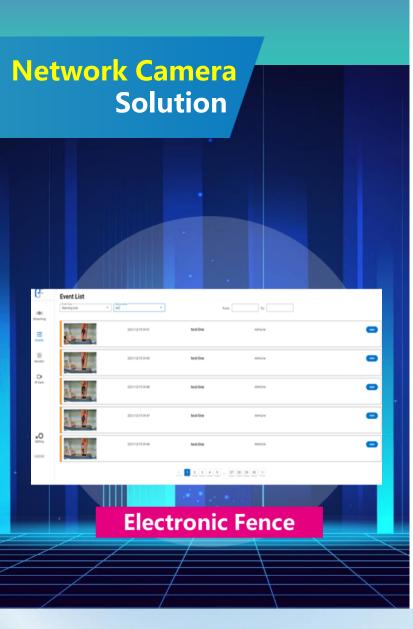
 Tracking each person's viewing behavior through anonymous data and understanding the advertising content that customers care about.

Increase Advertising Effectiveness

Ensure that the target audience receives the right content to increase the conversion rate and avoid wasting advertising budgets.







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EATURES Electronic Fence Solution

Intrusion Detection

The manager is able to divide surveilled zones and setup. Using AI technology for detecting human shapes, the system will first eliminate false identification of animals or light beams.

Loitering Detection

The manager is able to set up an idle time for each zone. When an unauthorized person trespasses or stays in the zone for too long, the system will immediately notify.

Real-Time Notification

Provide APP notified function that allows manager to view alert activities, and further prevents accidence at surveilled zones.



Network Camera Solution

Electronic Fence Solution

Real-Time Alerts

When a person attempts to enter the controlled area without permission. Automatically detected and sent alert notifications in real-time.

Reduce Labor Cost

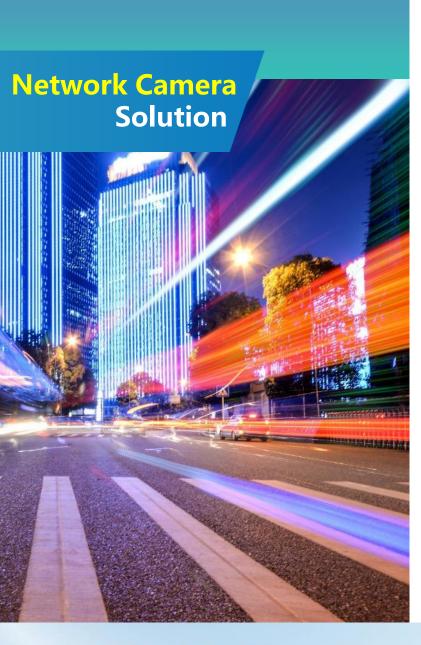
With AI technology, it can accurately monitor blind spots or dangerous areas, which can replace traditional surveillance methods and reduce labor costs.

Increase Overall Safety

Providing 24/7 nonstop security surveillance at each controlled area, the system acts as a safety check at all times. This will effectively prevent strangers from invading and reduce danger.







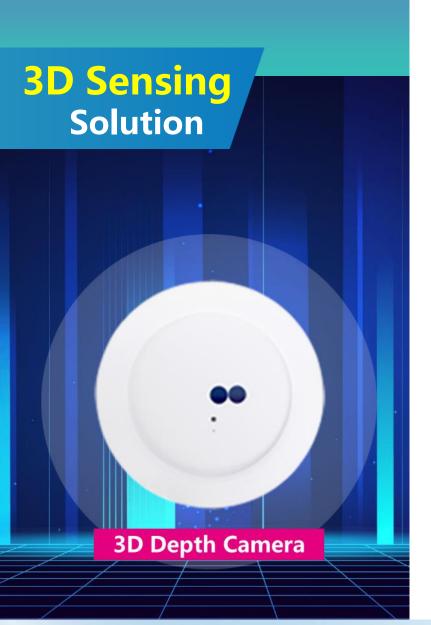
Electronic Fence Solution







3D Sensing Solution



FATURES Fall Detection Solution

Providing an Instant Response to Save Lives All Day Service, Stable and Accurate

- Combined with 3D measurement technology.
- Fall detection, judgment of human body posture and position.
- Not involve personal data, can be used in wards, toilets, stairwells.
- Compact size is designed for space-limited environments or decorated on the ceiling.
- The device can be integrated with the system.







SENETS Fall Detection Solution

Early Detection

Detect unaccompanied patient falls down unexpectedly and provide timely assistance in various situations to mitigate the injury.

Injury Prevention

Detect any slip, trip and fall incident immediately for timely handling, if not avoided, will result in death or serious injury.

Privacy Protection

Detect humans and objects without identifying individuals. It can be installed in private spaces such as a restroom.





Fall Detection Solution











For AI solutions related queries, please contact us : Email : sales@cloudmatrix.com.tw

