ZKBio CVSecurity ISP

(Integrated Security Platform)

General Introduction

Version: V5000

Update Date:02.04.2021

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Software Introduction

What's ZKBio CVSecurity ISP

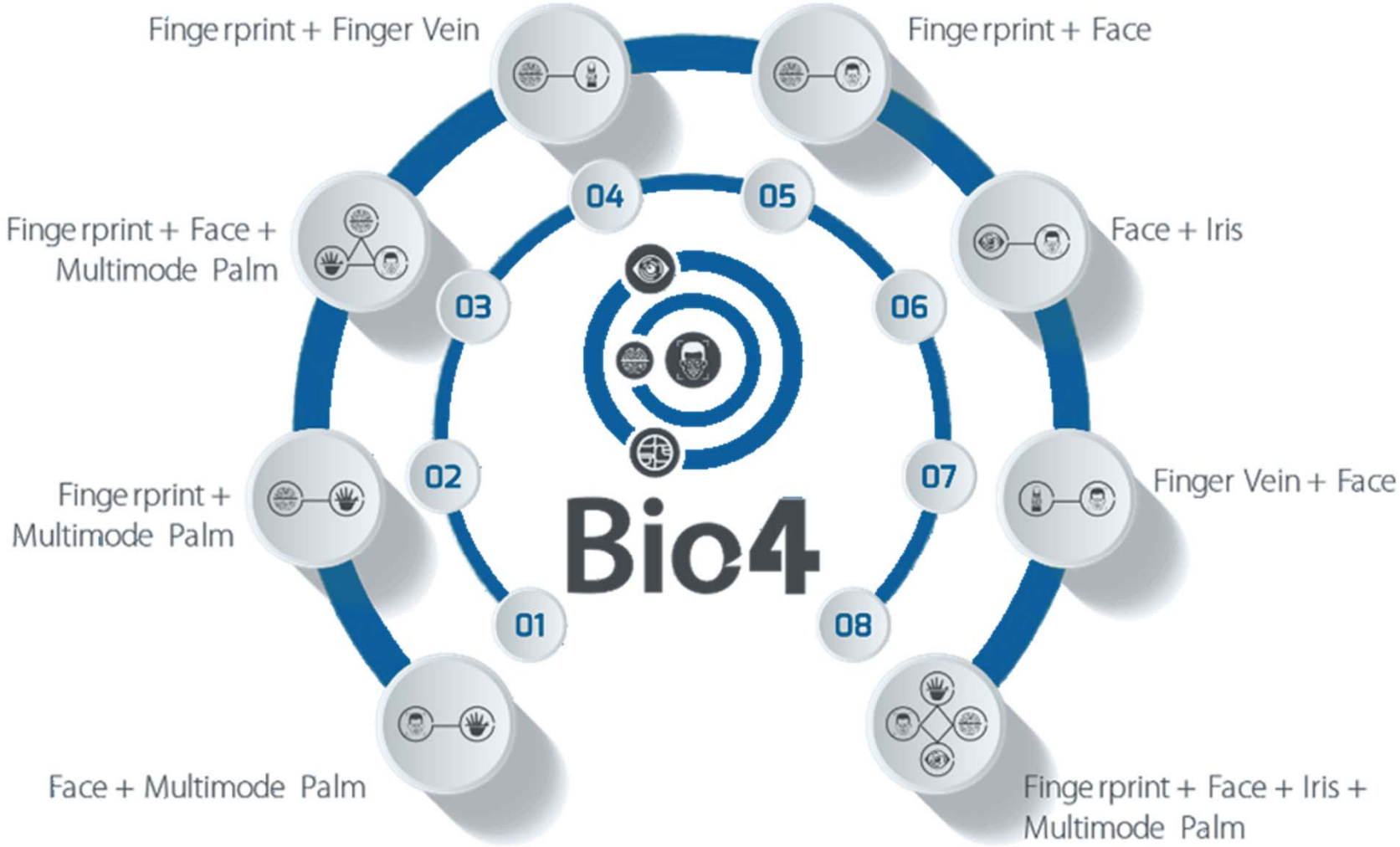
ZKBio CVSecurity ISP (Integrated Security Platform) is a one-stop visual BS-based security platform software developed by ZKTeco.

On the basis of the original ZKBioSecurity (**Access Control**, **Attendance**, **Elevator Control**, **Visitor Management**, **Parking Module, Conference Room Management**, **Information Screen Module**), the Cloud IVS System (3000/3800) is integrated , meanwhile, through integration of other excellent solutions and continuous innovation, formed a comprehensive park security solution includes **Access Control， Video Surveillance， Video Intelligent Applications， Visual Alarm Monitoring， Fire Alarming， DCS-Elevator Control Destination Control System**, as much as possible to meet the security needs of the park.

With an optimized system architecture designed for high level biometric identification and a modern-user friendly UI, ZKBio CVSecurity ISP provides the most advanced solution for a whole new user experience.

Basic Architecture

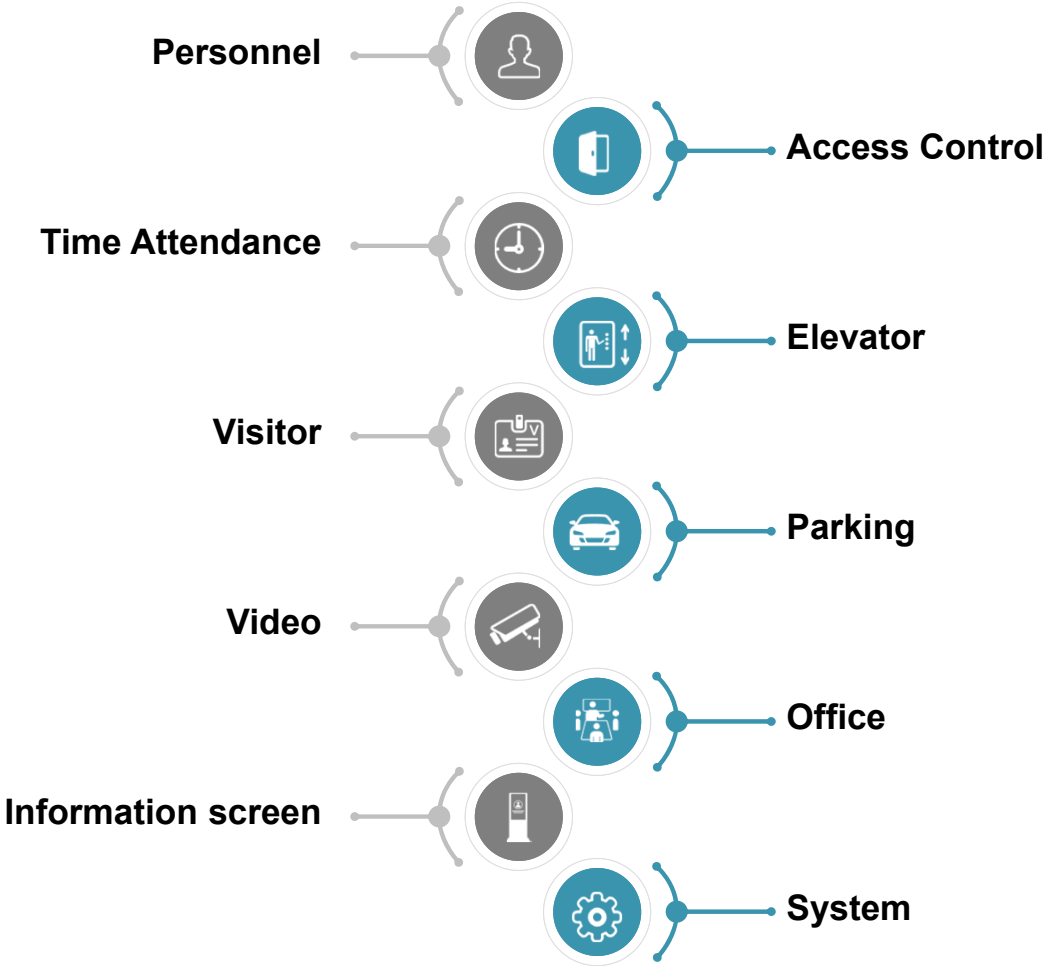
Bio4 HybridBio Verification Technology



Application on Different Fields

Modules of ZKBio CVSecurity ISP

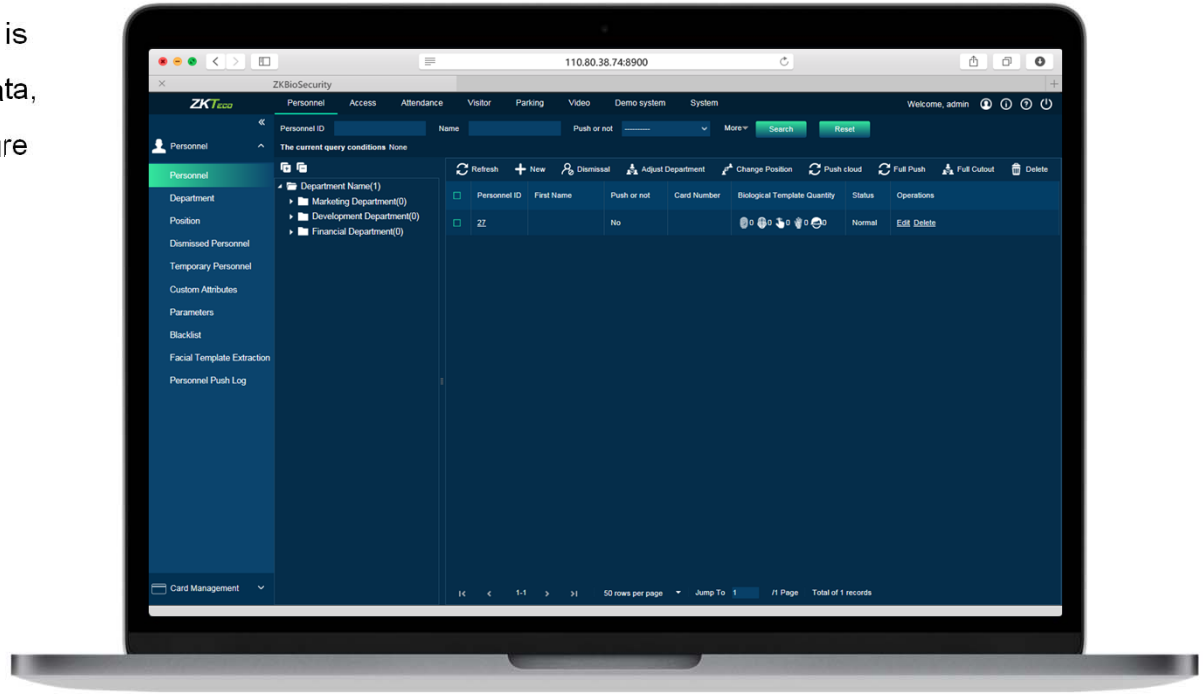
ZKBioSecurity



Personnel

The basic personnel data under the personnel module is connected with the VCM system, sharing personnel data, and uniformly managing personnel information to ensure data uniqueness.

- Personnel management
- Card Management



Access Control

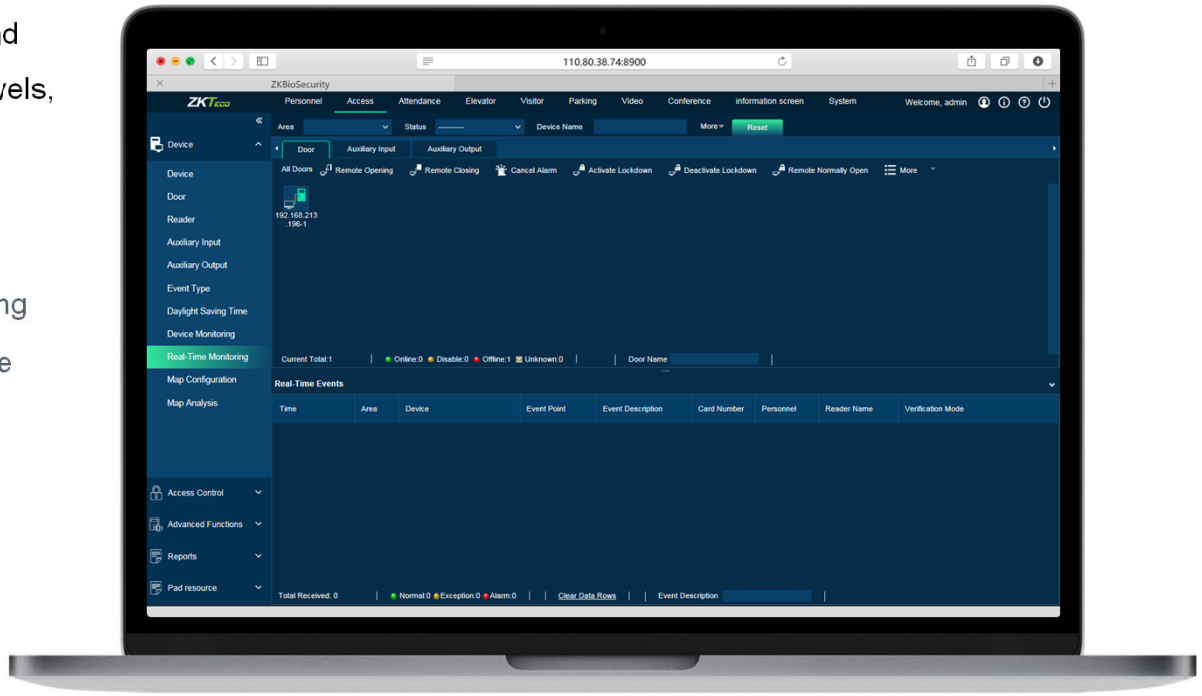
Access modules is used to manage access devices and setting access rules and functions, such as Access Levels, Linkage, Antipassback, Multi-Person Verification, Occupancy Control and more...

Advanced Functions

- Global Linkage
- Global Interlock
- Global Anti-Passback
- Who is inside
- Person Availability
- Occupancy Control

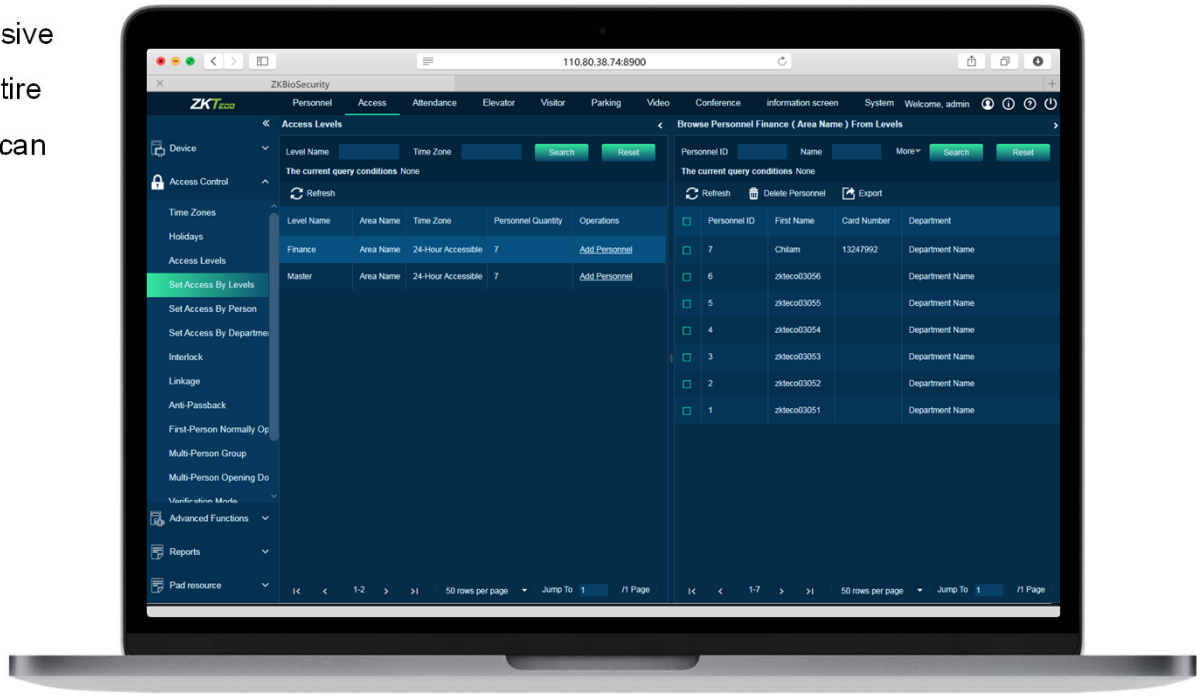
Real-Time Monitoring

- Video Linkage



Access Control – Access Rules

Under the access control rules, we can set comprehensive and detailed access control. From individuals to the entire departments, from a single door to the entire area, we can find corresponding access control settings.



Access Levels

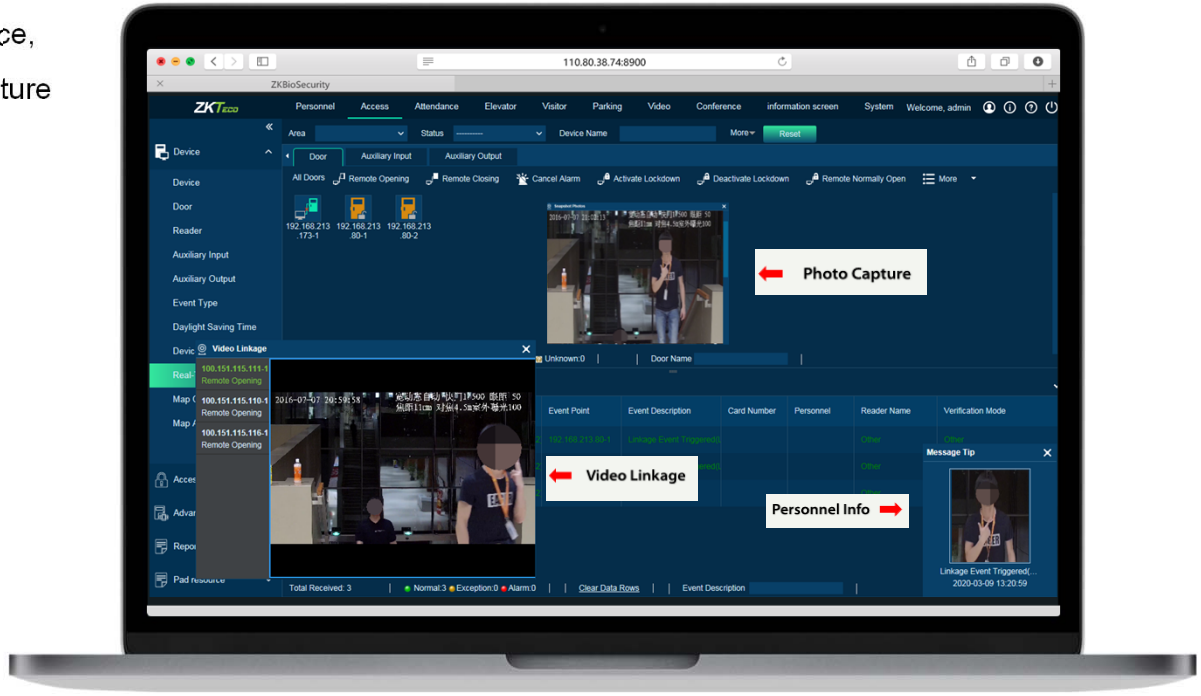
- Set Access By Levels
- Set Access By Person
- Set Access By Department

Access Control - Real time monitoring

After someone verified successfully on an access device, one or more Huawei camera would be triggered to capture a photo and take a short video.

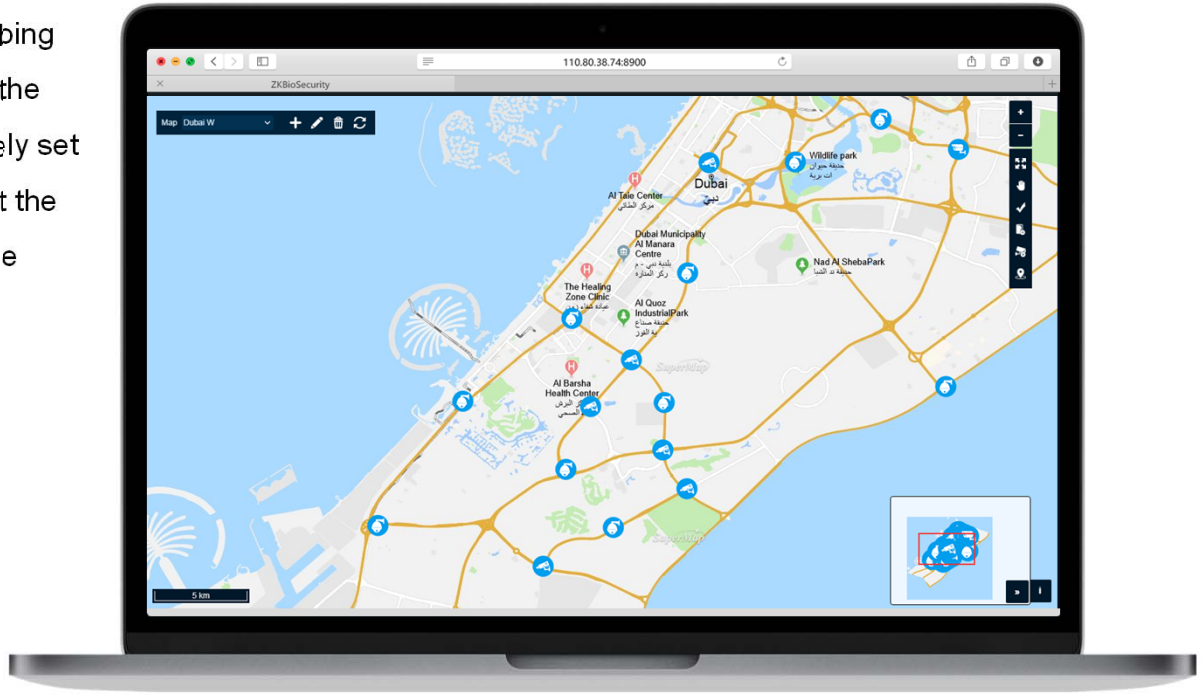
Real-Time Monitoring

- Video linkage



GIS Map

The GIS system combines the layer information describing the location, through which you can better understand the location, the application of GIS map can more accurately set the video and access control equipment on the map. At the same time, the General map can be used to monitor the access control and video equipment.

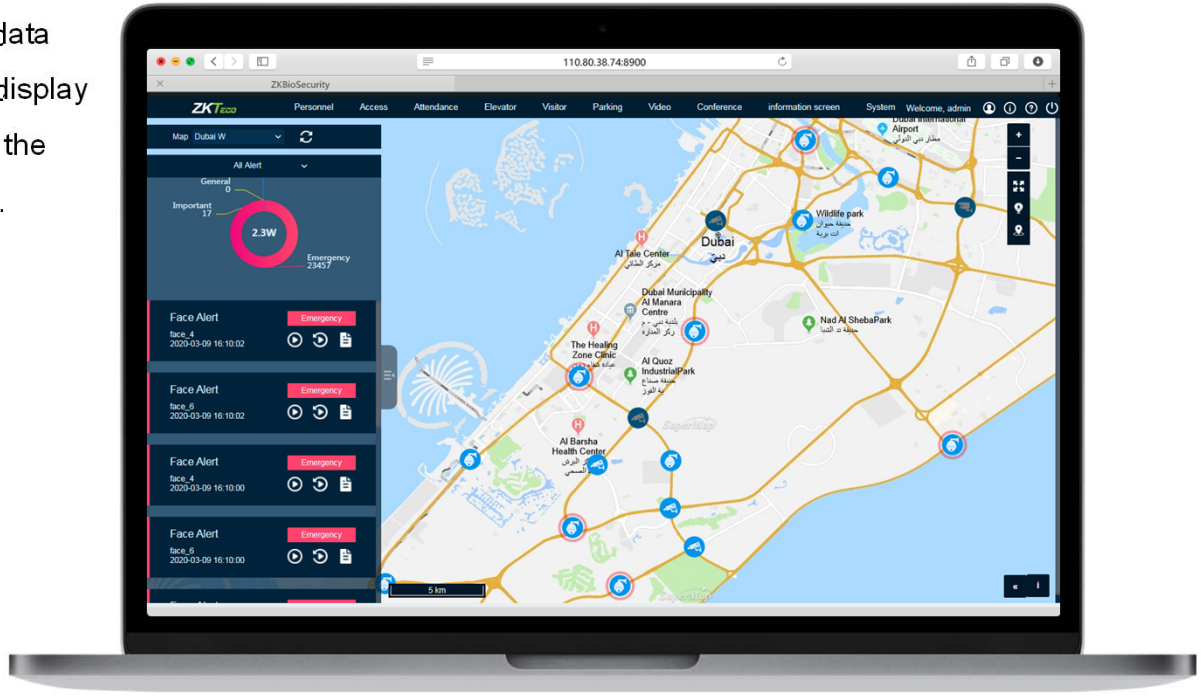


Maps

- GIS Map
- General Map

Alarm Center

With the support of GIS map, when there is abnormal data and video abnormal monitoring, it can more intuitively display the occurrence location. and according to the urgency, the cameras on the map display different colors for alarms.

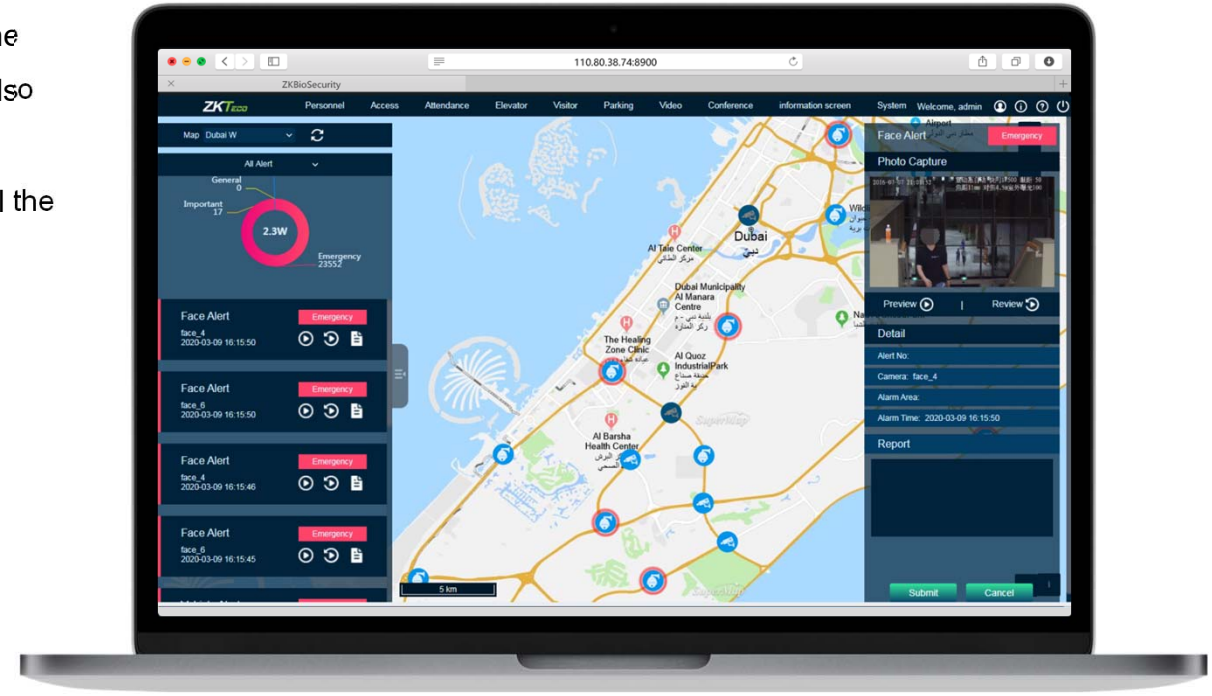


Alarm Center

- Real-time Alert
- Video Preview
- Personnel Track

Alarm Center - Real-time Alert

When an alarm is captured, a window will pop up in the alarm center, you can preview it in general, you can also click it to view the alarm details to deal with the occurrence of special conditions. Here you can see all the alarm conditions within your authority



Alarm Center

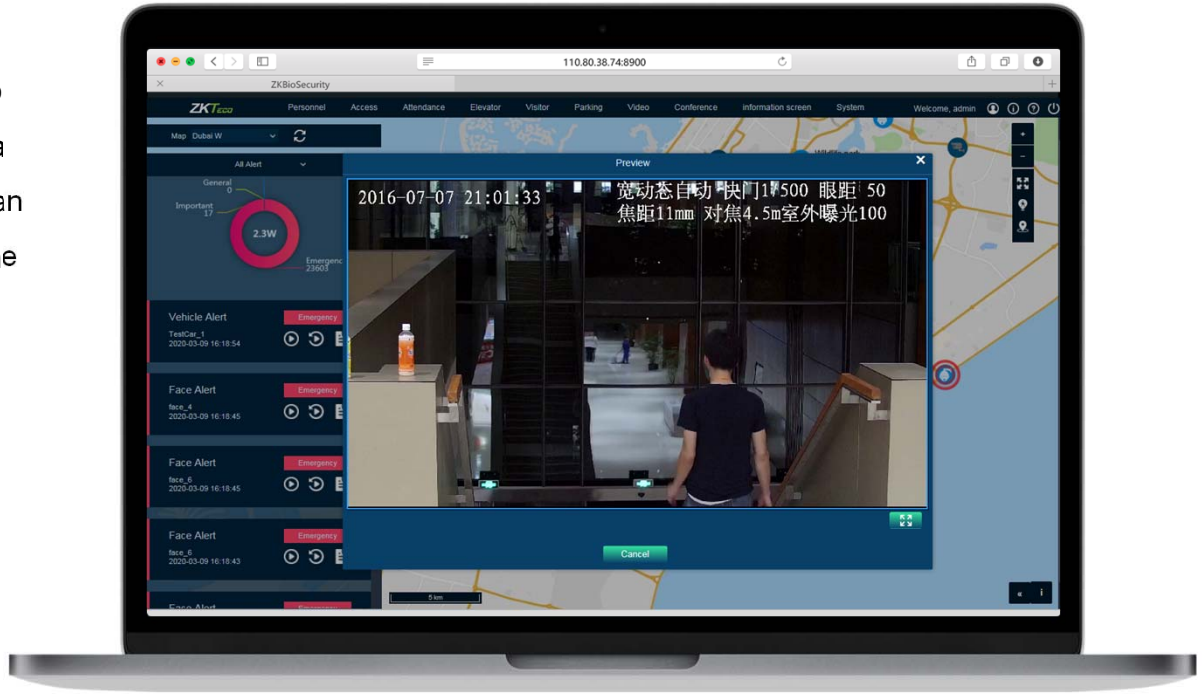
- Real-time Alert
- Video Preview
- Personnel Track

Alarm Center- Video Preview

When something happens, or if you want to quickly understand the situation in a certain location, the video preview function can quickly help you, click the camera device icon on the map, or click the preview button of an alarm to help you quickly understand the situation at the scene and make corresponding judgments.

Alarm Center

- Real-time Alert
- Video Preview
- Personnel Track

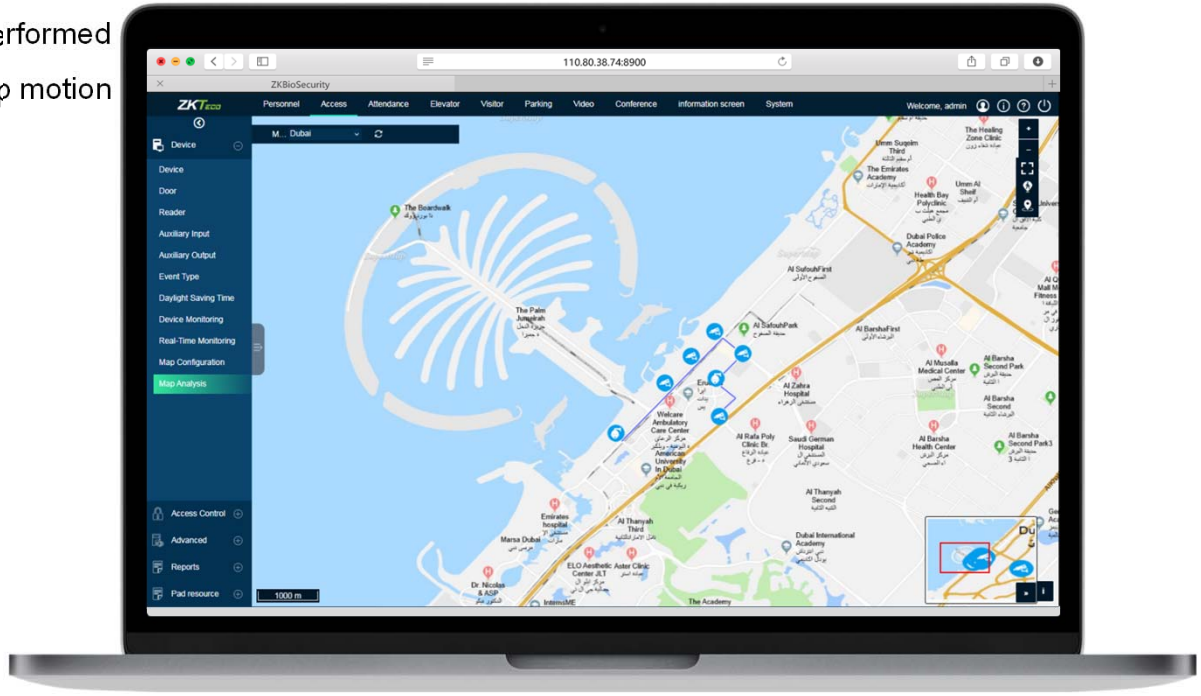


Alarm Center - Personnel Track

According to a person's face photo, a face search is performed in a video recorded by a camera in the map, and a map motion track of the face is generated in chronological order.

Alarm Center

- Real-time Alert
- Video Preview
- Personnel Track

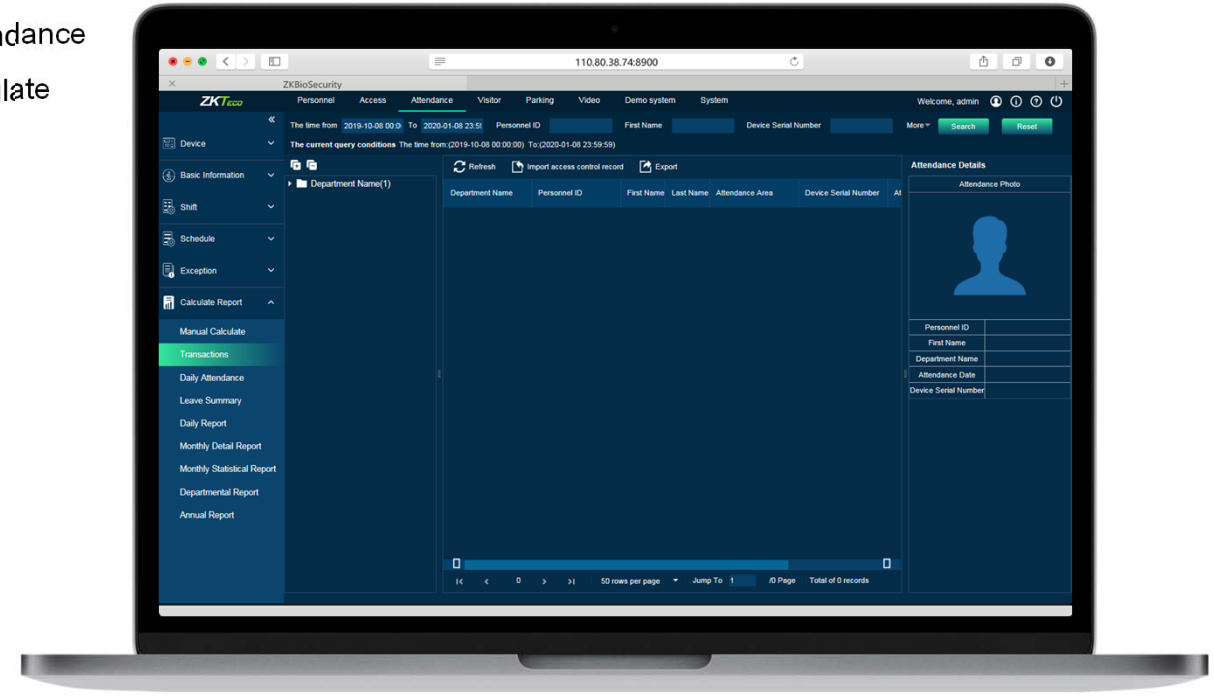


Time Attendance - Perception Attendance

Receive records from VCM, and take records as attendance records, then according to the attendance rules, calculate valid work hours.

Time Attendance

- Perception Attendance
- Attendance Point

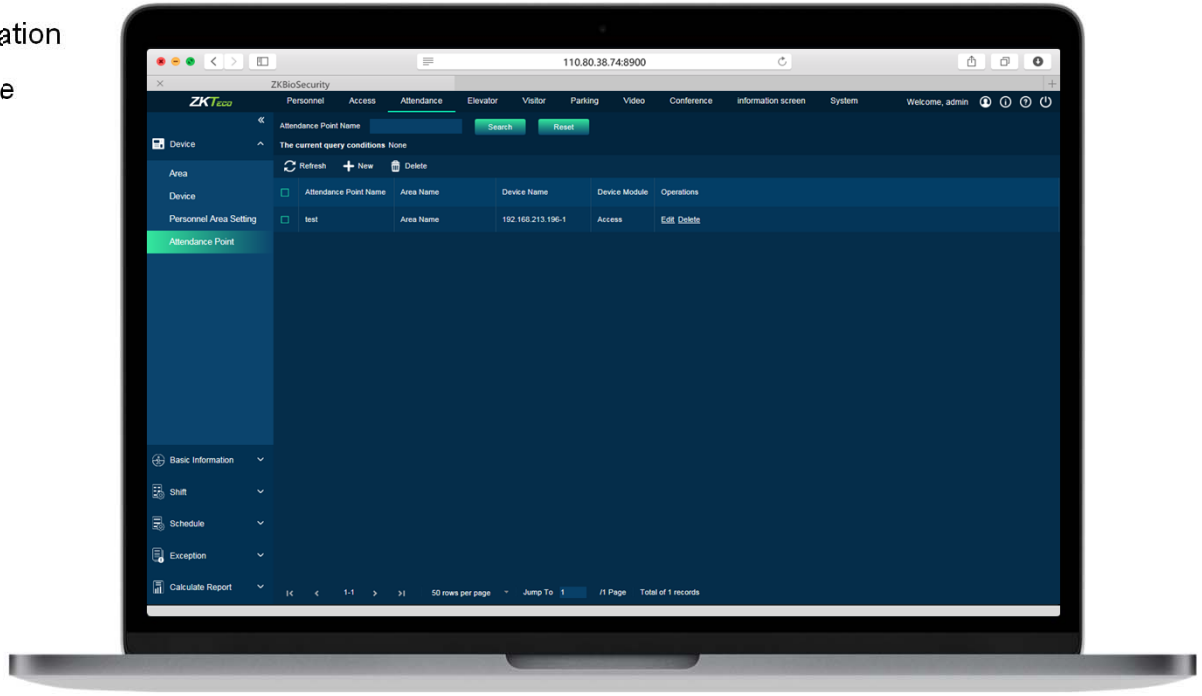


Time Attendance - Attendance Point

You can preset some access control devices or Information Screen as Attendance Point, and people verify on these devices will be recognized as attendance information.

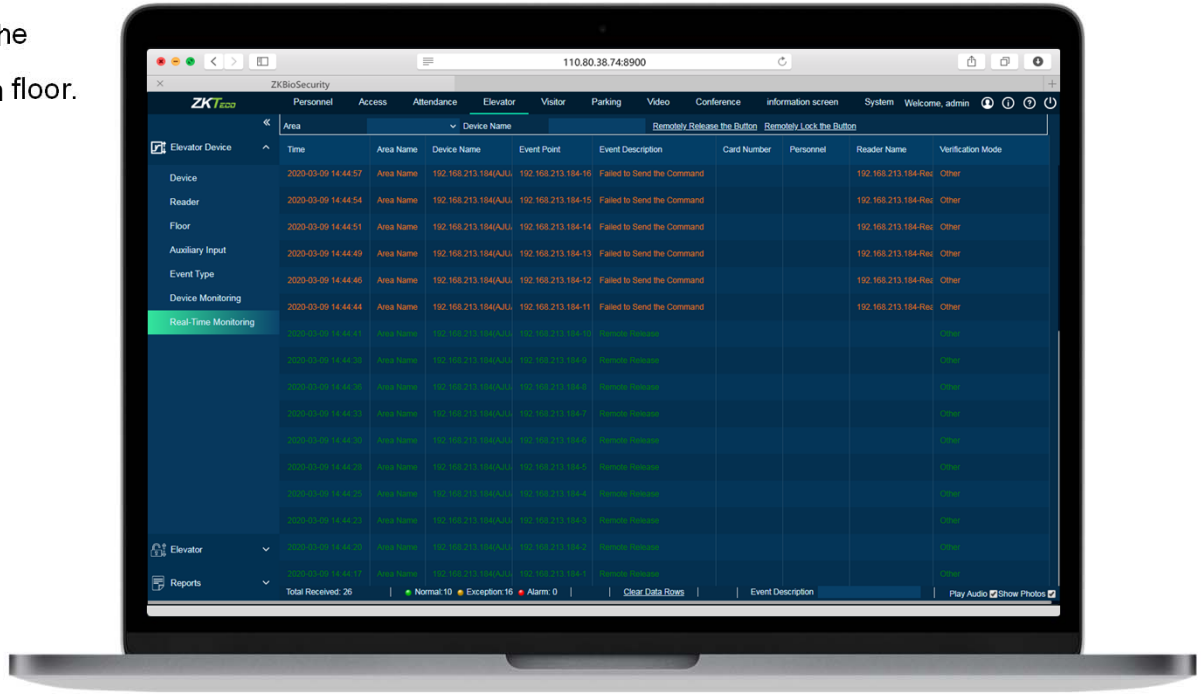
Time Attendance

- Perception Attendance
- Attendance Point



Elevator Control

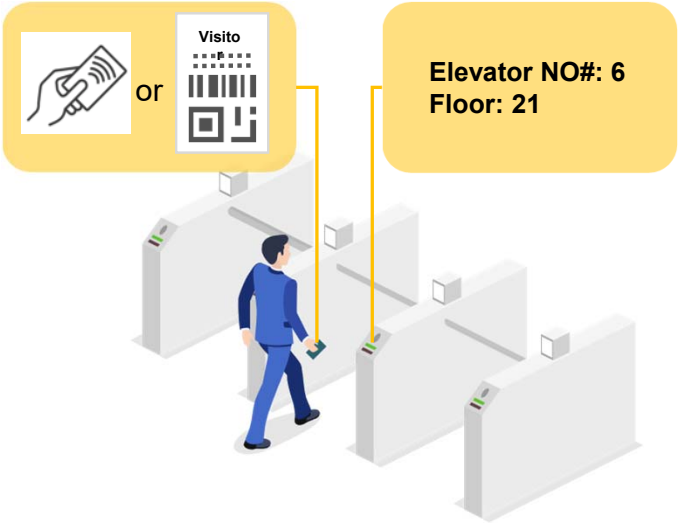
Using our elevator system, we can accurately control the permissions of each floor to ensure the privacy of each floor.



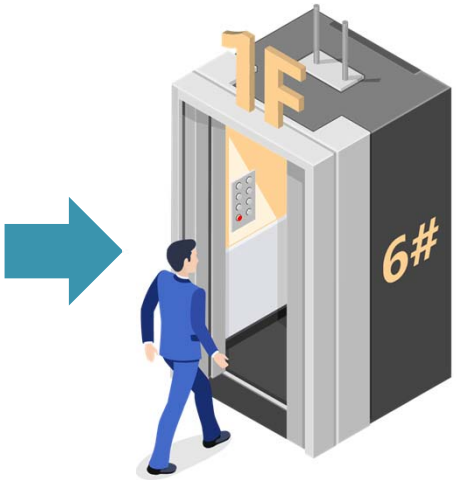
- Real-time Monitoring
- Global Linkage
- Elevator Access Levels
- Elevator Operation limited by Timeslots

Elevator Control- Destination Control System

DCS simplifies the process of taking the elevator, no need to press the elevator, customers only need to swipe the card (or the QR Code) once. At the same time, this solution effectively reduces the number of elevator stops in the same lifting process, improve transportation efficiency, and optimize customer experience.



Present card (or QR Code) on the entrance control, the screen shows the avalible elevator and destination



Enter the elevator

Elevator will go upward/downward to the destination

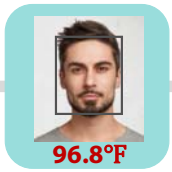
Visitor

Visitor management has always been our focus on security. Our system can register visitors at multiple points, meticulous permissions, and visitor tracking to ensure the safety of visitors and the enterprise.

- Multi-point Visitor Registration
- Web-Based Management
- E-mail and SMS Notification
- Integrated OCR function

Visitor- Self -Service Registration Process

Method 1 - On-site Face Registration



Tempreature screening

Fill in health information

Identity match

Fill in personal information & host

Method 2 - Scanning QR Code for Registration On Site

Scan the QR code shown on the device

Fill in health & personal information

Method 3 - Remote Invitation, Register by Scanning the QR Code Sent by Email

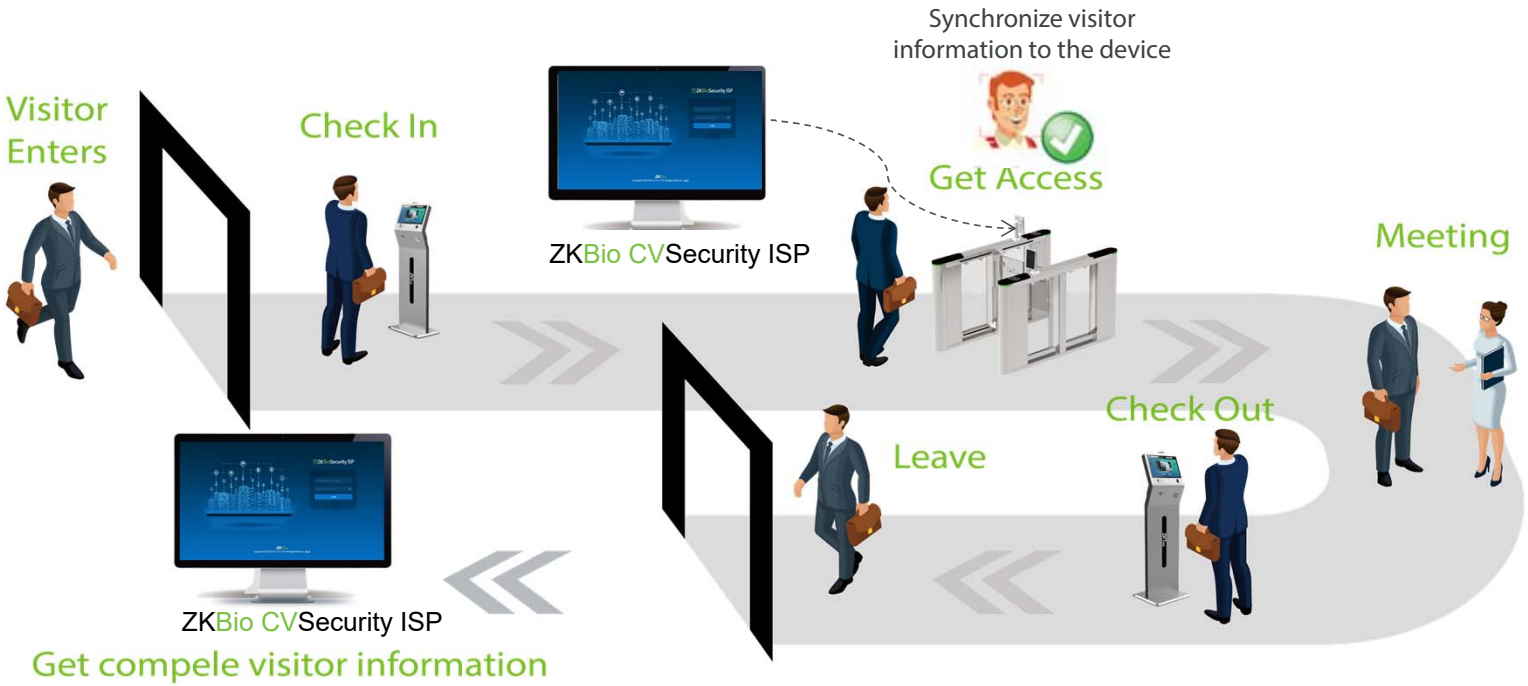
Scan the QR code

ZKBio CVSecurity ISP

Upload to the software and wait for review

Visitor-Visit Process

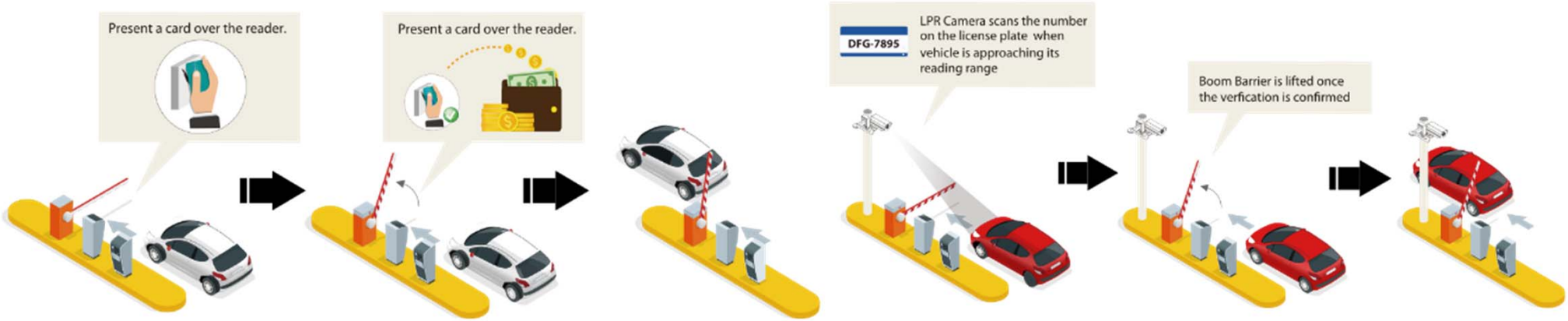
Automates the entire process of registering a visitor, temperature screening, printing a visitor ticket, and getting the visitor access control in a few minutes.



Parking

Parking system combined with LPR camera can save you a lot of manpower. We can recognize your license plate. Whether you are a regular user or a temporary user, we will automatically check out your expenses when you leave.

- Automatic License Plates Verification(with LPR Camera)
- Payment Management
- Real-time Parking Lot Monitoring



Video

The video module realizes the visual control of the movements of people, cars, and objects in the park through the networking of video equipment.

Surveillance

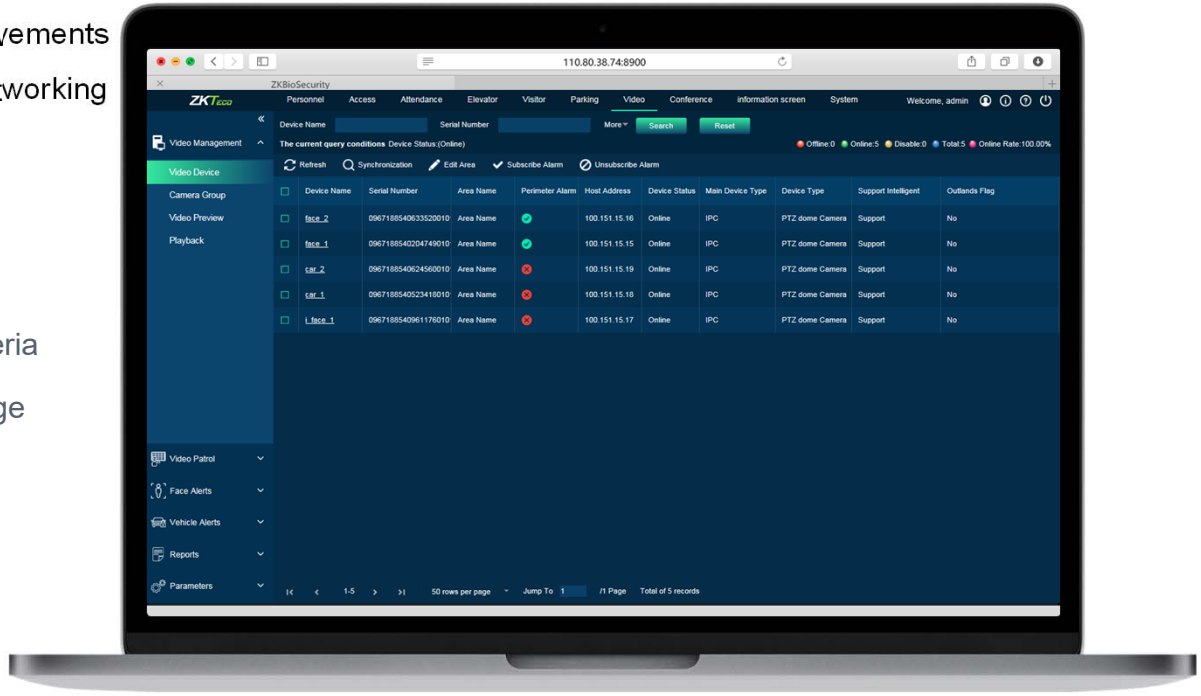
- Video Preview
- Video Playback
- Video Patro

Personnel Parsing

- Personnel Alert
- Face Comparison
- Face Search
- Body Search
- Face Repositories Search

Vehicle Parsing

- Vehicle Alert
- Search by Criteria
- Search by Image



Video

With the connected camera, you can easily preview and rewind videos on our system, therefore you could intuitively grasp the regional dynamics.

Surveillance

- Preview
- Playback

Video Patrol

Using video patrols allows security personnel to patrol by watching video recorded by the camera. You can arrange for some people to form a patrol team and make a patrol plan for them, and all patrol records will be recorded.

Surveillance

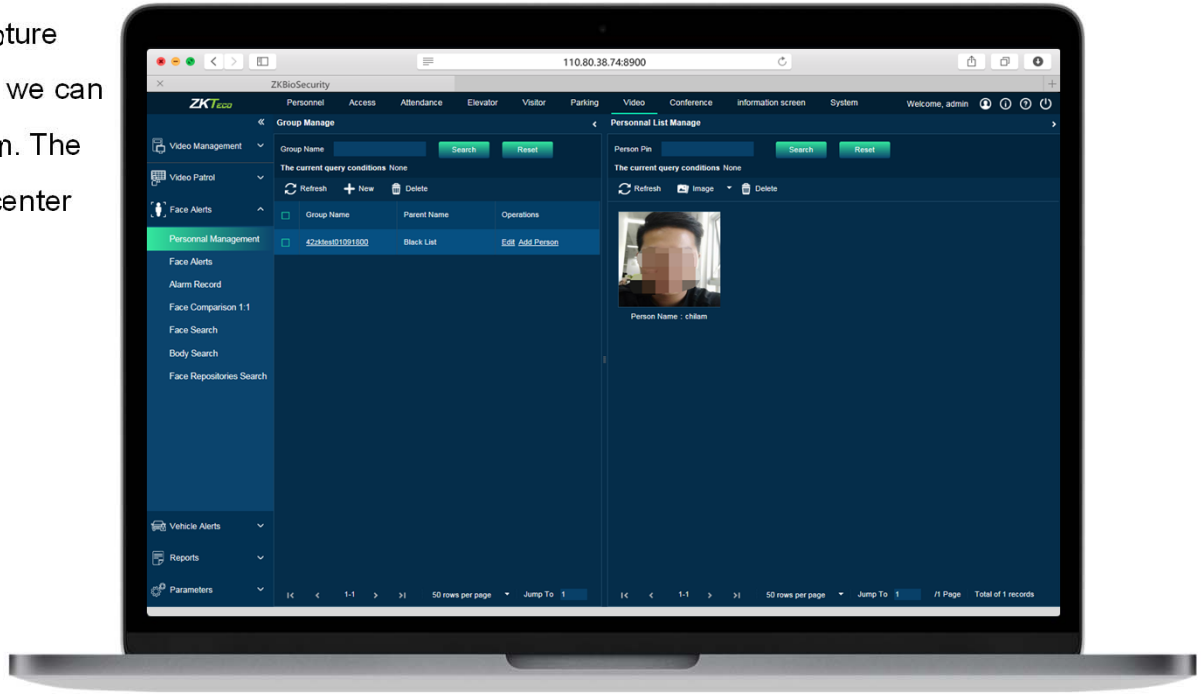
- Video Preview
- Video Playback
- Video Patrol

Personnel Alerts

With the powerful video system, we can accurately capture people. When preset people enter the camera system, we can capture and compare it, and alert you after confirmation. The content here will also be synchronized with the alarm center

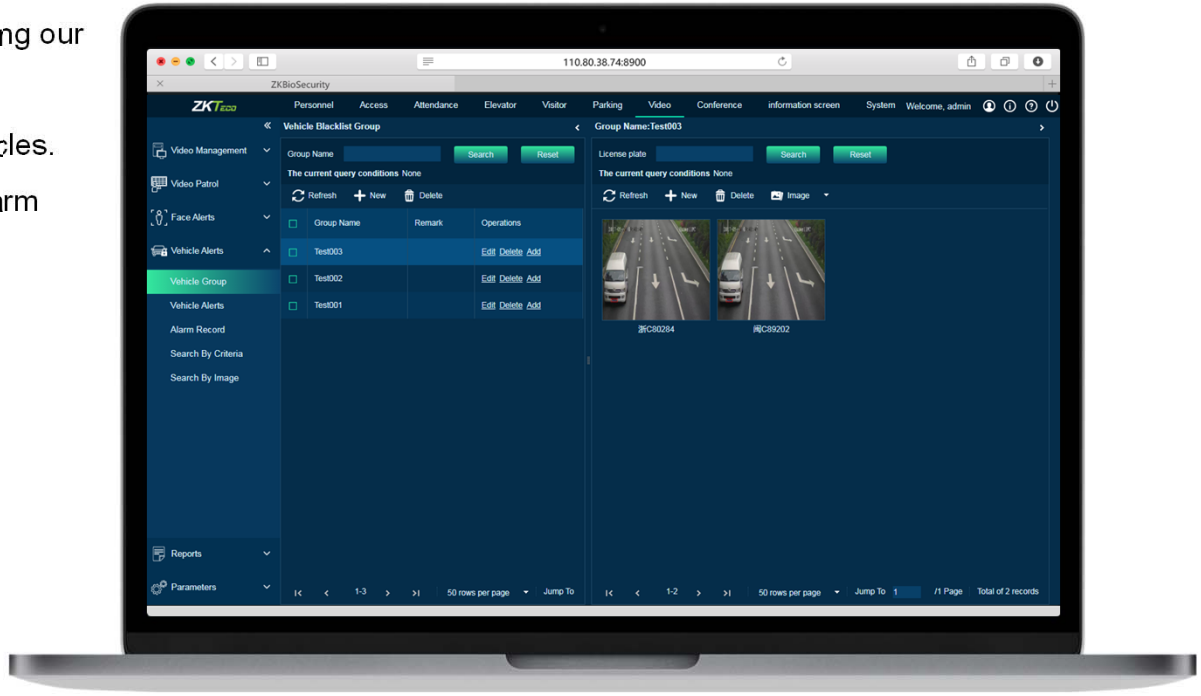
Face Alert

- Face Alert
- Face Comparison
- Face Search
- Body Search
- Face Repositories Search



Vehicle Alerts

As with face alarms, we can also capture vehicles. Using our algorithm for identifying license plates and judging the appearance of vehicles, we can capture and alert vehicles. The content here will also be synchronized with the alarm center



Vehicle Alert

- Vehicle Alert
- Search By Criteria
- Search By Image

Photo Search

Using camera networking, we can upload photos of people and vehicles and retrieve them in the system. After the system retrieves, it displays the captured images similar to the pictures and gives the similarity.

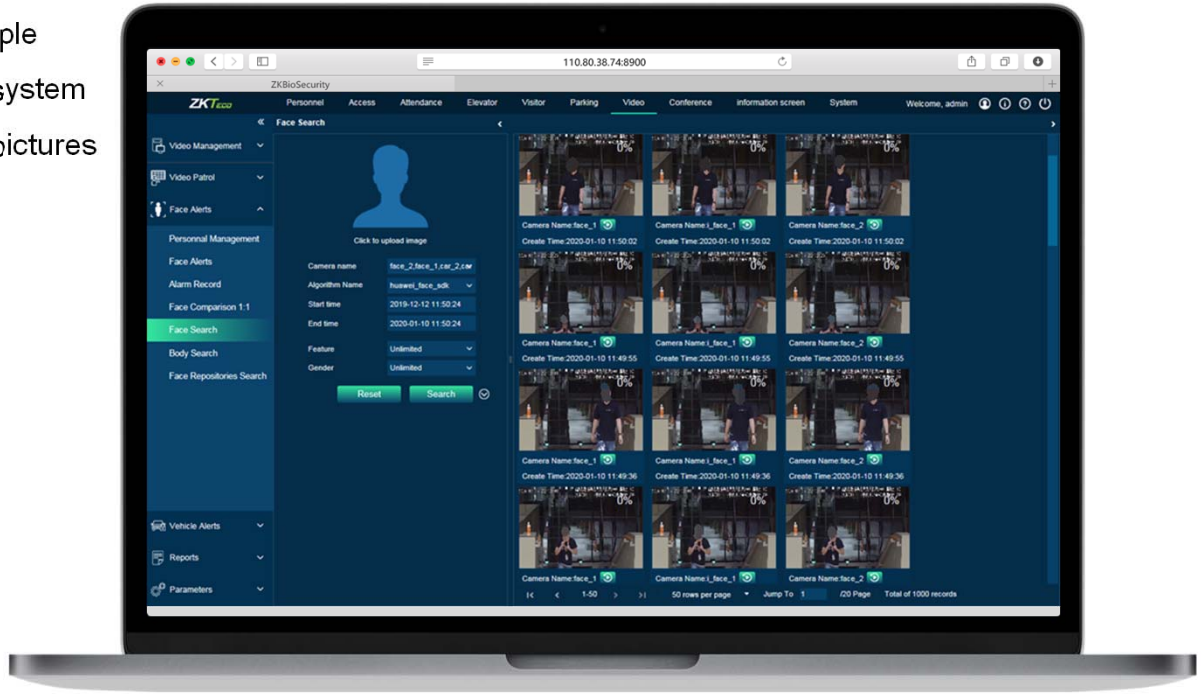


Photo Search

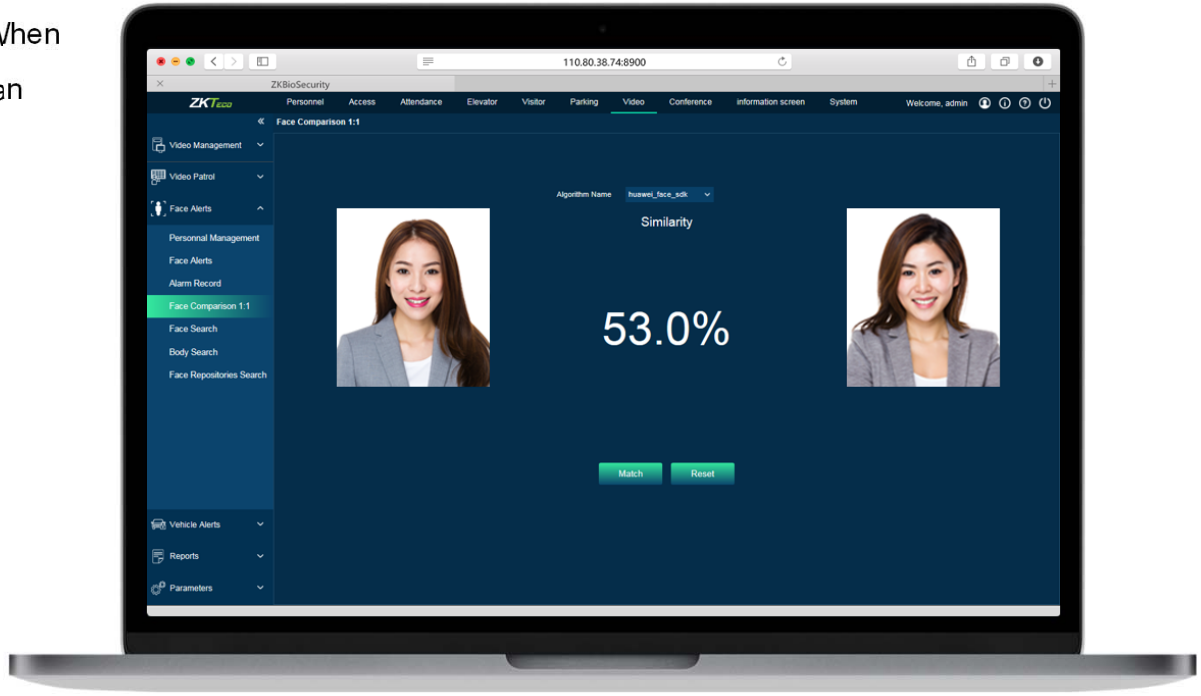
- Face Search
- Body Search
- Face Repositories Search
- Search Vehicles By Criteria
- Search Vehicles By Image

Face Comparison

Our algorithm can also be used for face comparison. When you need to compare the similarity of two faces, you can upload photos here for comparison.

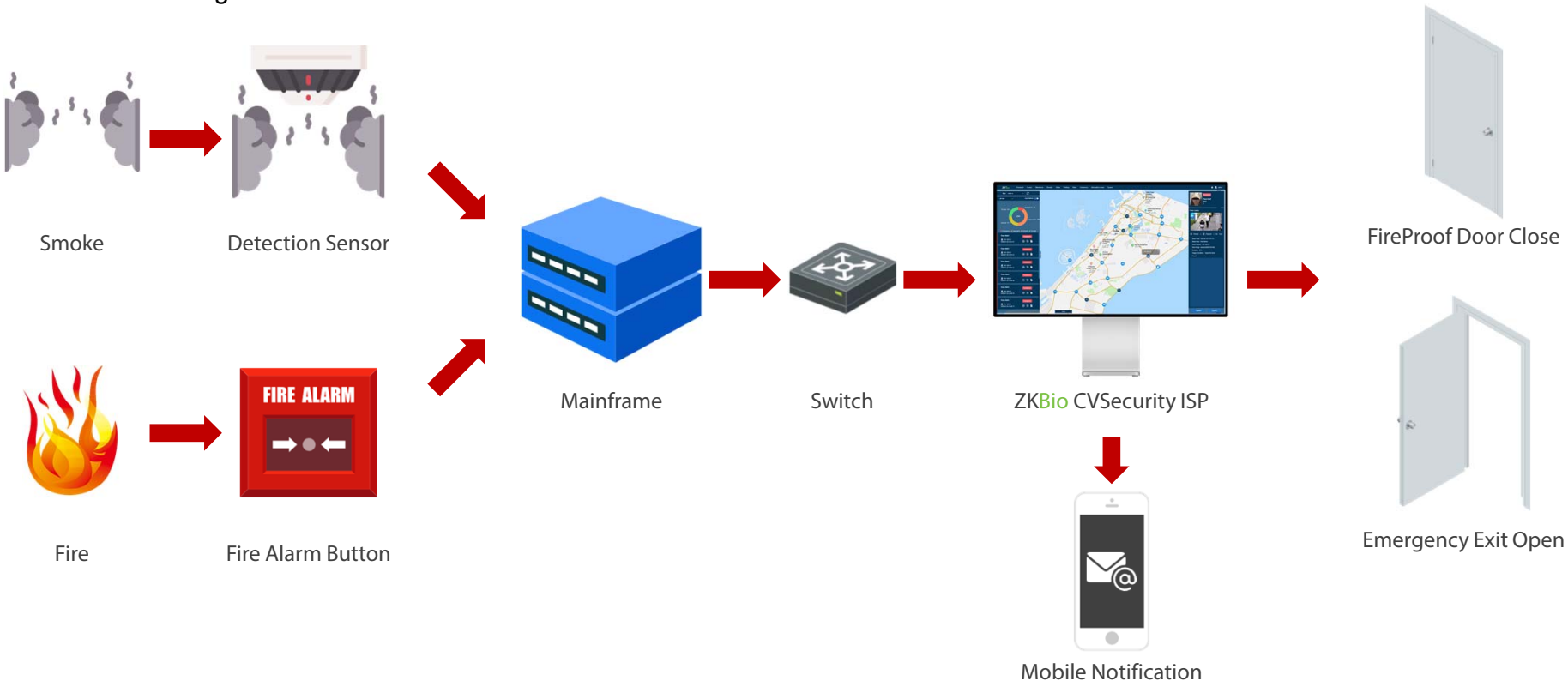
Face Alert

- Personnel Alert
- Face Comparison
- Face Search
- Body Search
- Face Repositories Search



Fire Alarm System Architecture

Through the integration of the Bolid fire alarm system, we support the viewing and detection of devices such as smoke sensors, fire alarm button, etc., to form an alarm message when a fire is generated, and linkage to normally open and close doors, as well as notification of fire alarm messages.



Temperature Detection

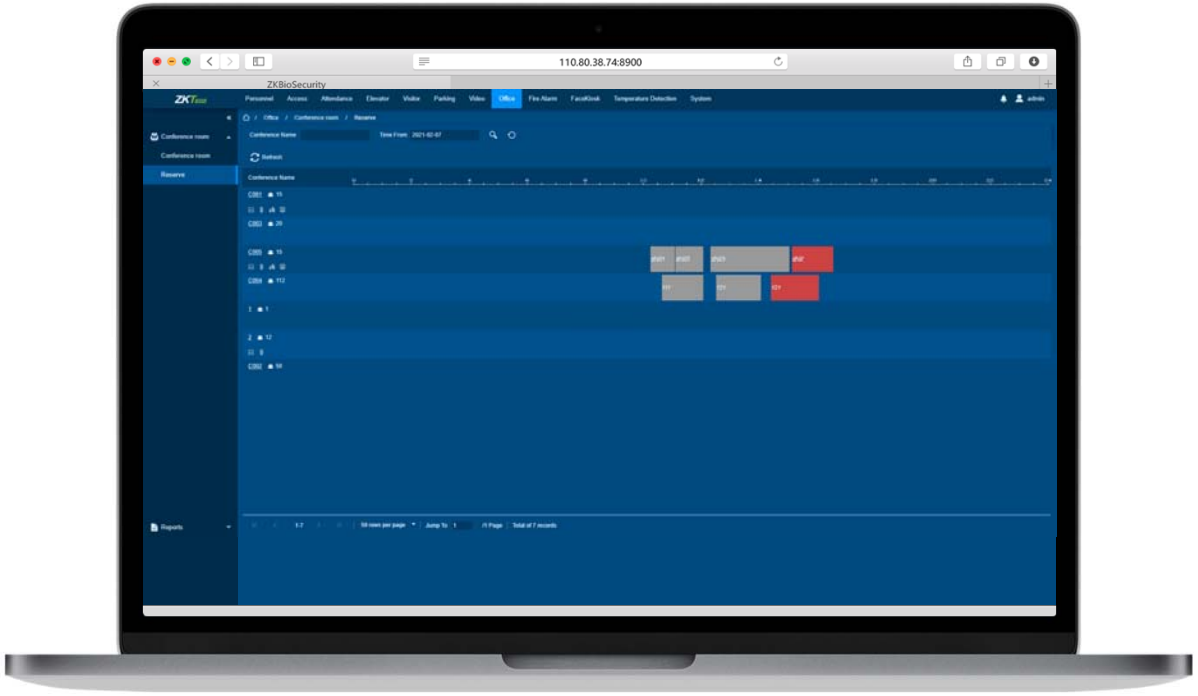
Our new module, the Temperature Detection Module, measures human body temperature and face mask detection while managing access control passage by using visible light access control devices such as speedface V5L[TI], Elite Pass[TI], etc.

Temperature Detection

- Real-time monitoring
- High Temperature Warning & Denial Access
- Face Mask Detection
- Statistics of untested personnel
- Persons in Close Contact & Suspected Cases

Office

Office includes meeting rooms and WorkBooths. The meeting rooms include internal meeting rooms and shared meeting rooms, and WorkBooths are shared WorkBooths, only shared area can be used by visitors.

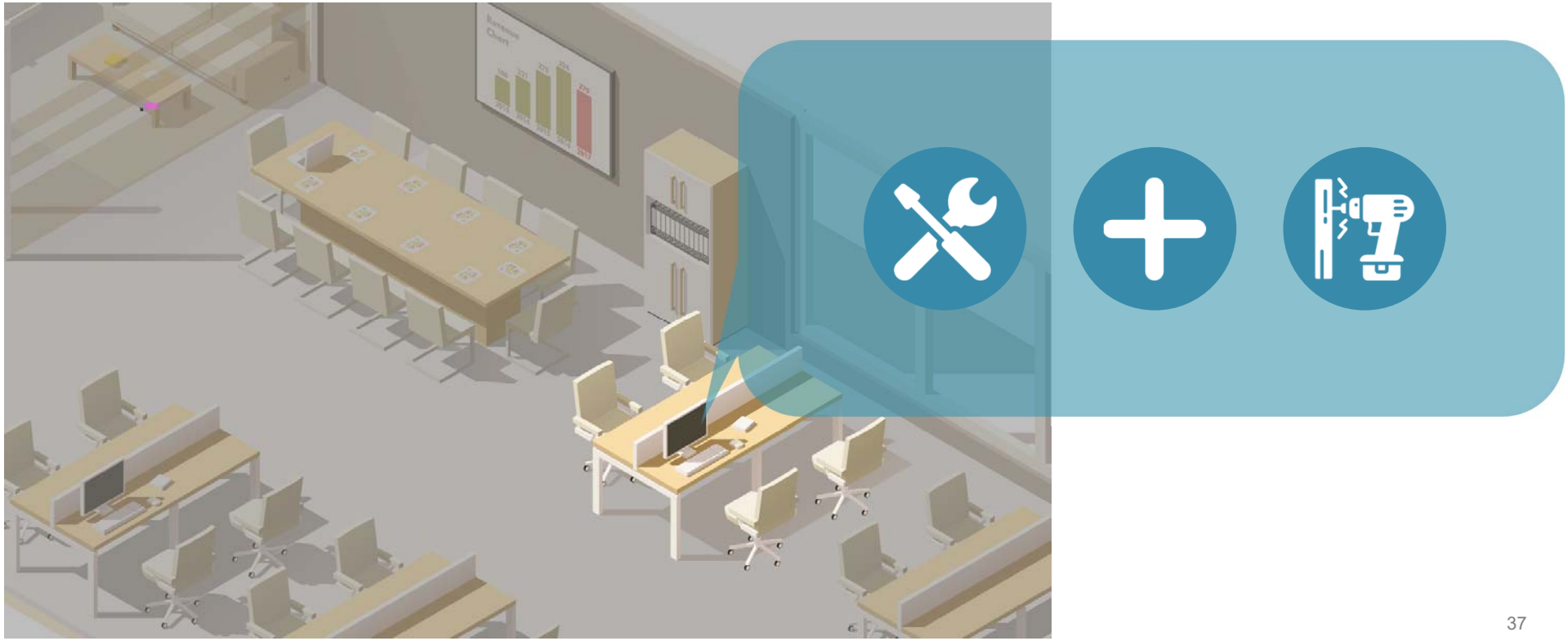


Office

- Facilities Management
- Facilities Appointment
- Reports

Office-Facilities Management

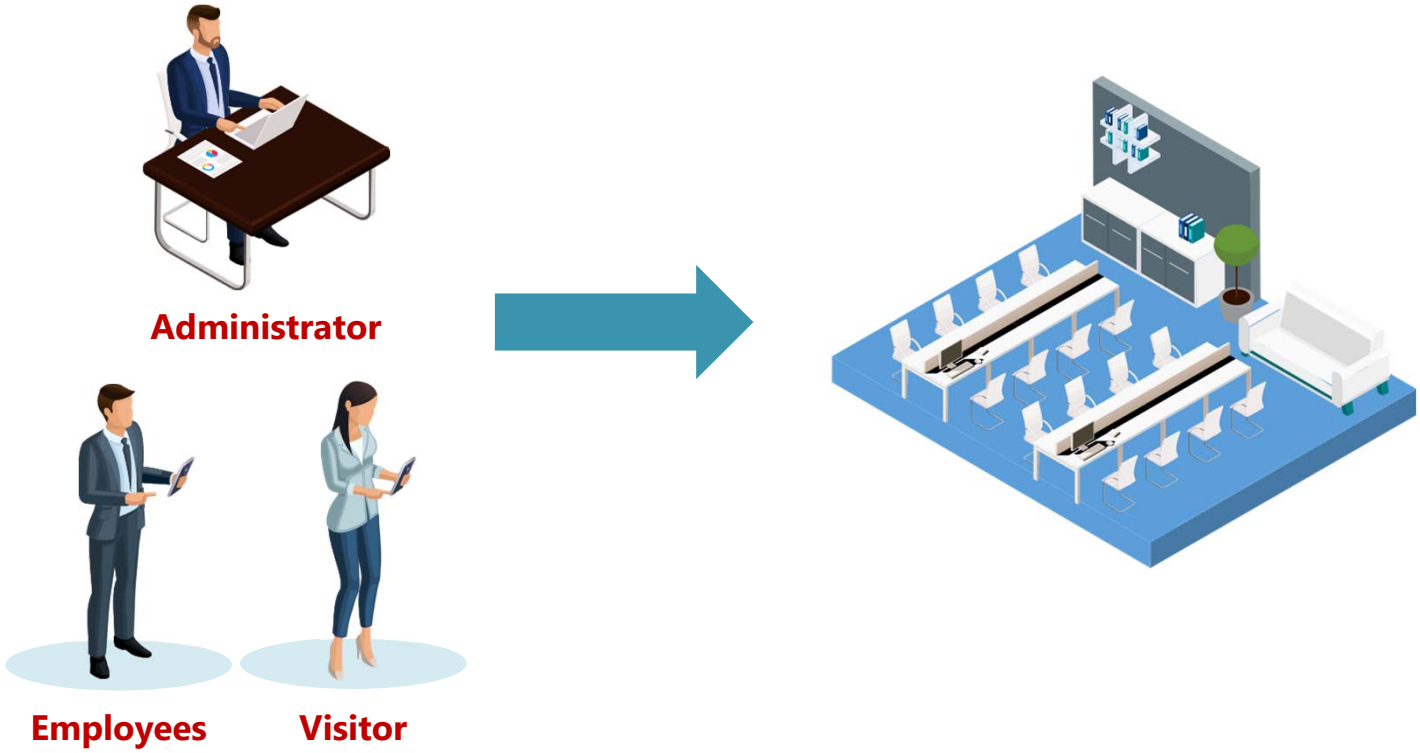
Support for adding, editing, and repairing facilities.



Office-Facilities Appointment

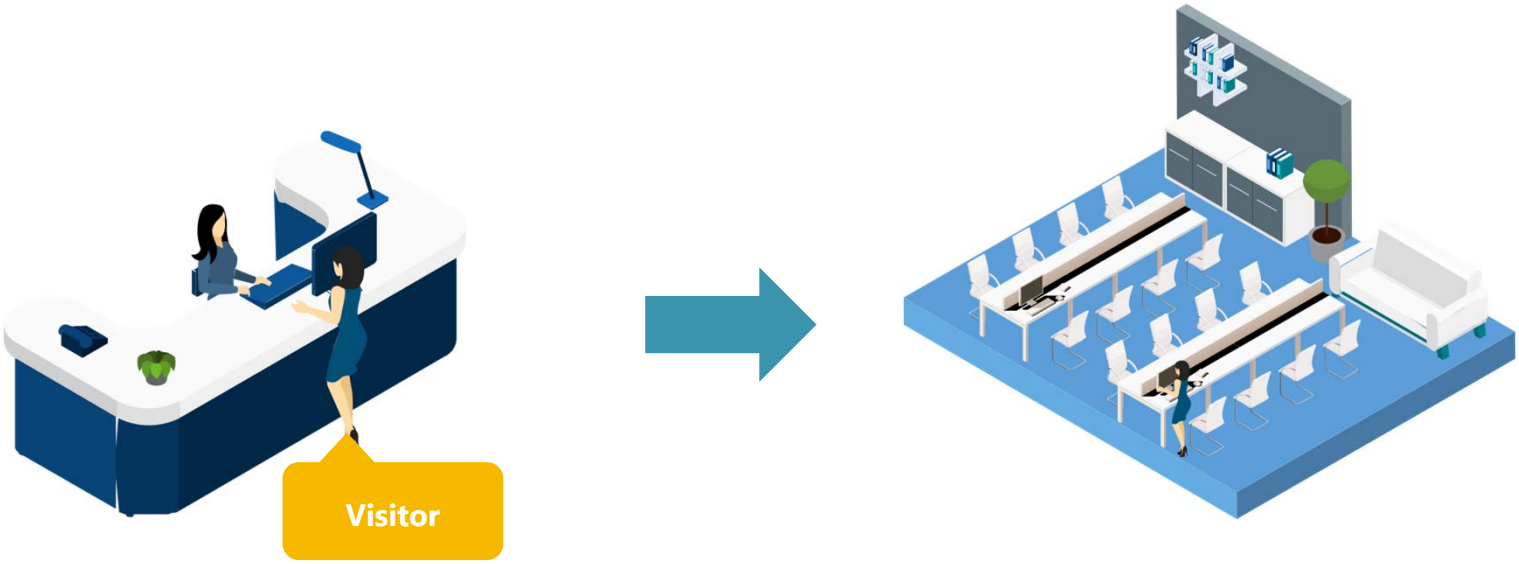
You can view the current status(*Normal* or *Repaired*) of the conference room, available time, the equipment it owns, etc. And make an appointment for a conference room.

Administrators reserve conference rooms through software, while employees and visitors reserve conference rooms through mobile terminals.



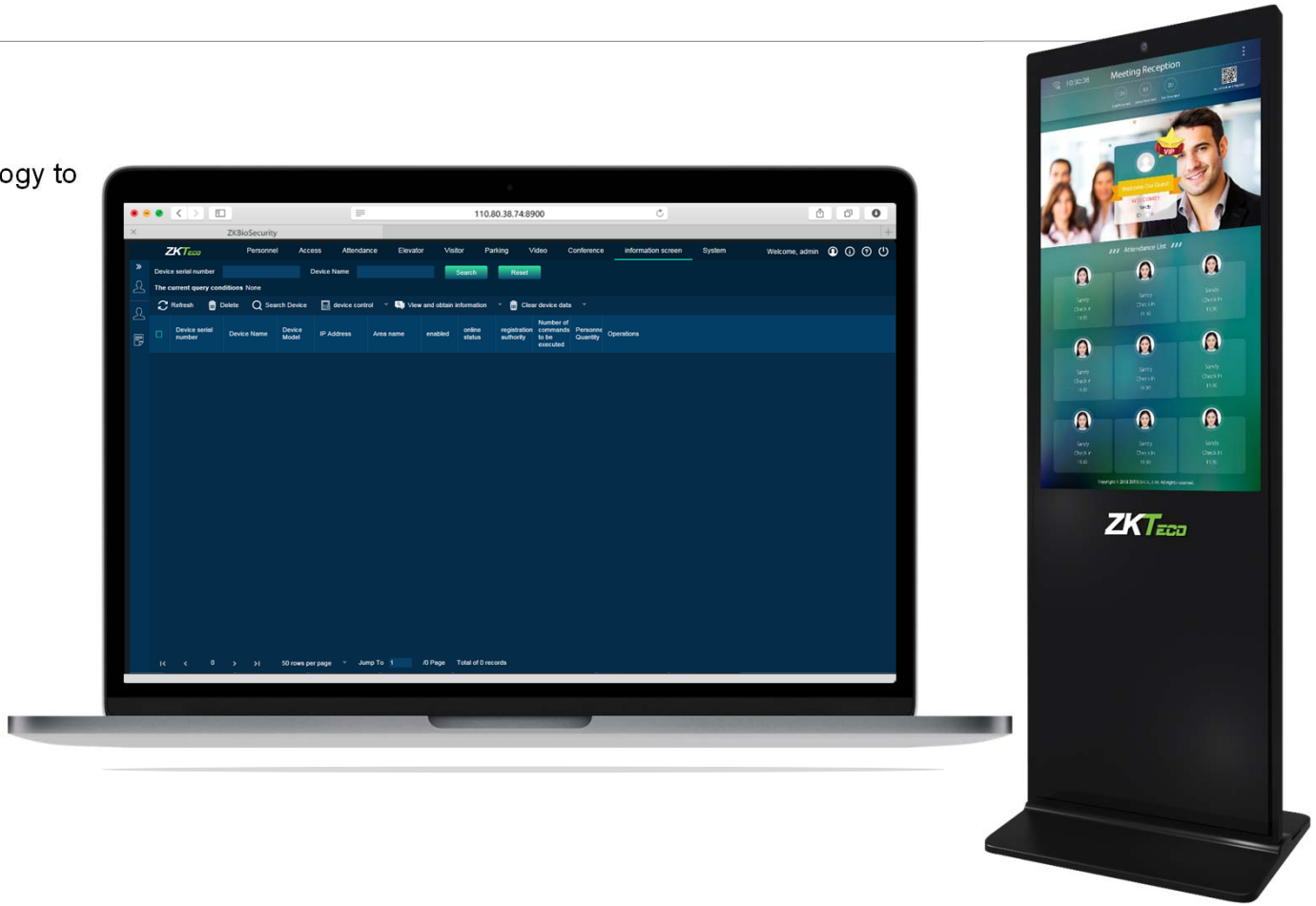
Office-Facilities Appointment

A WorkBooth is an area designated for visitors. When the visitor arrives, the front desk (i.e. the administrator) can assign the WorkBooth to he/she.



FaceKiosk

Use visible light facial verification technology to Attendance, Visitor Registration, shown Conference Room Informations.



FaceKiosk

- Time Attendance
- Visitor Registration
- Conference Room Information

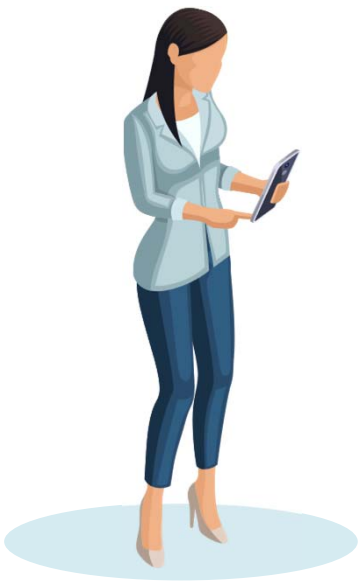
ZKBio CVSecurity ISP Mobile Client

ZKBio CVSecurity ISP Mobile Client

The mobile client can be adapted to different roles, administrator,employee and visitor, the application is flexible.

Administrator

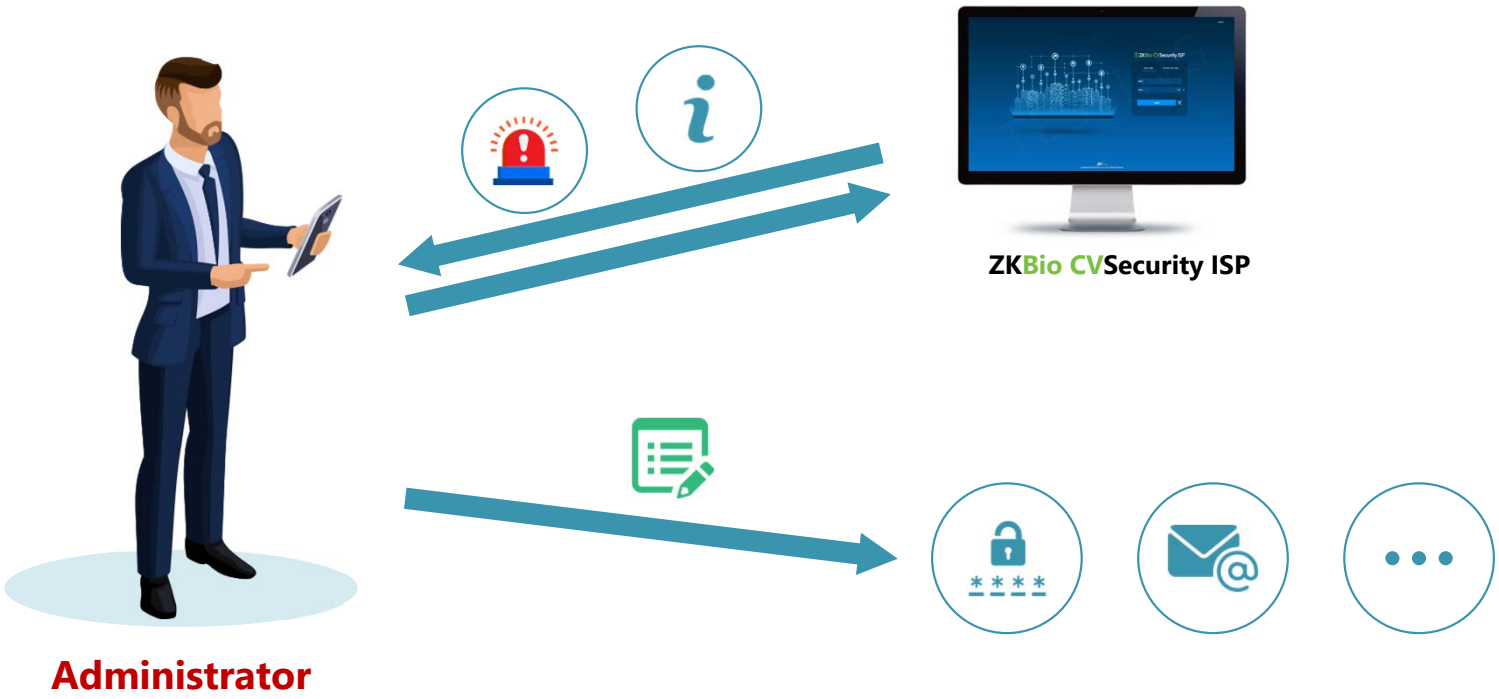
Employees



Visitor

ZKBio CVSecurity ISP Mobile Client

Administrators can modify personal information, such as password and email address. At the same time, they can also receive system messages and alarm messages and process them, or report the alarm information to the software through the mobile terminal.



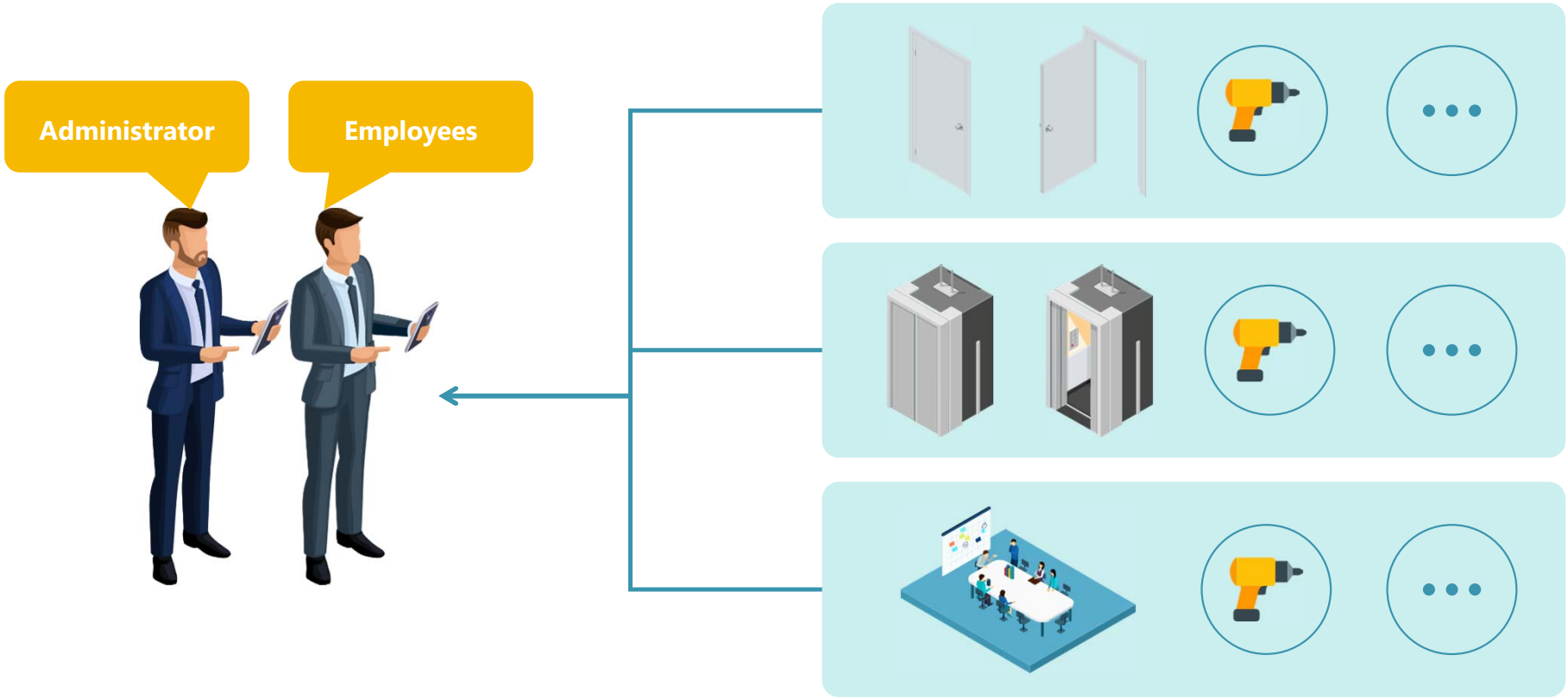
ZKBio CVSecurity ISP Mobile Client

Administrators can also manage visitors through the mobile terminal, directly make visit appointments for visitors, or provide them with a QR code to realize self-service reservations.

Administrator **Visitor** **Successful Appointment**

ZKBio CVSecurity ISP Mobile Client

What's more, they can also implement device-related management on the mobile terminal, such as remote door opening and closing, conference room repairs and reservations, etc.



ZKBio CVSecurity ISP Mobile Client

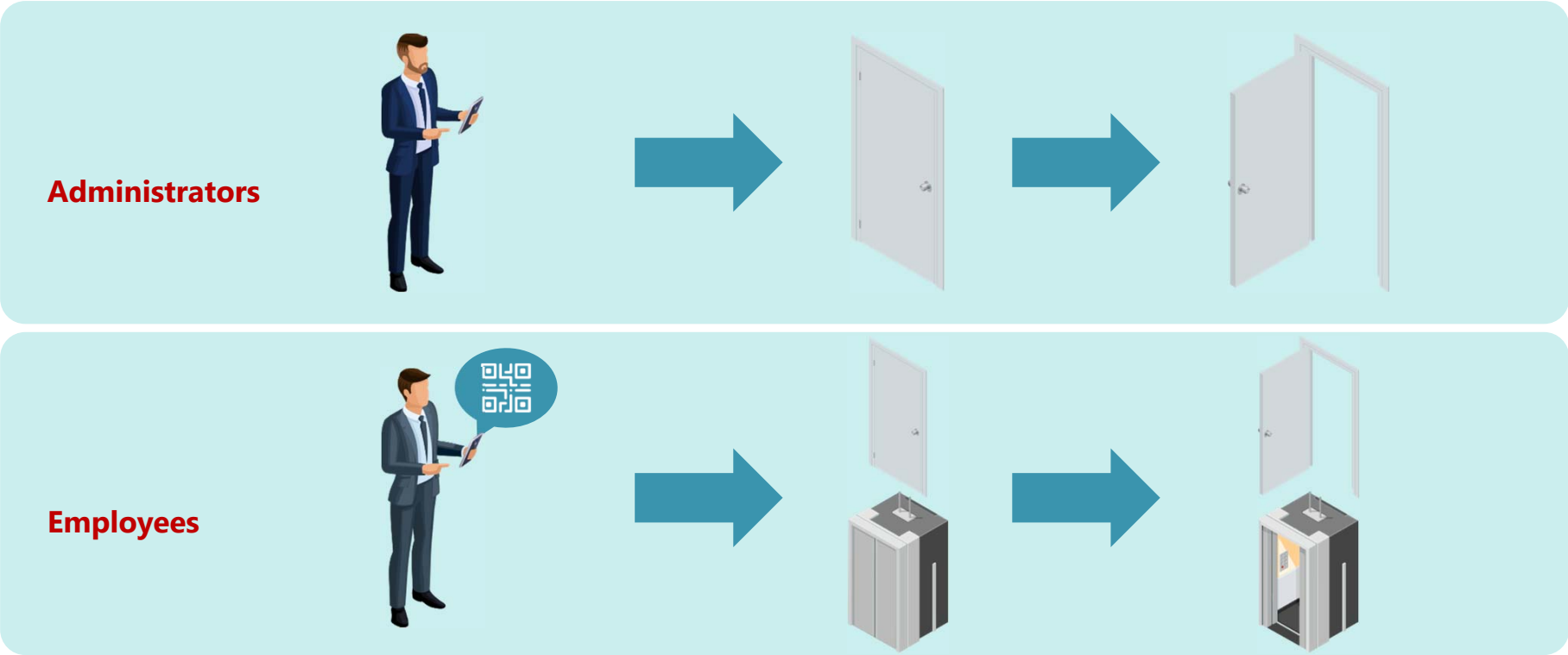
The operations that employees can achieve are slightly different from those of administrators. Employees can also receive and process system and alarm information through the message center, or provide visitor with a QR code to realize self-service reservations. Besides, conference room management is also included.

ZKBio CVSecurity ISP Mobile Client

Meanwhile, they can modify not only their own personnel information, but also the personnel information of their subordinates. And can apply for some attendance-related processes, such as adjust, leave, business trips, etc. Similarly, the superior can directly approve the process of subordinates on the mobile terminal.

ZKBio CVSecurity ISP Mobile Client

The biggest difference between employees and administrators is the access control. Employees cannot remotely operate the door like an administrator, but they can use the QR code to open the door without contact verification, and they can also make elevator calls through the mobile terminal.



ZKBio CVSecurity ISP Mobile Client

Visitors can use the QR code provided by the administrators or employees to make self-service visitor appointments on the mobile terminal.

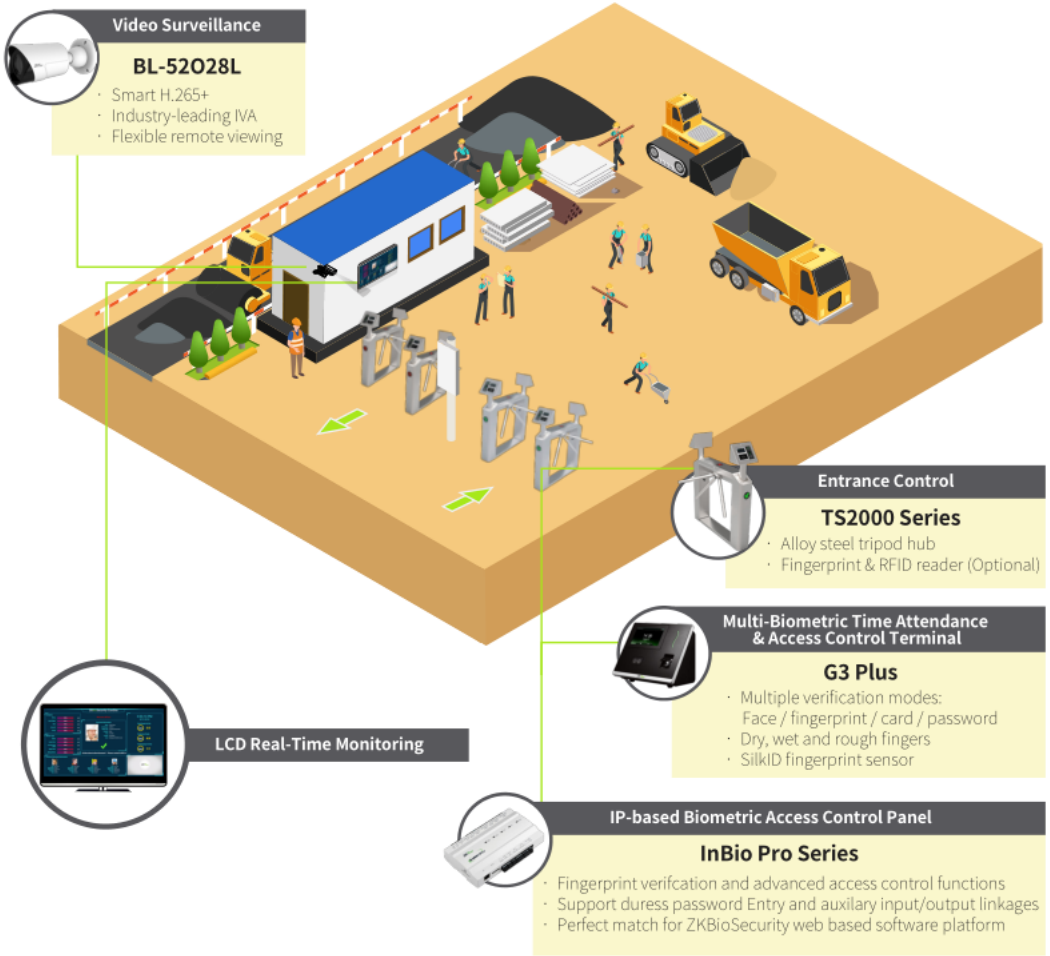
Solution and Case Study

ZKBio CVSecurity Construction Site

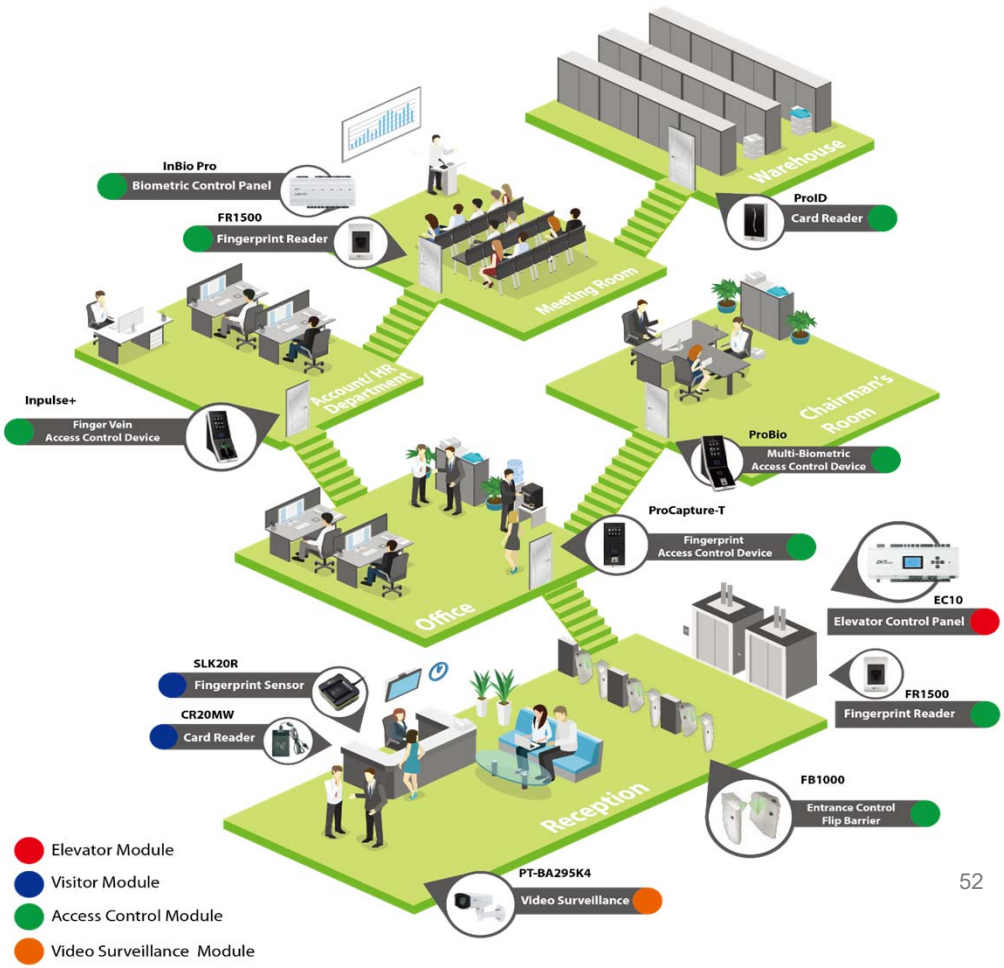
ZKBio CVSecurity Construction Site Management Solution takes the latest B/S architecture as framework and bases on the development of mainstream ZKBio CVSecurity, which is a comprehensive system of digitalization, network, security and cross industry applications.

It is integrated with ZKBio CVSecurity biometrics identification and access system, this solution has the newly added worker management module and advanced access management module.

It can effectively manage the registered workers from different company, monitoring all workers' attendance and access control details in real time, which truly realizes the intelligent management of construction site security and workers.



ZKBio CVSecurity Smart Park Solution

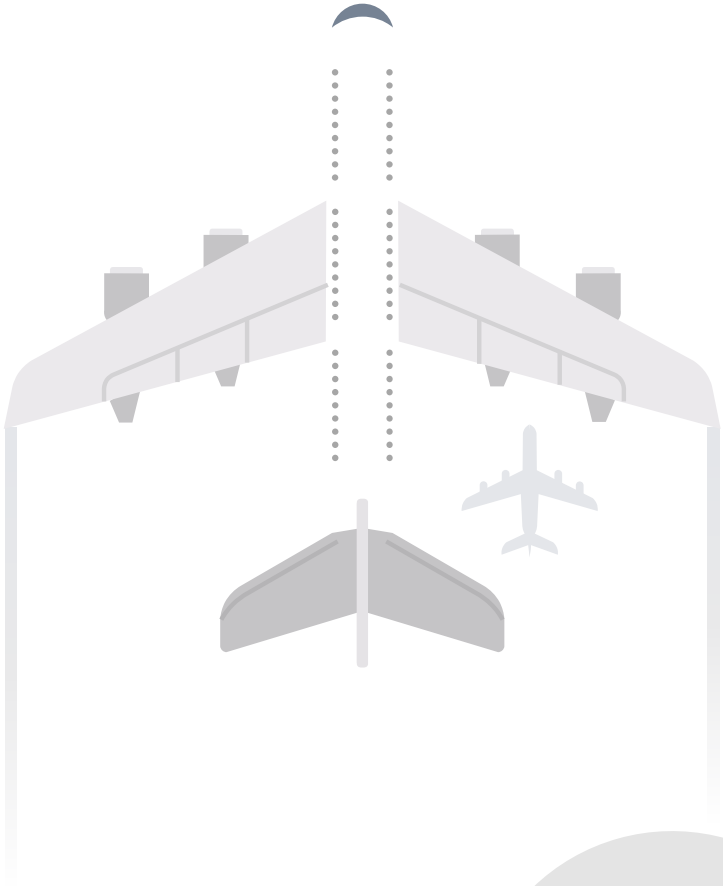


More Features and Specifications

1. Powerful data processing ability, able to manage over **30,000** employee data **20000** fingerprint.
2. Authority management based on multi-level management roles ensures the confidentiality of user data.
3. Real-time collect system data and feedback to managers.

Support more OS and Data Base

- OS: Windows 7 Ultimate 64bits Windows server 2008 R2 64bits
- Windows Server 8.1 64bits
- Windows 10 Professional 64bits Windows 10 Education 32bits
- Windows 10 Enterprise 64bits Windows 10 Home 64bits
- Windows server 2012 standard 64bits
- Windows server 2016 standard 64bits
- Data Base: PostgreSQL , Oracle 11g/12c , SQL Server 2005/2008/2012



Thanks

www. zkteco.com