

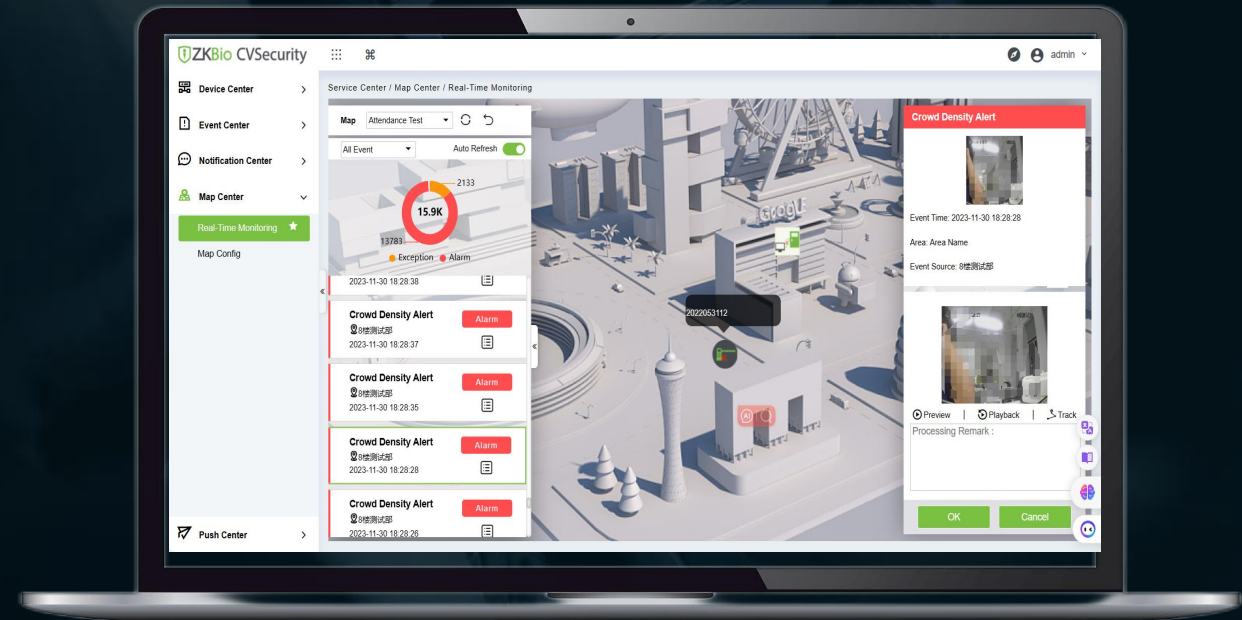
# ZKBio CVSecurity

All-in-One Biometric Security Advanced Solutions

Hybrid Biometric + Computer Vision

Security | Visualization | Integration

Web-based Software



# CONTENTS

BRIEF PRODUCT OVERVIEW

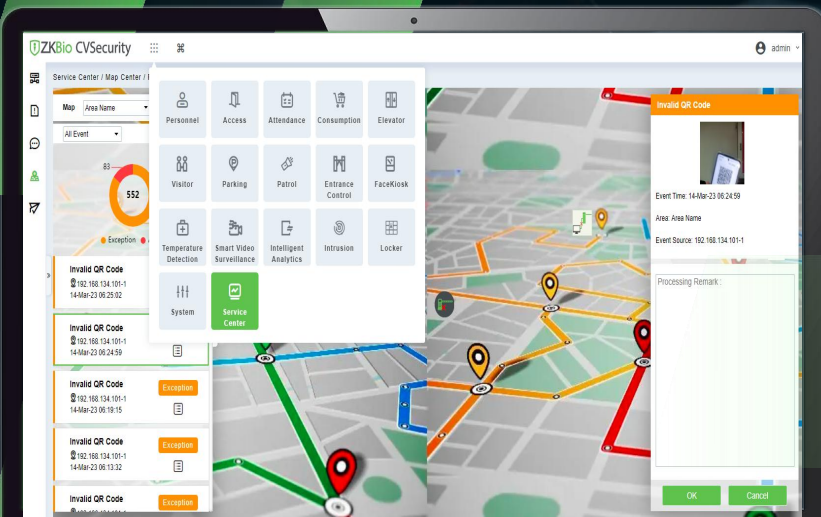
01

PRODUCT SUPERIORITY

02

PRODUCT FUNCTION INTRODUCTION

03



# PART ONE



## BRIEF PRODUCT OVERVIEW



# BRIEF PRODUCT OVERVIEW



**ZKBio CVSecurity** is based on hybrid biometric technology and computer vision technology, which provides a “Person + Vehicle + Object” integrated security software management platform.

Provide

17+

Business Modules

Support

5000+

Devices Access

Reduced

80%

Customized workload



Access Control



Elevator Control



Visitor



Time&Attendance



Locker



Temperature



Patrol



Parking



Entrance Control



Video



Intelligent Analytics



Intrusion Alarm



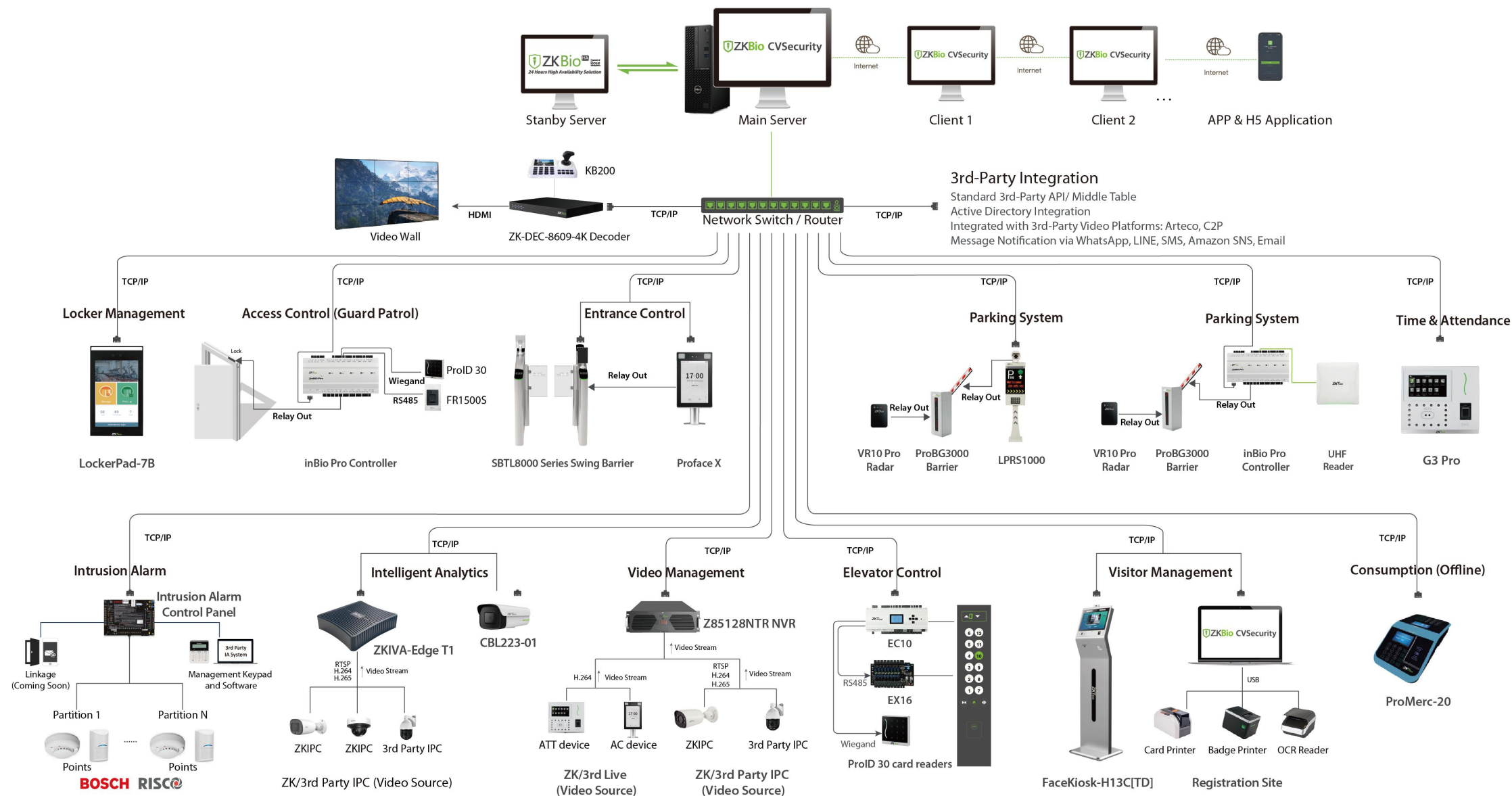
Consumption



Consumption



# BRIEF PRODUCT OVERVIEW



# PART TWO



## PRODUCT SUPERIORITY

↗ ↗ ↗ All-In-One

Visualization ↖ ↖ ↖



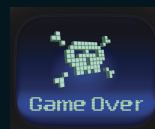
## Web-Based Software

Users can access the centralized system anywhere by their web browser to remotely manage thousands of standalone terminals and controllers under wide area network (WAN).



## Hight Availability Solution

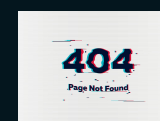
ZKBioHA provides the professional real-time sync of business data and business continuity protection for the customer, which solves software/ hardware single point of failure (i.e. system upgrades, computer crash, software bugs, hacking, broken connections and cyber attacks) and realizes automatic failover in case of failure to ensure business system continuity.



Computer Crash



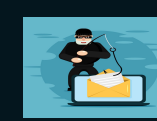
Broken Connections



Software Bugs



Power Failure



Cyber Attacks



# PRODUCT SUPERIORITY

ZKTeco

## All-in-One

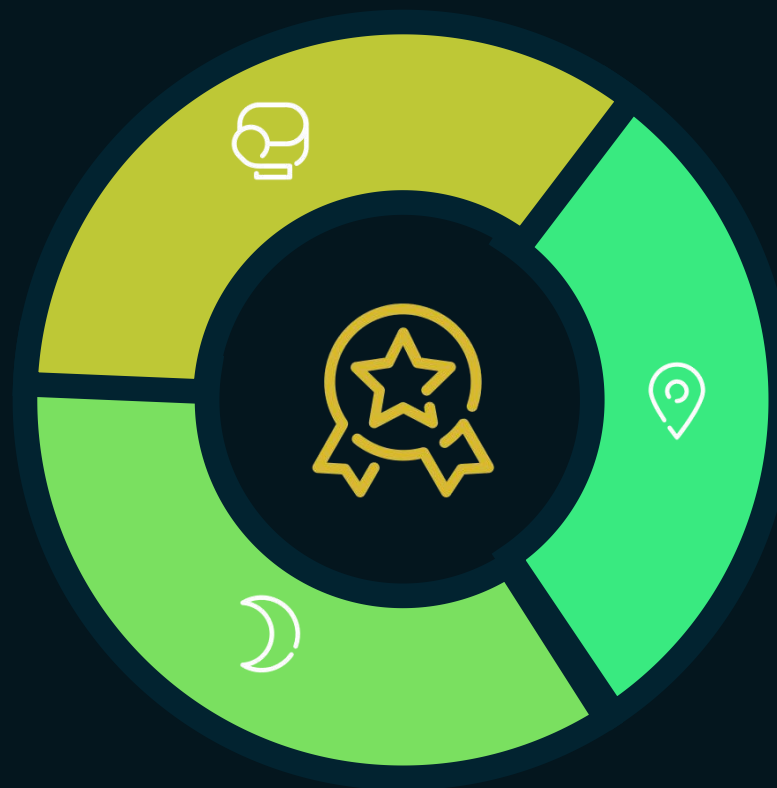
2

Provides 16 modules that users can freely combine to make it more suitable for their own scenarios

## Alarm Linkage

3

Support a variety of alarm joint pre-programming, linkage capture / video, map positioning, e-mail / SMS alert, sound and light alarm, etc.



1

## 3rd party Integration

Provide standard restful API for third-party system integration



CMMI5



Computer Software Copyright

- CMMI5: Software Development Matureness
- Computer Software Copyright

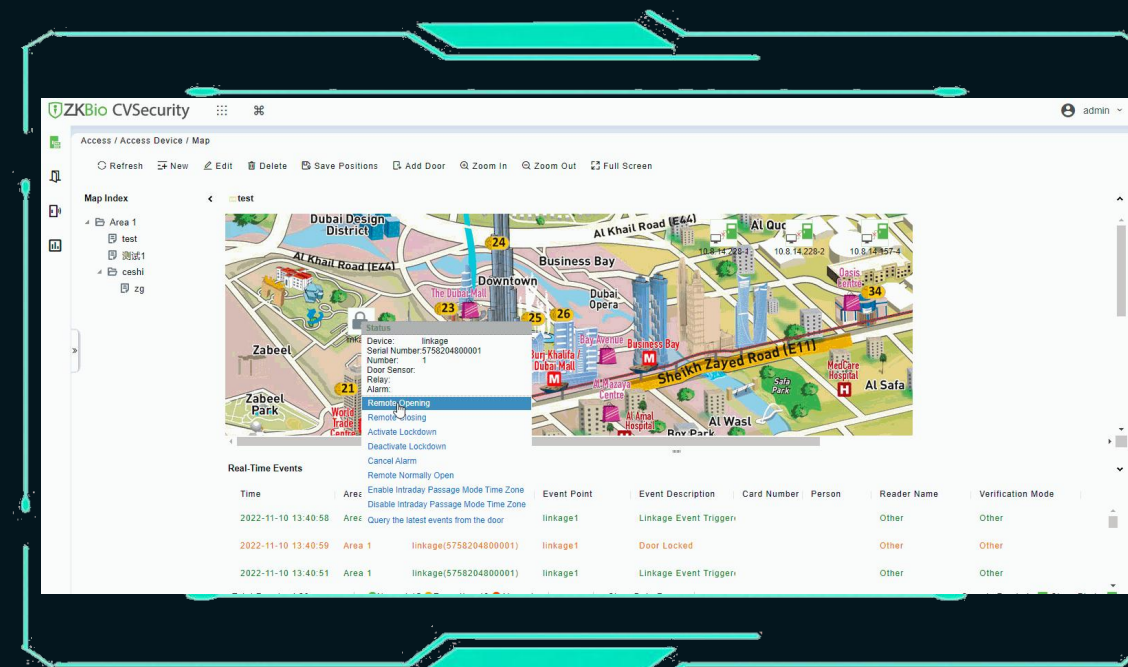


## Visual Alarm Center

- 1 Display the status of different doors, passages, LPR, attendance devices, elevator control, and Facekiosk on the map in a visualized manner.
- 2 When an alarm is triggered, it can quickly locate the point of occurrence and view the situation on site.
- 3 When remotely operating a door, it is possible to preview the on-site image before remotely opening the door, which effectively ensures on-site security.
- 4 One-click handling of alarm events to improve efficiency.



GIS Map (Google/Super Map)



E-Map



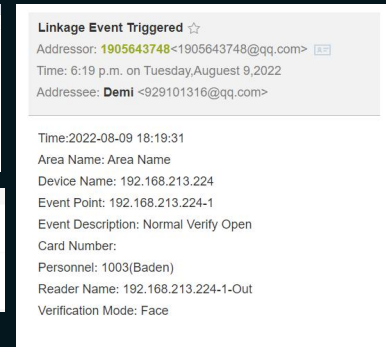
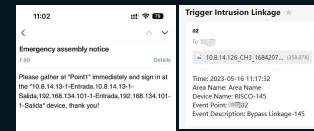
# PRODUCT SUPERIORITY



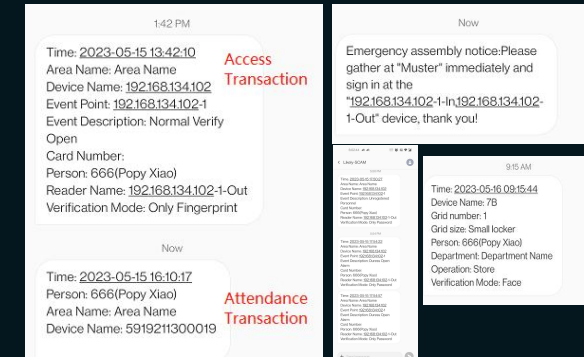
## Notification triggering conditions

- 1 When the linkage event of the access control ,Elevator and entrance control modules is triggered.(SMS,WhatsApp,Email,Line)
- 2 Real-time push of attendance , entry&exit records to designated personnel. (SMS,WhatsApp,Email)
- 3 Notification of employee assembly triggered by emergency response mechanism. ((SMS,WhatsApp,Email)
- 4 Automatic statistics and sending of emergency assembly reports to the administrator. (Email Only)
- 5 Reminder of the expiration of temporary vehicles.(coming soon)
- 6 Locker module: Notify the corresponding personnel when the locker is opened
- 7 Periodic reminder for patrol personnel to start their tasks.(Email Only)
- 8 Reminder for visitor check-in/check-out/expired/overdue check-out. (SMS,WhatsApp,Email)
- 9 Intrusion alarm linkage pushed to security personnel (SMS,WhatsApp,Email,Line)

Time	Personnel ID	First Name	Last Name	Department Name	Mobile Phone	Sign Point	Status
2022-05-15 12:00:00	1001	John	Doe	IT	192.168.1.100	1001	Open
2022-05-15 12:00:00	1002	Jane	Smith	HR	192.168.1.101	1002	Open
2022-05-15 12:00:00	1003	Mike	Johnson	Finance	192.168.1.102	1003	Open
2022-05-15 12:00:00	1004	Sarah	Williams	Marketing	192.168.1.103	1004	Open
2022-05-15 12:00:00	1005	David	Brown	Operations	192.168.1.104	1005	Open
2022-05-15 12:00:00	1006	Emily	White	Legal	192.168.1.105	1006	Open
2022-05-15 12:00:00	1007	Robert	Black	IT	192.168.1.106	1007	Open
2022-05-15 12:00:00	1008	Lisa	Green	HR	192.168.1.107	1008	Open
2022-05-15 12:00:00	1009	James	Gray	Finance	192.168.1.108	1009	Open
2022-05-15 12:00:00	1010	Amanda	Blue	Marketing	192.168.1.109	1010	Open



Email



SMS & Amazon SNS



WhatsApp



LINE



Email



WhatsApp



LINE



Amazon SNS



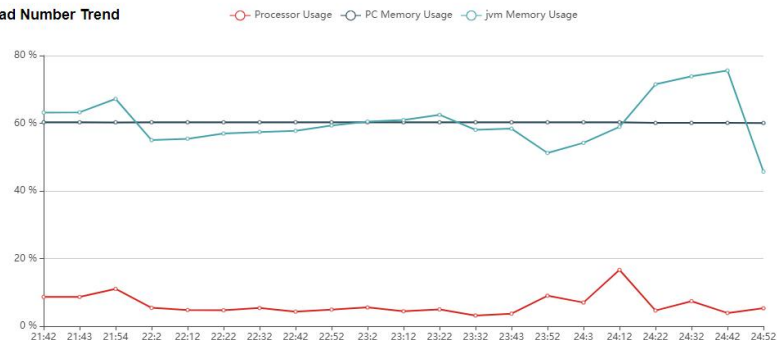
SMS

# PRODUCT SUPERIORITY

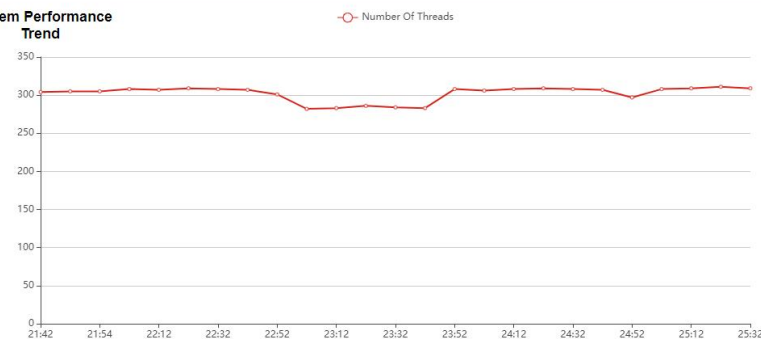
## System Monitoring

The system monitoring function displays server processor usage, host memory usage, processor information, memory information, java virtual machine memory usage and other information, keeping quick operation speed of your server and computer.

Thread Number Trend



System Performance Trend



jvm Memory Usage



PC Memory Usage



Processor Usage



# PART THREE

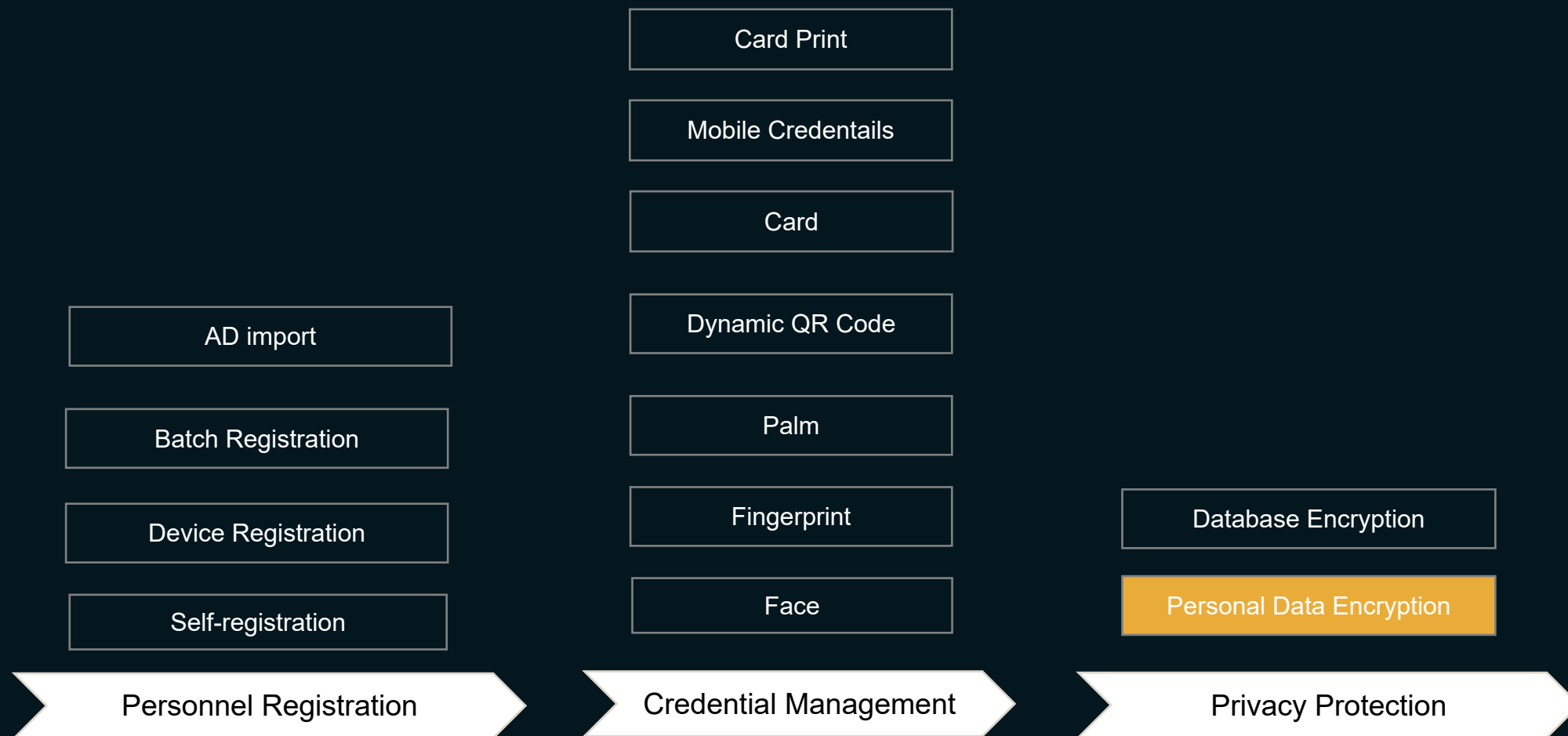


## RODUCT FUNCTION INTRODUCTION

↗ ↗ ↗ All-In-One

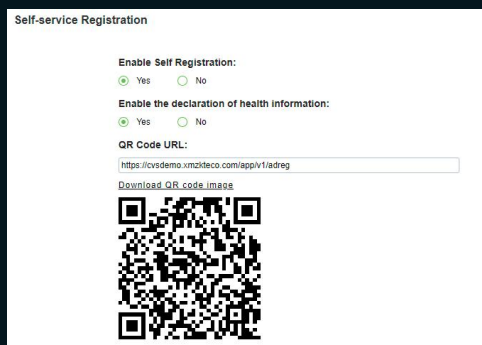
Visualization ↖ ↖ ↖



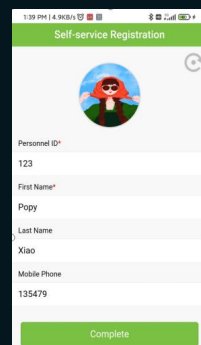


## Personnel Self-service Register

New joiners can register their personal information through cell phones and be assigned the corresponding access control privileges for passage after management review



New joiners automatically register their personal information through the mobile H5 page



Register personal information and photos



Administrators review and assign corresponding access level

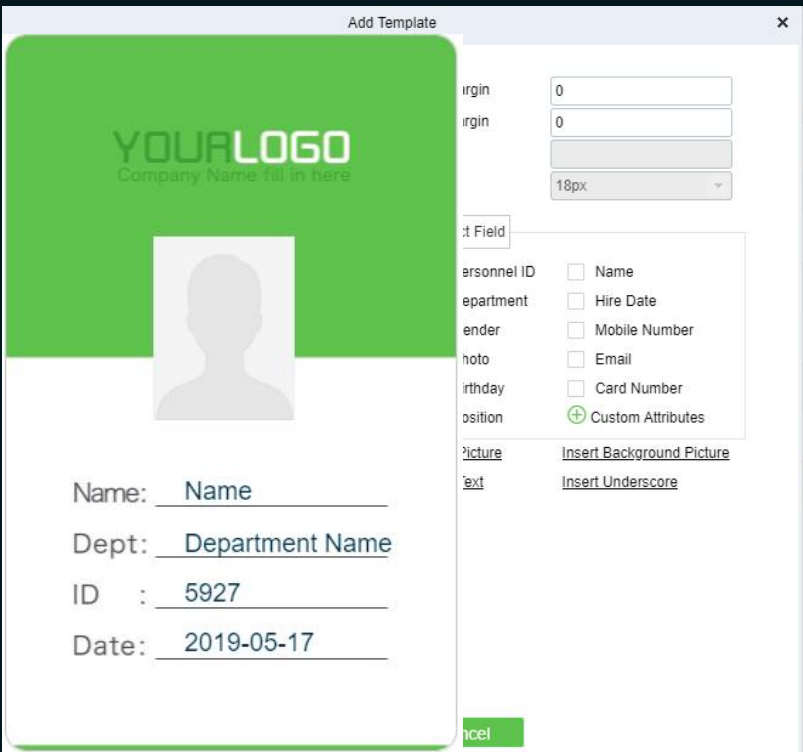


Personnel can pass by facial recognition



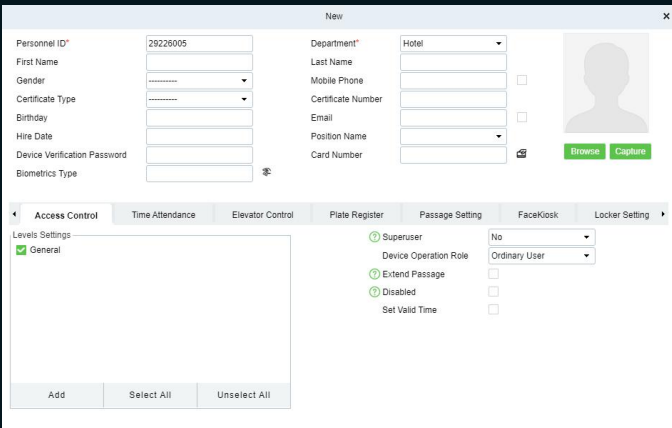
# Card Printer

You can customize the design of the card to suit your company's style



# OCR Scanner

Support one-click capture of users' portrait image, passport photo and saving, and uses OCR function to automatically read identity document (identity card, passport etc.) and fill in effective information in order to realize quick registration.



# OCR Scanning





**Access Control**

# Access Control

ZKTeco



# Access Control

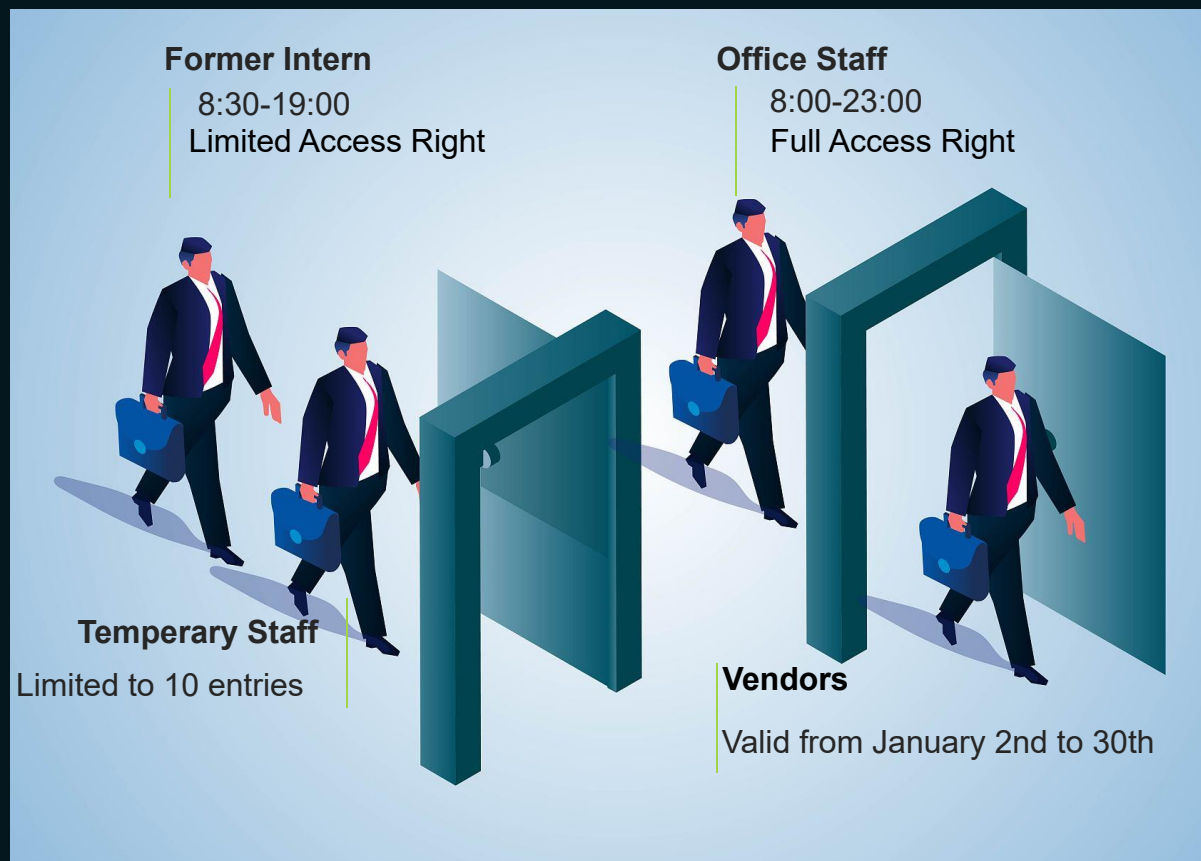
ZKTeco

**255**  
TimeZone

**Unlimited Access**  
Level

**5000**  
Doors

- Strict rights management, different roles have different access control rights
- Different users can only access during the specified time
- You can limit the number of accesses for different users or the validity of permissions
- Combination of multiple authentication methods: fingerprint, face, palm, card with each other

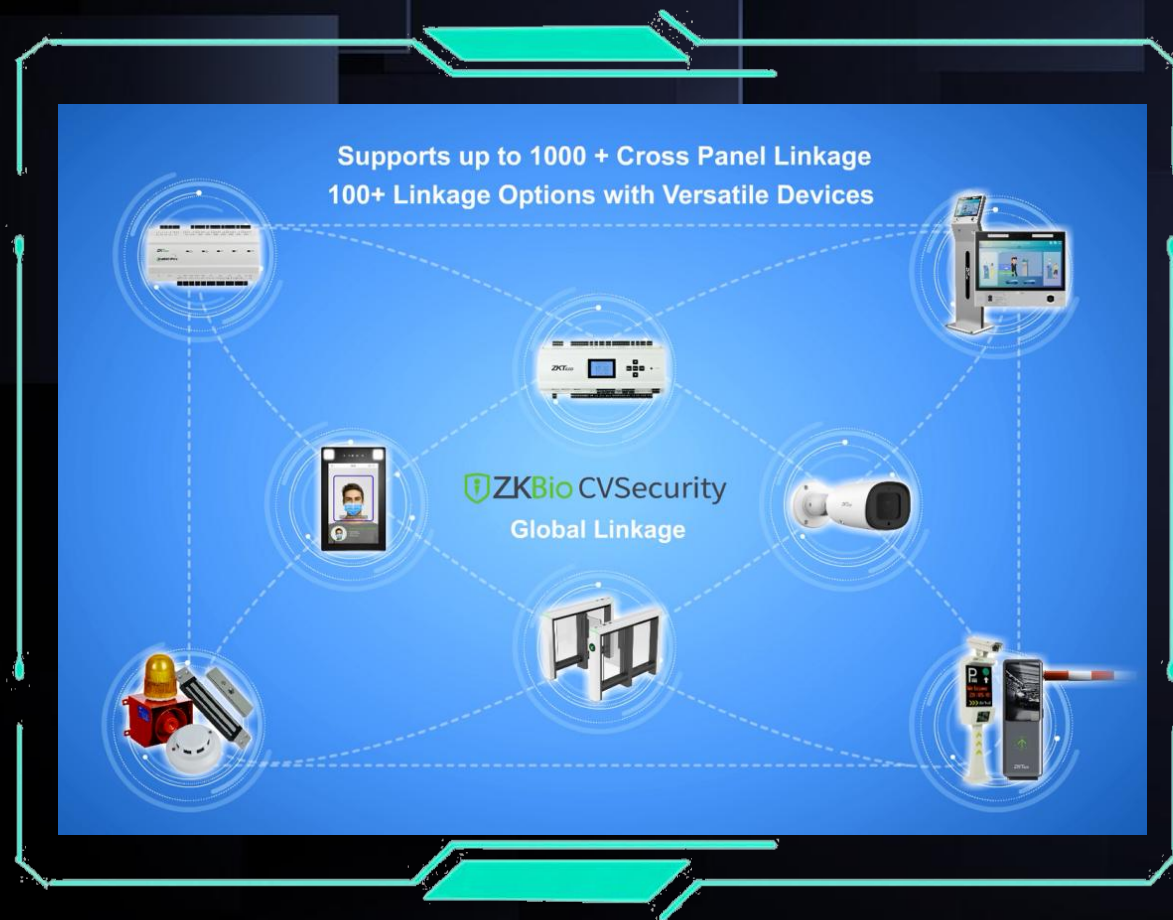


# Access Control

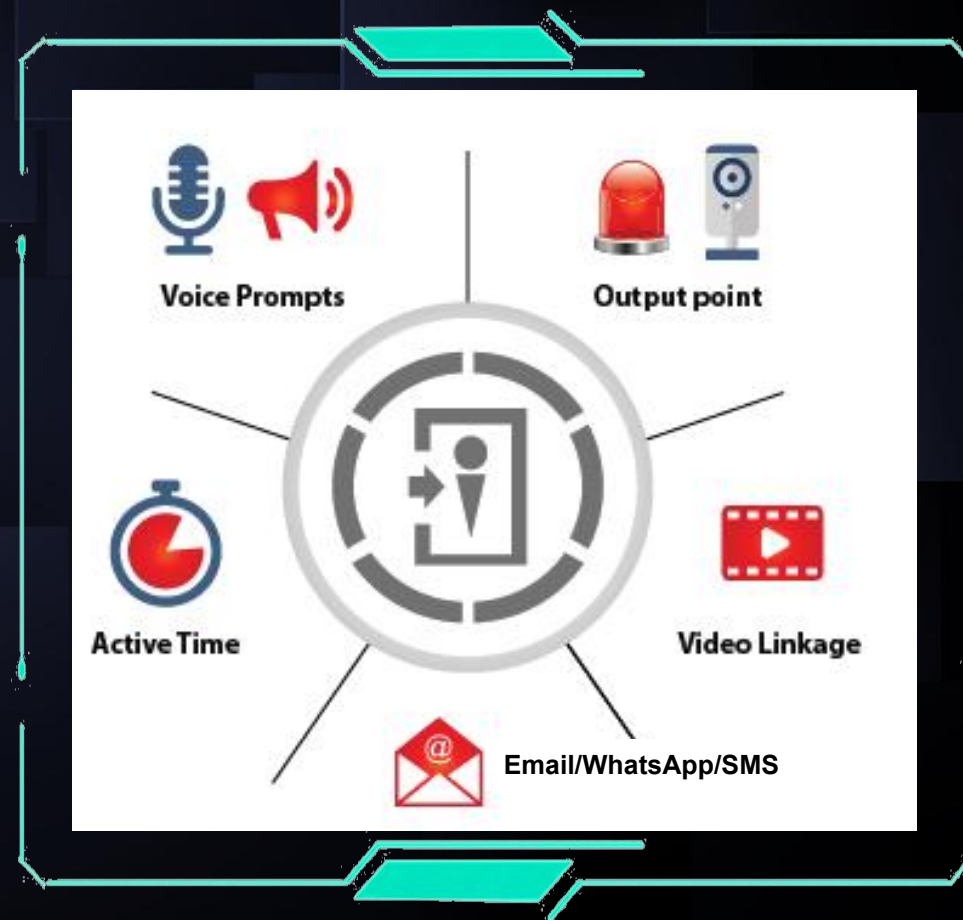
ZKTeco

## Global Linkage

1000+  
Cross Panel Linkage



Multiple output actions



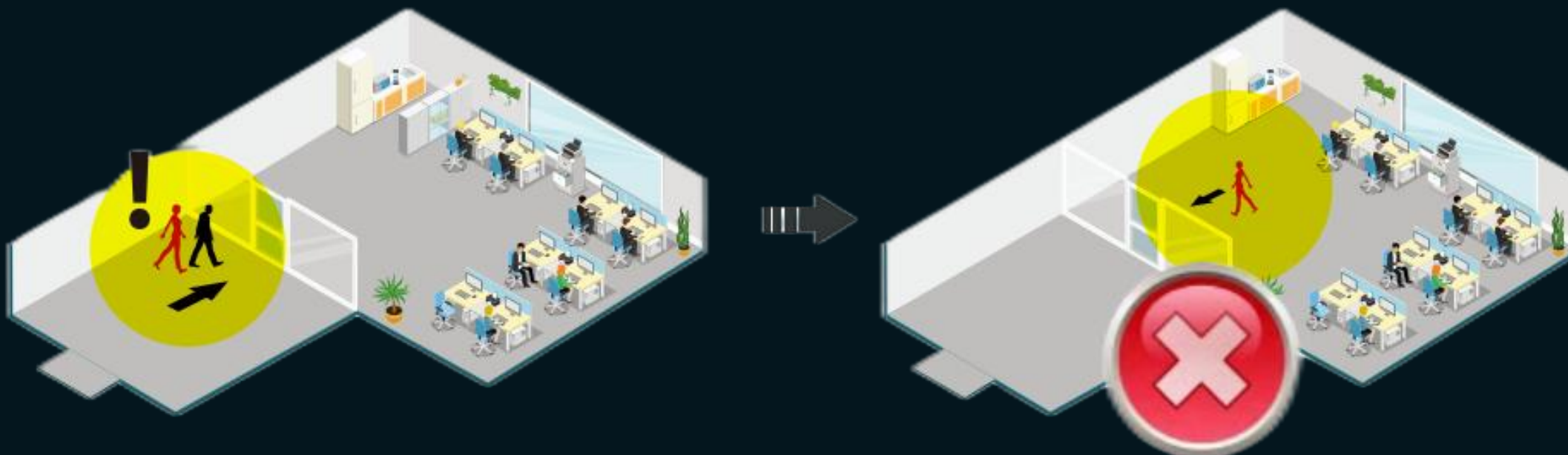


## Global Anti-Passback

Anti-Passback is designed to prevent authorized and/or unauthorized personnel from entering and exiting an area without presenting proper credentials (i.e. tailgating). This security function eliminates users from sharing an access card or password and having several users accessing with the same credentials.

Anti-passback Type: **Logical Anti-passback**, **Timed Anti-passback** or **Timed Logic Anti-passback**.

- **Logical Anti-passback:** The door will not open if the entry and exit records is not in consistent with Anti-passback zone.
- **Timed Anti-passback:** In specified time period, user can enter Anti-passback zone only once. After the Time period has expired, user state will be cleared, and allow user to enter this zone again.
- **Timed Logic Anti-passback:** In Specified time period, Users who enter Anti-passback zone must obey the rule of Logical Anti-passback. If users exceed timed period, system will time again.



## Global Interlock

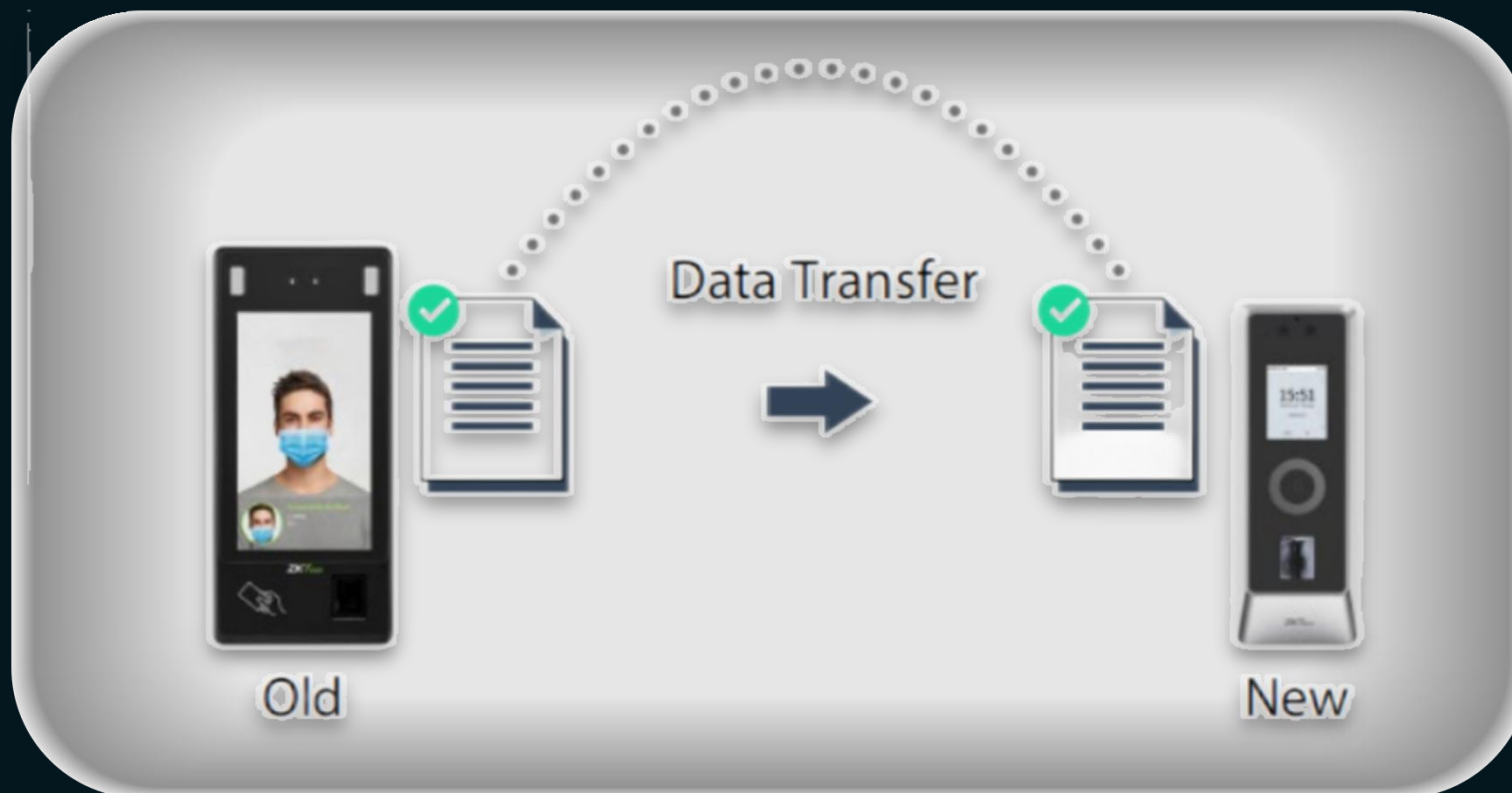
This advanced security function elevates the security level by interacting with different security areas. Interlock is designed to prevent personnel or visitors from opening more than one door at a time, even if the persons have the multiple door access authorities. This function precisely appoints access authorization including activations of access authorization of specific doors when the correlated doors are locked properly.



One door is open, at the same time, the others cannot open

## Device Replacement

The latest function of ZKBio CVSecurity is Device Replacement, which allows seamless replacement of devices and data transfer. In cases of device failure, the user can transfer all data and settings from the retired device to the new device by simply entering its serial number. This feature eliminates the need for manual re-configuration of settings on the new device.



# Access Control

The door status monitoring informs the user about possible statuses of individual doors:

- Is the door opened?
- Is the door closed?
- Is the door locked?

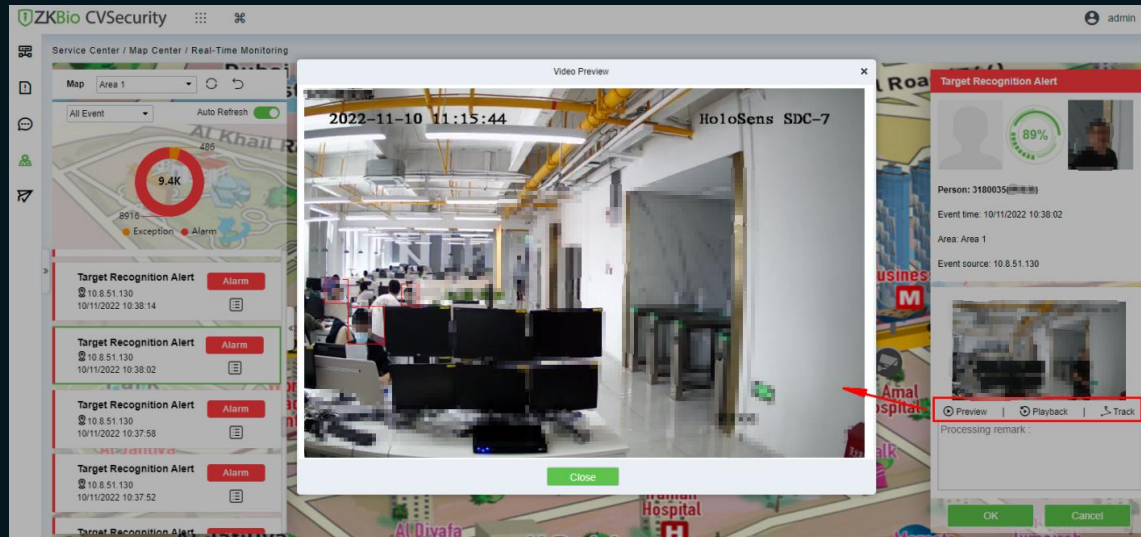
In a building with multiple entrances, **security guards** must ensure that all doors are closed before the end of the day. In a larger building complex, daily inspection of all affected doors can take a considerable amount of time. A door status monitor can be used to query which door is open or only closed. This allows doors to be located and locked in a targeted manner.

Icon	Status	Icon	Status
	Gates are disabled/disabled without connecting gates		Gate offline status/offline without connecting gate
	Only connect the integrated machine, the integrated machine is not connected to the gate		Gate is closed
	Open (in)/open (out)		Gate normally open
	Gate system error		Gate error
	Infrared abnormal alarm		

	Door opening timeout, Relay closed / Without relay status, Door Sensor Opened
	Door opening timeout, Relay opened/ Without relay status
	Door opening timeout, Relay closed / Without relay status, Door Sensor Closed
	Door opening timeout, Relay opened/ Door Sensor Closed
	Door closed alarming, Relay closed/ Without relay status
	Door closed alarming, Relay opened/ Without relay status
	Door sensor unset, Door alarming, Relay closed
	Door sensor unset, Door alarming, Relay opened
	Door opening timeout, Without relay status/ Door sensor closed
	Door locking
	Device banned
	Door offline
	Door sensor unset, Relay closed/ Without relay status
	Door sensor unset, Relay opened/ Without relay status
	Online status door closed, Relay closed/ Without relay status
	Online status door closed, Relay opened/ Without relay status
	Door opened alarming, Relay closed
	Door opened alarming, Relay opened

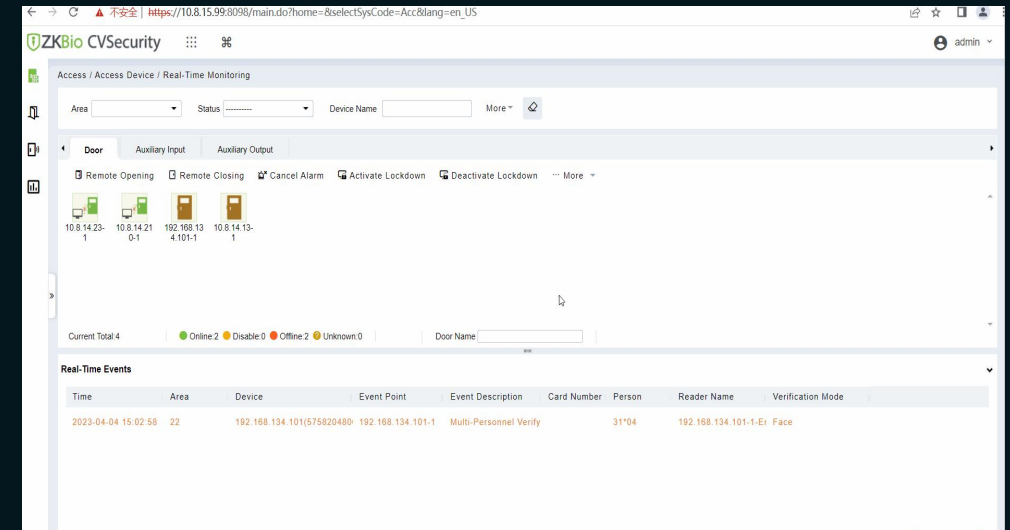


# Access Control



## Visual View Alarms

- In the control room, alarms are real-time displayed on a GIS map , allowing operators to quickly locate threats and check them remotely
- Outside the control room, alarms can be received on your phones for operators to view and handle alarms remotely.

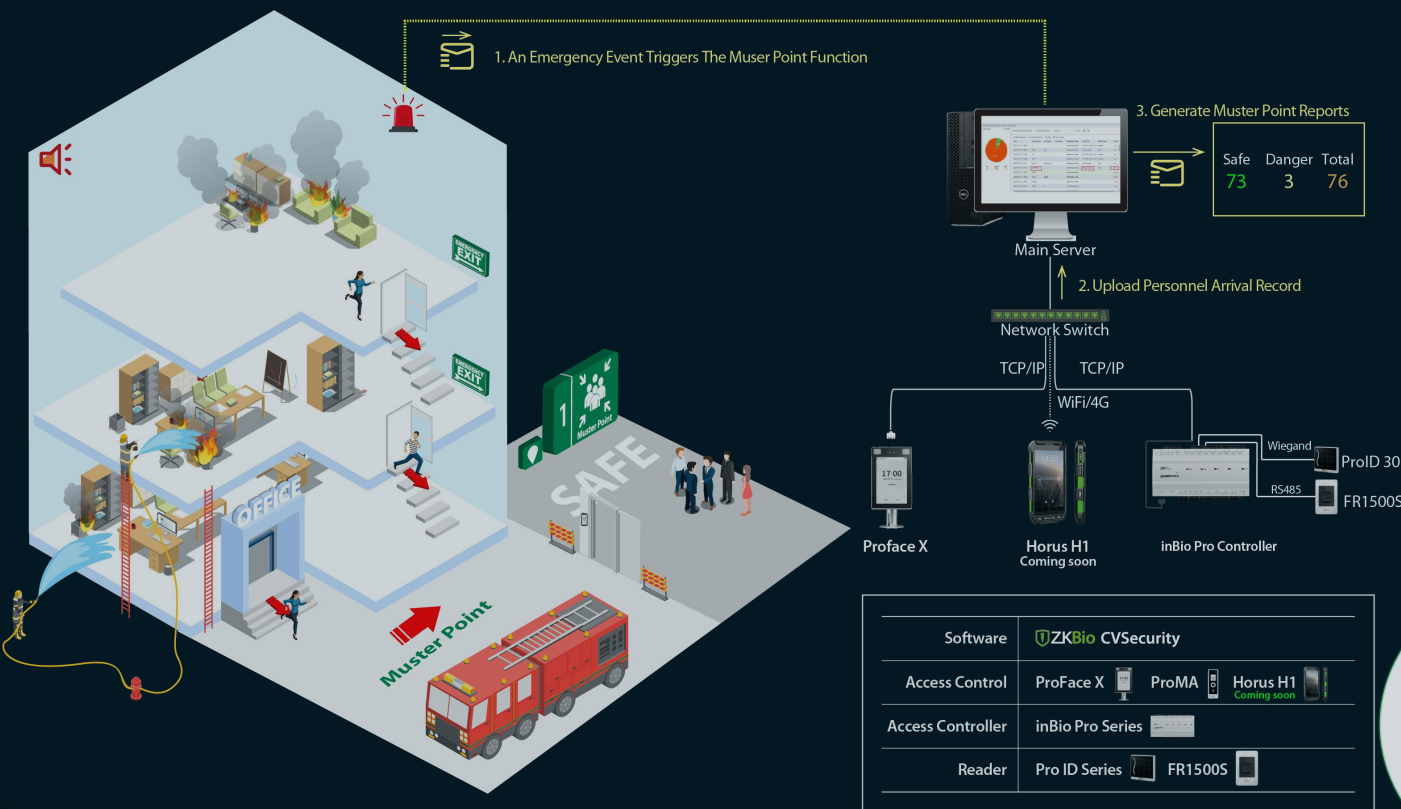


## High-security Video Linkage

- The access control is bound to the camera, and when an abnormal event is detected, the abnormal video pops up for double checking

## Emergency Response Mechanism

Emergency mode is activated when an emergency event occurs:



Activate Alerts



Unlock Escape Route



Activate Muster Point



Message Notifying All Personnel to Assemble



Timed Statistics of People who have escaped



Email Delivery Statistics Report



# Access Control

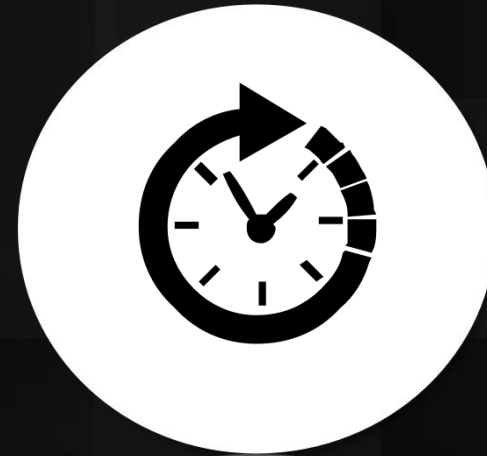
ZKTeco

## Emergency Response Mechanism

Remote Lockdown for any emergency, including natural disasters, unsolicited visitors and active shooters.



When users activate the "Active Lockdown" command, all doors will be locked instantly.



# Time & Attendance



# Time & Attendance



Time & Attendance Device

Access Control Device

FaceKiosk

LPR Or UHF Device

Video Recognition

Attendance Point

Reports

Transaction

Auto Export reports

Daily Report

Monthly Report

Flexible Timetable

Auto shift

Normal Timetable

Temporary Schedule

Shift Management

Exception Attendance Management

Apply over time

Work flow

Apply leave

Self service registration

Attendance Exception

# Time & Attendance

ZKTeco

## Multiple Ways of Attendance



### Flexible Shift Management

Flexible Shifts  
Regular Shifts  
Cross-day Shifts  
Temporary Shifts



### Flexible T&A Rules

Check In/Out Validity  
Calculation Cycle



### User-Friendly Shift Assignment

Assign Shifts by  
Group/Department/  
Personnel/Temporarily/  
Unscheduled



### Diversified Attendance Reports(20+ Reports)

Convenient Data Statistics  
Monthly/Daily/Yearly Report  
Exception: Leave/Late/Sick



### Online Leave Application with Multi-Level Approval

Business Trips, Appended Logs,  
Leave, Overtime, Multi-Level OT

### Solution Value:

- A variety of attendance methods to avoid forgetting to check in
- Real-time roll call: Identify the absentee's personnel information in one-click
- Various attendance rule settings, suitable for different scenarios



**Elevator Control**

Floor Access Level

Distribution by Department

Distribution by Personnel

Access Level

Floor Rights Management

Emergency Response Mechanism

Emergency Button

Fire Button

Global Linkage

Remotely Lock the Botton

Remotely Release the Button

Remote Control

Elevator Integration

KONE

MITSUBISHI



# Elevator Control

ZKTeco

Support face, fingerprint, palm, card or QR code and multiple elevator ride modes

The elevator control pannel does not change the original button, can release all the buttons remotely, or Fire button linkage application

Sagin Access Level

Multiple verification methods

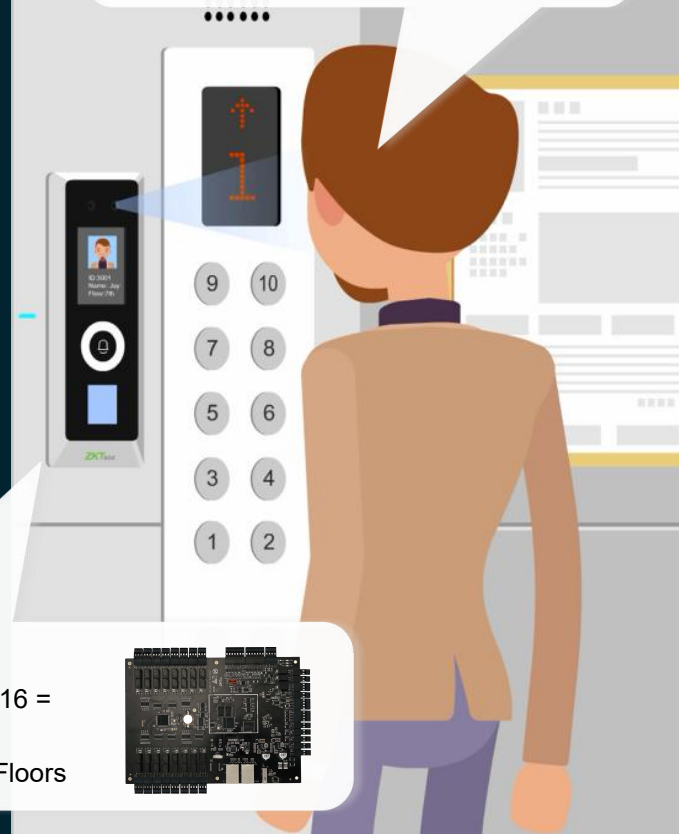
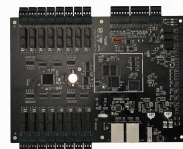
DCS Application

Use of existing elevator systems

Assign access level by department, individual and access level group

Can be linked with access control device or barrier gate to achieve DCS call ladder application

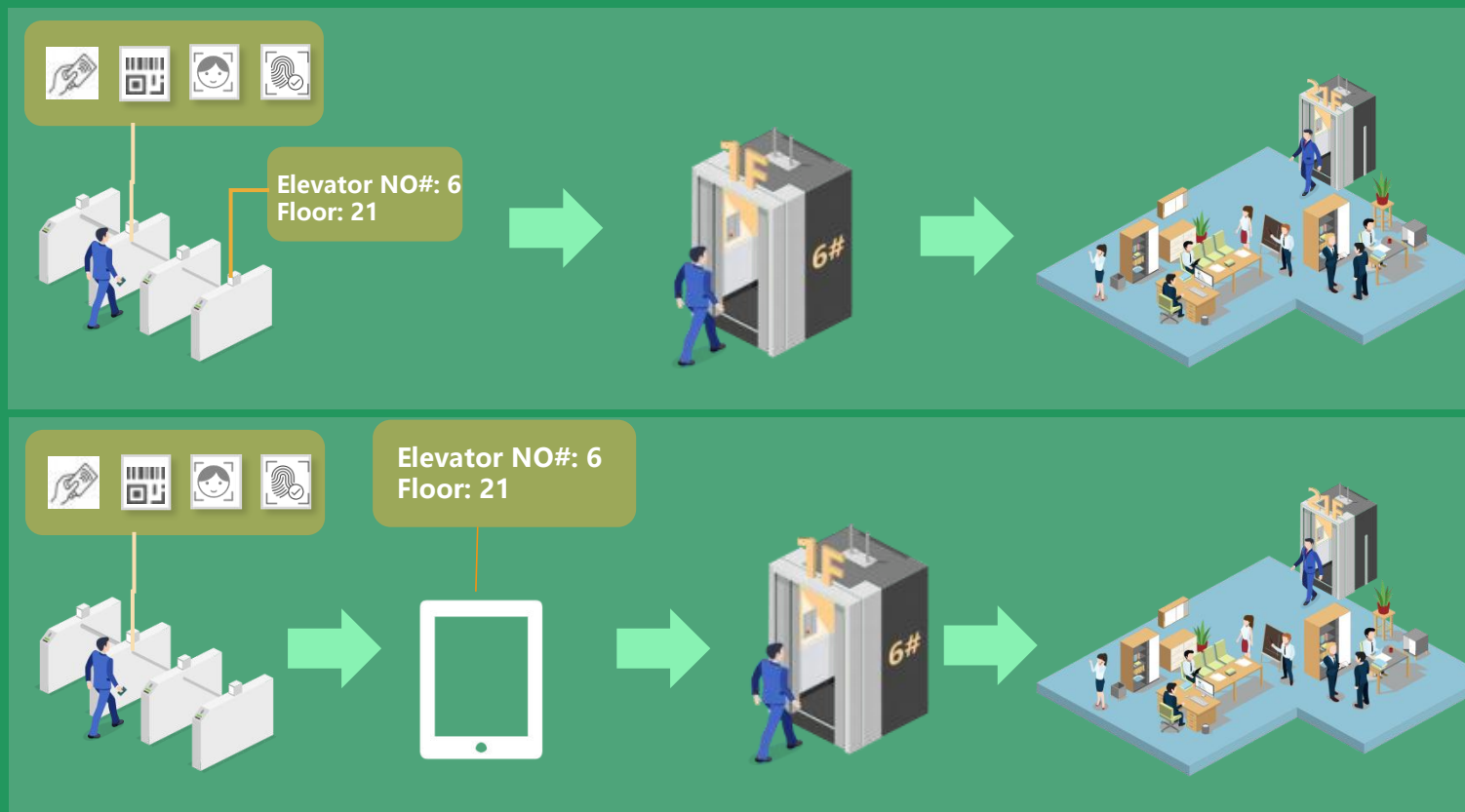
1 EC16 + 7 EX16 =  
up to **128** Floors



# Elevator Control

ZKTeco

Integration of access control system with elevator destination control system improves operational efficiency



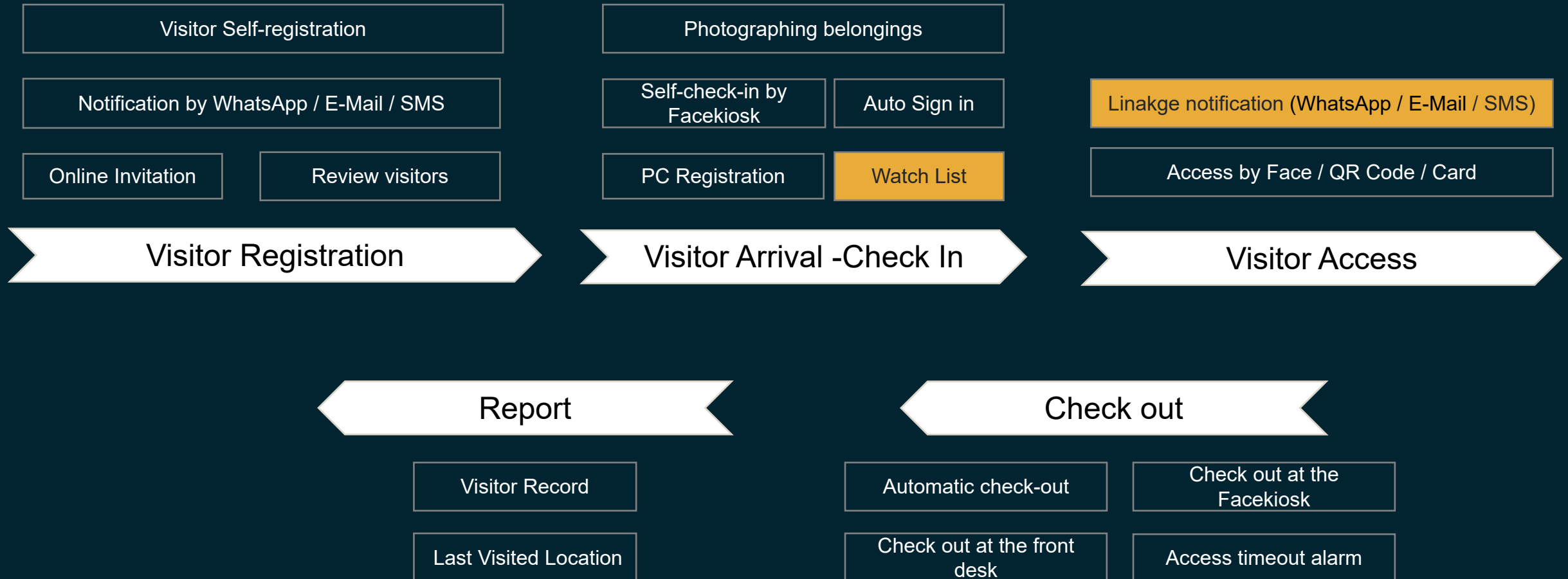
 **MITSUBISHI  
ELECTRIC**  
*Changes for the Better*

**KONE**



# Visitor Management

# Visitor Management



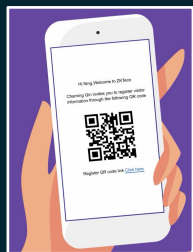


# Visitor Management

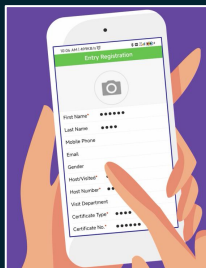
ZKTeco



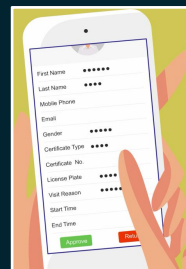
## Speeding Passage -Automatic check in



Employee initiated  
visitor invitations



Visitor pre-  
registration



Employee or  
administrator  
review



After the audit, the user will be given a check-in and check-out QR code;  
Users can enter and exit the designated parking lot or use face or QR code to pass in the designated place.

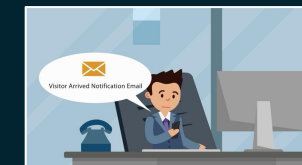


## Solution Advantages

- Query the visitor's last visit location, visitor history, and timed pop-ups of unregistered visitors.
- Visitor scenarios for SMBs



Reception of  
visitors

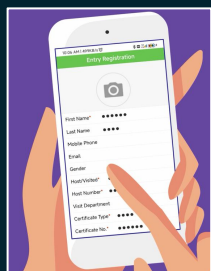


Employees receive  
notification that a  
visitor has arrived

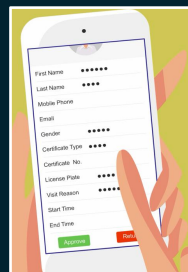


## Self-registration and check in at face kiosk

Online  
Reservation



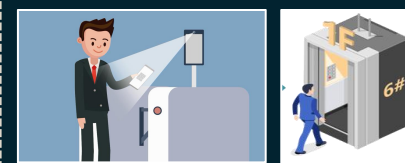
Visitor  
pre-registration



SMS, E-Mail or  
WhatsApp notification  
to administrators



Check in and print  
the pass QR code at  
Facekiosk



Use face or QR code to  
pass



Reception of  
visitors

Onsite self-  
registration



Visitor registration  
using FaceKiosk

### Solution Advantages

- Fast pass, visitors only need to pre-register online, after verification, you can pass directly, no need to sign in at the front desk, improve the efficiency of passage.
- Unattended, all records are traceable
- Visitor scenarios for SMBs

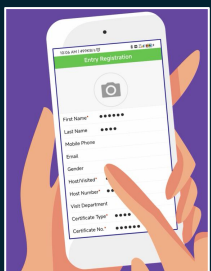
# Visitor Management

ZKTeco

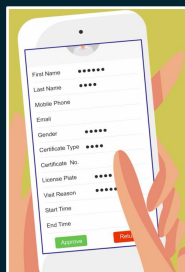


## Self-registration and check in at front desk

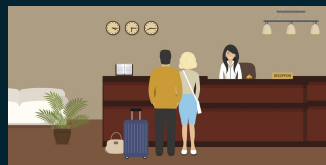
Online  
Reservation



Visitor  
pre-registration



SMS, E-Mail or  
WhatsApp notification  
to administrators



Go to the Reception  
to OCR scan  
documents for sign-in



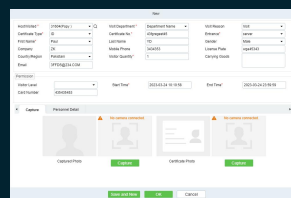
Verified by QR code  
or Face



Reception of  
visitors

### Solution Advantages

- Support OCR to quickly scan visitor ID or passport and fill in the registration page.
- Support visitor and baggage capture to enhance access security
- Print templates can be custom designed
- Suitable for campus scenarios with high security level



Visitor Registration Page



USB HD Network Camera  
Capture Visitor Photo



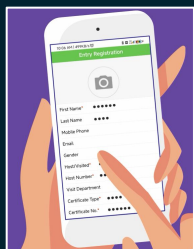
ID or passport scanning  
and photography



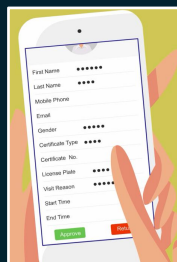
Prints sticker receipt  
for visitors.



## Vehicle access for visitors



Visitor online  
pre-registration to fill in  
the license plate number



Message, E-Mail or  
WhatsApp notification to  
the host



Admin can choose to configure  
2 visitor vehicle  
management modes



Mode 1:  
Allow list mgt



Mode 2:  
Temporary  
vehicle mgt



### Allow list management rule

Visitors' vehicles can pass directly  
and drive out within the specified time

### Temporary vehicle management rule

Visitors' cars must comply with the  
management rules of the parking lot,  
which can charge for temporary vehicles



# Visitor Management

ZKTeco

Automatically check Out



3 Hours later

Check out on the device

Check Out

Exit Registration

☒ Open the Visitor Exit Function

☐ Automatic Sign Out    ☐ Set Automatic Sign Out Place

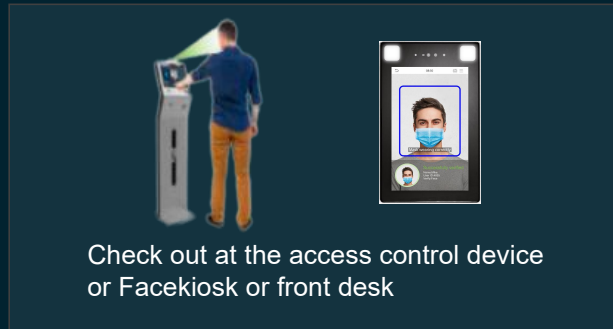
▲ Visitors exited from the set reader, will be automatically checked out.

☐ Sign Out Expired Visitors

▲ The invalid visitors that having not been checked out manually, will automatically be checked out/performed every [30] minutes

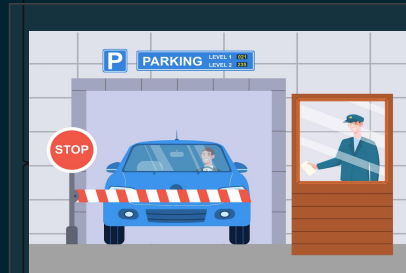
ZKBio CVSecurity automatically signs out of the timeout visit

\* Timeout alerts are not available in this mode.



Check out at the access control device or Faceiosk or front desk

Leave



The barrier is unlocked after the visitor's license plate is recognized

Check the visitor report

- Visitor's name,
- Time of visit,
- Length of stay,
- Items to bring...
- .....

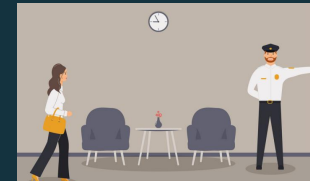
Visitor	Time	Duration	...
000001	00:00	00:00	...
000002	00:00	00:00	...
000003	00:00	00:00	...
000004	00:00	00:00	...
000005	00:00	00:00	...
000006	00:00	00:00	...
000007	00:00	00:00	...
000008	00:00	00:00	...
000009	00:00	00:00	...
000010	00:00	00:00	...

Visitor	Time	Duration	...
000001	00:00	00:00	...
000002	00:00	00:00	...
000003	00:00	00:00	...
000004	00:00	00:00	...
000005	00:00	00:00	...
000006	00:00	00:00	...
000007	00:00	00:00	...
000008	00:00	00:00	...
000009	00:00	00:00	...
000010	00:00	00:00	...

Timeout Alarm



If the visitor does not check out after the timeout, the message will be notified to the security guard



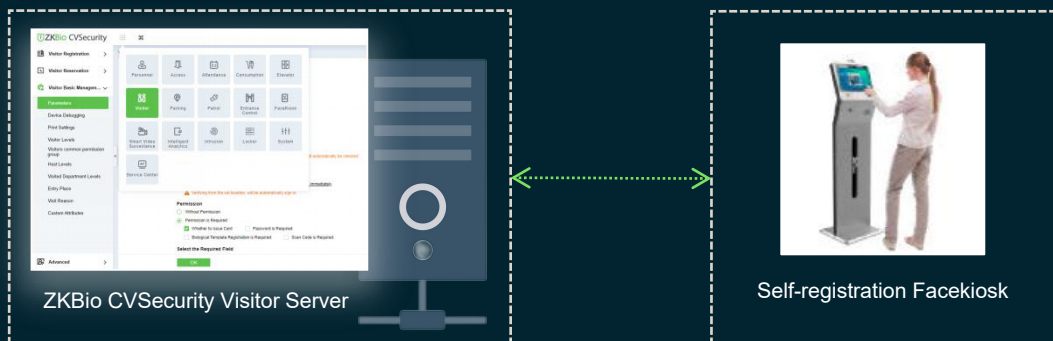
The guard found the visitor and alerted him.

# Visitor Management

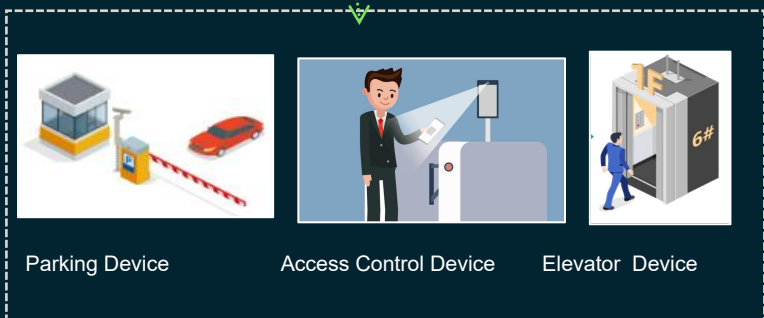
ZKTeco

## Solution Advantages

01



### Visitor Access Right Linkage



02

## Message Notification



SMS

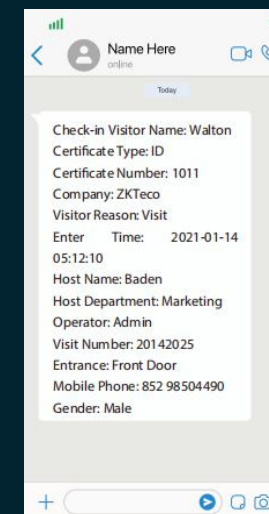


WhatsApp



Email

During visitor registration, in case of overtime visits, visitor registration, overtime visitor registration, visitor checking out, monitoring lists, the system will deliver message notification to visitors, recipients or managers in registration site. message templates support customization, templates with different contents, delivery rules and recipients according to conditions can be customized.



03

## Solution Advantages

### Visitor Watchlist



Add to Watch List function helps to mark special visitors. such as VIP, block list user. The system will automatically prompt the visitor information and visit history when register the same visitor again.

04

### Scramble QR Code

In order to prevent unregistered people from gaining access by copying QR codes or barcodes without permission, the images of QR codes and barcodes in the URL can be set to dynamic(scramble),which means that the QR code images will be automatically changed in every 10-30s (adjustable).

Administrators no longer need to generate new set of QR codes to update visitors' entry content anymore.

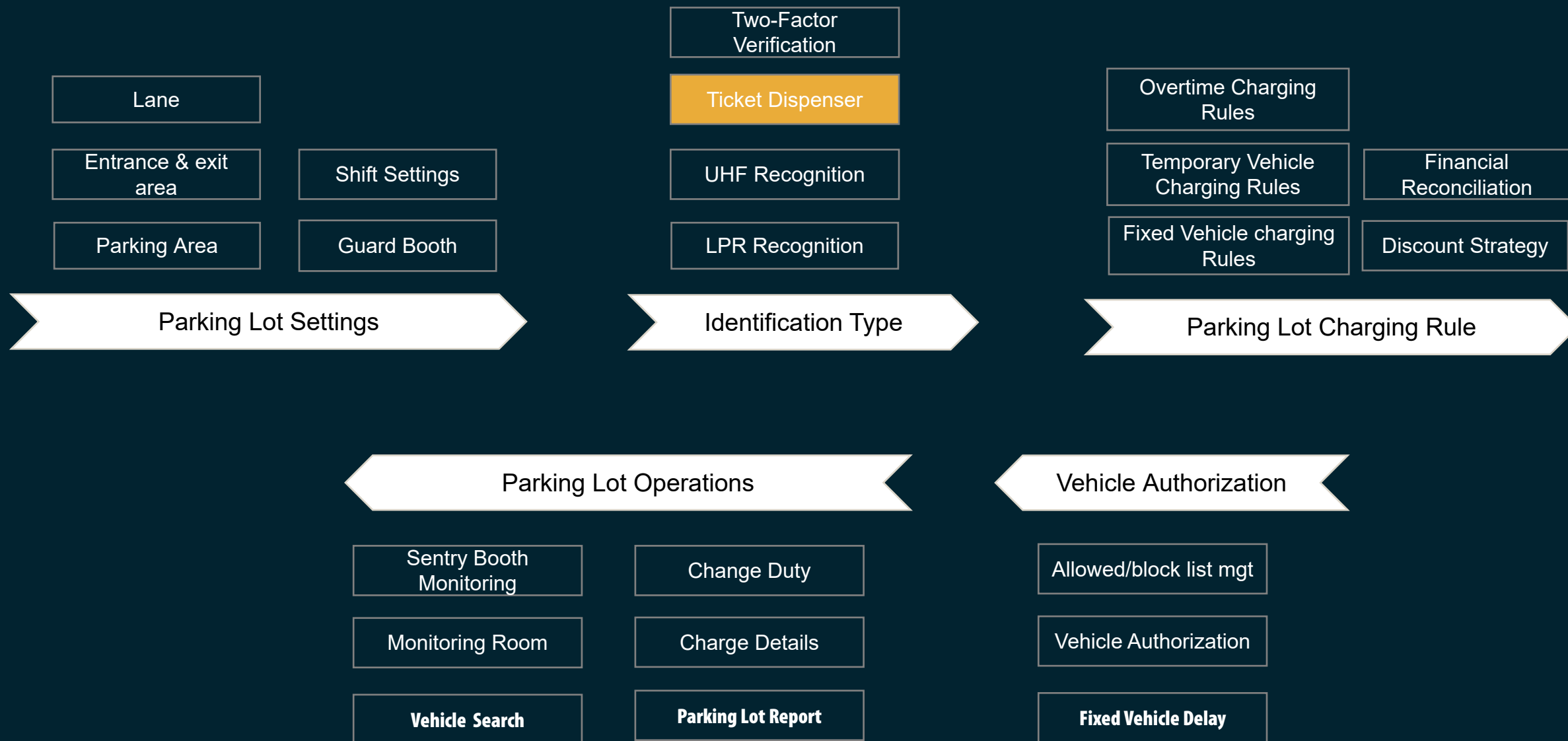




# Parking Management



# Parking Management



## Multiple Verification Methods



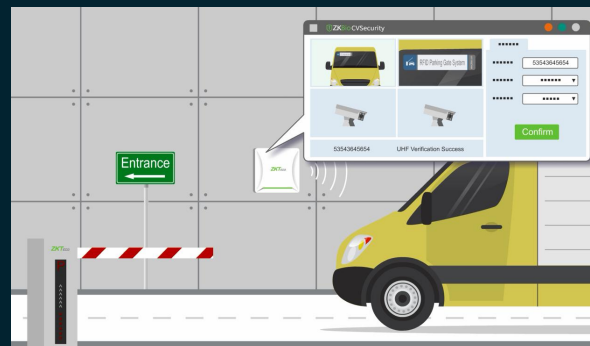
LPR

**Supported devices:**  
LPRS1000/2000/4000  
BL-852Q38A-LP

**Advantage:**

- Fast recognition, no waiting.
- Support 120+ countries algorithm, meet the needs of each country fast passage

**Suitable for:** industrial parks, residential areas, banks and other scenarios



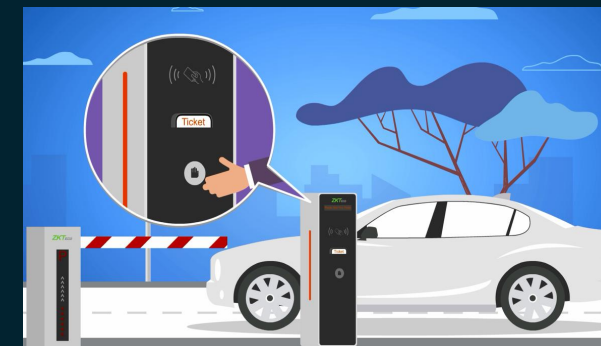
UHF

**Supported devices:**  
UHF1000/2000  
Indio Pro + UHF Reader

**Advantages:**

- Fast scanning and flexible identification distance;
- UHF Tag is anti-pollution, waterproof, dustproof and not afraid of dirt.
- UHF Tag data encryption, not easy to forge and tamper.

**Suitable for:** factories, logistics parks, construction sites and other scenes



Ticket Dispenser

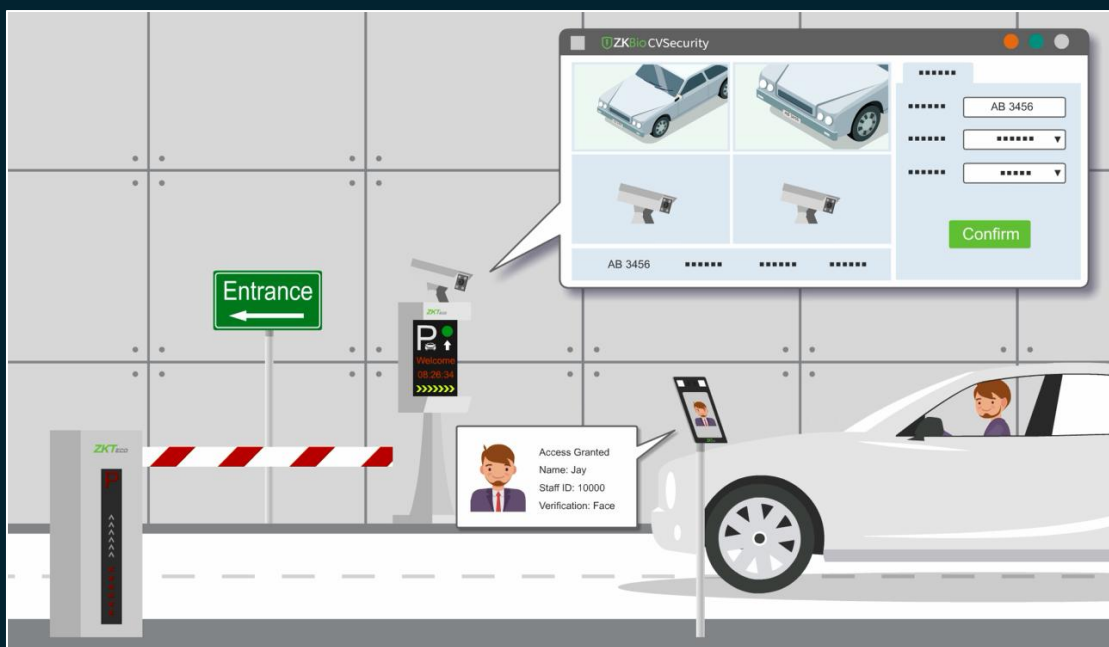
**Supported devices:**  
TBM01/02

**Advantages:**

- Unattended, Improving access efficiency
- Non-contact induction and automatic printing of small tickets.
- Modularity can be freely combined: optional swipe card module, UHF module or LPR camera

**Applicable to:** Commercial center, property center and other scenes

## Two-Factor Verification



### Solution Advantages:

- Support face, fingerprint, palm, card and LPR dual recognition
- Only after the person and vehicle match one by one can pass, suitable for high security level scenarios

Two-factor authentication with facial recognition and license plate recognition enables extra security protection. The LPR camera scans and identifies license plates when a vehicle drives into the reading range. Then the system automatically searches the registered face image of the driver accordingly in the database for facial recognition. If both license plate number and facial recognition result match with the data in the database, the car park barrier will be lifted for access. If not, access will be denied.



## Flexible configuration of fee rules

### Fixed Vehicle

Fixed Charge Name\* MF

Vehicle Type\* Small Vehicle B

Cycle Type\* Small Vehicle A

Cycle\* Small Vehicle B

Charge Amount\* Medium Vehicle

OK Cancel

Periodic internal vehicle recharge management, such as weekly or monthly fees, can be configured with different charging rules for different vehicles

### Temporary Vehicle

Temporary Vehicle Charging Rules Name\* Large

Vehicle Type\* Temporary Large Vehicle

Daily Highest Amount\* 50

Free Minutes\* 0 minutes

☐ Charging Time includes Free Minutes

☐ Cross Time Split

☐ Enable the same license plate in Circulation within 24 ... Maximum Fee for Multi-Access 0

Detail ☒ According to time period ☐ According to cycle

Time Period\* 00 : 00 to 00 : 00 ☒ Cross Day

☒ Charge by Times

Maximum Charge\* 10

First Time Charge

Amount per unit time charge

Test Charging Rule:

Vehicle Type Temporary Large Vehicle

In Time\* 07-MAR-23 10:47:00

Out Time\* 07-MAR-23 17:47:59

Save and test

Amount Receivable: 10.0

OK Cancel

- Configurable temporary car charging rules for different car parks, different vehicle types and different time periods
- After the configuration is completed, the results can be tested to facilitate the user to adjust the rules.

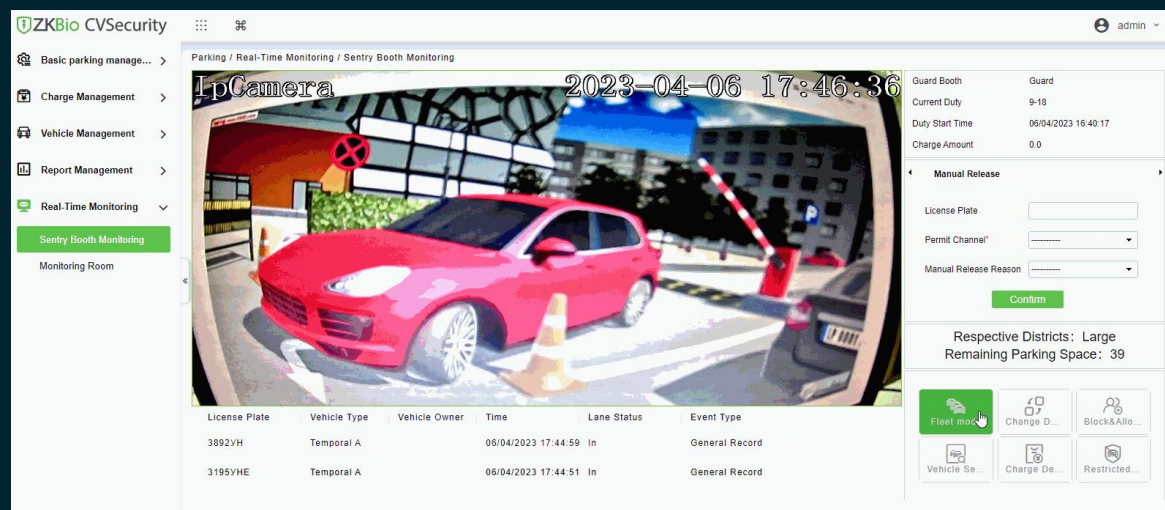


# Parking Management



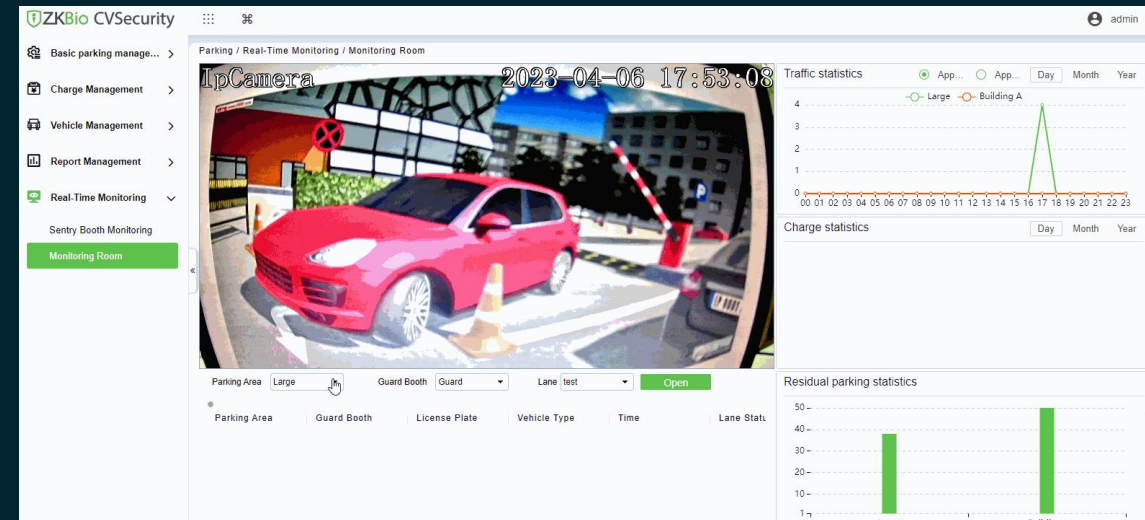
## Real-time Monitoring

### Sentry Booth Monitoring

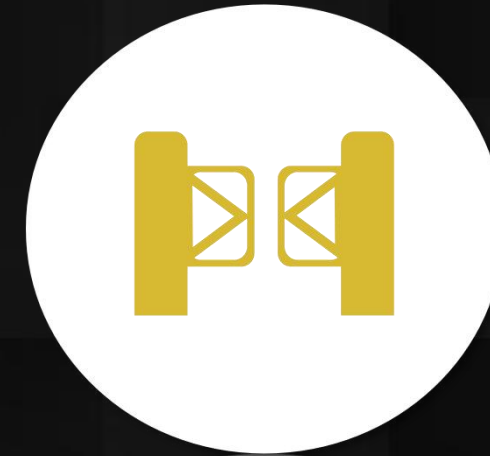


- Real-time monitoring by booth security
- Monitor only the set channels
- Manual release for abnormal situations
- Remaining parking space's view
- Quick menu:
  - Enable Fleet mode: The barrier will always be open to facilitate the passage of the fleet charge details,
  - Vehicle list library management
  - Shift change
  - Restriction settings: can restrict the passage of special models (such as restricting the entry of large trucks)

### Monitoring Room

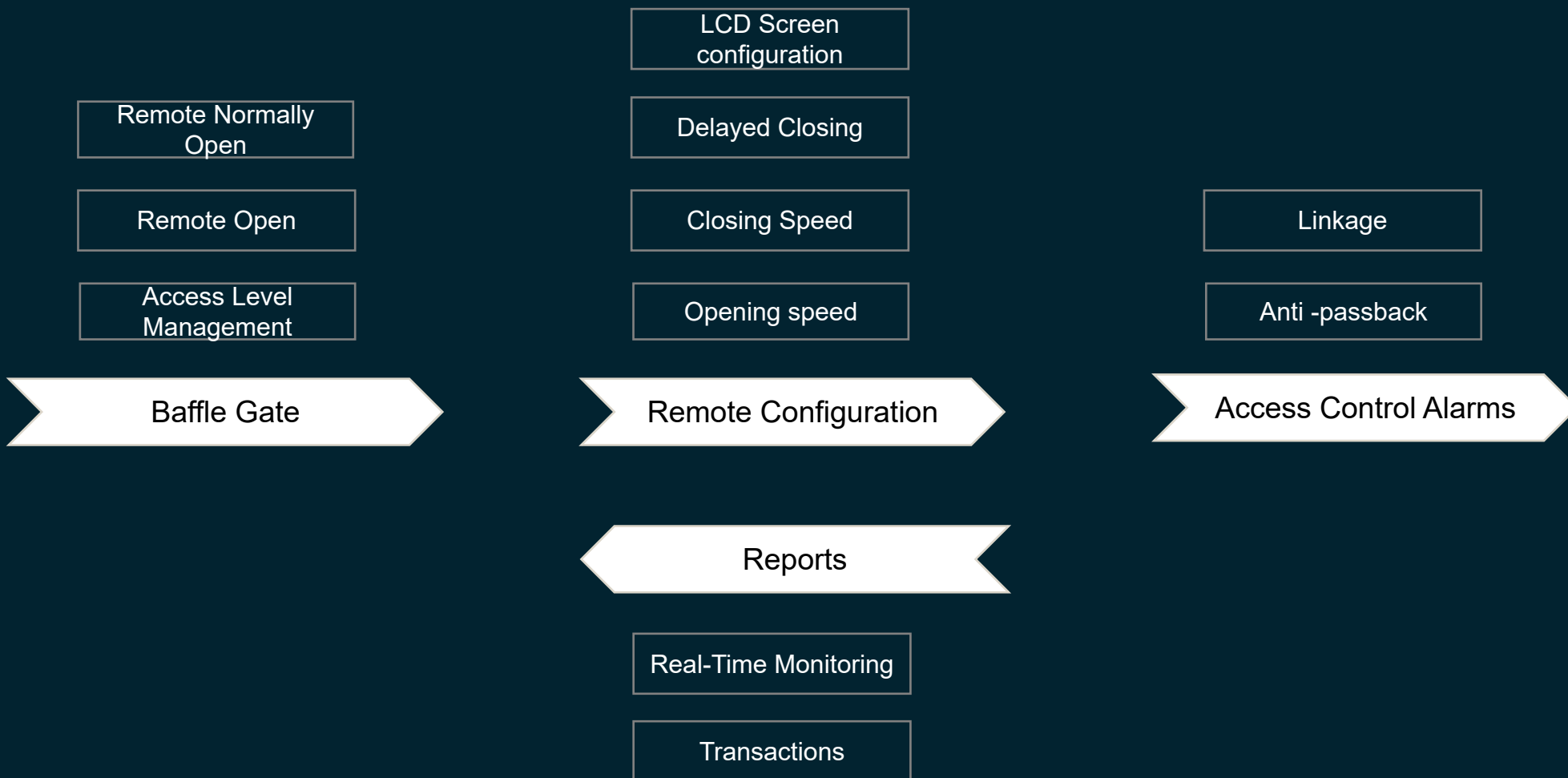


- Real-time monitoring by security manager or administrator
- All posts and channels can be monitored
- Real-time statistics on traffic flow or tolls
- Residual parking statistics
- Quick menu: abnormal vehicle record view, Enter vehicle search, charge details, Vehicle list library management



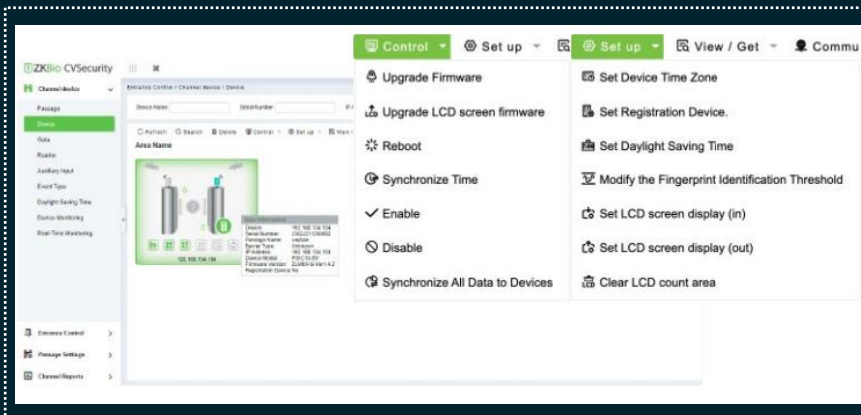
# Entrance Control

# Entrance Control

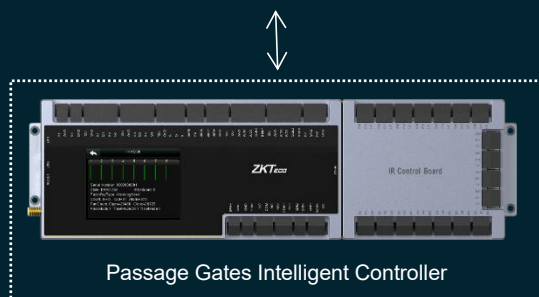


# Entrance Control

ZKTeco



- Strict access control
- Multiple authentication methods: fingerprint, face, palm, swipe card, QR code
- Real-time monitoring of gate status with visualized pictures
- Remote control



Online Update



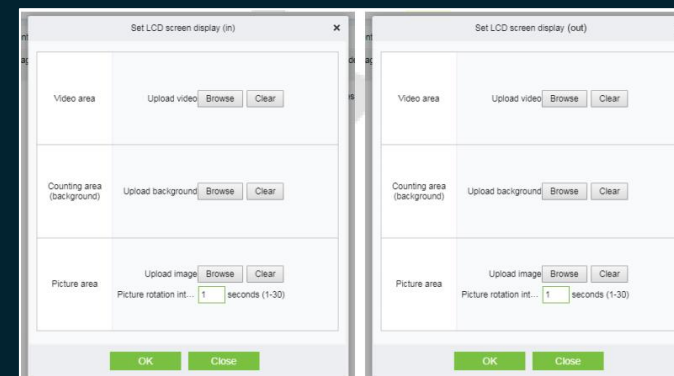
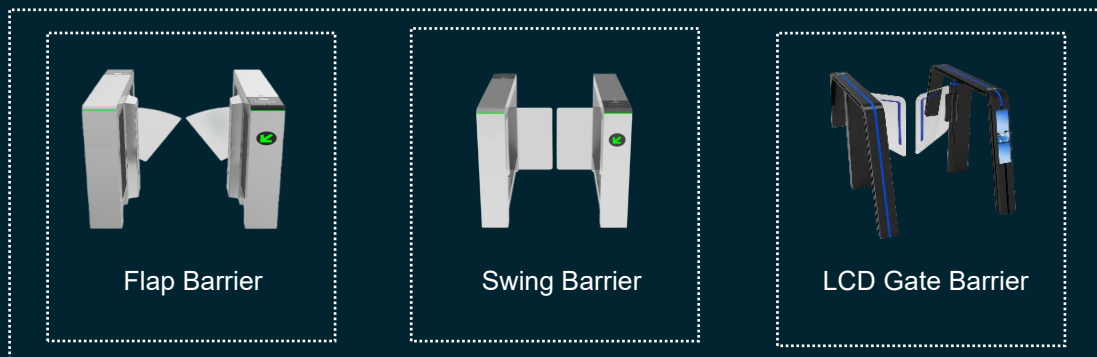
Unlock Speed



Remote Unlock

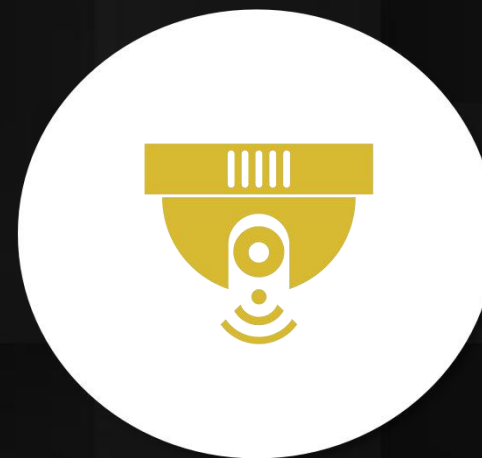


Passage Time zone



LCD  
Setting





# Smart Video Surveillance



# Smart Video Surveillance

ZKTeco

Preplan Collection

PTZ Control

Video Preview

Live View

Video View

Alarm control

Real-time Alarm

Alarm Linkage

Alarm Search

Video Download

Local Video

Plan Video

Video Playback

Video Playback

Video Intercom

Live View

One-touch Door  
Opening

Answer Record

Custom Layout

Floating Window

Multi-screen Splicing

Preplan Collection

Decoding on the wall

Video Patrol

Patrol Plan

Message Notification

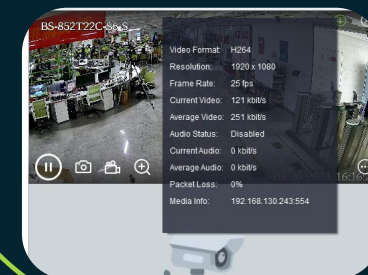
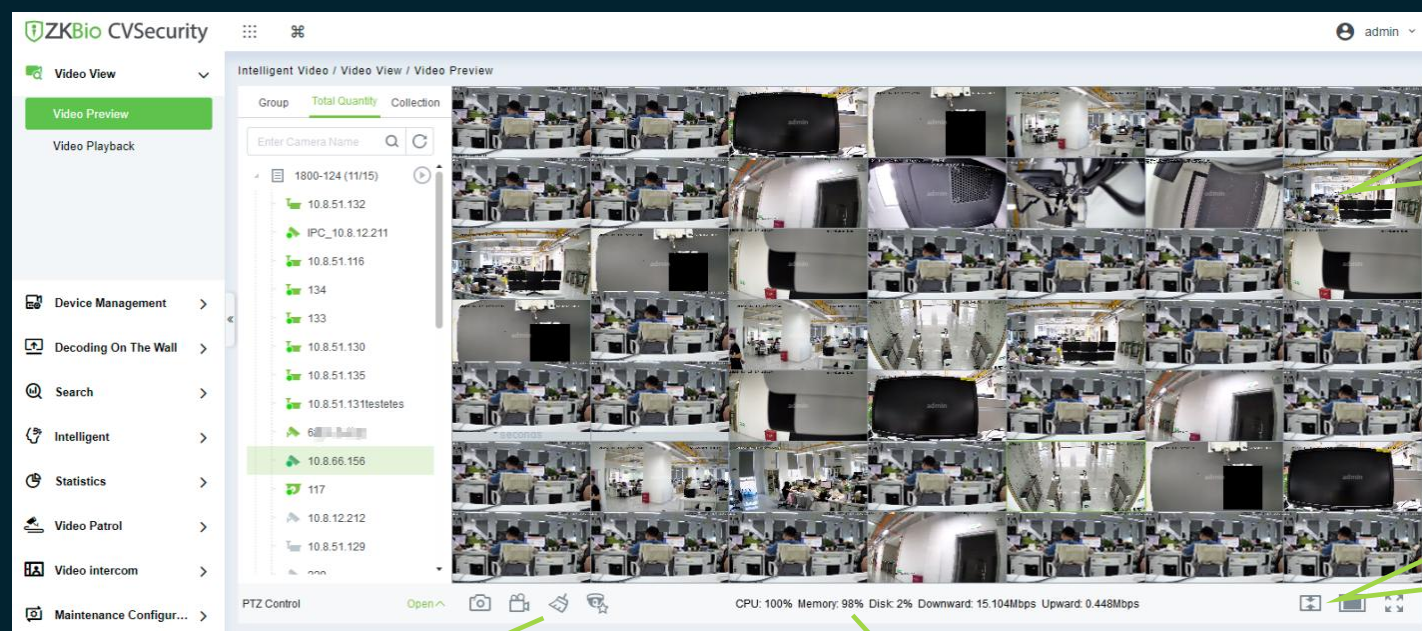
Patrol Record

# Smart Video Surveillance

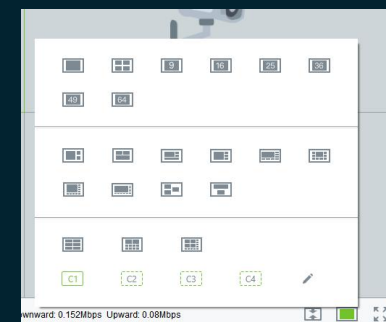
ZKTeco

## Live View

Maximum supports **64 channels** video live preview at the same time  
Each channel resolution up to 4K UHD (3840\*2160).



Video channel streaming parameters real time displaying



Rich & Flexible self-define screen layout



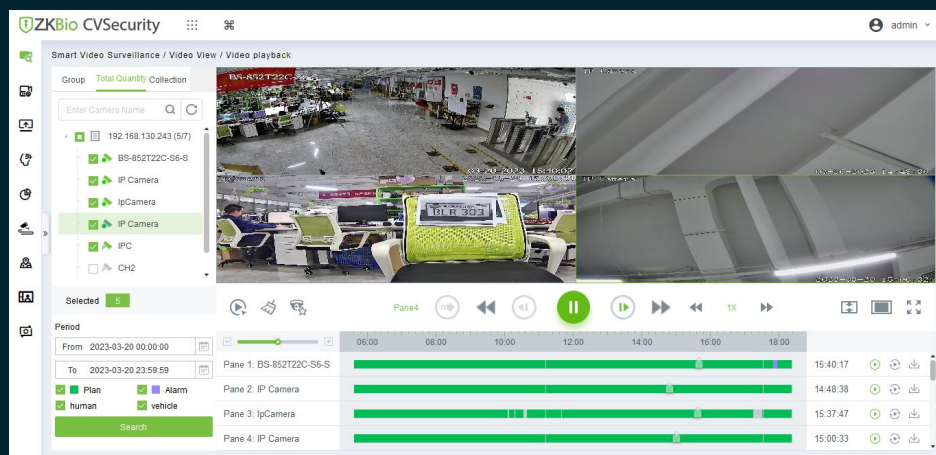
Quick play/snapshot  
/Close/Collect video channels

CPU: 100% Memory: 98% Disk: 2% Downward: 15.104Mbps Upward: 0.448Mbps

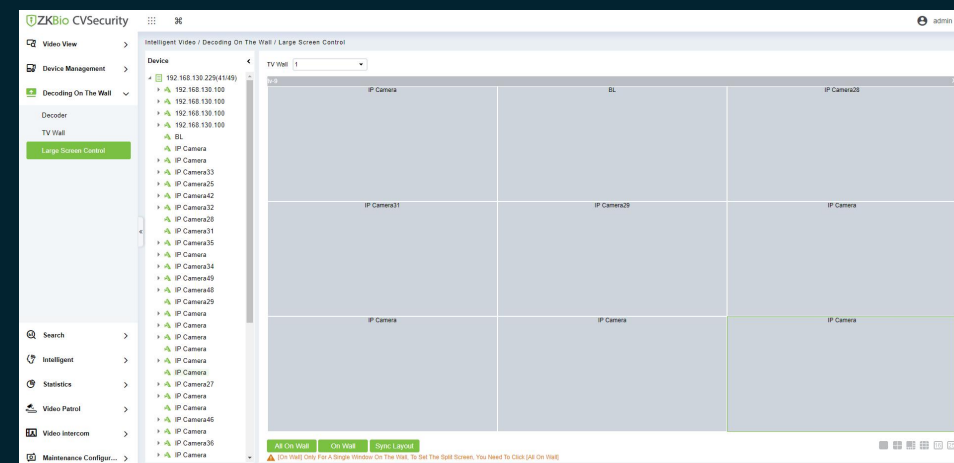
Realtime monitoring on PC's performance & bandwidth

## Playback

Maximum supports **16 channels** video playback at the same time  
Each channel resolution up to 4K UHD (3840\*2160).



## TV Wall



Multiple layouts freely configurable



Combination Screen

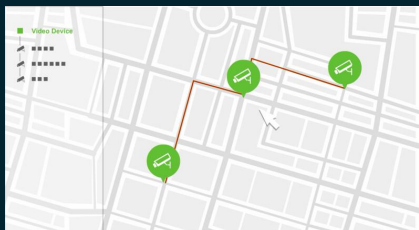


Floating Window

# Smart Video Surveillance

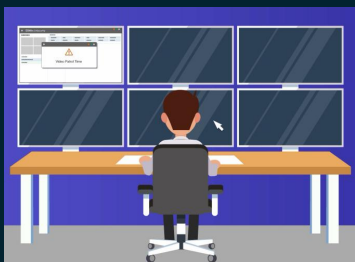
## Video Patrol

ZKTeco



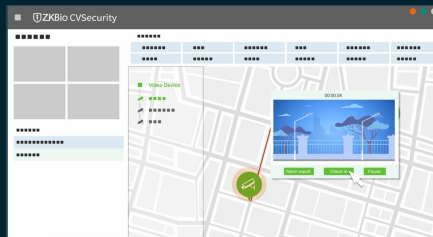
Customized patrol points, patrol plan and patrol personnel

### 1. Configure the patrol plan

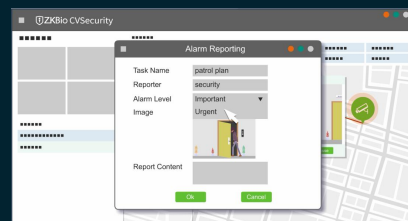


Message to alert patrol personnel

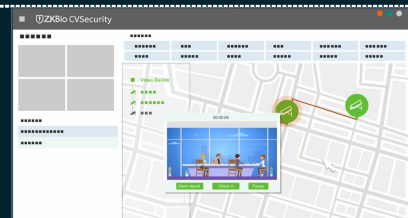
### 2. Message notification to patrol personnel



According to the plan, the video is played sequentially on the map and the Check in button appears randomly to avoid malfeasance of the patrol staff



If an abnormal event occurs on the screen, you can click "Report Abnormality".

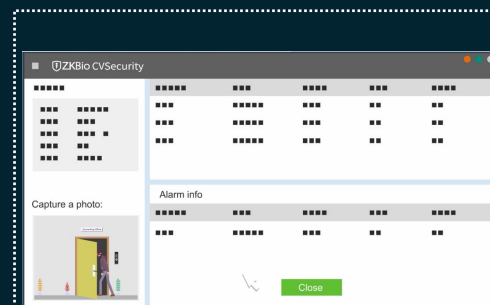


If the patrol personnel have something to do, you can click "pause" the patrol

### 3. Start patrol

### Solution Advantages:

Automatic patrolling of the park's points by customizing the lines and time intervals viewed by surveillance cameras combined with GIS maps to maintain the park's security

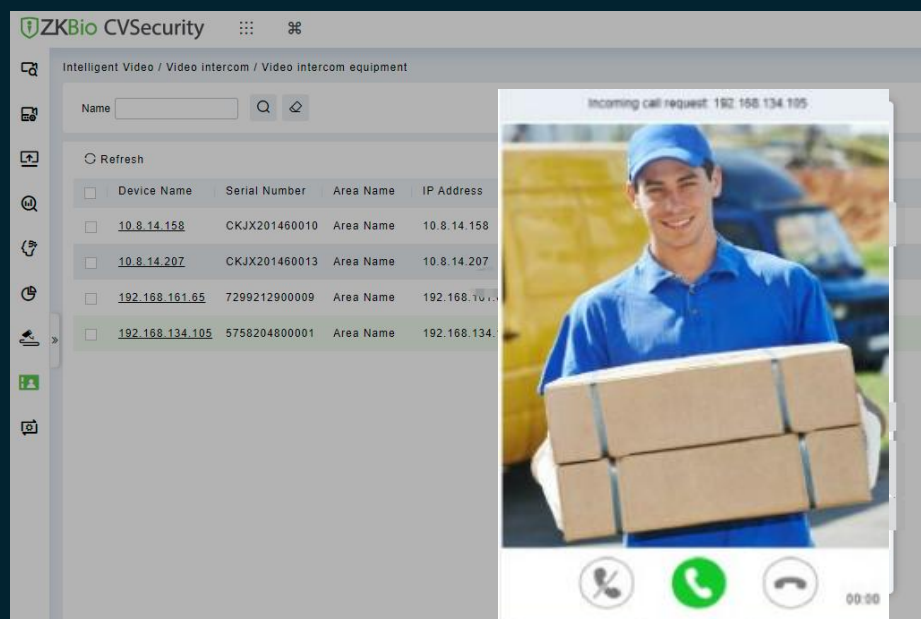


### 4. Patrol records

- How many times the patrolman missed the card
- Details of the reported abnormal events
- Description of all patrol events

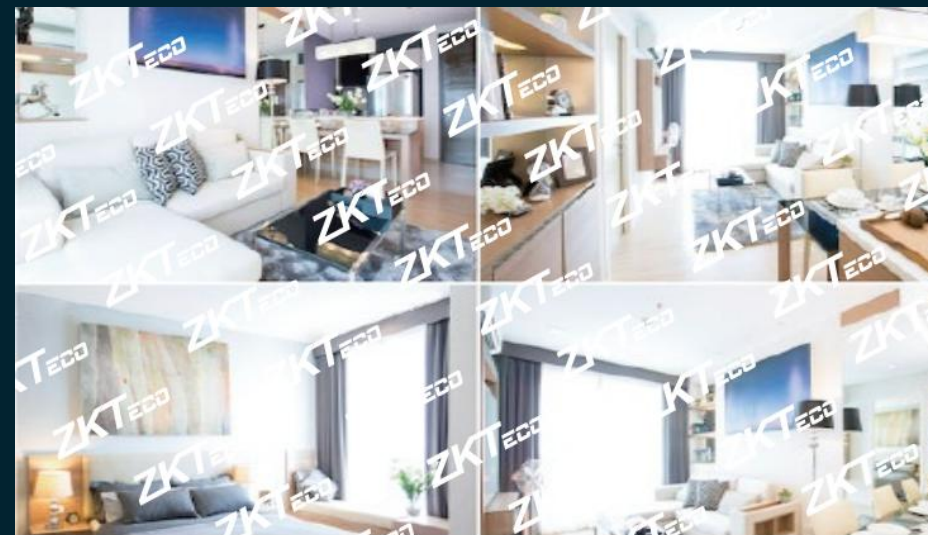


## Video Intercom



When the device initiates a call, a host interface will pop up, users can complete the operations such as answering the video intercom, capture photo, hanging up, or unlocking the door.

## Video Watermark

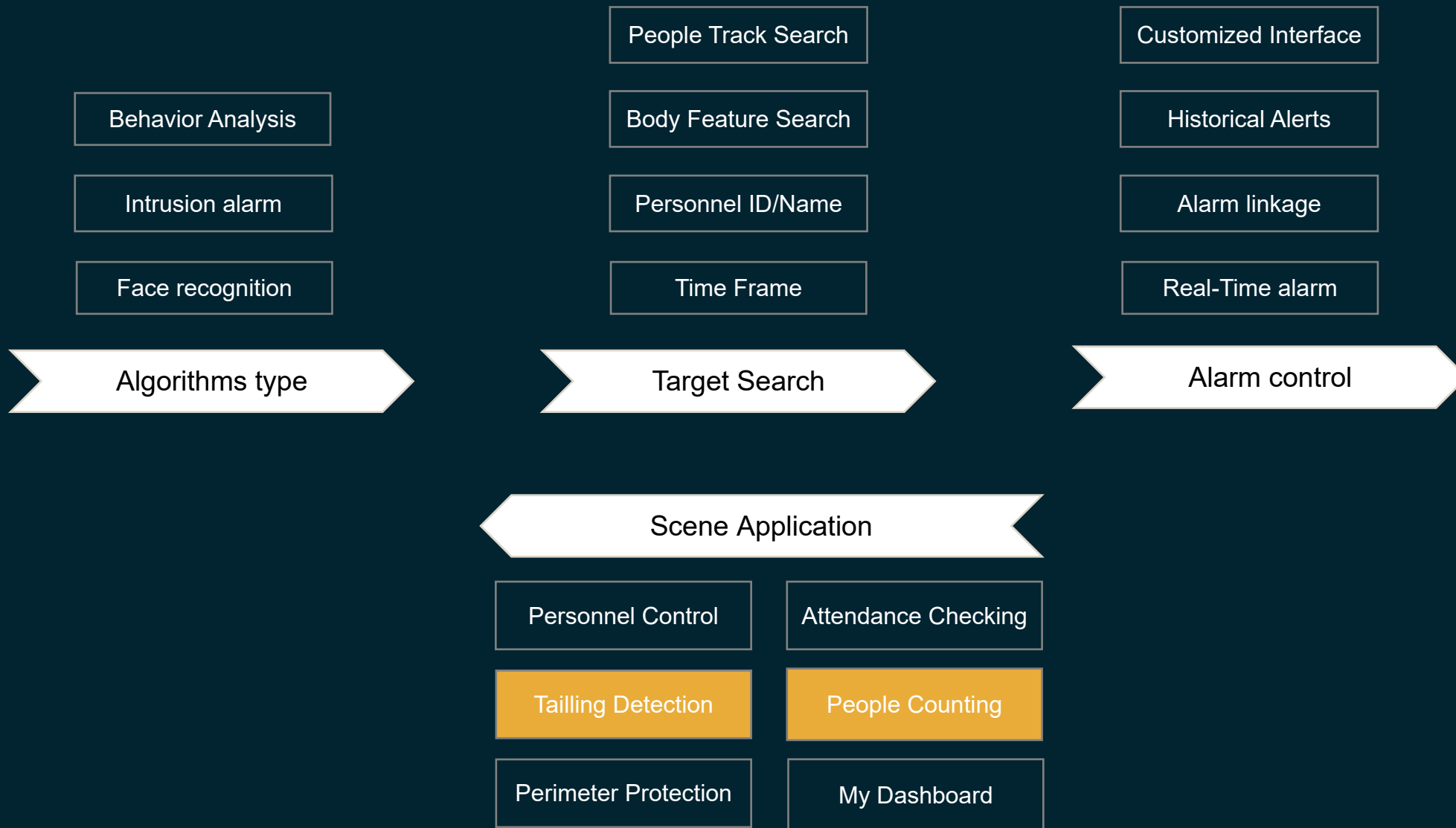


Watermarks can be added and displayed on the videos, including the copyright owners or logos for the protection of the video assets and the enhancement of brand uniformity. Also, the watermarks also prevent illegal and authorized use of the video files to ensure safety of the company.

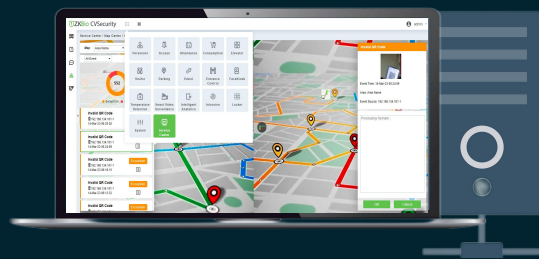




# Intelligent Analytics



## My Dashboard



ZKBio CVSecurity Server

API  
TCP/IP

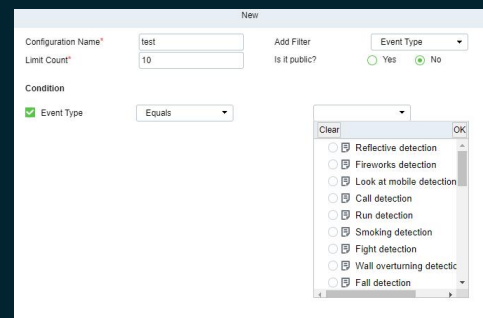


ZKIVA-Edge

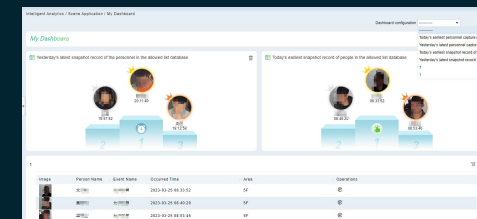
RSTP



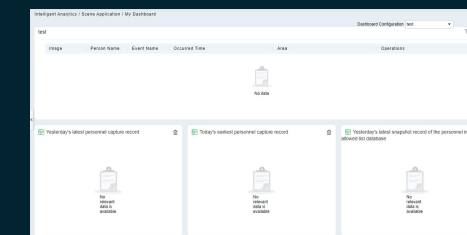
Any 3rd Party Camera



- Custom configuration screen based on conditions
- Visible to individuals only
- Visible to all users



First 5 people to arrive daily



Daily list of people who leave work the latest

Customizable interface display and window placement based on user preferences

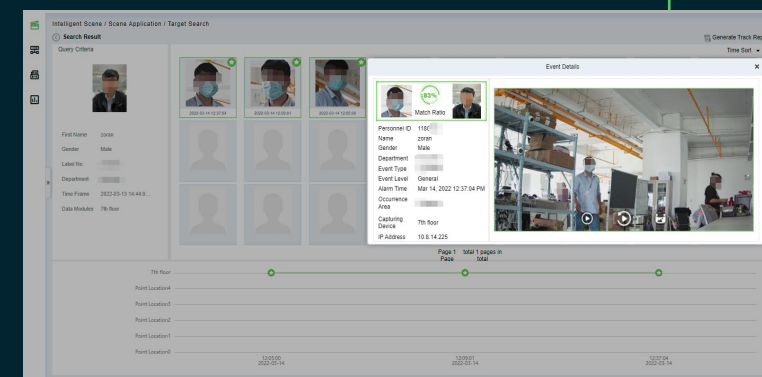
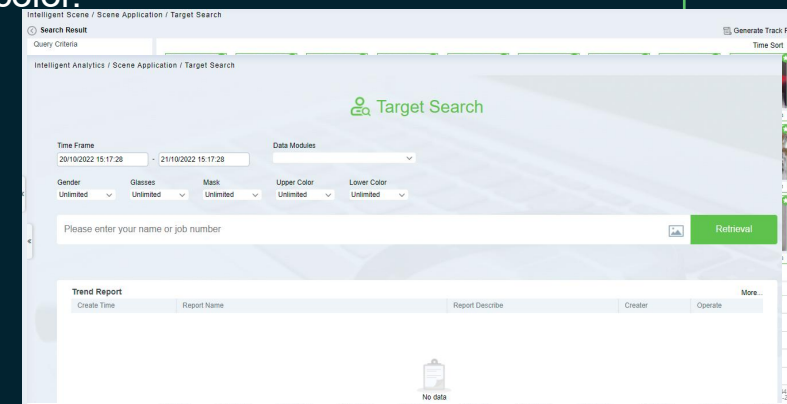
- Daily Fights
- Stranger Entry Event of the Week
- Today's Tailgating Incidents
- Real-time Face Capture Incidents
- Real-time Fights
- More.....

## Target Search and Personnel Trajectory

### Accurate identification and search of suspicious personnel

- ✓ Supports the full-platform event search of multi-credential such as, person's name, ID number, reverse image search, gender, age, mask, glasses, jacket color, and trousers color.
- ✓ View the event details and video playback.
- ✓ Generate a detail personnel trajectory reports.

Trend Report					
Trend Information					
Report Name	Trend report about 11/11/2022				
Report Director	admin				
Created	2022-03-17 01:46:26				
Trend Detail					
					
Name	2000	Personnel ID	1180560		
Gender	Unknown	Department	Department Name		
Time Period	Mar 16, 2022 14:49 PM - Mar 17, 2022 14:48 PM		Record Type	Unknown	
Trend Detail					
					
Report Detail					
Event Time	Region	Event Source	Image	Event Name	Event Grade
2022-03-16 22:24:26	Area Name	7th floor		Allow list	Commonly
2022-03-16 20:00:00	Area Name	7th floor		Allow list	Commonly



## Personnel Control


Statistics, Monitoring, Playback and Analysis of Allowlist, Blocklist, and Suspicious personnel




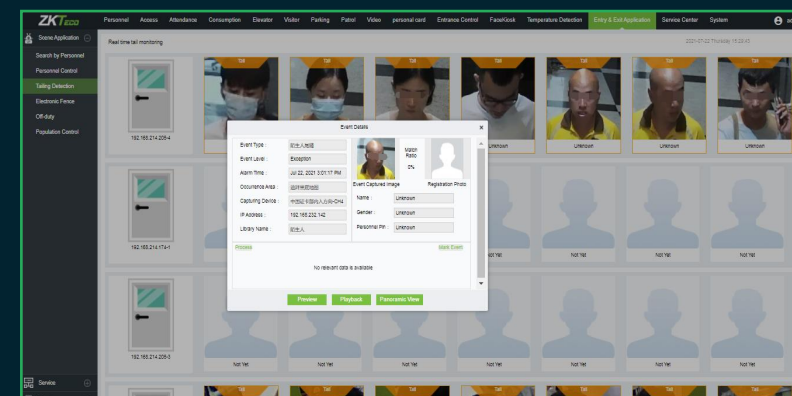
- ✓ Suitable for entrance and exit monitoring. To monitor the key personnel such as VIPs and personnel from the blocklist.
- ✓ Count the visitor flow, differentiate the number of people in the allow list, the number of people in the blocklist, and suspicious personnel.
- ✓ View people's comparison details and generate reports in real time.
- ✓ Click on the suspicious person picture and search for the personnel trajectory.



## Tailing Detection

 Tailing Detection Alarm

 Tailing Detection Alarm



Normal Event

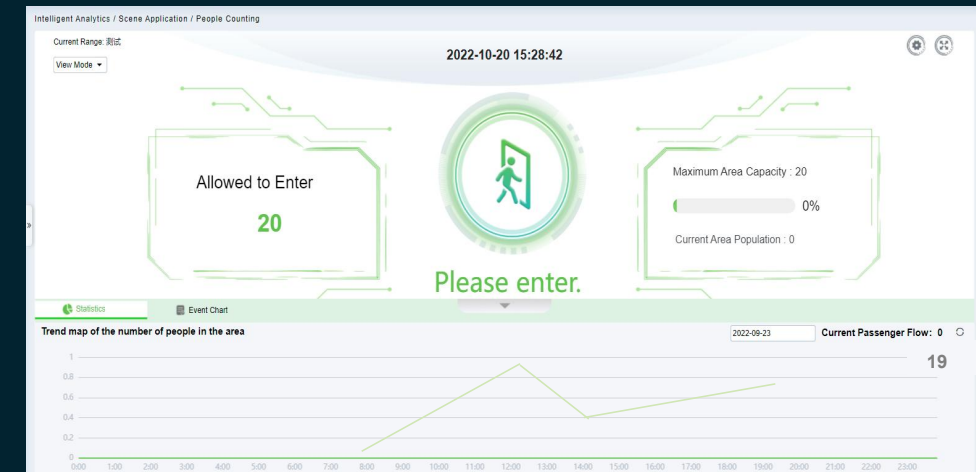
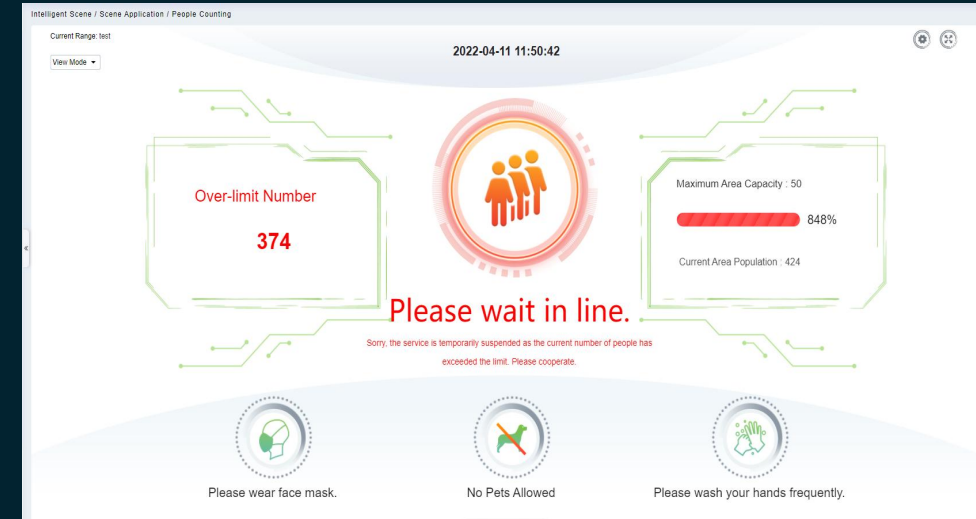


Tailling Event

- ✓ Video Facial recognition record can cross-check with access control record to validate a personnel visiting record.
- ✓ View event capture images or videos to evaluate the event.
- ✓ Quickly search and view a person trajectory through captured picture.

## People Counting

- Visitor flow statistics and analysis.
- Dynamically count the number of people in the monitor area and trigger an alarm when the number of people reaches the set value.
- When the number of people exceeds the set value, the screen will keep flashing.
- Suitable for supermarkets, coffee shops, bars, gyms and public transport.
- Maintain touchless operation during COVID-19 pandemic.

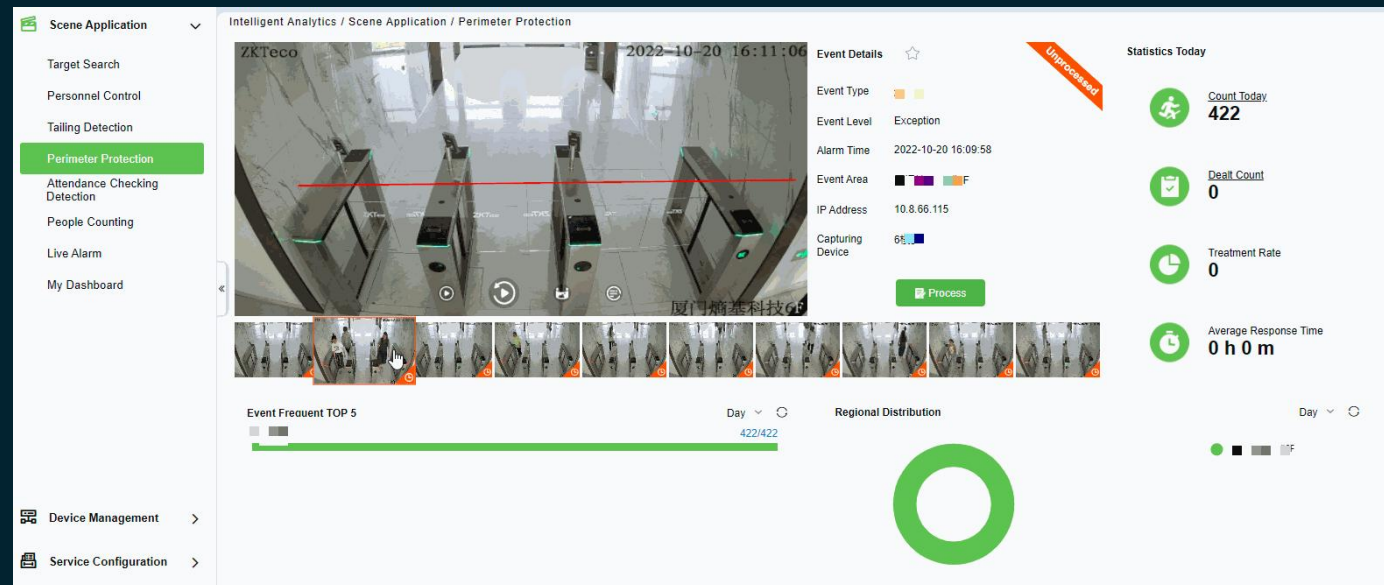


## Perimeter Protection

Real-time monitoring the Line crossing events



### Monitoring Center



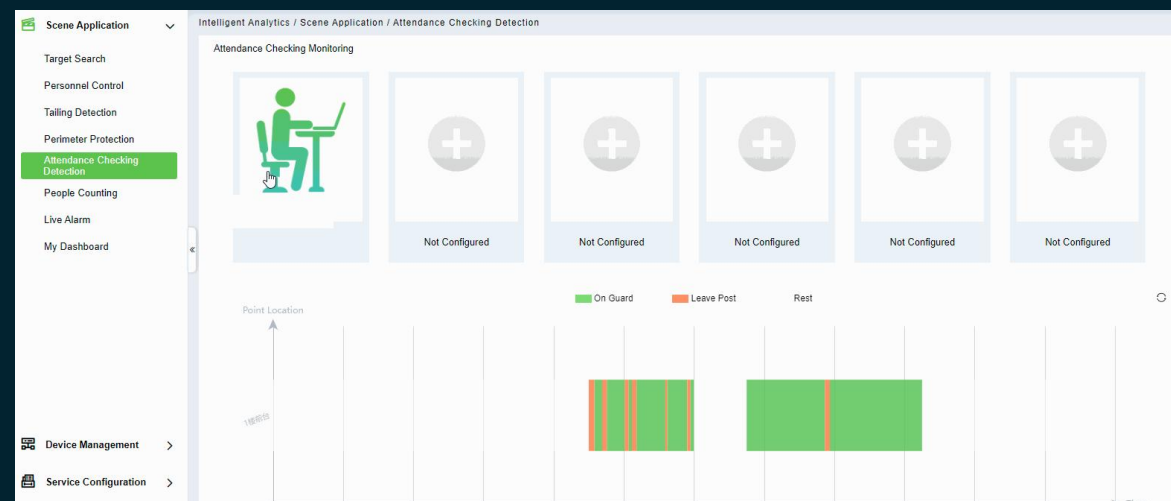
- ✓ Smart Dashboard dynamically displays the details of line crossing events.
- ✓ Statistics shows events occur frequency. Analyze areas where incidents occur frequently and remind security personnel to deploy.
- ✓ Suitable for park perimeter, fence, border.

## Attendance Checking

Real-time checking personnel attendance in the designated area



Monitoring Center



- ✓ The smart dashboard shows the employees on duty details.
- ✓ The video plays the details of the employees who are not at the workstation.
- ✓ It is convenient for managers to monitor the working status of employees in the key position.

Supported Hardware :ZKIVA-Edge T1

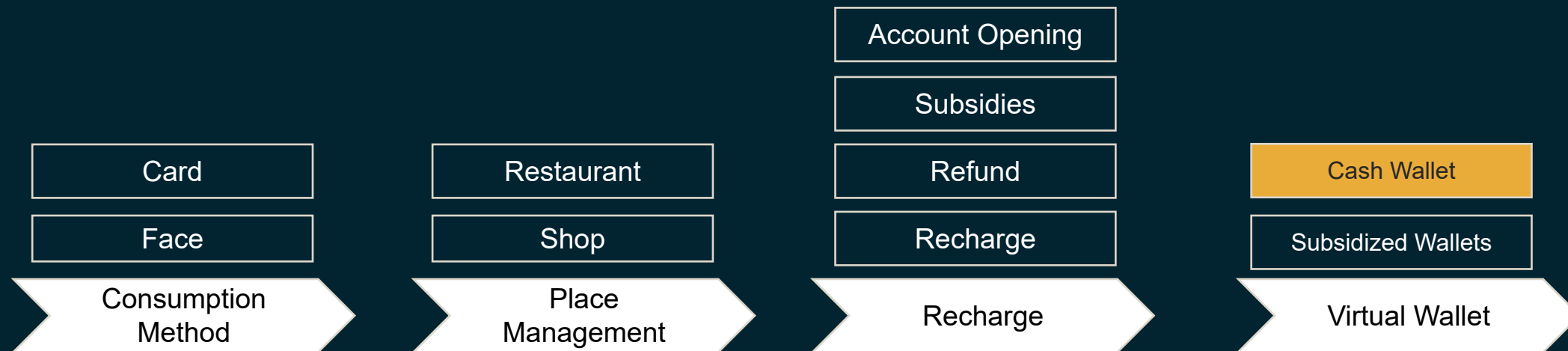


# Consumption



# Consumption Management

ZKTeco



## Consumption Accounting

Personal Statistics	Consumption Details
Income and Expenditure Summary	Restaurant Statistics
Meal Summary	Equipment Statistics

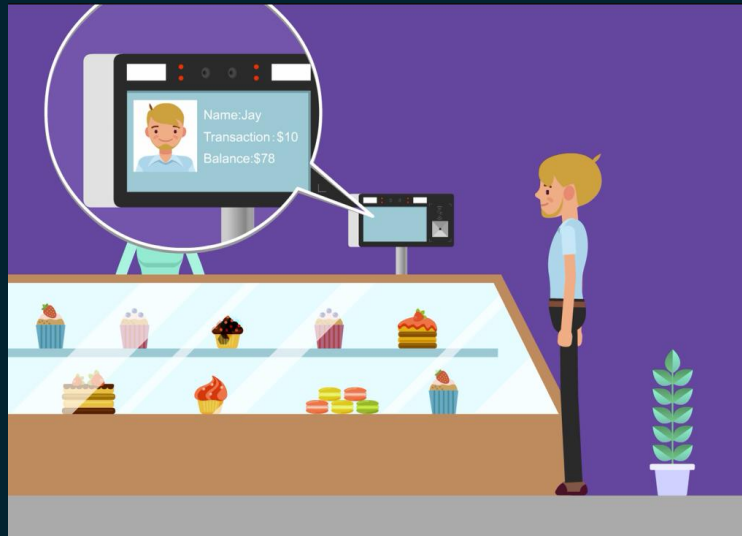
## Consumption Statistics

Counting Consumption	Instant Consumption
Fixed Value Consumption	Custom Amount
Product Management	Offline Bookkeeping

# Consumption Management

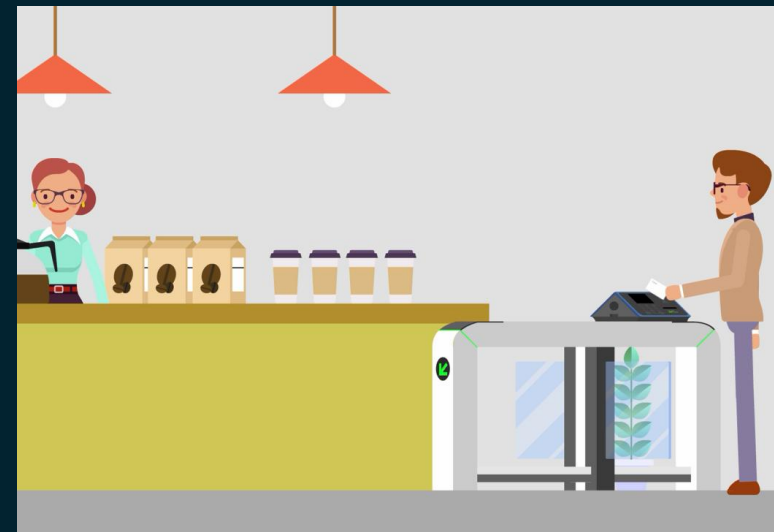
ZKTeco

## Face Consumption Module



Supported Device: ProMerc-300

## IC Card Consumption Module



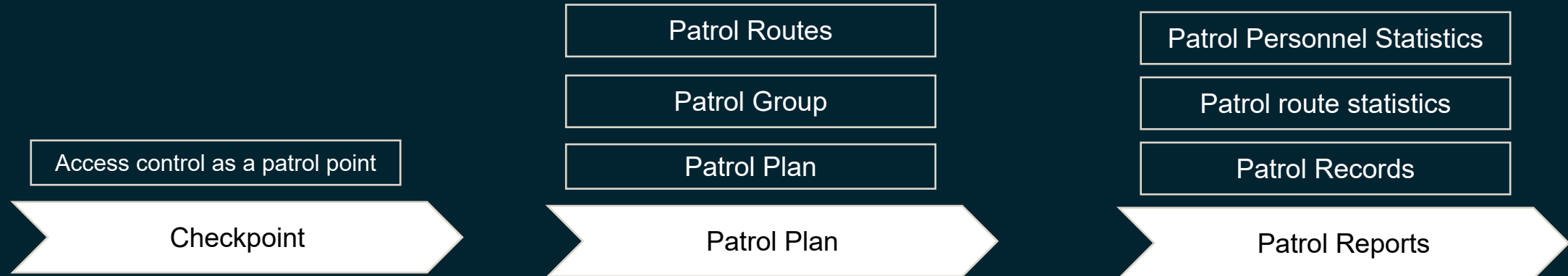
Supported Device: ProMerc -10 /20

## System Advantage

- Multiple billing modules: custom amount, fixed value, commodity, counting, timing, billing and other billing modes;
- Disconnected consumption: when the online consumption system is disconnected, the offline billing IC offline system supports full offline;
- Cash and subsidy dual wallet management: support for subsidy accumulation, zero management, and definable wallet priority level;
- Rich and diverse reports: support for statistics by individual/department/restaurant/equipment/meal, available in software, equipment, query.
- Consumption rules: daily consumption amount limit, daily consumption number limit, meal consumption amount limit
- Consumption mode: support counting, fixed value, amount consumption mode
- Subsidy management: support the accumulation of subsidies and zero subsidies; support batch import function
- Statistical reports: support for personal, department, restaurant, equipment, meal statistics

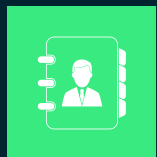


**Guard Patrol**



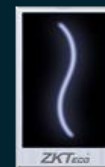
# Guard Patrol

ZKTeco



## Access control as a patrol point

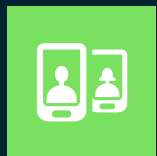
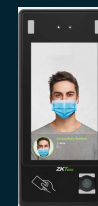
Access control device in each area can be set as patrol equipment, the reading head equipment patrol points of these access control equipment; auxiliary patrol, customers do not need to purchase additional patrol equipment



Reader



Access Control Device



## Real-time monitoring of the patrol route

Through the deployment and control of the patrol point, set a reasonable patrol route, the patrol personnel must strictly follow the patrol route to start patrolling.



Patrol point

Patrol point



## Flexible patrol rule management

According to customer needs, you can customize the patrol rules, including the patrol plan, patrol group, patrol route settings.



Patrol plan A



Patrol plan B



Patrol plan C



## Diversified report management

By recording the events generated by the patrol equipment, the normal and abnormal conditions and the patrol personnel's patrol statistics generate the corresponding reports



Patrol route statistics

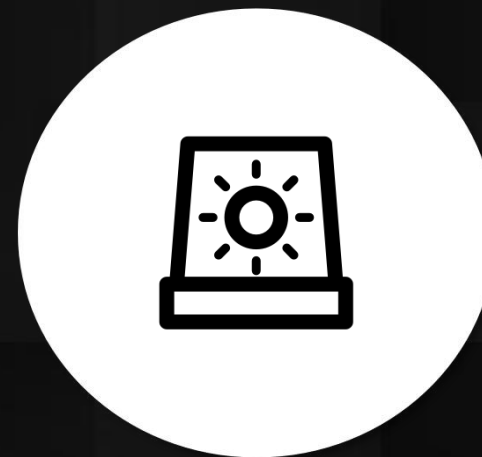


Patrol personnel statistics



Patrol record statistics





# Intrusion Alarm

# Intrusion Alarm

ZKTeco

AJAX

RISCO

BOSCH

Brand Integration

Time Zone Mgt

Bypass Management

Zone Arming

Arming and Disarming

Alarm linkage message  
notification

Alarm-linked access  
control

Access control linkage  
arming and disarming

Linkage

Alarm Management

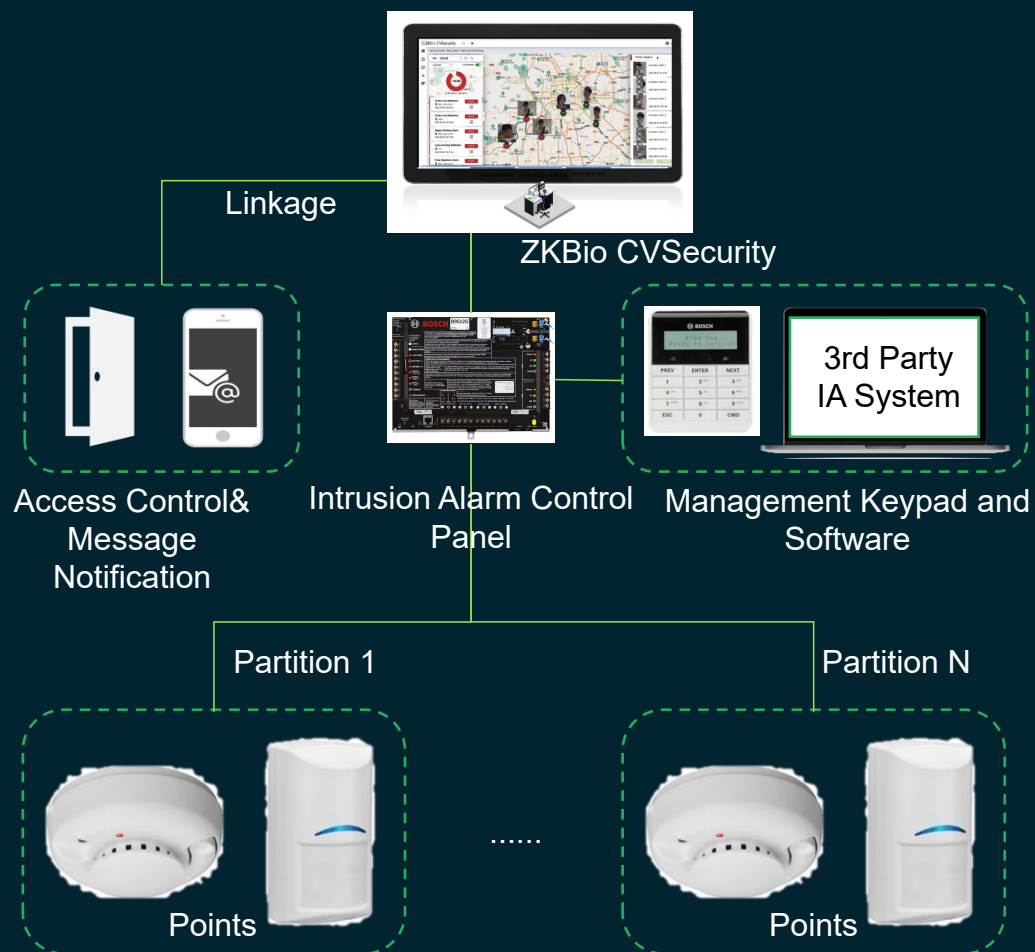
Real-time alarms

GIS map view alarms

Historical Alarm  
Search

# Intrusion Alarm

**ZKTeco**



Integrated Brand and Model:

**BOSCH** B series B6512/B5512/B4512/B3512

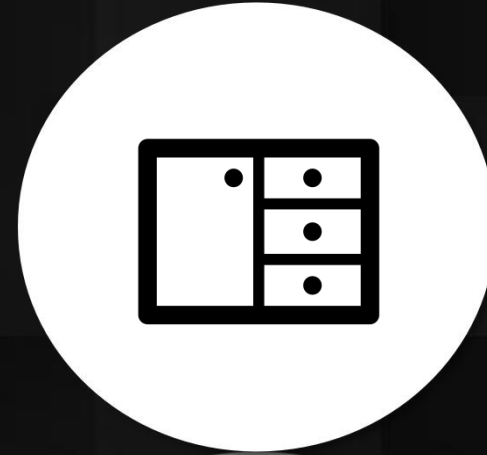
**BOSCH** G series B9512G/B8512G

**RISCO** LightSYS LightSYS32/LightSY50

## Features:

- Integrates with the Alarm Control Panels to monitor and control the partitions and points
- High-level of integration through private protocol
- Support displaying defense zones on the map
- Fully integrated with ZKBio CVSecurity, supports linkage and global linkage functions:
  - Access control linkage to disarm or arm
  - When Intrusion Alarm is generated, linkage open or close the door, or send a message notification

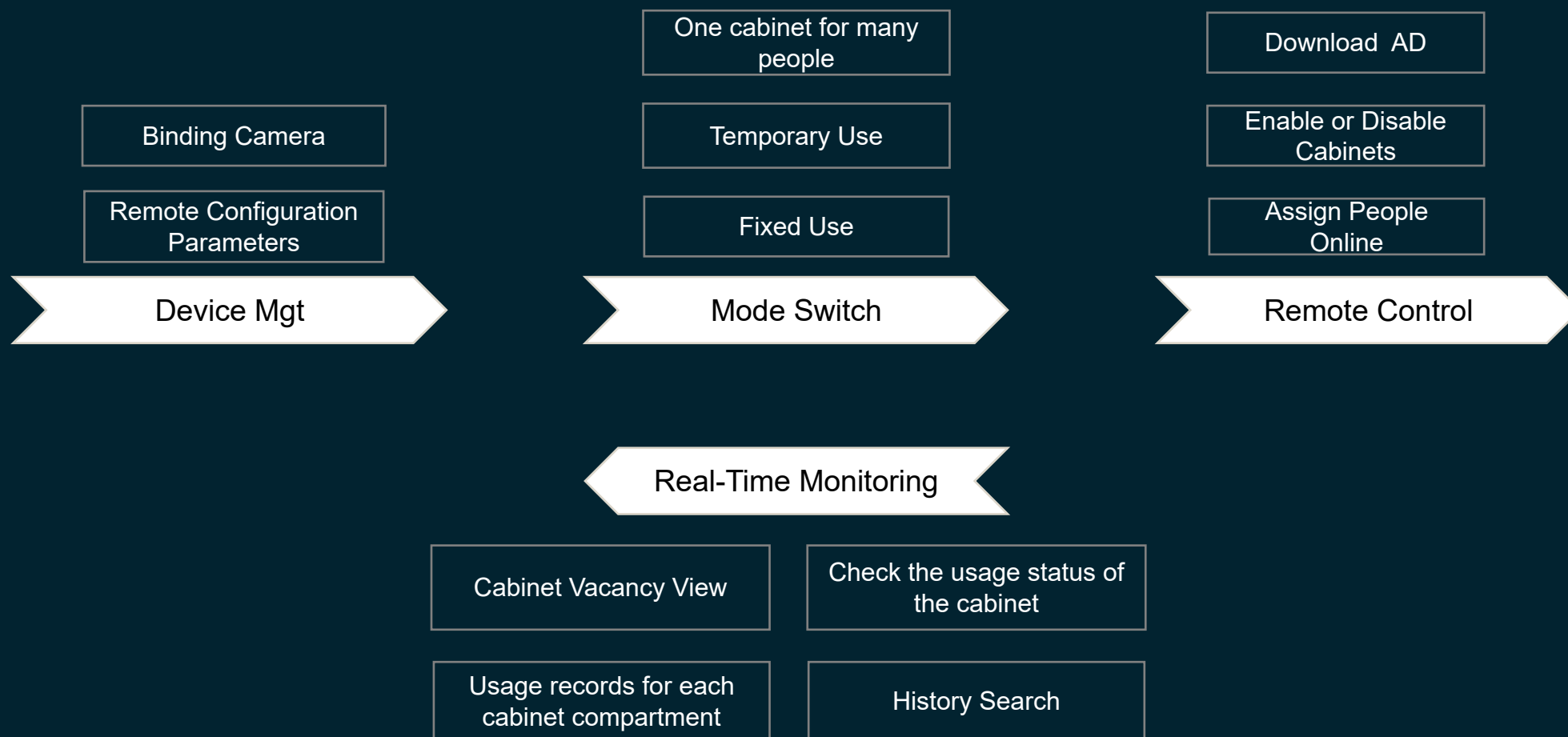
**ZKTeco**



# Locker Management

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ZKTeco





# Locker Management

ZKTeco



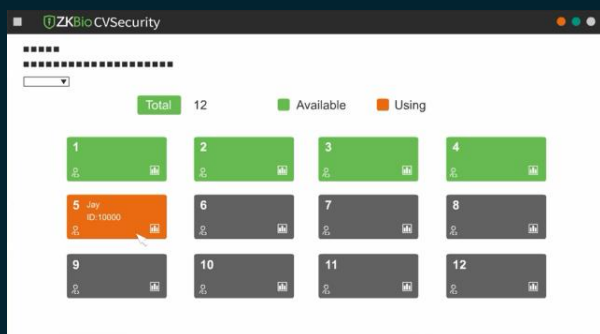
Contactless facial recognition. Your face is the key. Users no longer need to carry a physical key, card or QR code to unlock the door.



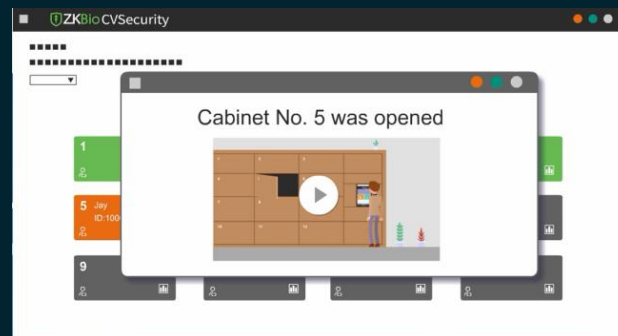
Remote advertising placement to drive foot traffic



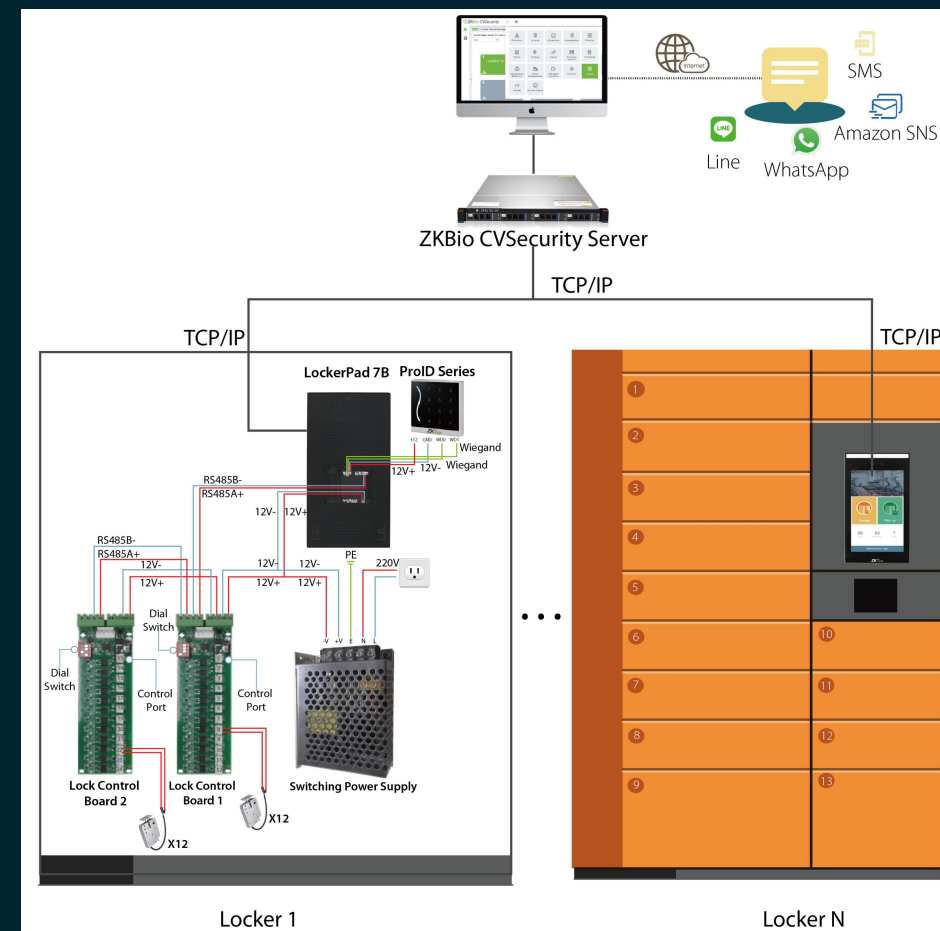
Anti-theft alarm and video linkage. ZKBio CVSecurity will trigger video linkage and message notification to administrators if someone violently opens the cabinet or violently dismantles the machine.



Parcels and smart locker events can be track and trace



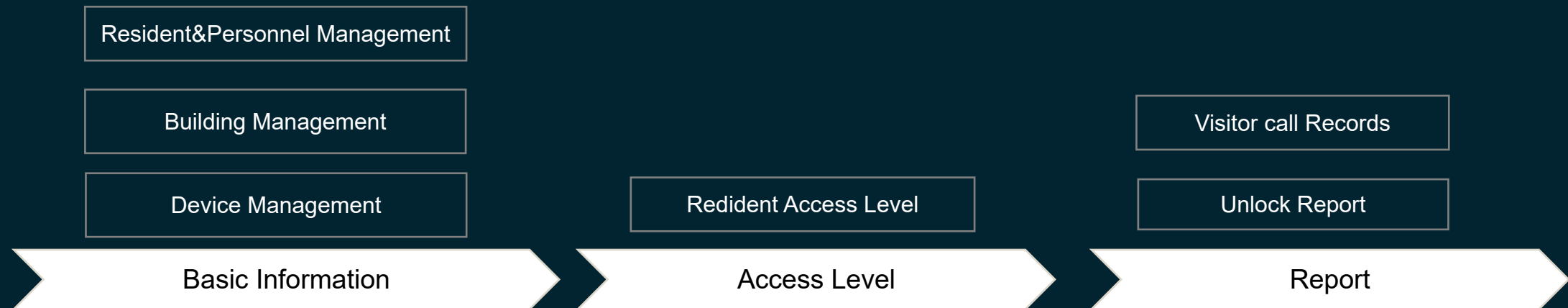
Assign cabinets to personnel online, and Visual display of cabinet usage



Device : Lockerpad-7B



**Video Intercom**



# Video Intercom

ZKTeco

## Management Office



- Personnel Management
- Device Management
- Personnel Access Level
- Visitor Calling Records &Unlocking Records



Indoor Station 3



Indoor Station 2



Indoor Station 1



Door Station



Indoor Station 38



Indoor Station 98



ZKBio CVSecurity  
APP



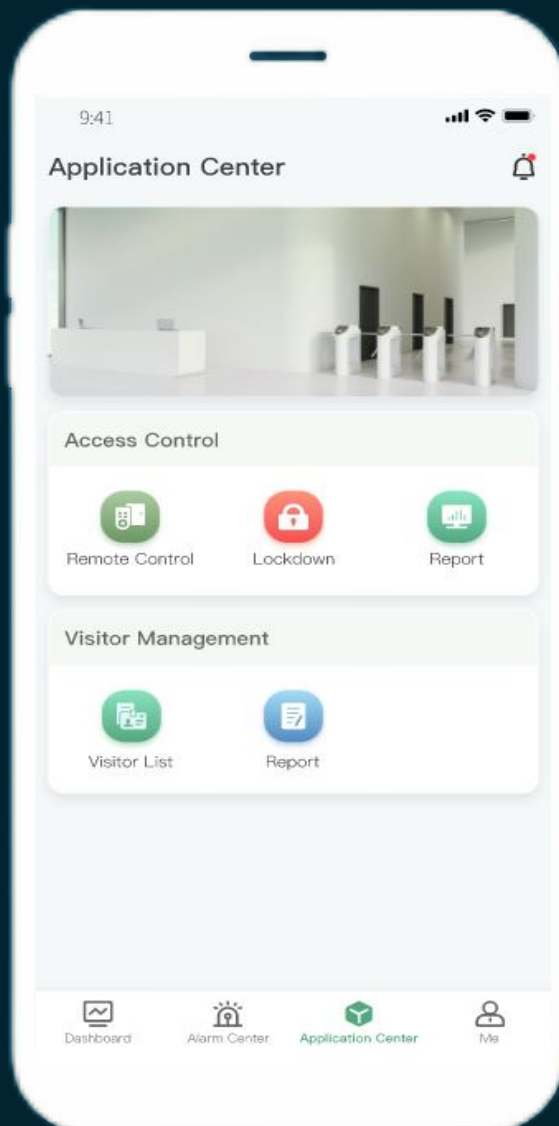
Center Management Device



**Mobile APP**



## Administrator Mobile APP



01

### Remote Control

Remote unlocking of doors and cancellation of alarms



02

### Lockdown

Emergency locking or unlocking of doors in pre-programmed groups



03

### Report

View all open door records



04

### Visitor List

View visitor records and register visitors



05

### Visitor Report

View Visitor Reports



06

### Dashboard

Personnel, visitor and device aggregation and view device status

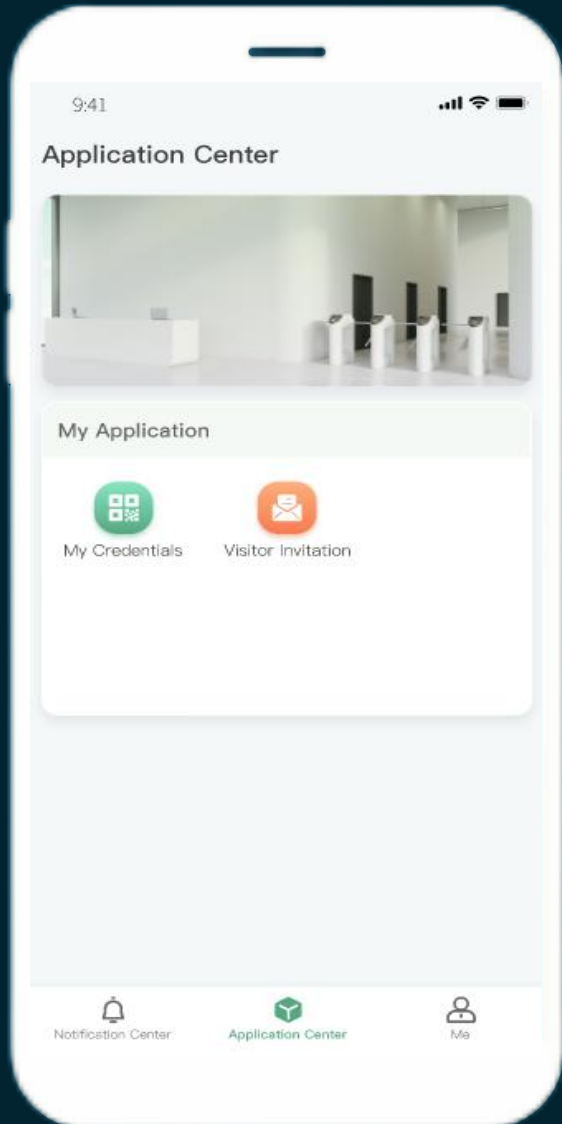


07

### Alarm Center

Viewing and processing alarm events

## Personnel Mobile APP



01

### My Credentials

During the access control time period, personnel can use dynamic QR codes to verify on the access control device



02

### Visitor Invitation

Guest invitations and managing my invitation history



03

### Notification

The first stage is only verification message notification, which is applicable to the school programme, where the parent app receives the student's entry and exit records in the background



04

### ME

Personal settings

# THANK YOU !

➤ ➤ ➤ Biometric + Computer Vision

Security | Visualization | Integration

➤ ➤ ➤ Web-based Software

