



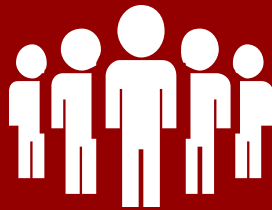
Icetea
Software

Case Study

AI Camera Application Management and Monitoring System



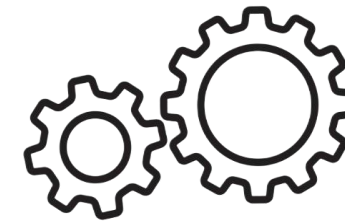
Face ID Monitoring and Management System



Face ID

The system uses AI cameras to manage facial recognition through Face ID, identifying individuals based on pre-registered facial data. It supports multiple features:

- Attendance and check-in/out tracking
- VIP Member notifications
- Blacklist alerts
- Visitor counting
- Recognition distance: 4-6 meters
- Accuracy rate: 99.8%



Customer

The AI camera system manages detailed customer information, including partners and service users of the company or store. It supports:

- Customer history tracking
- Customer group classification
- Notifications for responsible personnel for service

Face ID Monitoring and Management System



Reporting System

The reporting system provides comprehensive and detailed reports by area and by group of subjects, based on the AI Camera platform:

- Employee attendance reports
- Customer volume reports
- Returning customer reports
- New customer reports
- Classification reports: age, gender



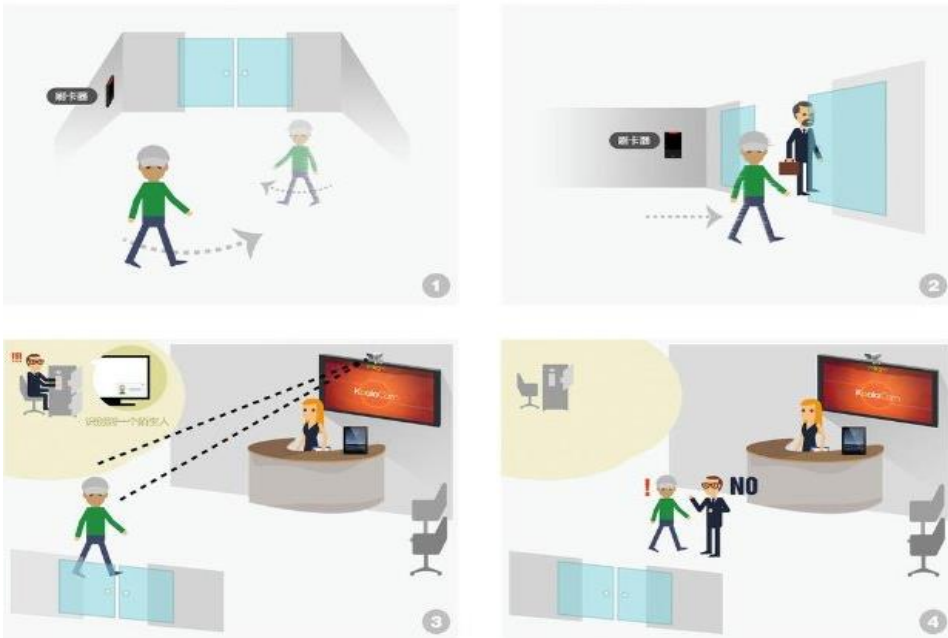
AI Camera

The AI Camera system is the foundational operating platform for the entire system. It is designed and installed according to the latest technological standards and tailored to requirements:

- IP Camera
- 4.0 Mpx
- IP 67
- LAN – POE
- Face ID

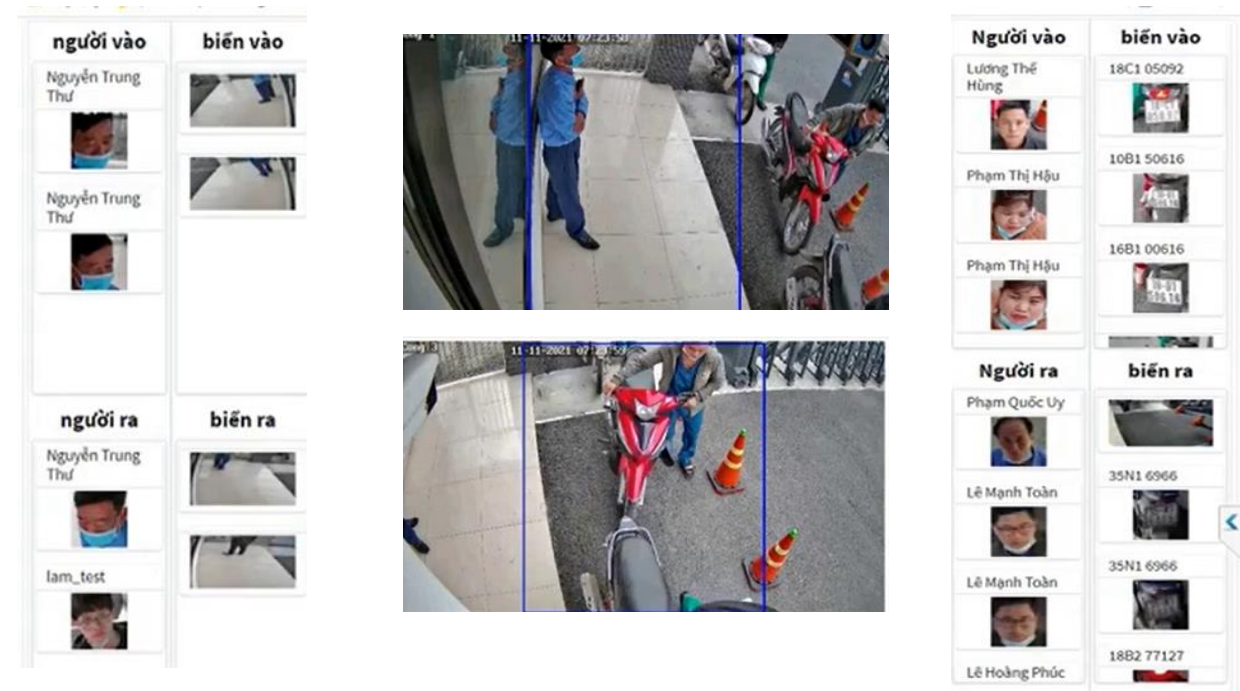
Monitoring System

Stranger Alert



The AI Camera system is installed in hallways and entrances to alert for unauthorized access by strangers.

Attendance – License Plate Comparison



Replaces fingerprint attendance devices

Accuracy rate: 99.8%

Compares license plates during entry and exit

Facial Recognition

Entrance



Bùi Cao Nguyễn



Bùi Cao Nguyễn



Bùi Cao Nguyễn



Exit



Bùi Cao Nguyễn



unknown

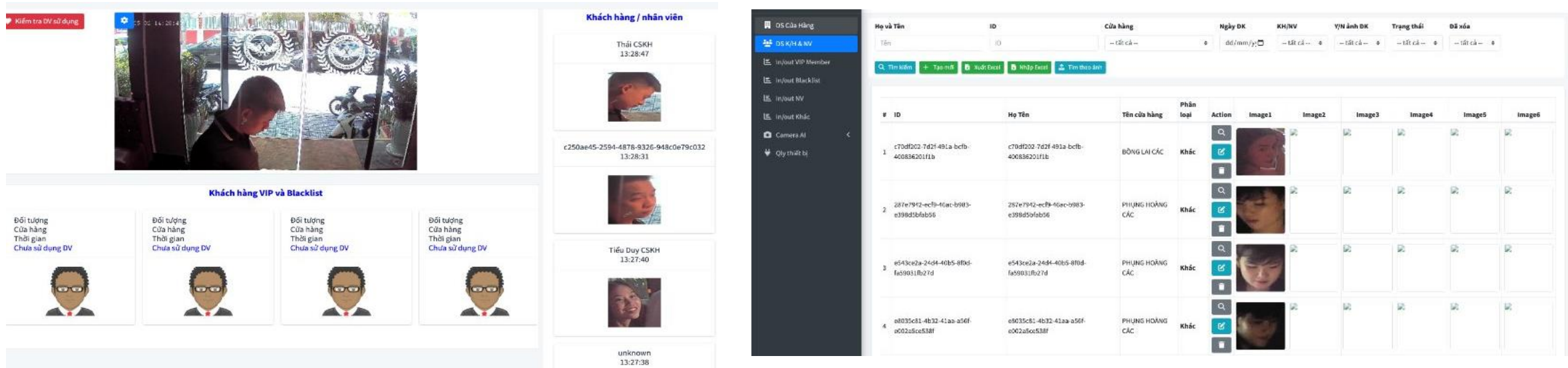


Bùi Cao Nguyễn



Face ID Management and Monitoring Software

This is an AI Camera platform by Icetea Software, helping to manage and monitor facial recognition quickly and efficiently. The security monitoring system can send notifications directly through Zalo, mobile apps, or computers and security screens. From there, users can easily access and retrieve event-related information.



Khách hàng / nhân viên

Thời CSKH
13:28:47

c250ae45-2594-4878-9326-948c0e79c032
13:28:31

Tiểu Duy CSKH
13:27:40

unknown
13:27:38

Khách hàng VIP và Blacklist

Đối tượng
Cửa hàng
Thời gian
Chứa sử dụng DV

Đối tượng
Cửa hàng
Thời gian
Chứa sử dụng DV

Đối tượng
Cửa hàng
Thời gian
Chứa sử dụng DV

Đối tượng
Cửa hàng
Thời gian
Chứa sử dụng DV

OS Cửa Hàng

OS KH & NV

In/Out VIP Member

In/Out Blacklist

In/Out NV

In/Out Khác

Camera AI

Quy thiết bị

Họ và Tên ID Cửa hàng Ngày DK KH/NV V/N ảnh DK Trạng thái Đã xóa

Tên ID

Tên cửa hàng

Phân loại

Action

Image1 Image2 Image3 Image4 Image5 Image6

#	ID	Họ Tên	Tên cửa hàng	Phân loại	Action	Image1	Image2	Image3	Image4	Image5	Image6
1	c70df202-7d2f-491a-bcfb-400836201f1b	c70df202-7d2f-491a-bcfb-400836201f1b	BÔNG LAI CÀC	Khác							
2	287e7942-ecf9-46ac-b983-e398d5b6b56	287e7942-ecf9-46ac-b983-e398d5b6b56	PHỤNG HOÀNG CÀC	Khác							
3	e543ce2a-24d4-40b5-8fbd-fa59031fb27d	e543ce2a-24d4-40b5-8fbd-fa59031fb27d	PHỤNG HOÀNG CÀC	Khác							
4	e8035c81-4b32-41aa-a56f-e002a5ce538f	e8035c81-4b32-41aa-a56f-e002a5ce538f	PHỤNG HOÀNG CÀC	Khác							

Event Video

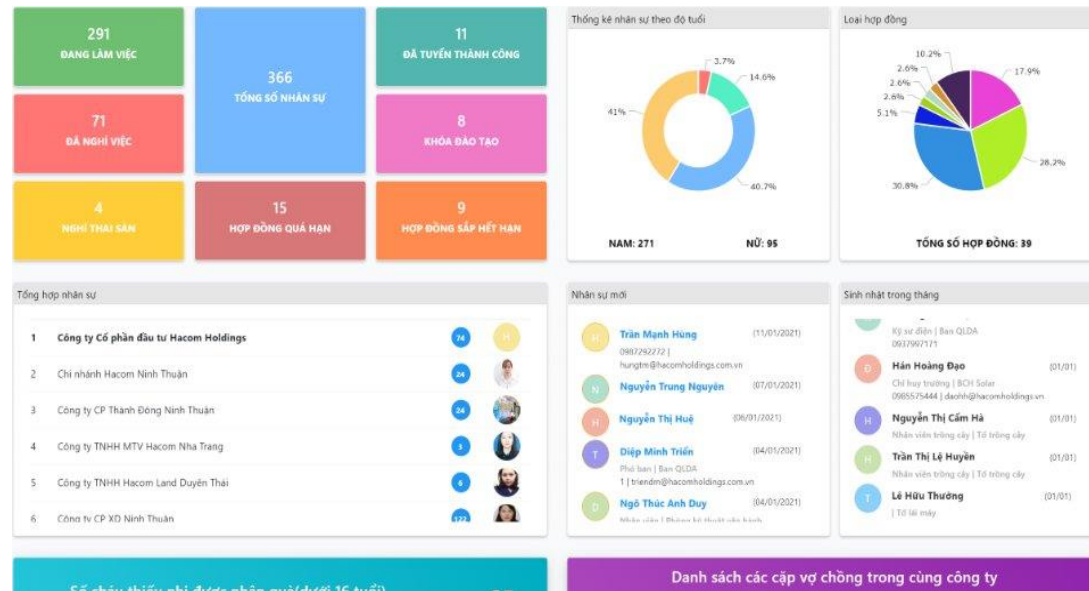
- Live stream
- Storage

Event recognition

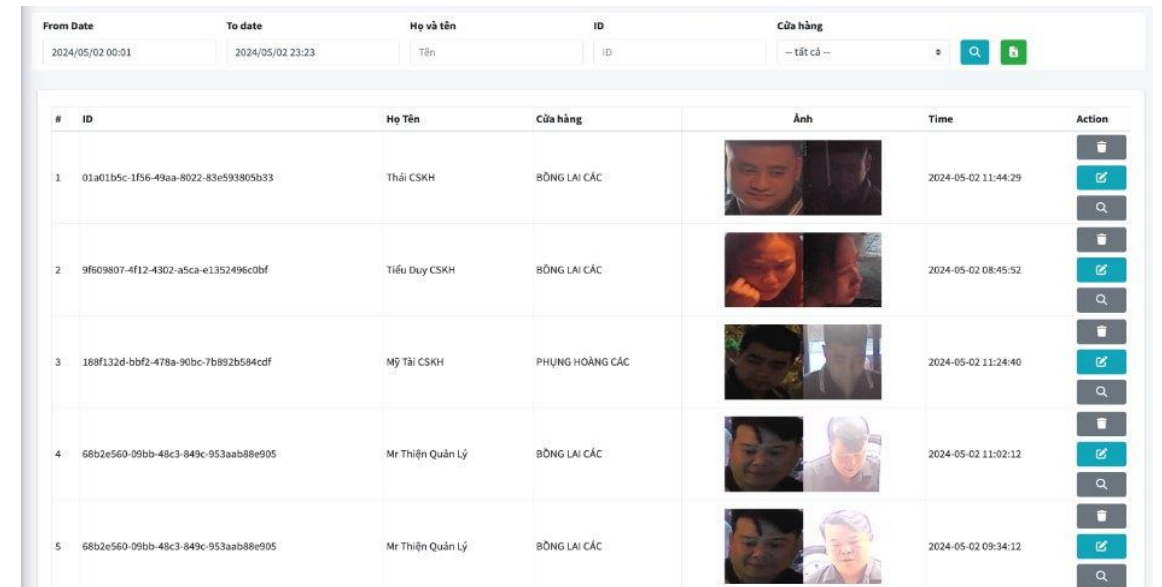
- Notifications
- Captured images

Face ID Management and Monitoring Software

The facial recognition monitoring software can analyze, provide early warnings, or give real-time alerts for security events such as: smoking, running, crowd gatherings, conflicts, intrusions, or certain office behaviors like using mobile phones, falling.



Reporting and Statistics System



The interface shows a table of events with filters and search options.

#	ID	Họ Tên	Cửa hàng	Ảnh	Time	Action
1	01a01b5c-1f56-49aa-8022-83e593805b33	Thái CSKH	BÔNG LẠI CÁC		2024-05-02 11:44:29	
2	9f609807-4f12-4302-a5ca-e1352496c0bf	Tiểu Duy CSKH	BÔNG LẠI CÁC		2024-05-02 08:45:52	
3	188f132d-bbf2-478a-90bc-7b892b594cdf	Mỹ Tài CSKH	PHỤNG HOÀNG CÁC		2024-05-02 11:24:40	
4	68b2e560-09bb-48c3-849c-953aab88e905	Mr Thiện Quản Lý	BÔNG LẠI CÁC		2024-05-02 11:02:12	
5	68b2e560-09bb-48c3-849c-953aab88e905	Mr Thiện Quản Lý	BÔNG LẠI CÁC		2024-05-02 09:34:12	

Event Log Management

Campus and Perimeter Management Solution

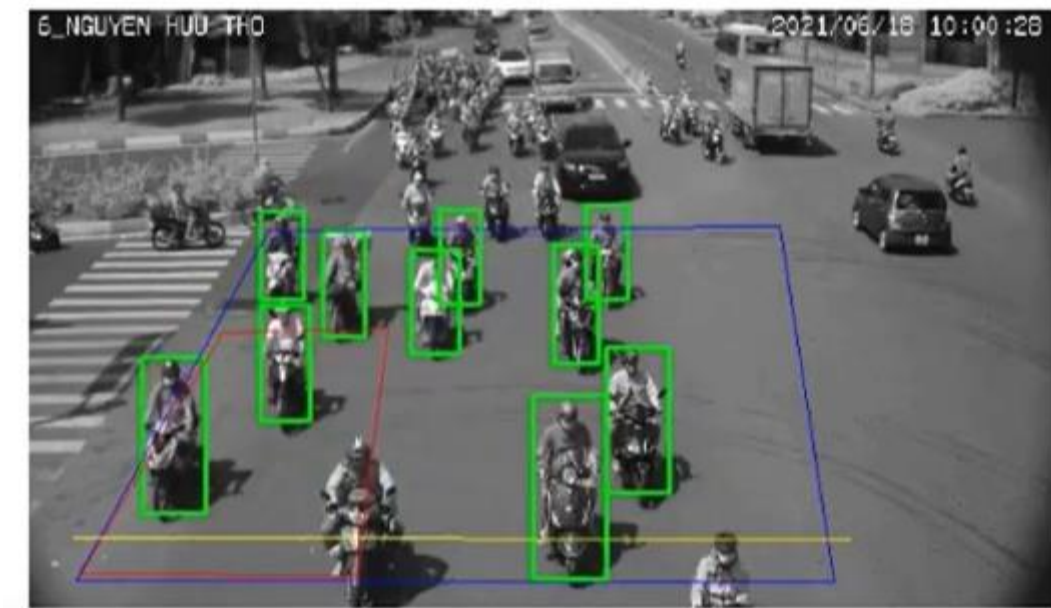


Intrusion Alerts



Restricted Area Entry Alerts

Vehicle and traffic monitoring solution

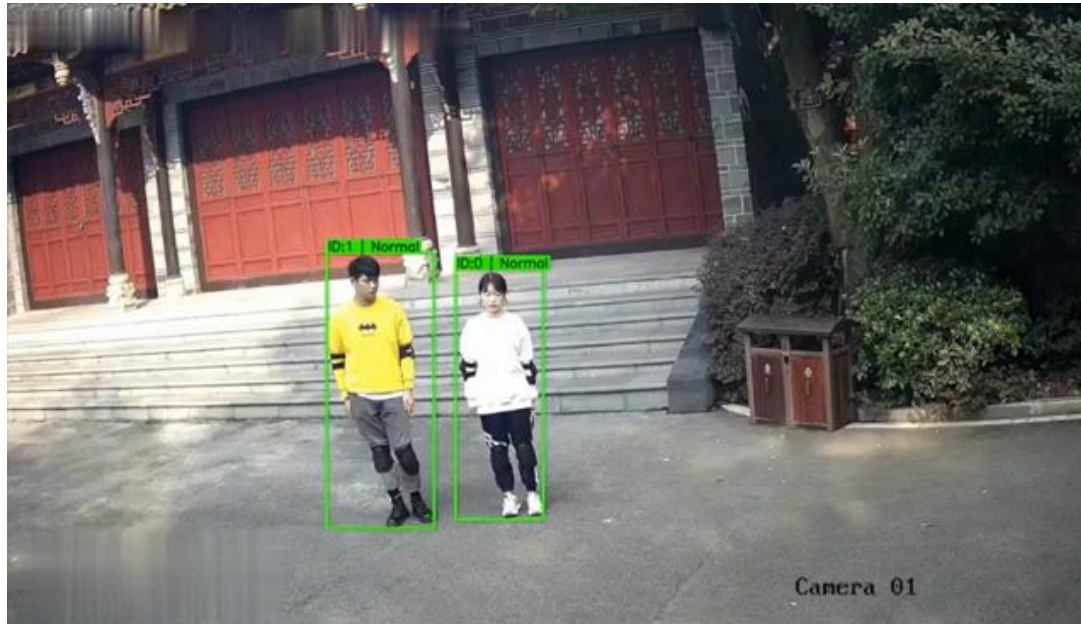


Traffic monitoring



Warning stop in prohibited area

Behavior Management



Smoking Behavior Alerts



Mobile Phone Usage Alerts During Working Hours

Behavior Management



Running Behavior Alerts



Conflict Detection

Event Management



Flow Control



Crowd Gathering Alerts

Camera AI

- **Target users:** Shops, hotels, shopping malls, corridors, streets, households, enterprises.
- **Specifications:** POE, Cloud + TF, Infrared, LED, Two-way communication, IP 67.
- **Protocols:** GB/T 28181, GA/T 1400, ONVIF,...

**AI**

Face ID

Mask

Vehicle

License Plate
Recognition

Area Alerts

Traffic Counting

Value of the Solution

The AI Camera management and monitoring software is an integrated system that offers a comprehensive approach for shops, businesses, restaurants, hotels, and households.

The real-time surveillance camera system is analyzed and alerts are provided accurately and swiftly.

- Management**
- Entry-Exit Control
 - Staff Management
 - Customer and Visitor Management



**Camera
AI**



Security

Human

- Fence
- Behavior
- Personnel control
- Track the trajectory

Vehicles

- License plate recognition
- Identify stopping and parking violations
- Parking management

Warning

- Warning system

Event

- Event storage
- Event analysis
- Event alarm
- Monitor processing

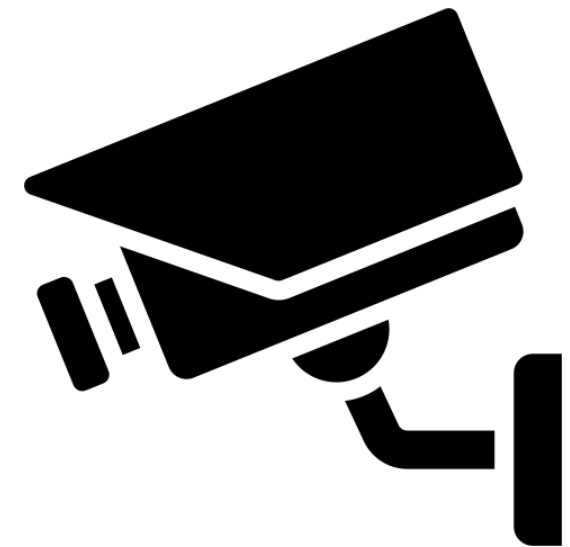


Monitor

Provide a comprehensive operational management and monitoring system based on an AI camera platform.

Key Highlights

- Utilizes machine learning and deep learning
- Training with a dataset of > 5.000.000 Asian faces
- Accuracy rate ~99.5%
- Processing speed < 500ms
- Attribute recognition: hat, helmet, mask, uniform, ect.
- Fire warning with a detection time < 200ms
- People counting within the area



Customer

- 150 traffic points
- 4 BOT stations



- Tam Chuc – Bai Dinh
- Thung Nham Resort
- Thuy Loi University



- Bach Mai Hospital
- Entering Diplomatic Corps Urban Area
- APEC GROUP



- GOWASH car wash
- Mernard Cosmetics Chain
- Spa Chain
- Fashion Chain



Icetea
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Let's Build great Things Together!

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