Icetea
Software

Case Study

AI Camera Application Management and Monitoring System

Icetea Software

Face ID Monitoring and Management System
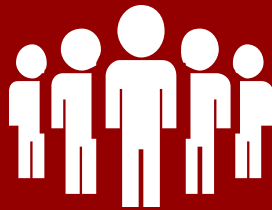
Face ID

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%
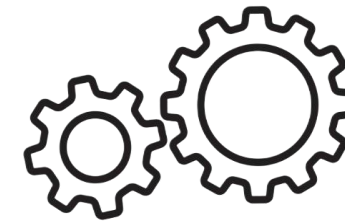
Customer

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
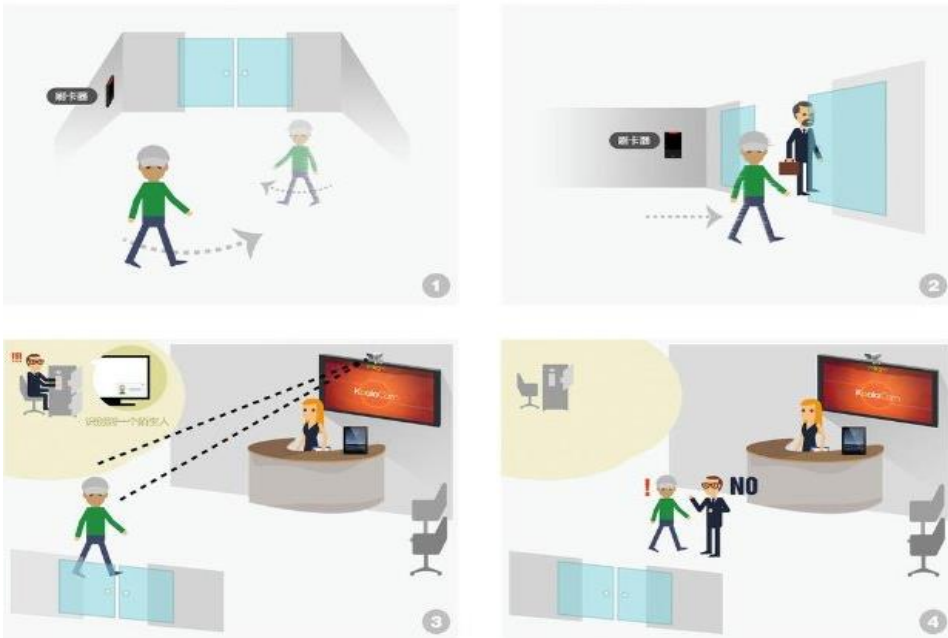- New customer reports
- Classification reports: age, gender

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
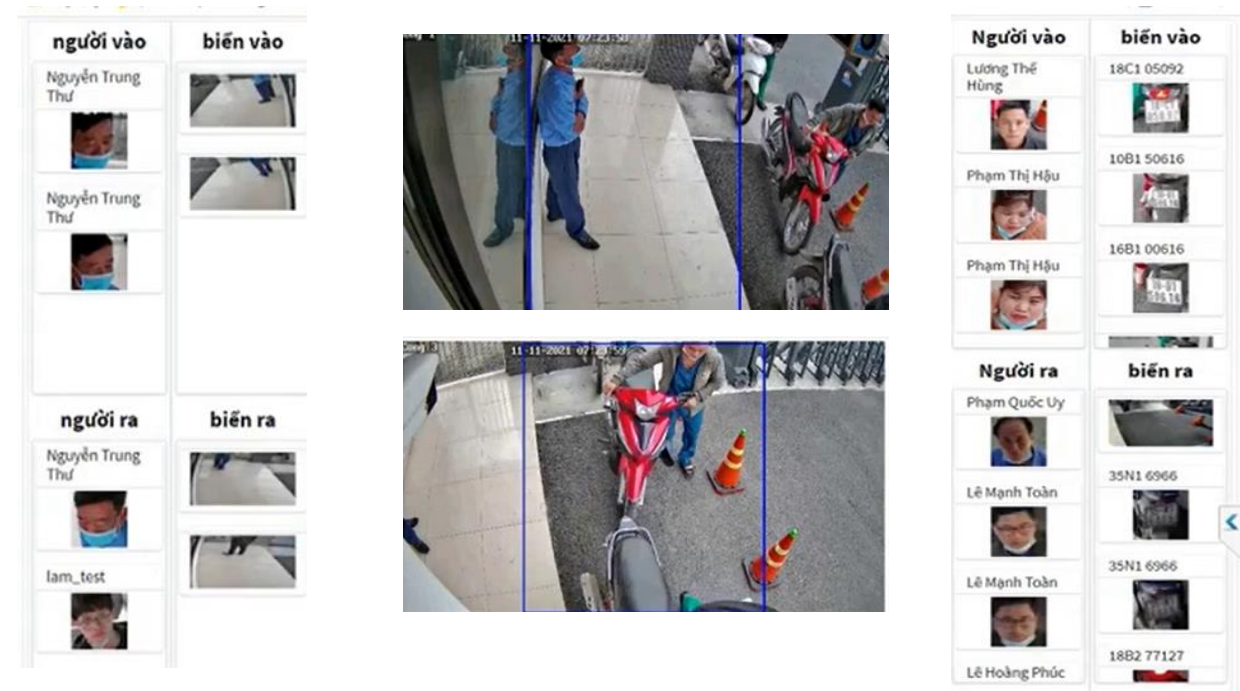- 4.0 Mgpx
- IP 67
- LAN – POE
- Face ID

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
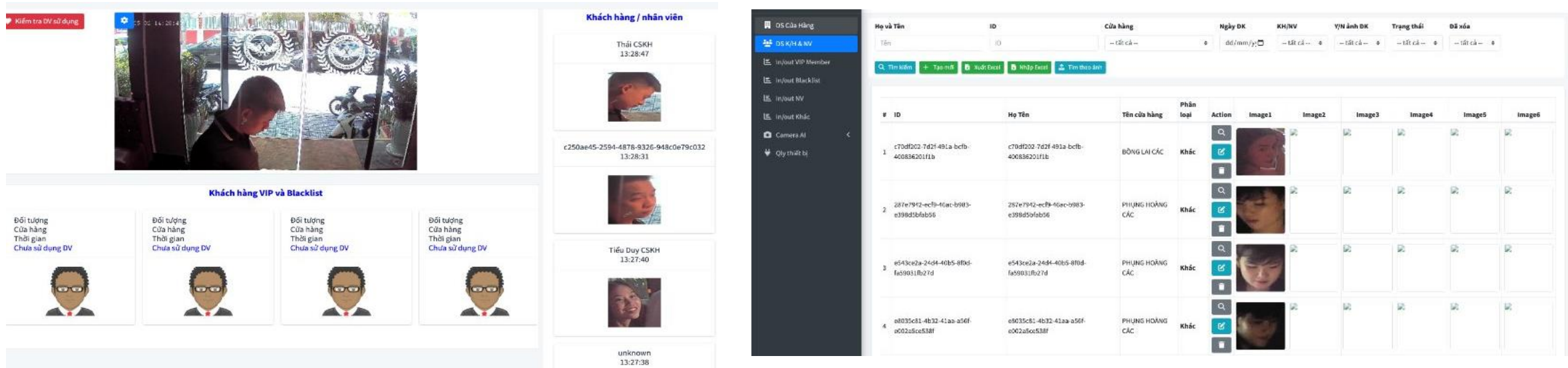
Face ID Management and Monitoring Software

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.
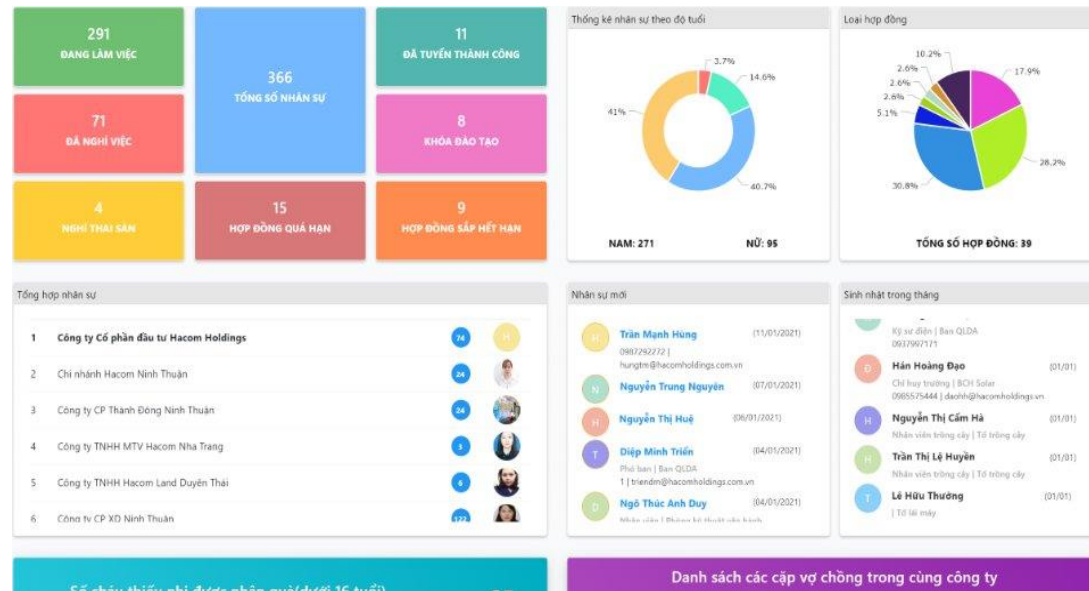

Event Video
- Live stream
- Storage

Event recognition
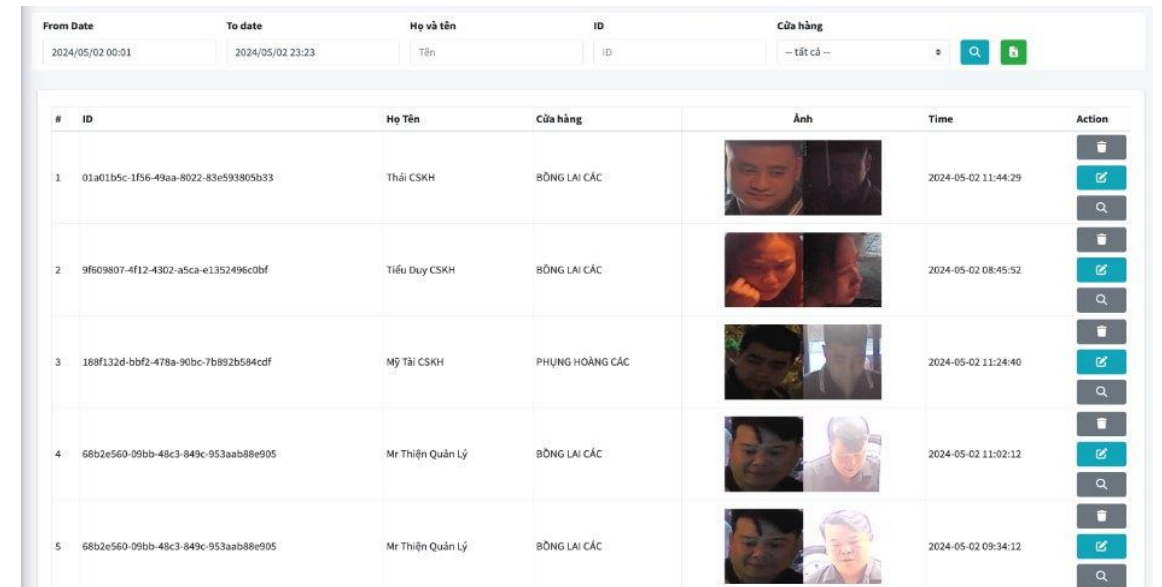- Notifications
- Captured images

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

Event Log Management

Campus and Perimeter Management Solution
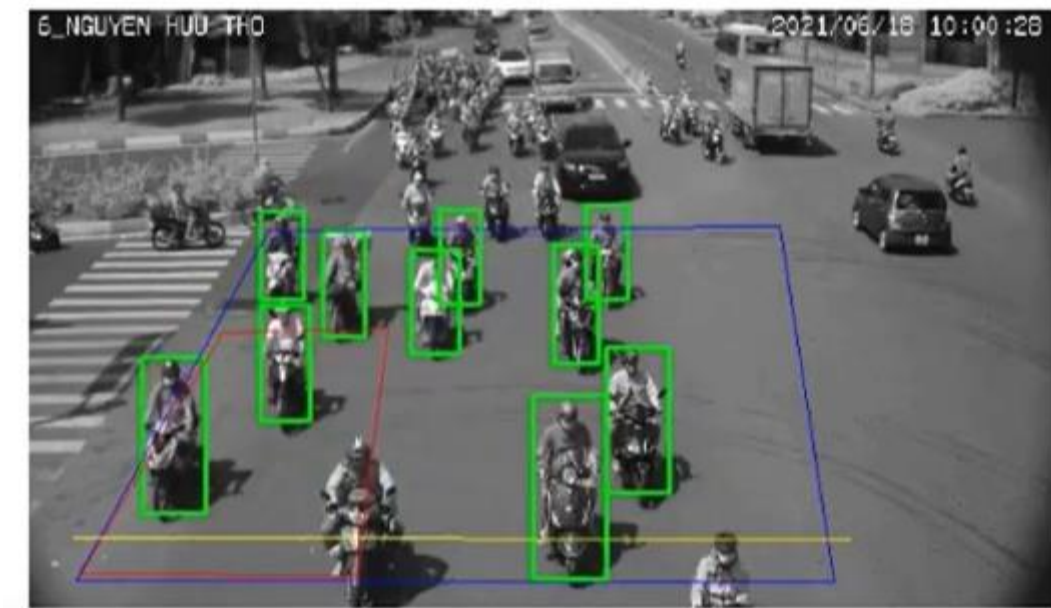

Intrusion Alerts

Restricted Area Entry Alerts

Vehicle and traffic monitoring solution

Traffic monitoring

Warning stop in prohibited area

Behavior Management
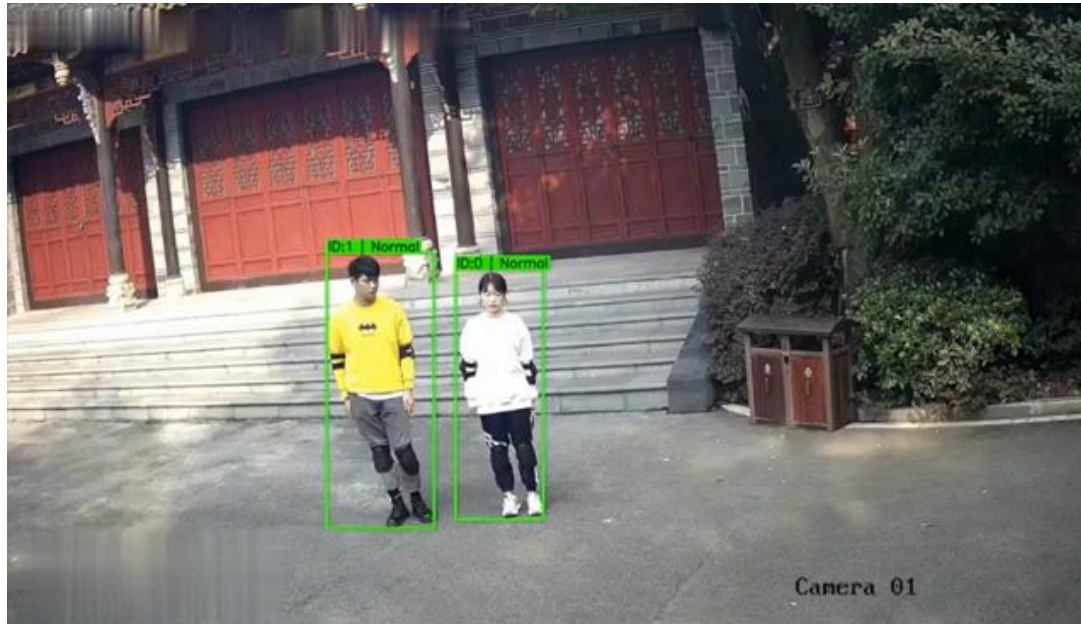
Smoking Behavior Alerts

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.

Security

Camera AI

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

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

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
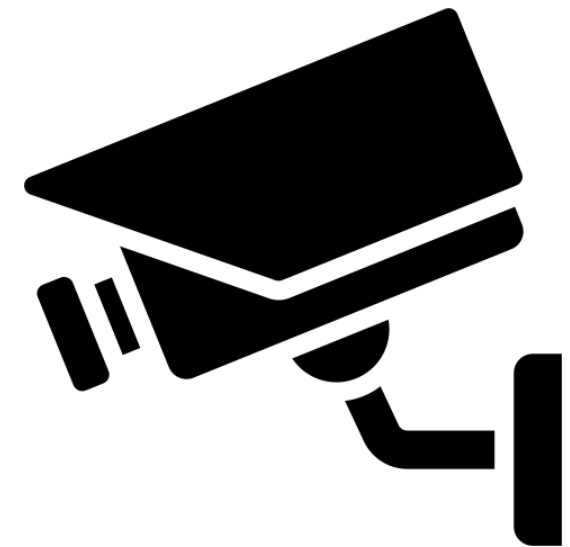
Customer

- **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**

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Let's Build great Things Together!

11th Floor, IPH Tower, 241 Xuan Thuy Street, Cau Giay District, Hanoi, VietNam
VietNam

iceteasoftware.com

Icetea Software

(024) 6658 5248

sales@iceteasoftware.com