



科学城(广州)信息科技有限公司  
Science City (Guangzhou) Information Technology Group Co., Ltd.

# Smart Community Solutions





## Smart Parking Solution



## Smart Monitoring & Security Solution



## Smart Community Platform



# Smart Parking Solution

Efficient, Secure, Intelligent

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## ■ Off-street Parking Background

## ■ Off-street Parking Solution

- Solution Overview
- Vehicle Entrance & Exit
- Indoor Parking Guidance
- Outdoor Parking Guidance
- Off-street Parking Management
- Success Cases



# Off-street Parking Scenarios

## Off-street parking

*Wikipedia:* ... in contrast to parking on a street.  
*Parking network:* ... usually parking facilities like garages and lots. ... can be **both indoors and outdoors**.

## End users



Airport parking lot



Shopping mall parking lot

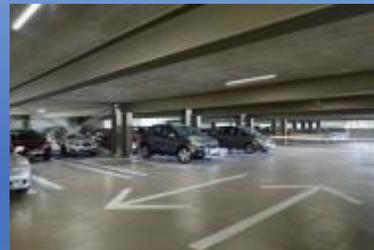


Private parking lot  
(Company, factory, residential hall)

## Scenarios



Vehicle entrances & exit



Indoor parking areas



Outdoor parking areas

# Challenges



**Low efficiency for  
Artificial entrance & exit**



**Hard to find parking  
space**



**Lack of monitoring  
for parking lots**



**Hard to find the car**



**Low usage rate with  
weak revenue growth**



**High labor cost**

# Requirements



# Off-street parking solution



## Entrance & Exit Control

Base on the ANPR technique to replace manual entrance control to enhance the efficiency.



## Indoor & Outdoor Parking Guidance

Automatic calculate the number of available parking spaces in parking areas, and show in the screen. Guide driver to find available spaces.



## Indoor Vehicle Locating

Base on the ANPR technique to locate vehicle indoor position through kiosk to display.



## Comprehensive Surveillance

Provide comprehensive video surveillance as evidence if an accident happen.



## Unified parking management system

Control everything on the e-map of PMS to reduce O&M cost and also provide BI for operator to enhance the revenue.



● **Best experience**

● **Enhanced safety**

● **Revenue Increased**

● **Low Cost**

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# Solution Overview

## Vehicle Entrance & Exit

Available Spaces Display



Outdoor LED Screen

ANPR Open Boom-gate Info. Display



ANPR Camera & Screen

High speed Boom-gate



Anti-smashing & Radar

Intercom Cardswiping



VTO Kit

## Operation Center

Parking Management



Platform

Central Storage



EVS

## Outdoor Parking Area

Parking Space Detection



Outdoor Detection Camera

Vacant Space Guidance



Outdoor Guidance Sign

## Indoor Parking Area

Parking Detection Recognition



Indoor Guidance Camera

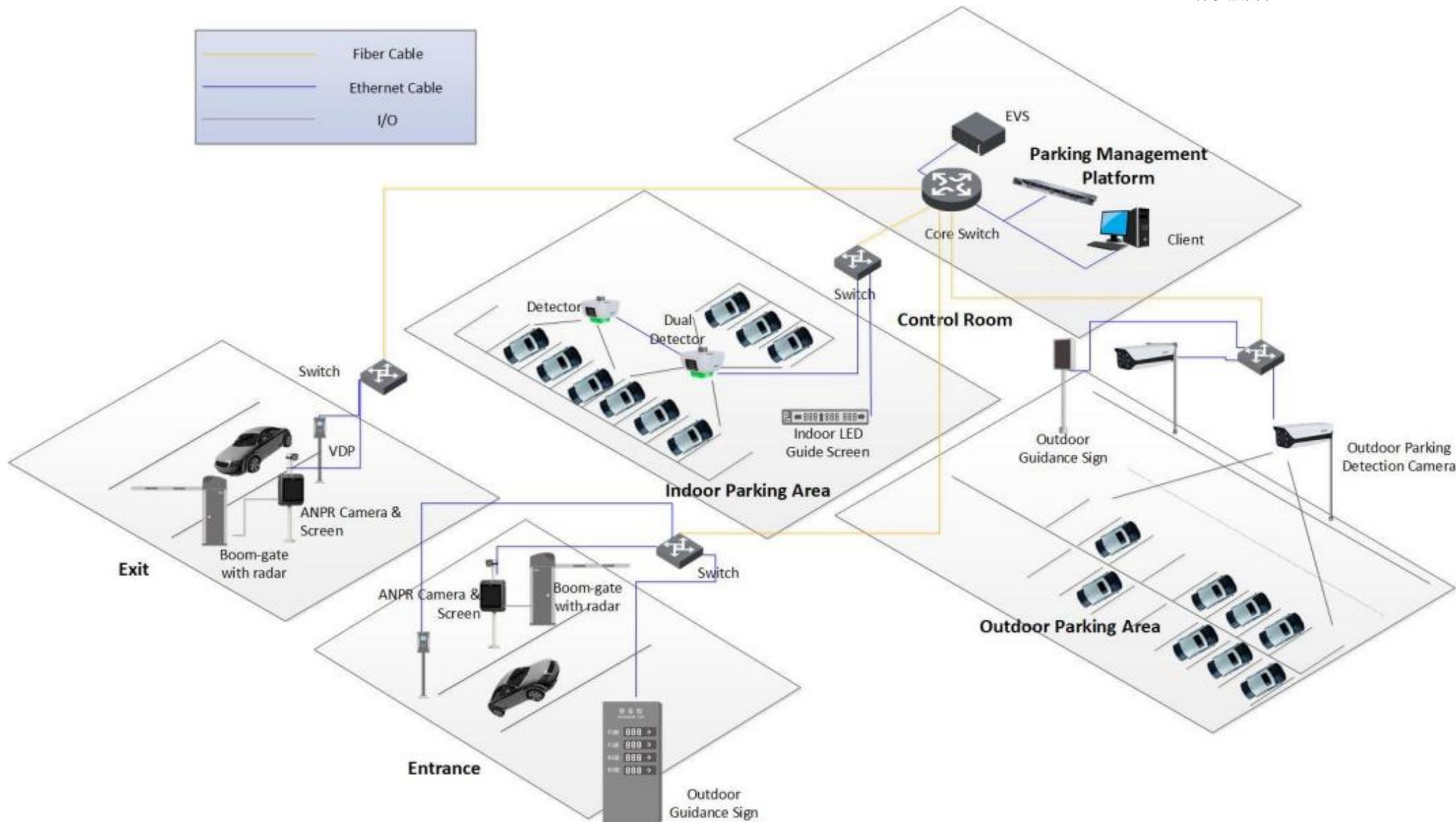
Vacant Space Guidance



Indoor Guidance Sign



# Solution Topology



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## ■ Off-street Parking Background

## ■ Off-street Parking Solution

- Solution Overview
- **Vehicle Entrance & Exit**
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- Outdoor Parking Guidance
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# Attract Vehicle Parking



## Highlights



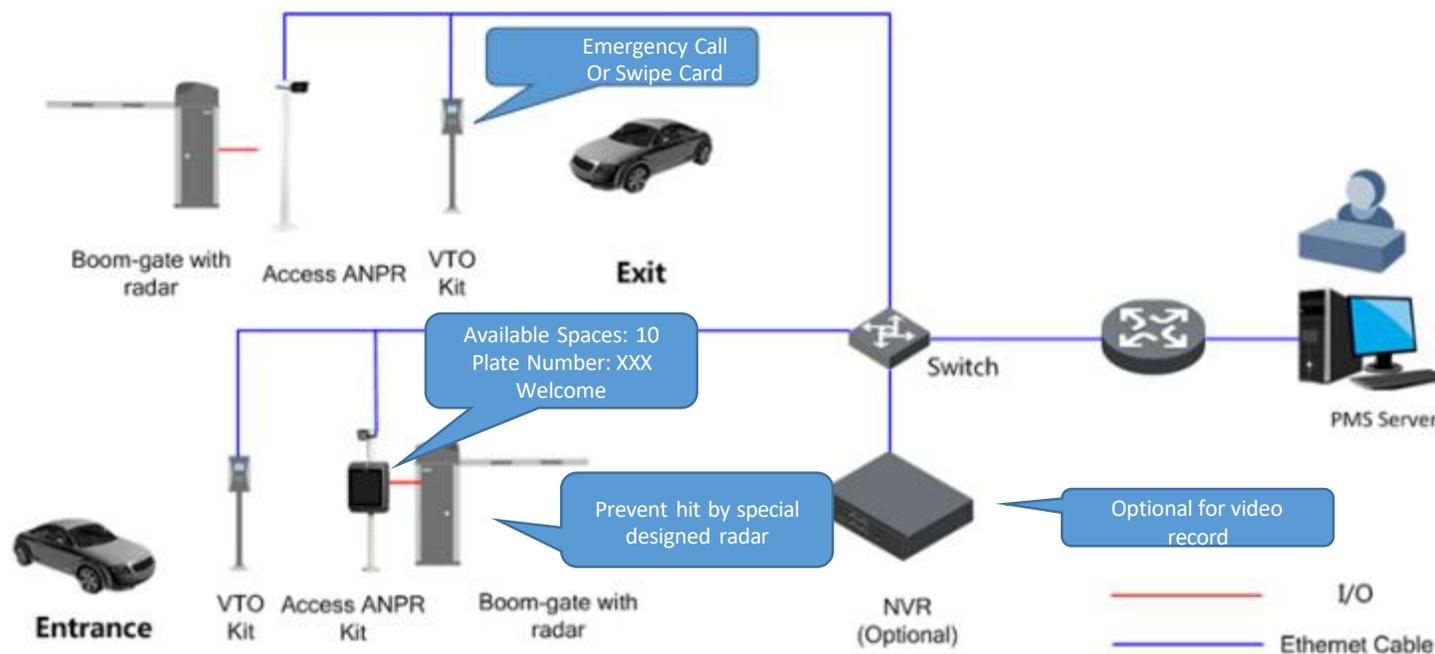
Vacant number display before enter



Attract drivers to park

# Vehicle Entrance & Exit

## Solution



## Highlights

- ✓ **Improve Efficiency & Experience :** detection vehicle from video: 98%. Control boom-gate by ANPR. No need stop.
- ✓ **Information display:** Integrated LED screen will show notice information for drivers.
- ✓ **Exception handling:** Press VTO button once needed; Swipe card to pass.
- ✓ **Enhance safety:** Capture and record every passing vehicle. Search the records by plate.
- ✓ **Easy installation to save time and cost:**
  - 1, Integrated design ANPR Kit with screen
  - 2, No need to close access for burying loops

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## ■ Off-street Parking Background

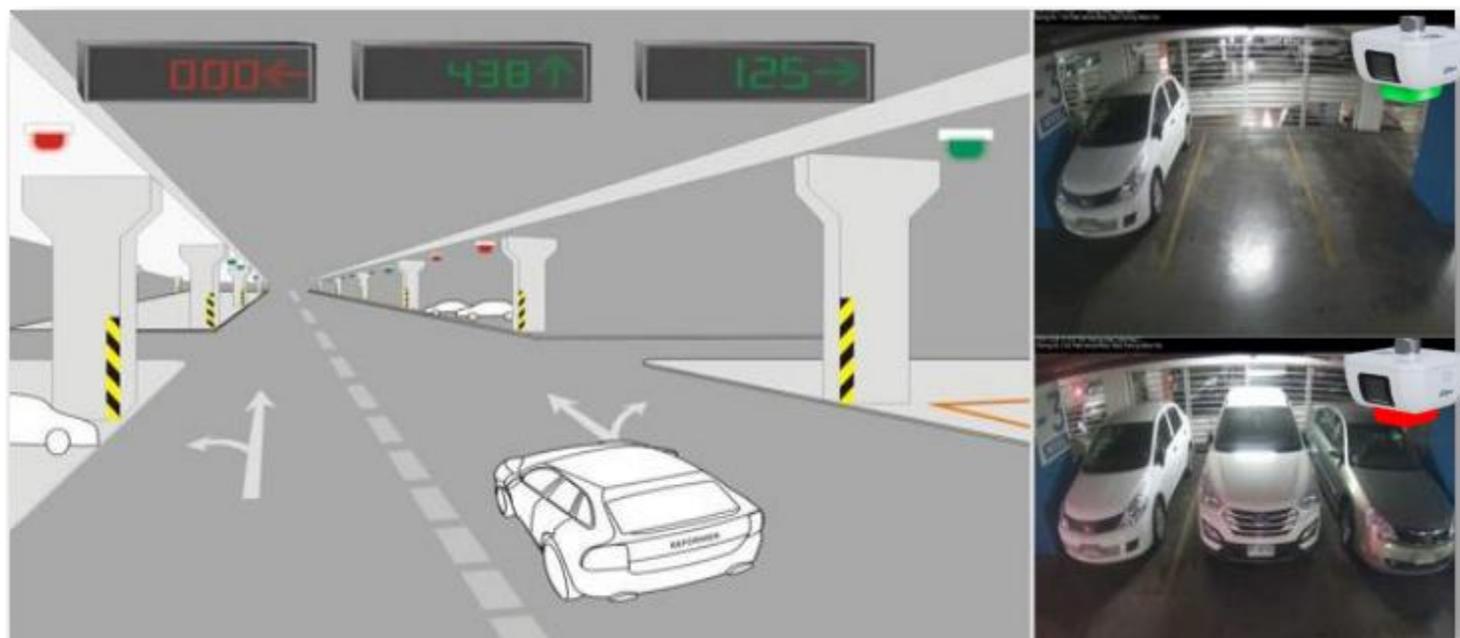
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# Indoor Parking Guidance

## Solution



## Highlights



### Guidance to Free Area

- Show the number of available parking space in each direction.



### Indicate to Free Spot

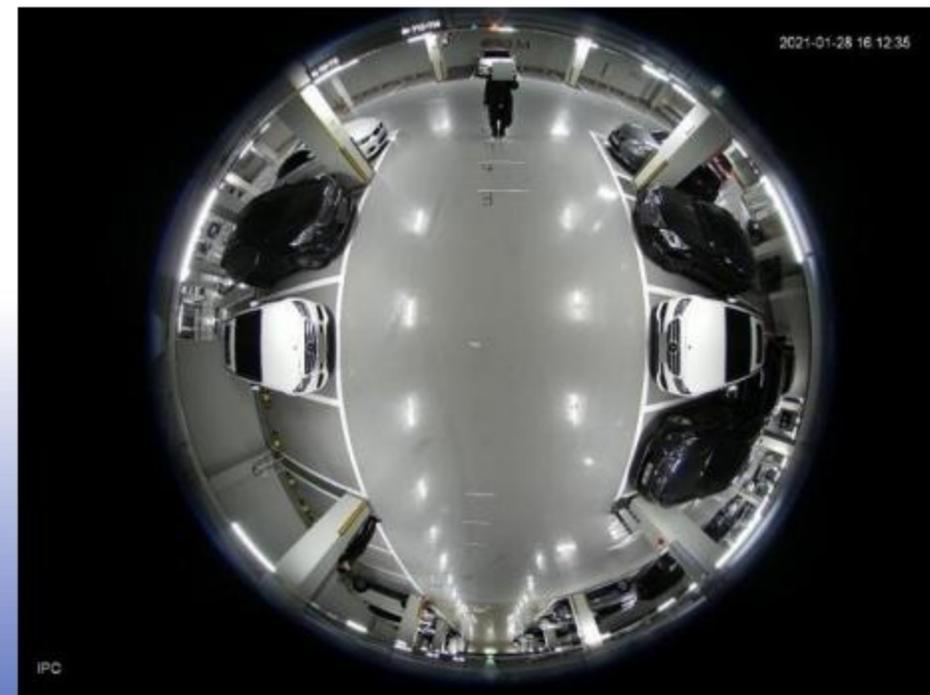
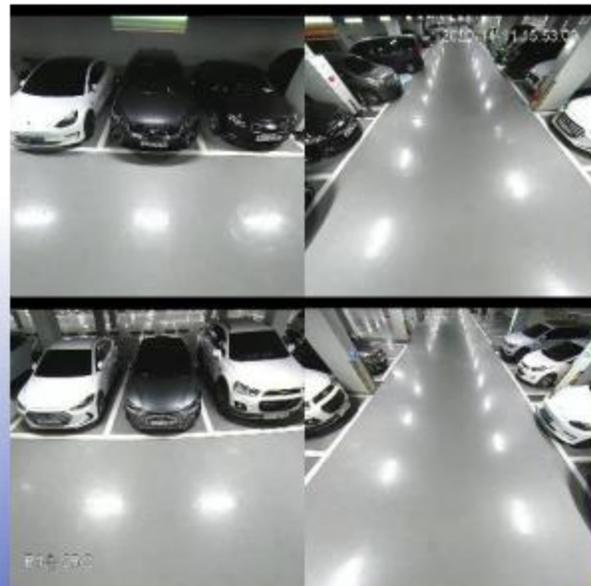
- Integrated indicate light of detection camera will show if the parking spot is occupied or not.
- Seven colors light could show different kinds of parking space

ANPR

### ANPR

- Identify the current license plate of the parking space

# Indoor Parking Guidance - Fisheye Parking Guidance Camera I



## Clear Guidance

Six (6) parking spaces coverage

Seven (7) colors available

## AI Algorithm 1+1

Parking spaces detection (up to 6 vehicles)

License plate recognition (up to 6 vehicles)

Multiple dewarp display modes

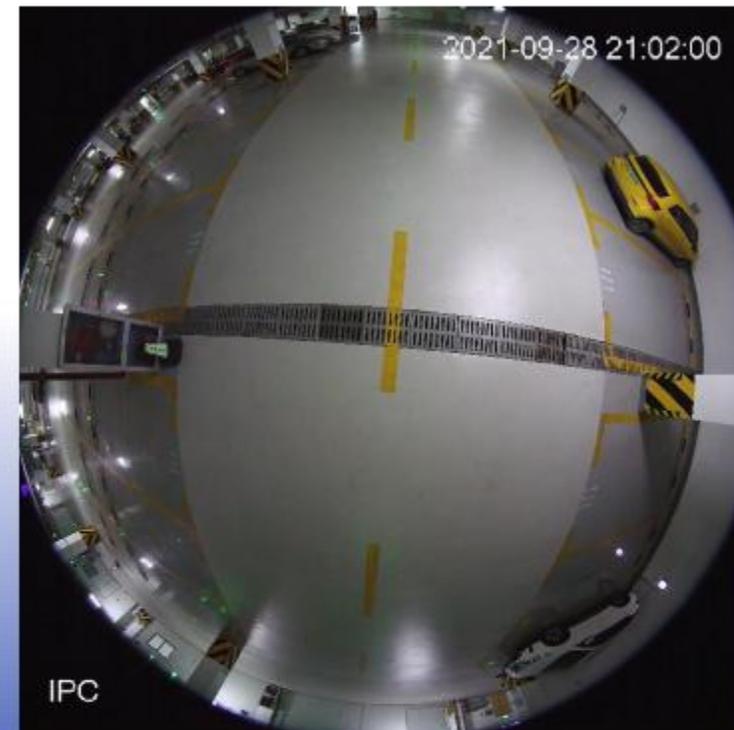
## Complete Surveillance

Parking space monitoring

Drive lane monitoring

360-degree monitoring

# Indoor Parking Guidance - Fisheye Parking Guidance Camera II



## Clear Guidance

Twelve (12) parking spaces coverage

Seven (7) colors available

## AI Algorithm

Parking spaces detection (up to 12 vehicles)

Multiple dewarp display modes

## Complete Surveillance

Parking space monitoring

Drive lane monitoring

360-degree monitoring

Special PMS version required

2.7.01.02.02727

General\_PMS\_Eng\_Basic\_V1.005.9700006.0

.R.20210908.zip

# Indoor Parking Guidance - Scene Recommendation

## Recommended

Completely indoor and no affected elements

## OK

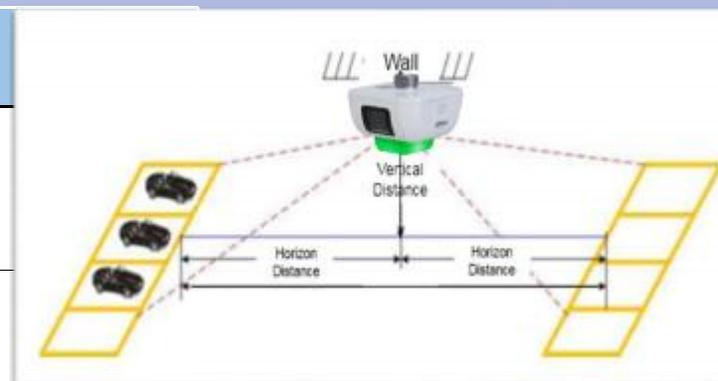
Semi-outdoor, all space is indoor, not much affected elements

## Not Recommended

Most space is outdoor, green plants / sunshine shadow / water stains cause complicated background which affects vehicle detection and license plate recognition



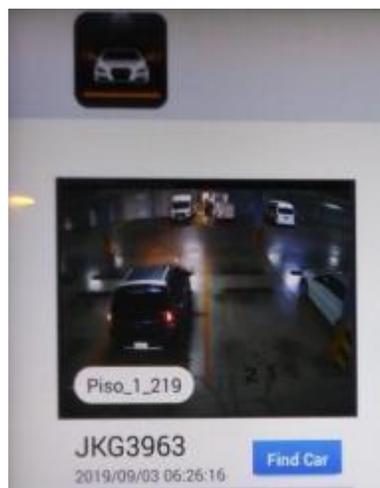
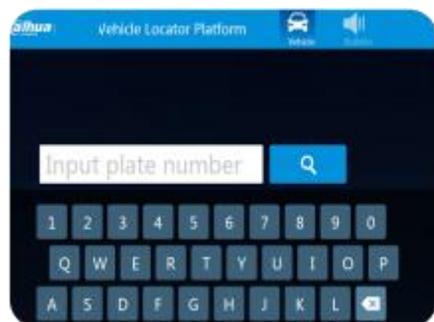
Model	Lens	Horizon Distance	Vertical Height	Monitor Range
ITC214-PH5B-F3/F6 Single lens for 2 spaces	3.6mm	3.0~4.7m	2.1~2.6m	Cover 2 parking space width is 5m
	6mm	4.8~6.5m		
ITC414-PH5B-F2/F3 Single lens for 3 spaces	2.8mm	2.7~4.5m	2.1~2.6m	Cover 3 parking space width is 7.5m
	3.6mm	3.5~5.5m		
ITC414-PH5B-TF2/TF3 Dual lens for 6 spaces	2.8mm	2.7~4.5m	2.1~2.6m	Each side cover 3 parking space width is 7.5m
	3.6mm	3.5~5.5m		



License plate pixels 100~180

# Find My Car for Indoor Parking

## Solution



## Highlights



### Locate Vehicle

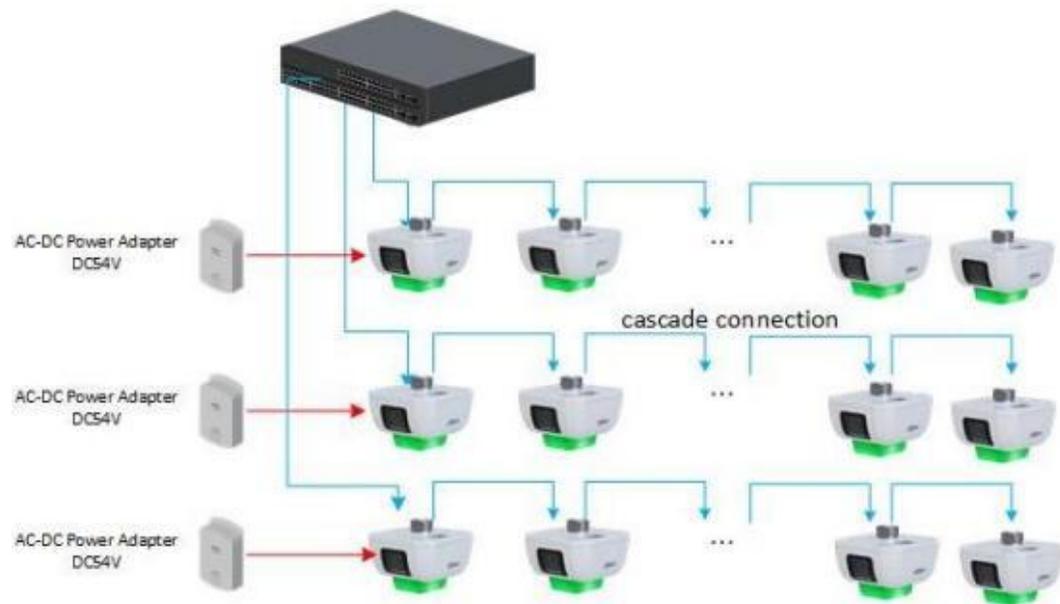
Touchscreen kiosks for self-help searching



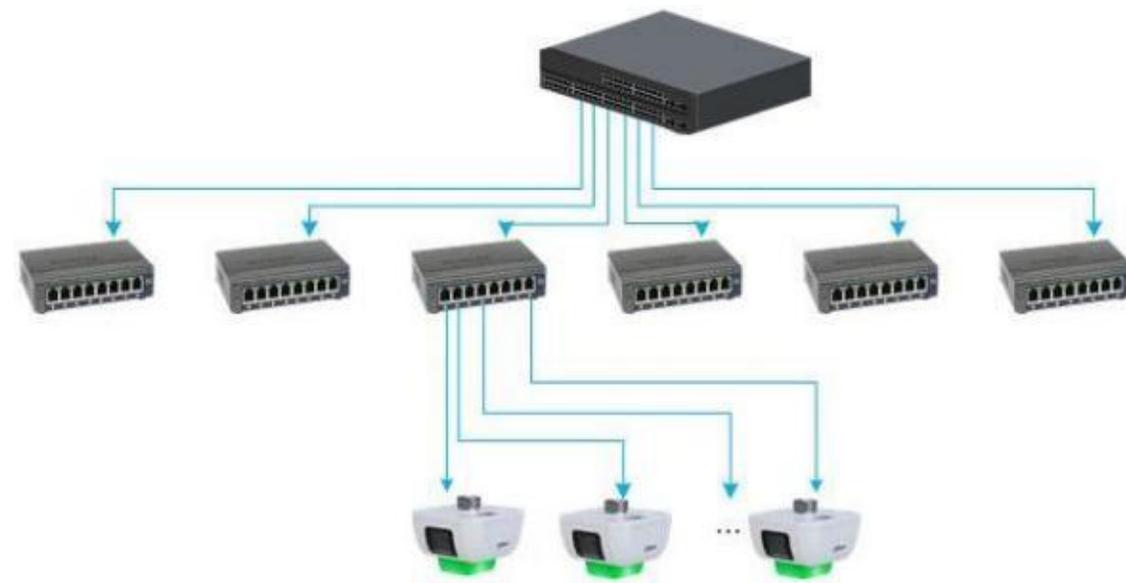
### Fuzzy search by plate number

Search vehicle with plate, provide plate cutout for confirmation

# Special Design Device to Save The Deployment Cost



PON Design



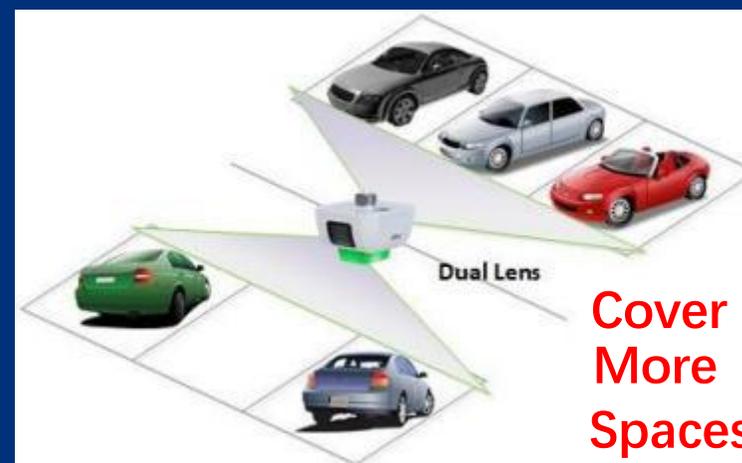
PoE Design (Support via -PoE model)

## PON (Power on Ethernet) Cascade Connection:

- Reduce UTP cable deployment and cost (83%)
- Reduce the quantities of switches
- Reduce the cost of cable tray (63%)
- Reduce the power cable

## Parking Cameras Connection Limit:

- Single lens parking camera, no more than 6pcs cameras in one line
- Dual lens parking camera, no more 4pcs cameras in one line



Cover  
More  
Spaces

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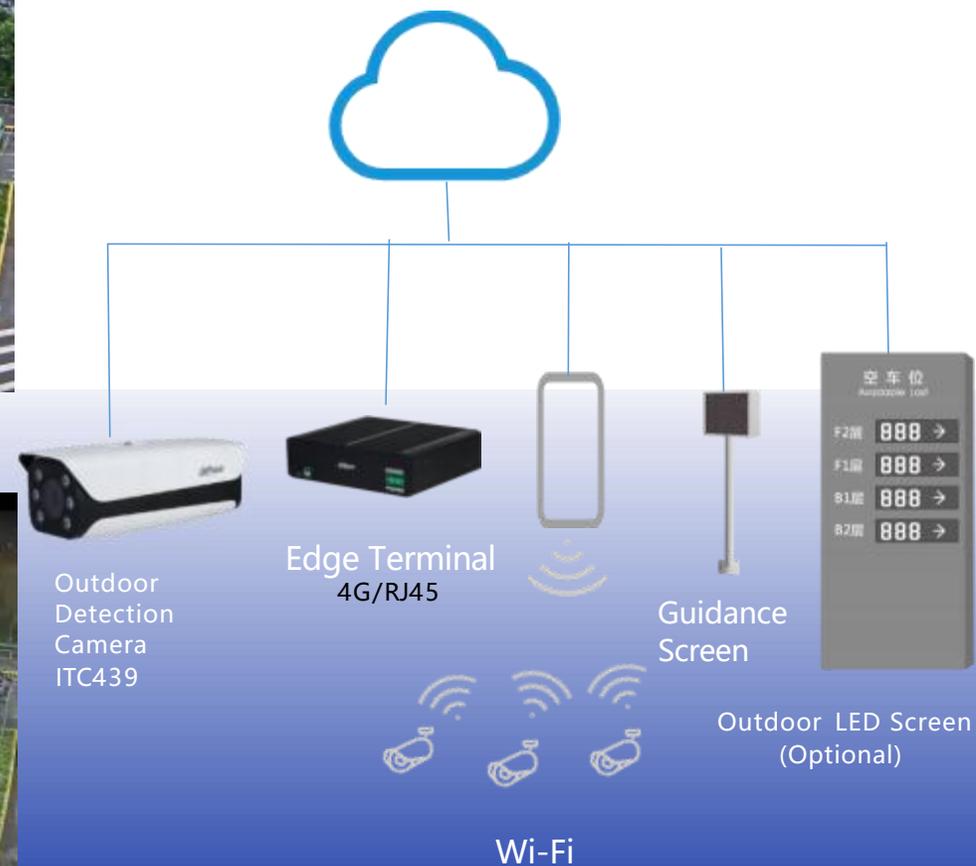
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# Outdoor Parking



# Outdoor Parking



50

## Large Coverage

Detect up to 50 parking spaces

Lo

## Low Bandwidth

AI embedded inside camera, no back-end server required

C

## Availability Auto-counting

Use for data analysis  
Precise Guidance (Optional)

24\*7

## 24\*7 Working Design

Temperature -30。 C – 65。 C  
\* Min Environment light 10lux



Parking Space Details

Outdoor Parking Camera

Entrance Camera

Guidance Screen

Availability Screen

Device 1\_Channel 1

Name: Device 1\_Channel 1

Manufacturer: Dahua

Organization: Root

车位1

车位编号: A998

车位状态: 占用

车牌号: 浙AZOE73

归属场区: Dahua

设备名称: 车检器1

设备类型: ITC室外车检器

车检器1

设备名称: East Gate

归属场区: Dahua

车位数量: 3

设备类型: 室外车检器

车位统计模式: 余位模式

East Gate

点位名称: East Gate

归属场区: Dahua

入口数量: 1

出口数量: 1

余位引导屏

LED-1: ← 0 0 0

LED-2: ← 0 0 0

LED-3: ← 0 0 0

屏名称: 余位屏1

屏类型: 余位引导屏

归属场区: Dahua

屏数量: 3

余位引导屏

屏名称: 余位屏1

屏类型: 余位引导屏

归属场区: Dahua

屏数量: 3

LED-1: 0 0 0 0

LED-2: 0 0 0 0

LED-3: 0 0 0 0

LED-4: 0 0 0 0

LED-5: 0 0 0 0

LED-6: 0 0 0 0

东名筑地下室2#负一层平面图 (拟修改后)

建筑面积: 11184.68m<sup>2</sup>

总车位数: 386个

微型车位数: 12个

折算成标准车位数: 382个

# Outdoor Parking



Outdoor Parking **Detection & Recognition** Camera

Model III, **ITC439** in **LPR mode**

Real Project Site

Installation Height 3m, Distance 7m (Reference Only)

Coverage 2-3 parking spaces

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## ■ Off-street Parking Background

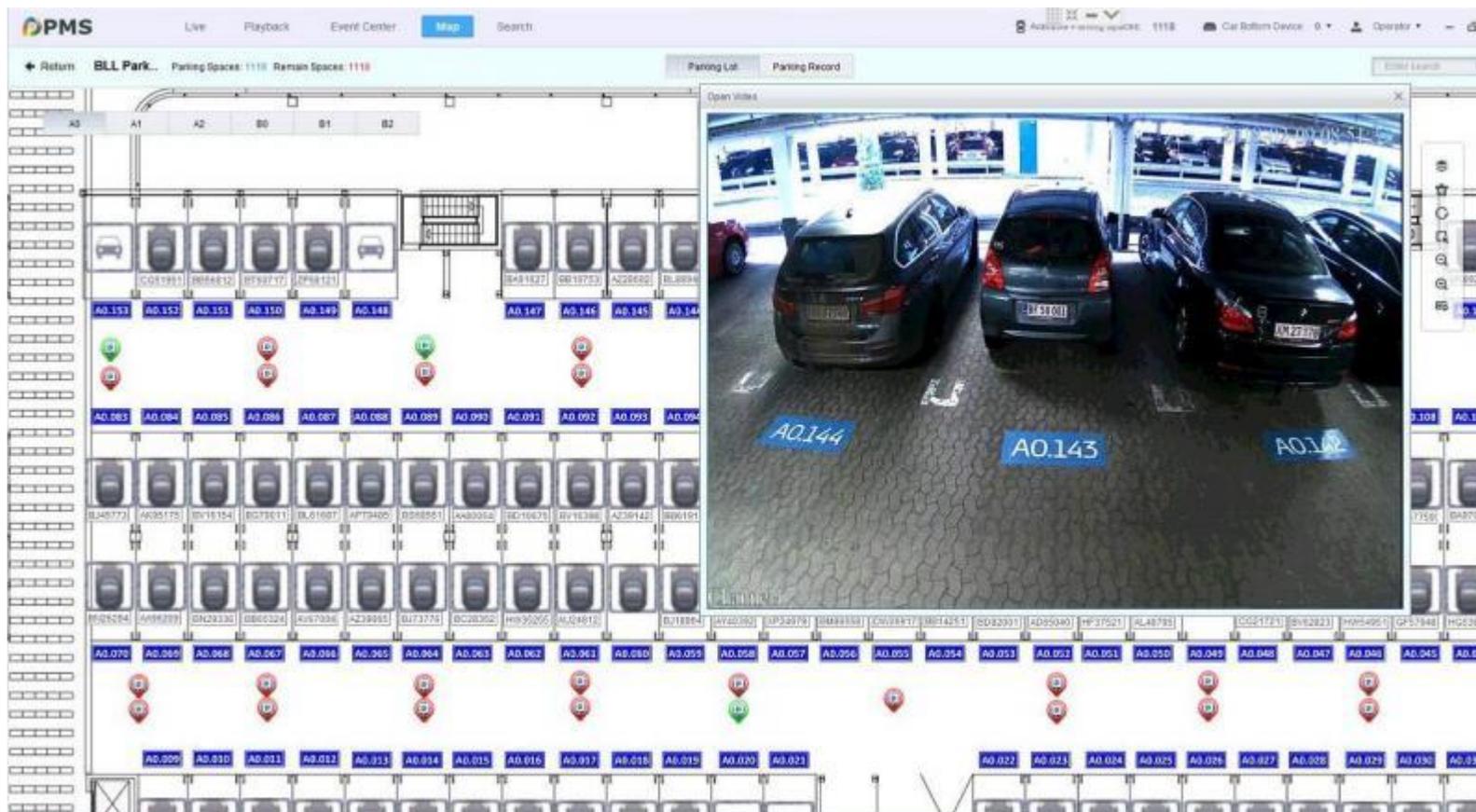
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# Unified Parking Management Platform

## Solution



Controlling Everything on the E-map

## Highlights

- ✓ **Comprehensive Surveillance:** Real-time video, image preview and playback
- ✓ **Parking Space Info:** Space status, vehicle plate and picture, parking video record
- ✓ **Entrance & Exit Info:** Enter & exit history log, videos record
- ✓ **Smart Search:** Search the video and image by date/time/license plate.

## Solution

## Highlights

### Parking rate statistics

- Occupied parking space
- Total parking spaces
- Rate

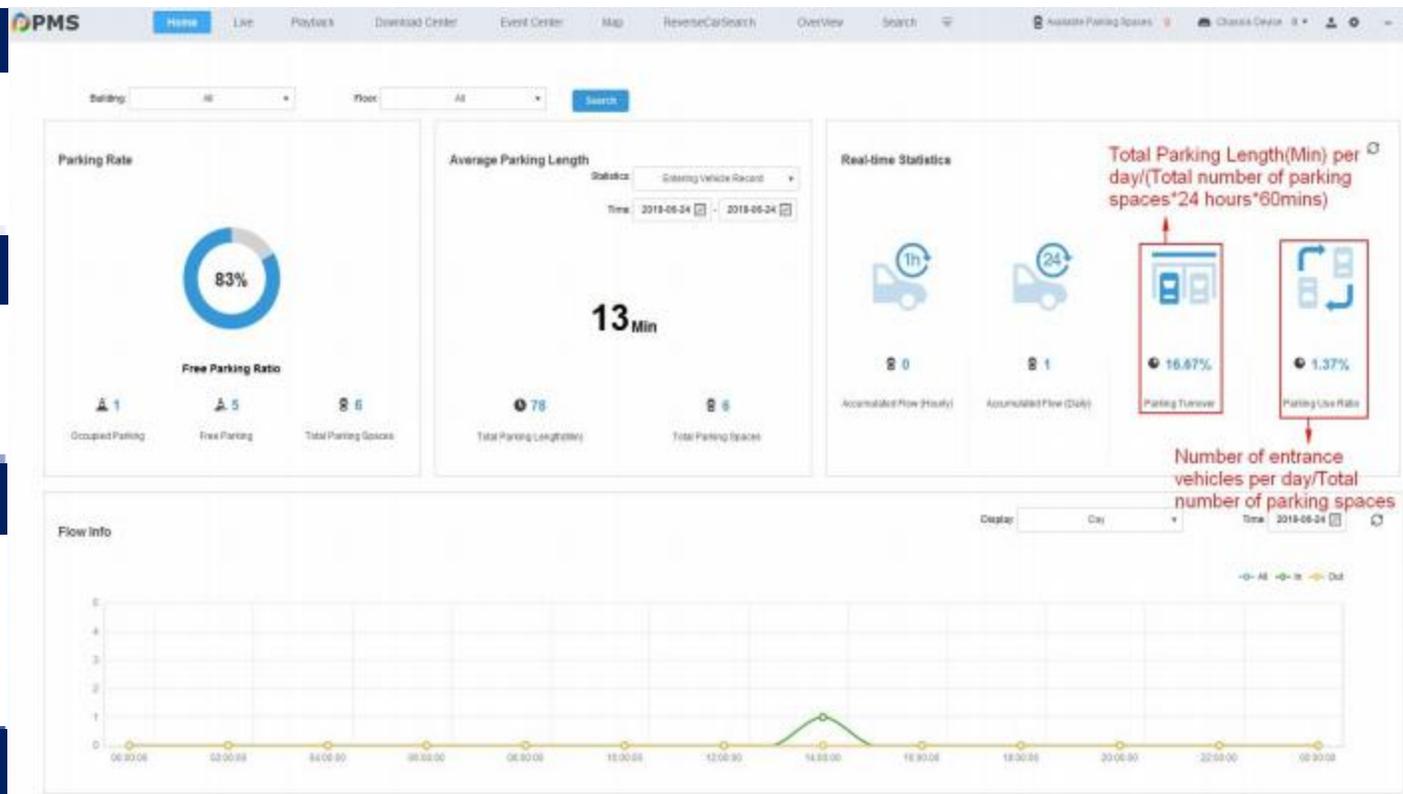
### Average parking length

- Two statistical methods
- Total length of parking
- Total parking space

### Real-time statistics

- accumulative vehicle flow within 1 hour or 1 day
- Berth turnover
- Utilization rate of parking lot

### Entrance/exit information



Make differentiated price



Provide VIP services



Make coupon policy

Increase Revenue by more ways based on BI

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# Success Cases - Meskel Square Underground Parking Project, Ethiopia

## New & Bright, Secure & Convenient, Open & Transparent

### Project Overview

Project is located at the Meskel Square, Addis Ababa, capital of Ethiopia. The parking lot has two floors with 1,400 parking spaces which can provide large-scale parking needs for major events and commercial parking services during regular time.

### Pain Points

**Few Parking Spaces:** Limited number of on-site parking spaces and frequent occurrence of illegal parking resulting in congestion.

**Low Pass Efficiency:** A lot security personnel are required to place roadblocks, paper registration and inspection before release to entry resulting in long queues.

**Poor Revenue:** Parking only charge per entry because lack of charging system. And it only operates during daytime, resulting in low revenue.

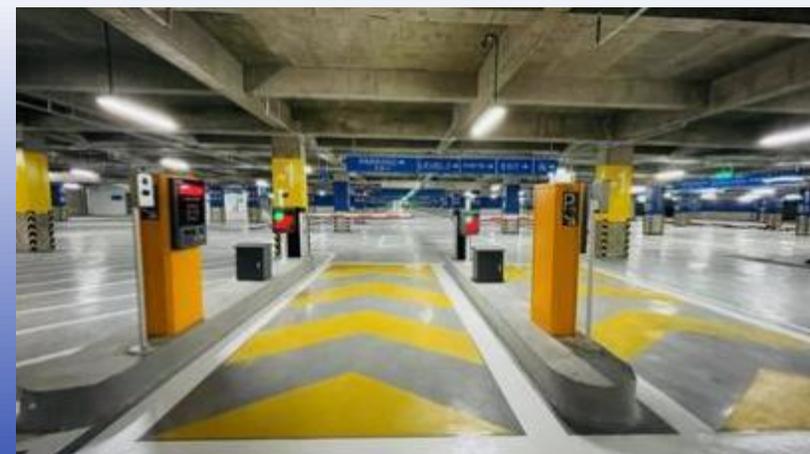
**Serious Corruption:** There is no effective record and supervision of manual charges, and security personnel often collect car fares privately and unfairly, which leads to loss of income and complaints from visitors.

### Solution Highlights

**Improved Parking Efficiency:** Complete security check, vehicle entry, parking guidance, payment, vehicle location search, and exit quickly and automatically, parking efficiency and drivers' experience are improved.

**Convenient Reconciliation Management:** Accurate and reliable parking toll system guarantees the parking income and helps to check the statements. Corruption of collecting fees privately no long exists. The commercial operation level is improved.

**Integrated System and Value-added:** One-stop solution includes parking management, video surveillance, security inspection, parking toll system, control center, and operates 24\*7. During the delivery the system helps to retrieve one lost government vehicle through license plate recognition and capture two theft incidents through video surveillance.



# Success Cases



## Airport Parking Project Denmark

### ■ Project Overview

- 6500 Parking spaces/1100 Dual-lens Detection Camera
- PMS

### ■ Project Requirement

- Parking Guidance System
- Providing indispensable data to third-part platform, base on the premise that define the parking price policies
- Business Intelligent Analysis
- Double-parking Detection



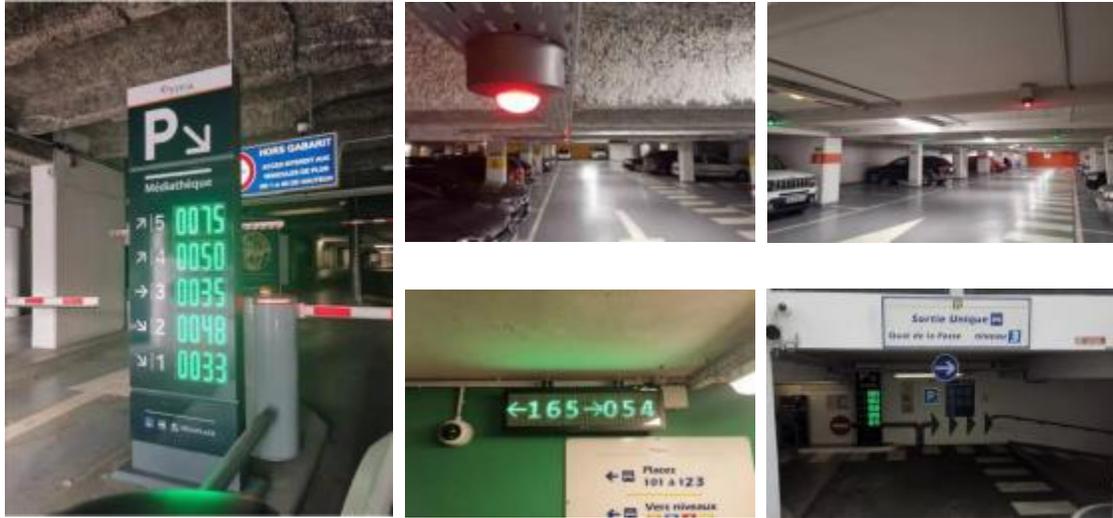
## Shopping Mall Parking Project Czech Republic

### ■ Project Overview

- 2500 Parking spaces/925 Detection Camera
- 20 Guidance Screen
- 5 kiosk

### ■ Project Requirement

- Parking Guidance System
- Find My Car System
- 24\*7 hours Video record in the Parking Lot to protect the customers' property



## Nantes Media Center Parking Project France

**Clear and accurate guidance system :** Redesign the parking guidance system, using more than 20 guide screens to effectively guide different types of parking spaces.

**Powerful AI algorithm :** Car search system, remaining space detection, license plate recognition

**Improve user experience and operational efficiency :** Binding the license plate of reserved parking spaces effectively solves the problem of random parking. Using the video of the car detector and cooperating with ordinary video monitoring, customers can monitor the parking lot without blind spots under one management interface, which greatly improves parking operational efficiency of the farm.



## Commercial Parking Garage Project Mexico

### ■ Project Overview

- 5+1 floors, 1000 Parking spaces
- 500 Parking Guidance Cameras, 20 Guidance Screen
- 2 Commercial Kiosks

### ■ Project Requirement

- Parking Guidance System
- Find My Car System & Advertising
- 24\*7 hours Video record in the Parking Lot to protect the customers' property



# Smart Monitoring & Security Solution

# Common Scenarios

# Scenario 1 - Villa

Protect my home when I am out or at night.

## • Yard and Wall

Intrusion to private space

### ✓ AcuSense Video Perimeter & Outdoor Sensor

- **Intelligent video intrusion detection** focus on human and vehicle targets, end user figure out what happened quickly;  
- **Tri-signal logic** and pet-immunity for accurate motion detection

### ✓ Outdoor Sounder

Warning & deterrence



## • Garage & Basement

Intrusions through open doors or windows

### ✓ Magnetic Contact



## • Front Gate & Doors

Illegal Access

### ✓ AcuSense Video Perimeter & Outdoor Sensor

Guests and visitors can call indoors station or remote concierge to access the outdoor gate



# Scenario 1 - Villa

Protect my home when I am out or at night.



## • Kitchen

Fire alarm

✓ **Smoke Detector**

Water leakage

✓ **Water-leak Detector**

✓ **Relay**

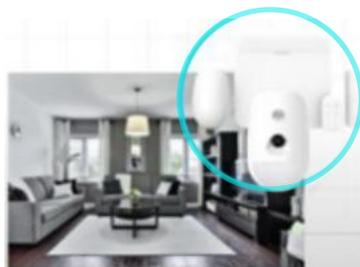
To turn the water source on/off



## • Interior

Illegal Intrusion

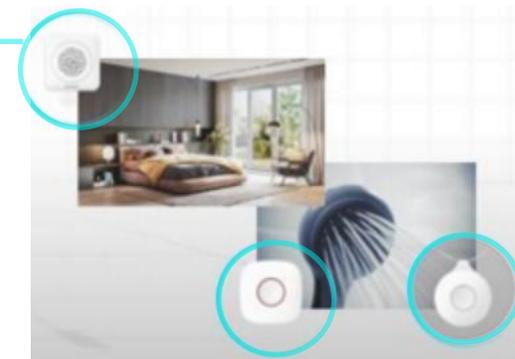
- ✓ **Magnetic Contact** with abundant detectors
- ✓ **Glass Break Detector** detecting the breaking of glass
- ✓ **PIRCAM** motion detection and GIF Verification



## • Bedroom & Washroom

Panic alarms from

- ✓ **AcuSense Video Perimeter & Outdoor Sensor** for SOS
- ✓ **Indoor Intercom Sounder**



# Scenario 2 - Apartment / Condo

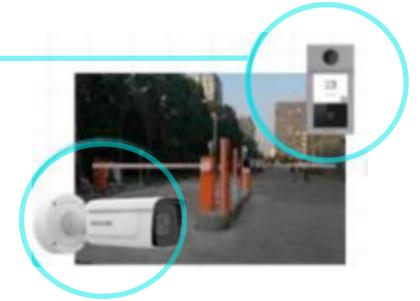
Protect apartment and condo remotely with less security manpower.



## • Entrance & Exit

Identify all access including people and vehicles

- ✓ **ANPR Camera** to manage all vehicle access
- ✓ **Two-way Video Intercom** for visitors



## • Elevator

People being trapped

- ✓ **Emergency Alarm Panel**  
Users may trigger an emergency alarm and then initiate two-way communication with the security center.
- ✓ **Fisheye Camera**  
Great FOV with H:180°/V:180° lens, provides elevator monitoring covering every corner.



# Scenario 2 - Apartment / Condo

Protect apartment and condo remotely with less security manpower.



## • Roof

Potential danger from trespassing

- ✓ **Magnetic Contact**  
triggers an alarm when the door is opened
- ✓ **AcuSense Camera**  
Intelligent intrusion detection focuses on human, and then triggers strobe light and audio alarm



## • Indoor Public Areas

(Lobby, gym, swimming pool)

Shared Facilities Protection and User Permission Management

- ✓ **AX Hybrid, CCTV and Minmoe**
  - Safety detectors such as Smoke Detectors, emergency button, Magnetic Contacts are installed to detect various kinds of abnormal alarm and video verification
  - MinMoe for touch-free authentication and remote access control from monitoring center.



## • Public Area & Parking Area

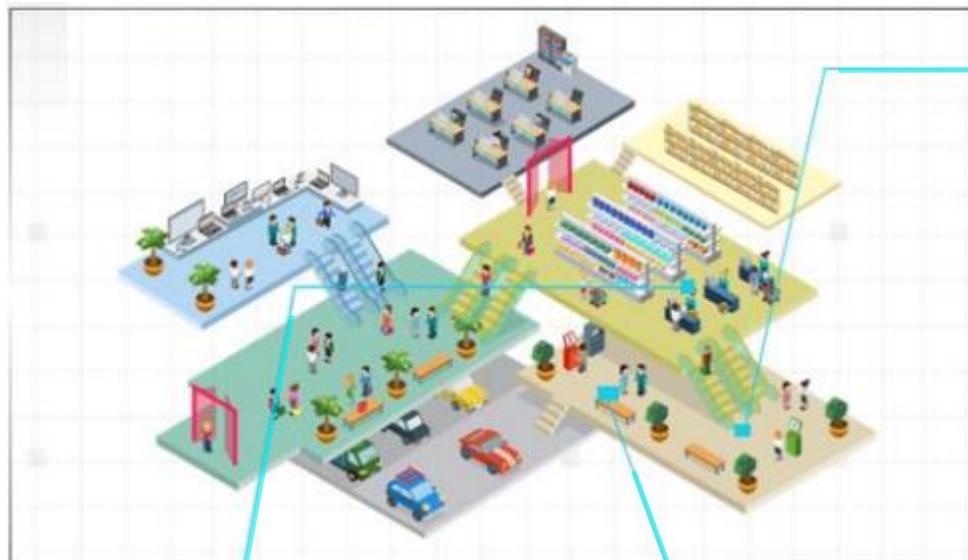
Manual security patrol insufficient for large open areas

- ✓ **PTZ Camera**  
Automatic rotation to realize automatic patrol in open areas
- ✓ **Panic Alarm Station**  
For users to trigger an alarm in case of any emergency event



# Scenario 3 - Supermarket / Shopping Mall / Stores

ROI is important for retail, RMR with remote security service is cost-effective.



## • Cash Desk

Potential disputes and accidents

- ✓ **AX Hybrid PRO + CCTV**
- **Panic button** for emergency alarm;
- Video and audio evidence for post-event check (add-value, more than security).



## • Gate and entrance

- Intrusions during non-business hours
- No timely alarm for quick response
- No quick target search afterwards

✓ **AcuSense Video Alarm** detect abnormal access in restrict time

**AX Magnetic Contacts** detect door is not closed for long time



## • Interior

Glass windows with valuable items risk being broken

✓ **Glass-breaking detector**

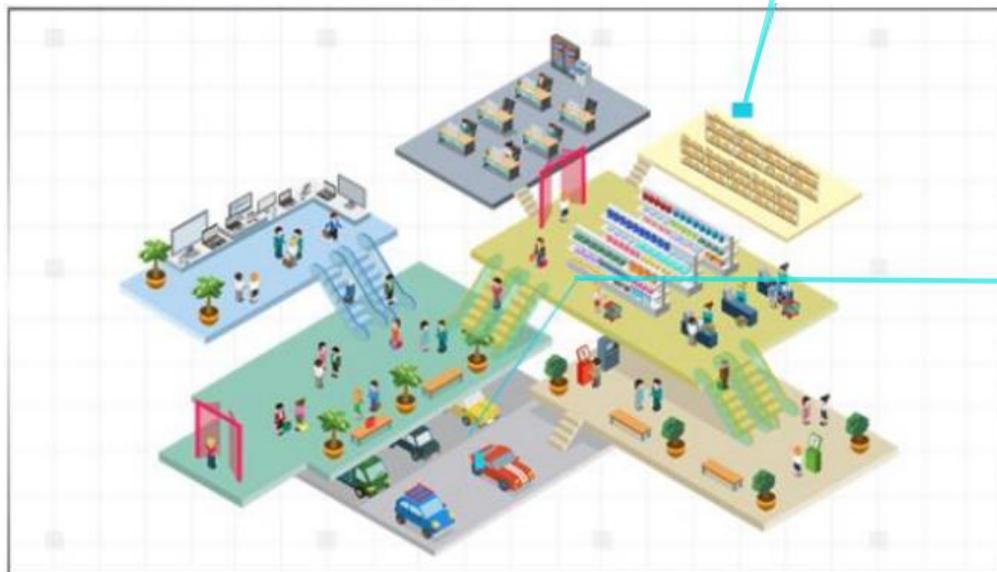
Shelves and goods should be watched all the time

✓ **Cameras at crucial points**



# Scenario 3 - Supermarket / Shopping Mall / Stores

ROI is important for retail, RMR with remote security service is cost-effective.



## • Warehouse & Office

Fire hazards in the stock room

- ✓ **V Smoke detector**

Shelves and stocks should be watched at all time

- ✓ **Cameras at crucial points**



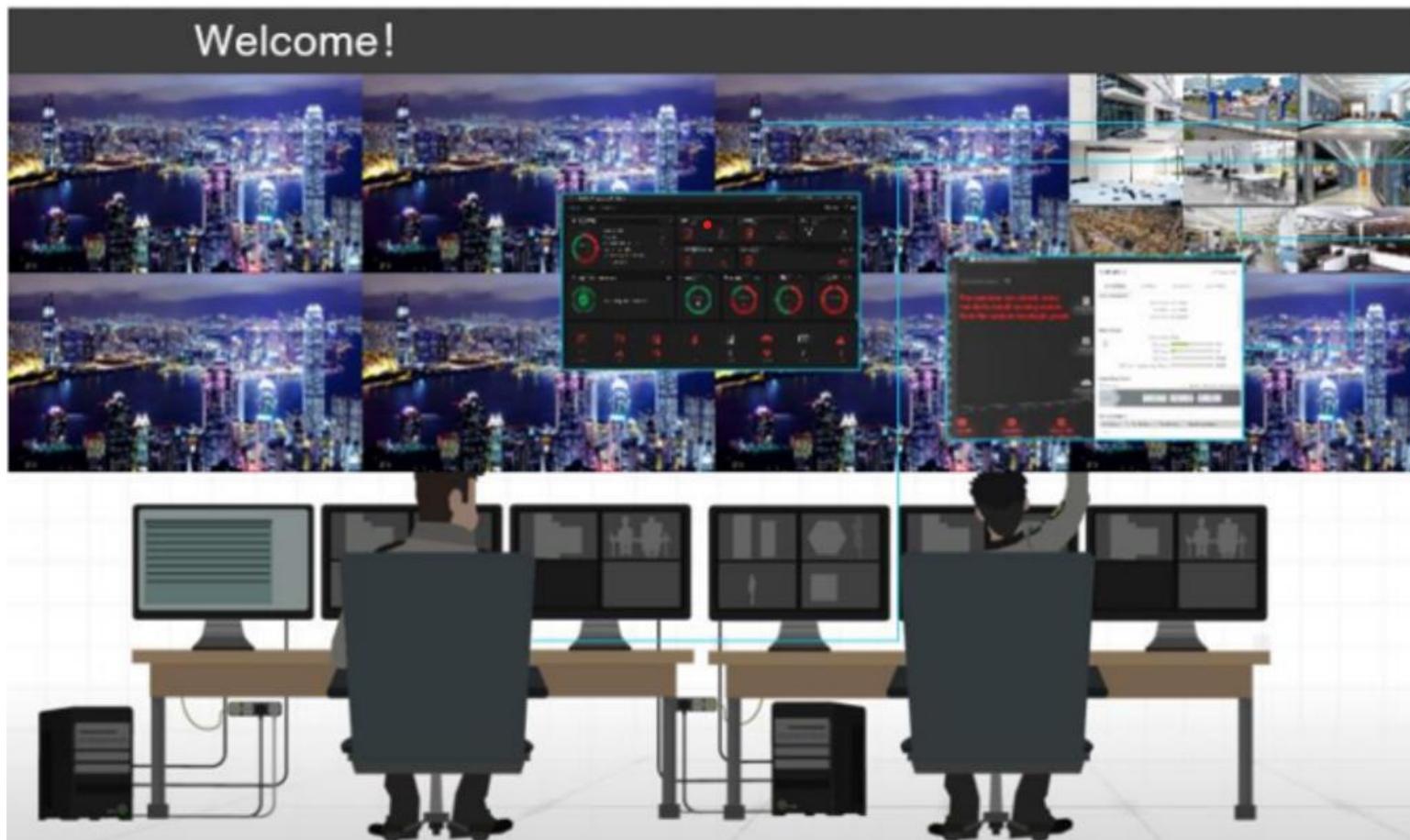
## • Parking Lot

High risk of robbery and accidents in such open and public area

- ✓ **Panic Alarm Station** for emergency alarm and two-way communication with Security Center
- ✓ **TandemVu PTZ Camera** helps track targets for details while maintaining full field of view monitoring of parking area
- ✓ **PTZ camera** rotates automatically to realize automatic patrol in open areas
- ✓ **ColorVu Camera** to see clearly in darkness and catch more details



# Scenario 4 - Monitoring Center



## Professional Display

- Excellent image
- Control by PC keyboard and joystick
- Windows split
- Windows roaming



# Scenario 5 - Perimeter Security



Precise



24/7



Long Range



No Gas Leakage

Gas Leakage



- Detector Type: Cooler HgCdTe
- Spectral range: 3.2μm ~ 3.4μm



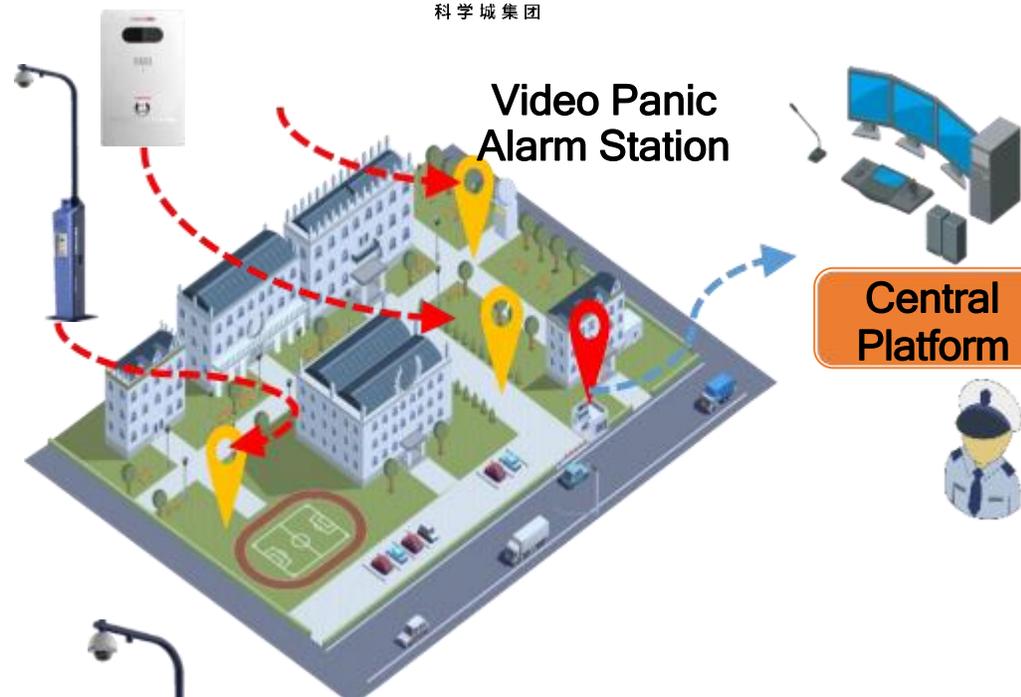
50 Meters

150 Meters

300 Meters

# Emergency Alarm

# Emergency Alarm



## Front-end proactive trigger



Press the Alarm button for help



Monitor from the center

- Video pop-up
- Gis map linkage
- Alarm linkage



Remote Monitoring

- Video double check
- Audio intercom



Prevention

- Contact the police
- Log record

## Back-end realtime monitoring



Monitoring center staff detect the emergency condition



Remote Monitoring

- Video double check



Remote intercom



Prevention

- Contact the police
- Log record



**DS-PEA3M-21(H)**  
Remote Lock  
IPx5



**DS-PEAP-CV**  
POE  
IK10 & IP65  
Standard SIP Protocol



**DS-PEA2-21**  
Siren and  
Expandable Audio

# Video



## Fluent View

One Panel for all  
Limited bandwidth? DON'T WORRY!  
Quick access to preset views, just one click!



## Flexible Storage

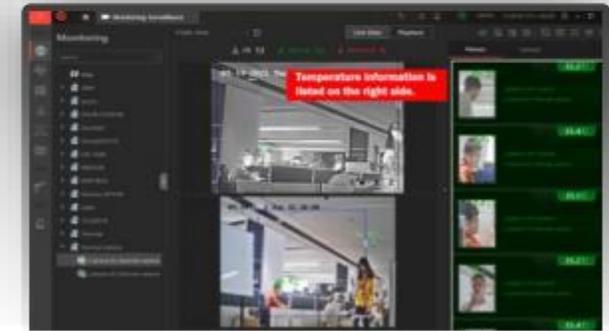
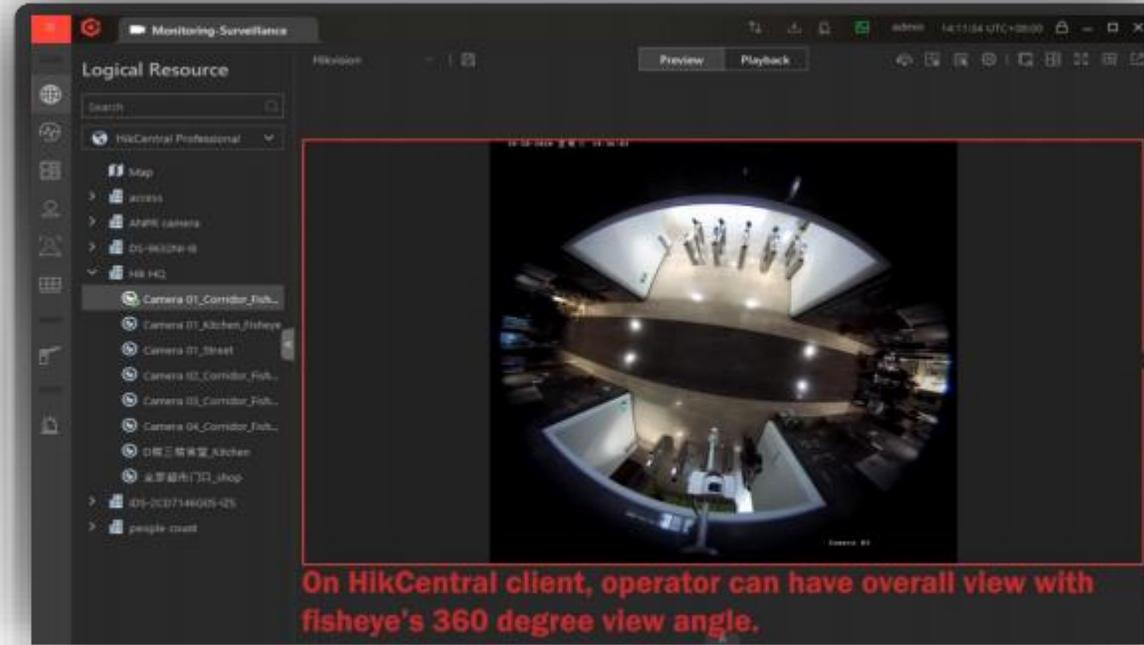
Different scenarios, different storages



## Quick Search

Quickly find the incidents

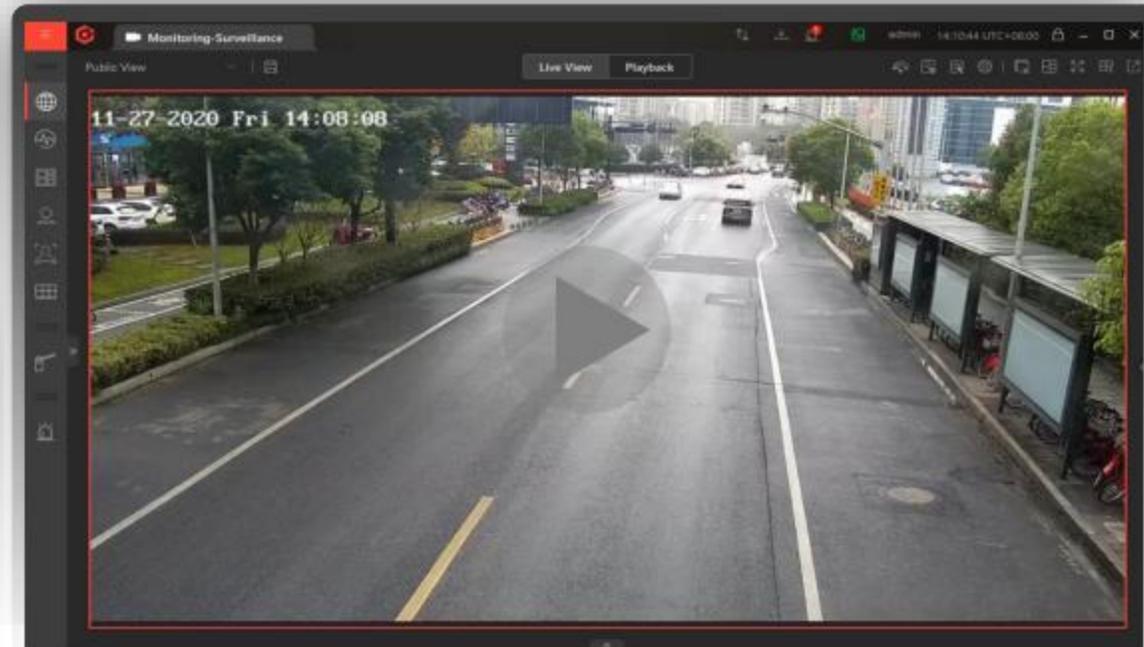
# One Panel for All



## No blind-spot Surveillance

1. On control client, the operator can simultaneously de-warp and monitor multiple fisheye cameras.
2. Easy Flexible zoom & de-warping operation, provides detail surveillance on every corner.

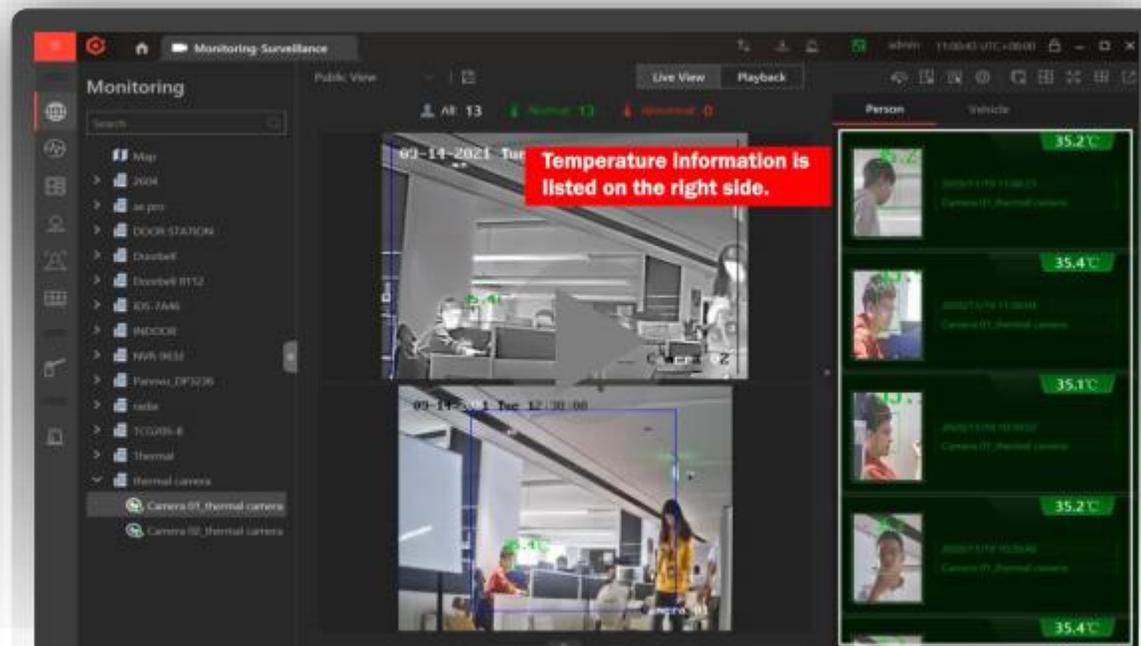
# One Panel for All



## Ultra coverage, Easy operation

Surveillance large areas with one PTZ camera. The operator can easily control the camera rotating and zooming.

# One Panel for All



## All information that matters in display

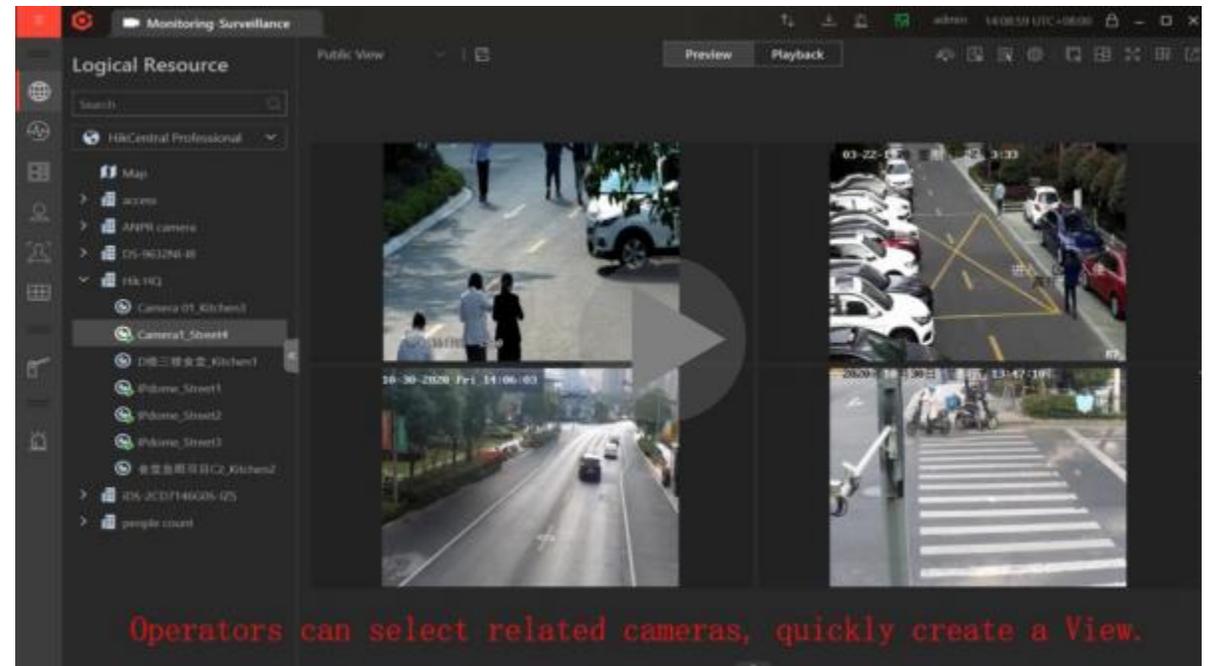
The intelligent analysis results and video can display on one monitor interface.

- More analysis data e.g. ANPR, facial recognition, people counting, etc. can be displayed on control client in real-time.
- Operators can search all analysis results.

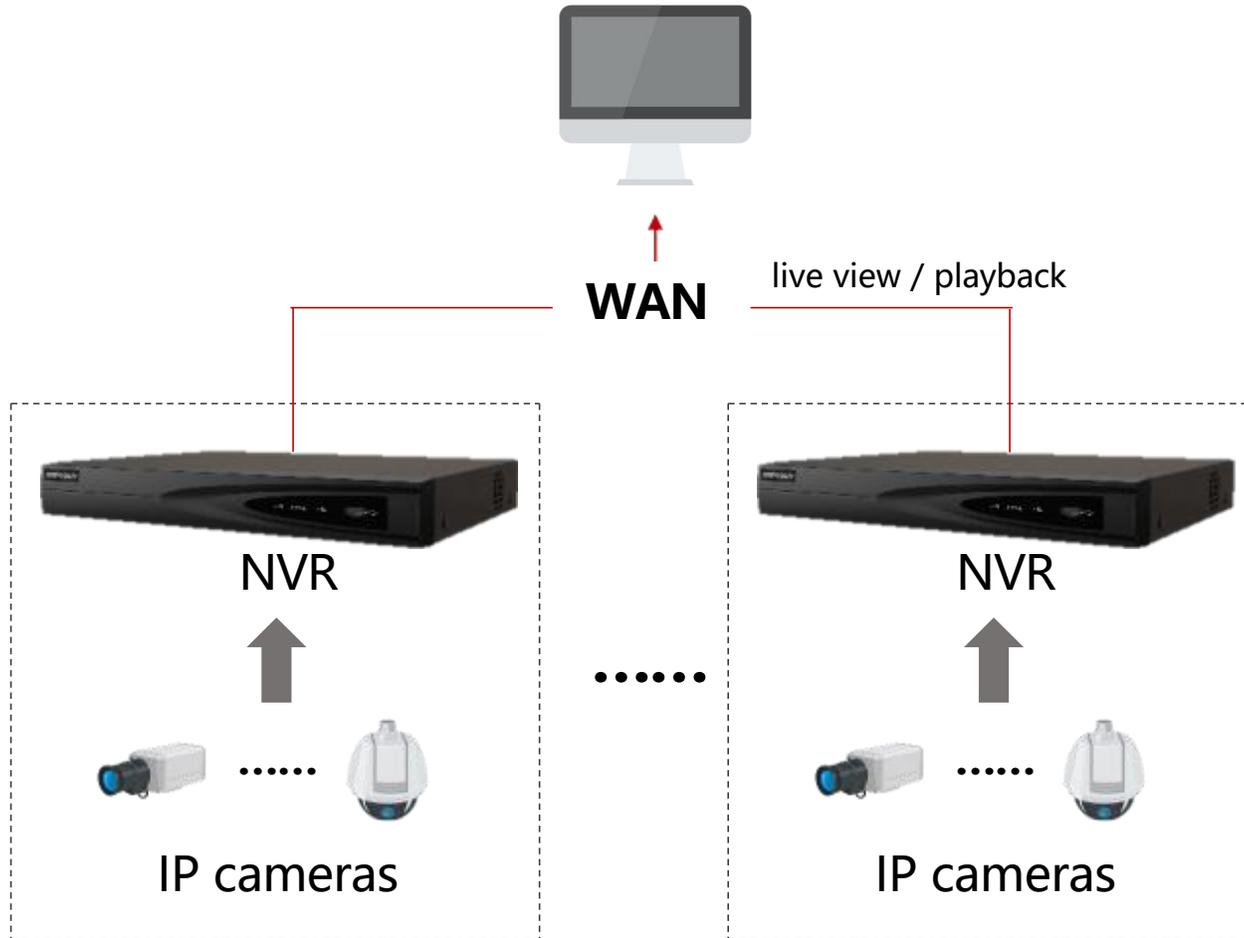
# Quick Access to Preset Views

## Just one click!

- For daily monitoring, cameras auto switch on the monitor, each time displays several cameras.
- When incidents happen, operators can quickly switch to the accident place via view.
- Up to 100 views in public view
- Public views are accessible for all operators



# NVR Record at Local Site



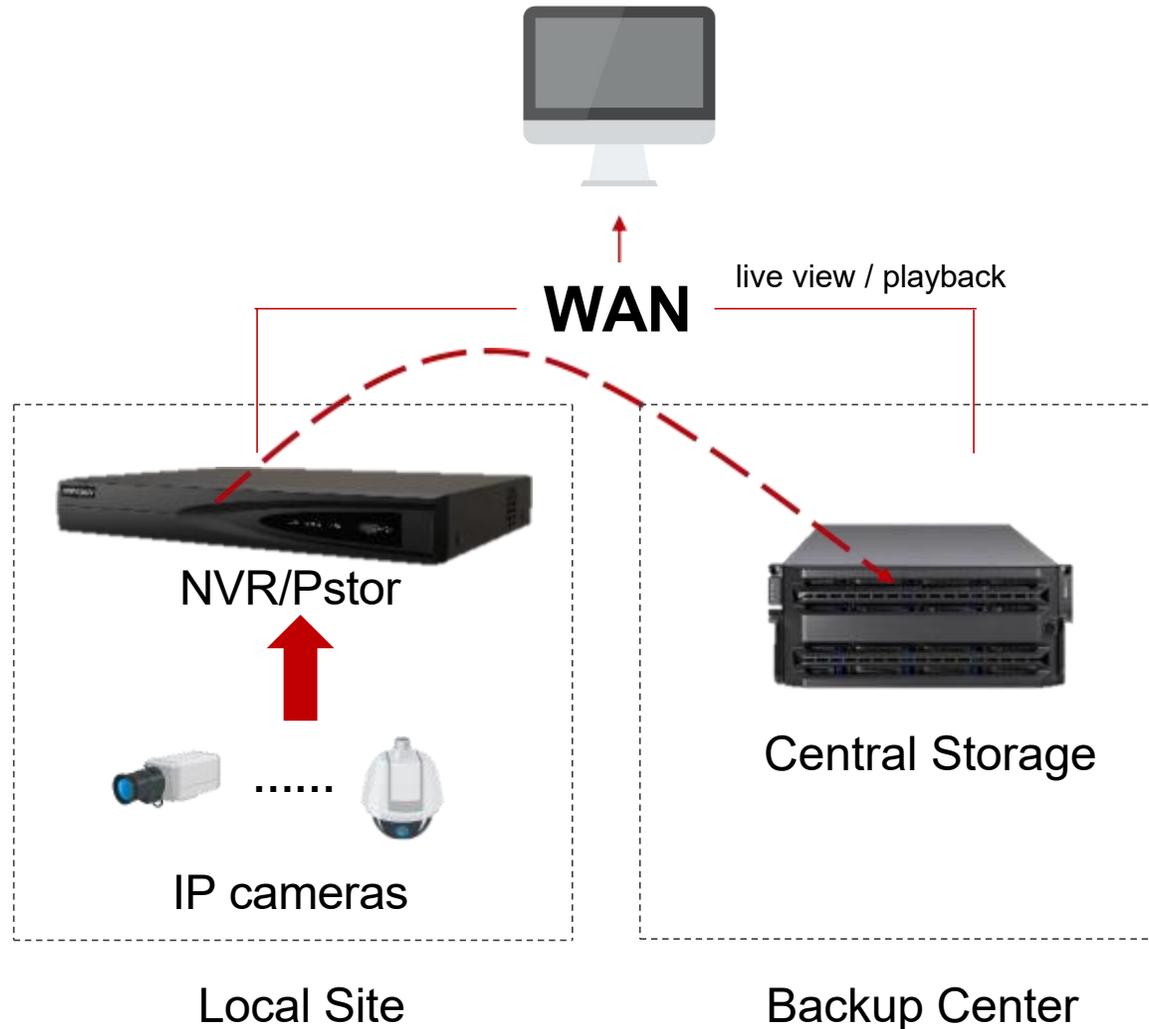
## Local recording, Central management

Video streams are recorded in local NVRs. Operators at the surveillance center can remotely manage all devices, live view and playback, supervise system health status.

## Local data protection mechanism

ANR technology is used when network connection between camera and NVR breaks, video automatically record in SD card. When network connection recovers, video transmit to NVR.

# NVR Record at Local Site - Central Schedule Backup



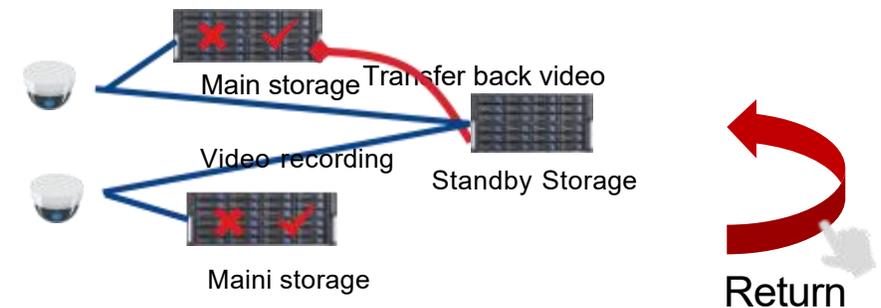
## Schedule Backup, Enhance data security

IP cameras record locally in NVR/pStor to ensure normal business traffic bandwidth during business hours.

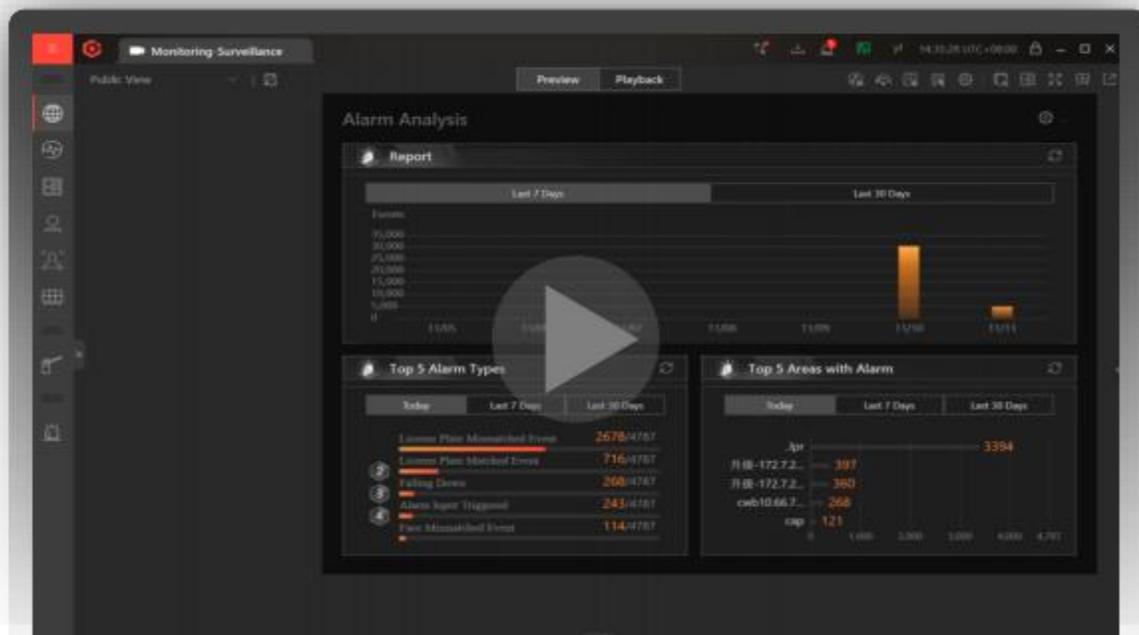
When network bandwidth is available (e.g. at night after employees go home), central storage recognize active and schedule backup of recording from local storage.

## N+1 fail over

When main storage device is offline, the standby storage will automatically take the job until the main storage recovers.



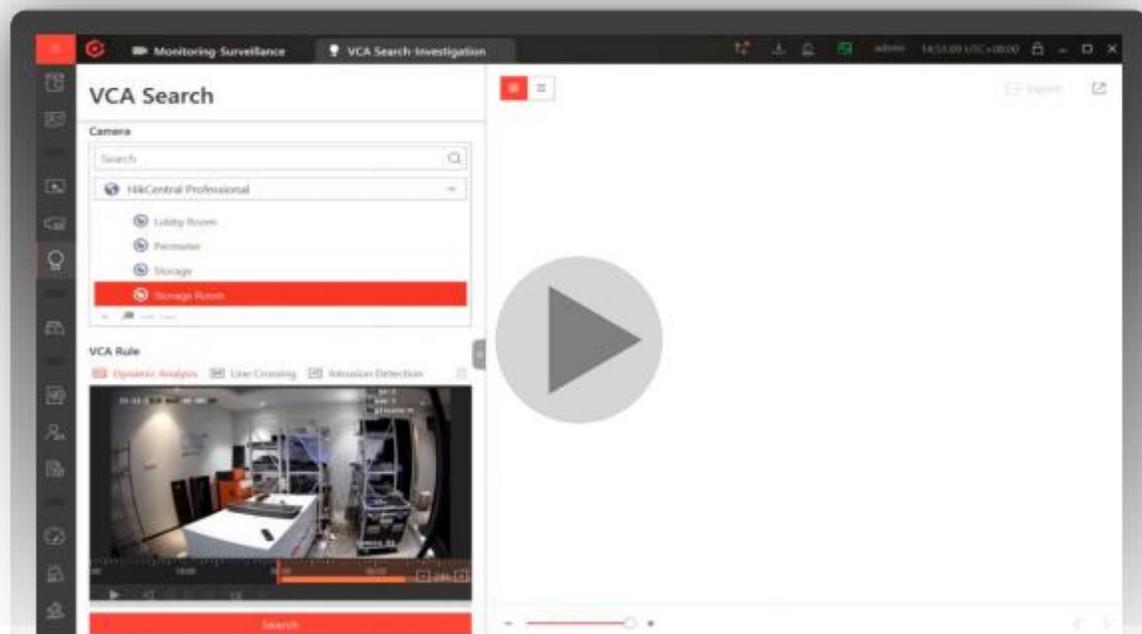
# Quickly Find The Incidents



**One glimpse to master the system alarm status.**

Display alarm statistic report on dashboard, one click to check alarm playback.

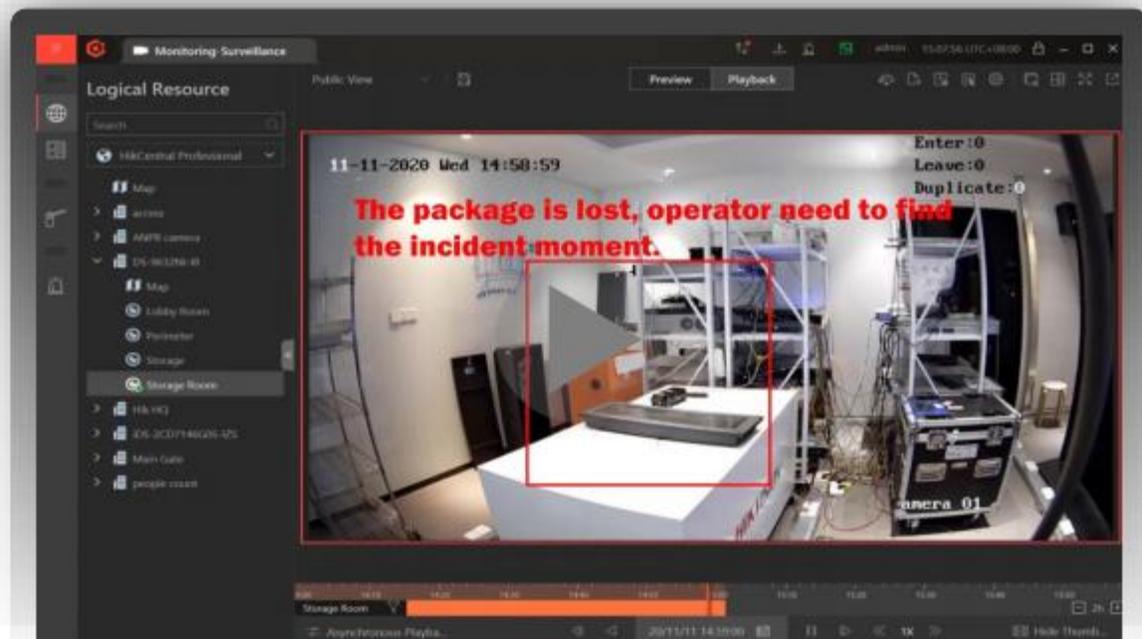
# Quickly Find The Incidents



**Have no idea on the event period,  
want to quickly find the intrusion?**

No need to waste much time to playback. Draw a detection area to filter out related video clips.

# Quickly Find The Incidents

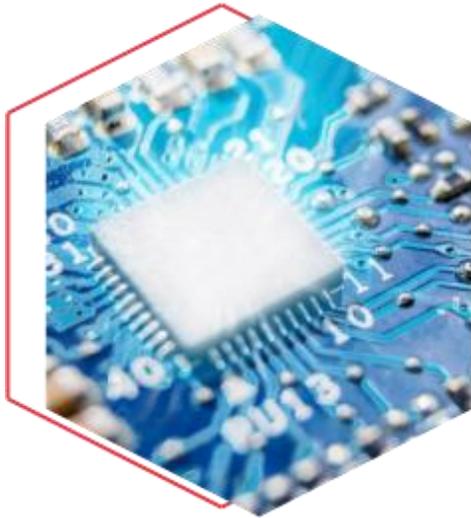


**Roughly know the event period,  
want to check the precise moment?**

Quickly locate the video via flexible time axis and thumbnail.

# Access Control

# Access Control



## Flexible Access Control

Flexible permission rules, highly adaptive to various applications from convenient quick-pass to high-security strict access control



## Easy and Efficient Operation

Easy and friendly permission assignment  
Permission effect in sub-second!  
Register anywhere and anytime

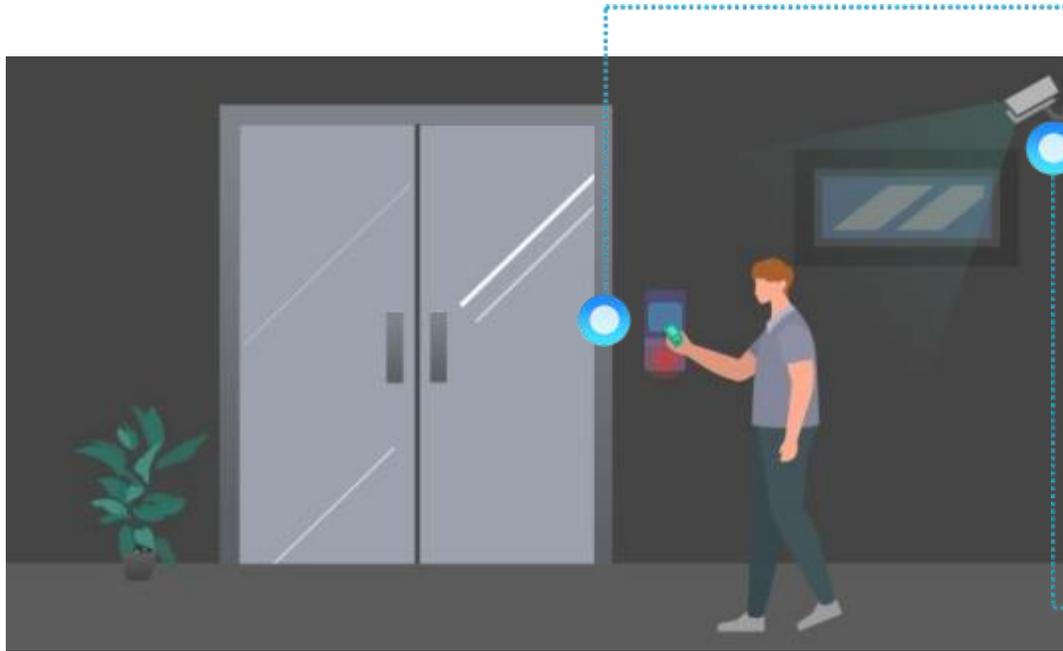


## Real-time Abnormal Handling

Handle threats at a moment!

# Access Control

Reliant authenticated access for registered personnel with **luxury, touch-free walk-in experience**, while visitors can get **remote gran access by video intercom** to the front desk. Security can **verify door alarms and access records by video** to ensure proper incident handling and effective post-investigation.



## Professional Access & Video Intercom: MinMoe and Indoor Station

- Authenticated access by card, FP, QR, face, PIN, ....
- Video intercom for remote granted access
- Attendance check-in/ check-out



## (Optional) For Integration or Complex Access Policies: Controller

- Connects third party readers for legacy-adapt or integrated system
- Connects multiple readers and I/O for complex access policies
- Support MinMoe connection for touch-free authentication



## Video Security for Key Areas: ColorVu Cameras

- 24/7 colorful, high clarity video
- Verify door alarms and access records by video



## Swing Barrier: Efficient Passing in-between Public and Private Spaces

- Improve personnel passage efficiency and management efficiency



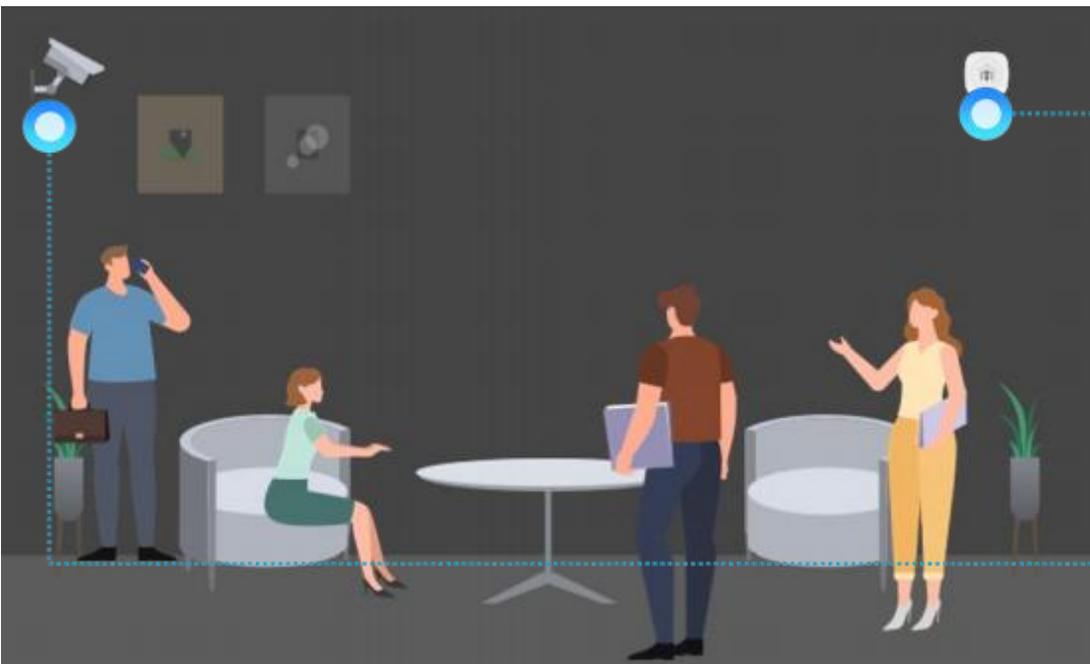
Extended Option for Mid to Large-scale Office Buildings



# Indoor Spaces - Enhance Security Levels via Fusion System of Alarm and Video

## What We Offer

Wide variety of professional CCTV choices to provide **24/7 high clarity video for all typical indoor environments**, and **easy-to-deploy wireless alarm system** fusion into one platform, providing **multi-dimensional situational awareness** to enhance security levels.



### Alarm System: AX Pro

- Auto incident detection and alert such as intrusions, door force open, smoke, glass break, ...etc.
- Onsite siren and light for immediate deterring

### Indoor Video Security: Network Camera

- Video security for key areas, 24/7 full-color supported
- Visual verification for sensor alarms and door alarms
- Built-in light and sound (Live-guard series)



# Strict And Flexible Permission Control

## 5 credentials types

Support passing by fingerprint, face, card, PIN code, and QR code  
Support credential combination between fingerprint, face and card.

## 512 Access levels

Access level defines the access permission that persons can get access doors and floors during the authorized time period.

## 5 advanced Access strategies

5 strategies are provided: anti-pass, multi-door interlocking, first card, multi-authentication and remain open/close.

Employees



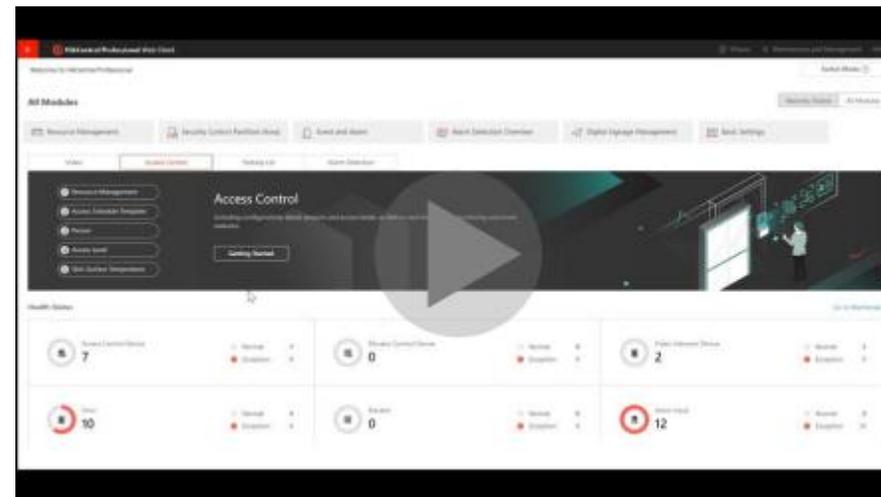
Visitors



# Easy And Friendly Permission Assignment

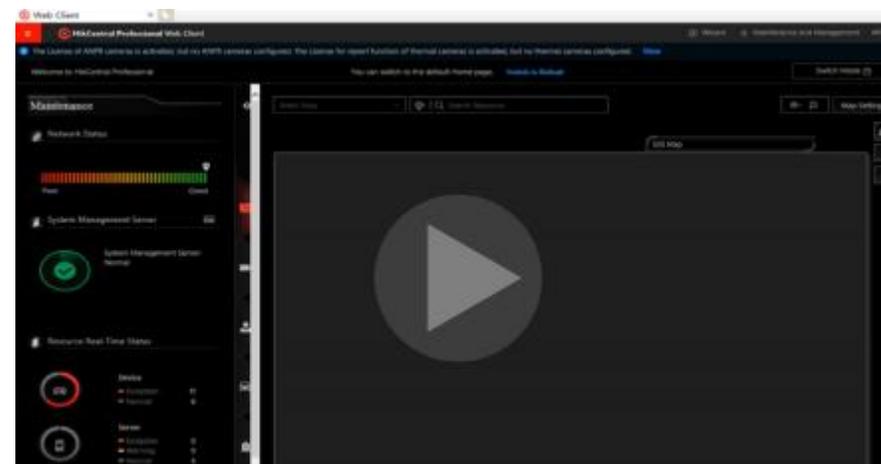
## Follow the wizard step by step to configure

For operators who are not familiar with the system, the wizard provides step by step guide, make the configuration easy and convenient.



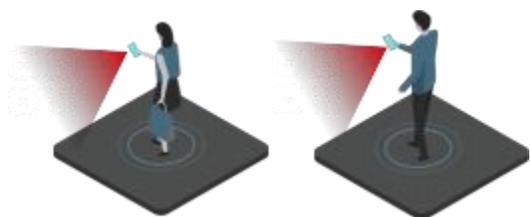
## Permission Overview

Master the permission status, quickly handle abnormal permissions.



# Register Anywhere and Anytime

New registers from different sites can remotely upload information via mobile phone, HR team can remotely review and maintain the person list.



New registers



Scan the QR code  
and register



Login and Review



HR team

## Upload

---

Scan the QR code to  
upload individual info.

## Review

---

Administrators review  
uploaded info.

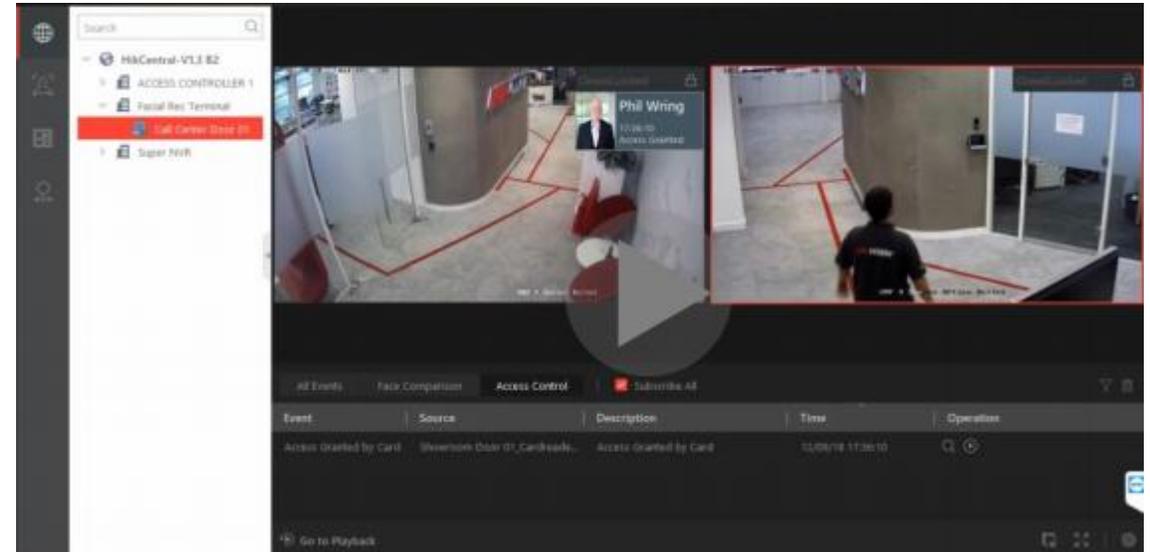
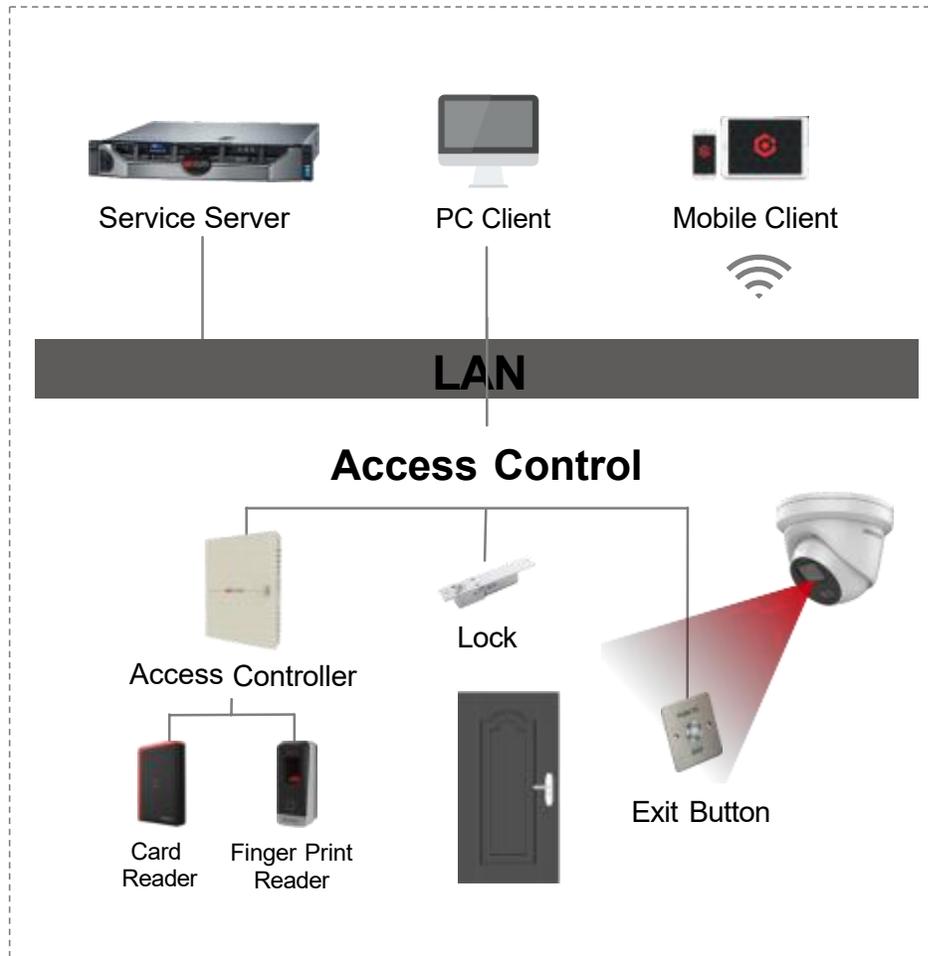
## Assign

---

Person info can assign to  
devices immediately or by  
schedule.

# Receive and View The Access Alarms

## Control Center



## Video Surveillance & Access Control Linkage for high-level security area

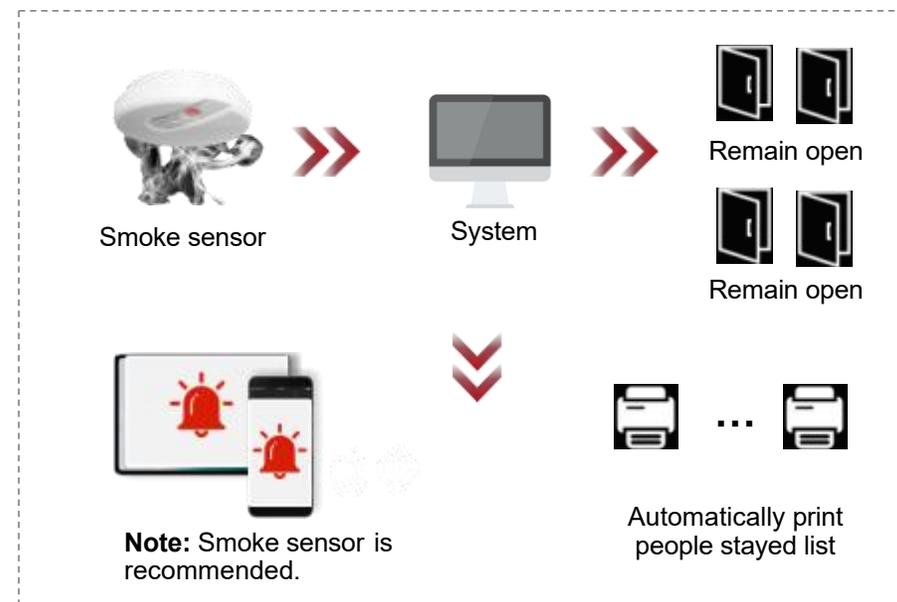
Access control system is linked with CCTV system, when alarm / exception is triggered, related video will pop-up for double check.

# Handle Threats at A Moment



## Visualized Access Alarm

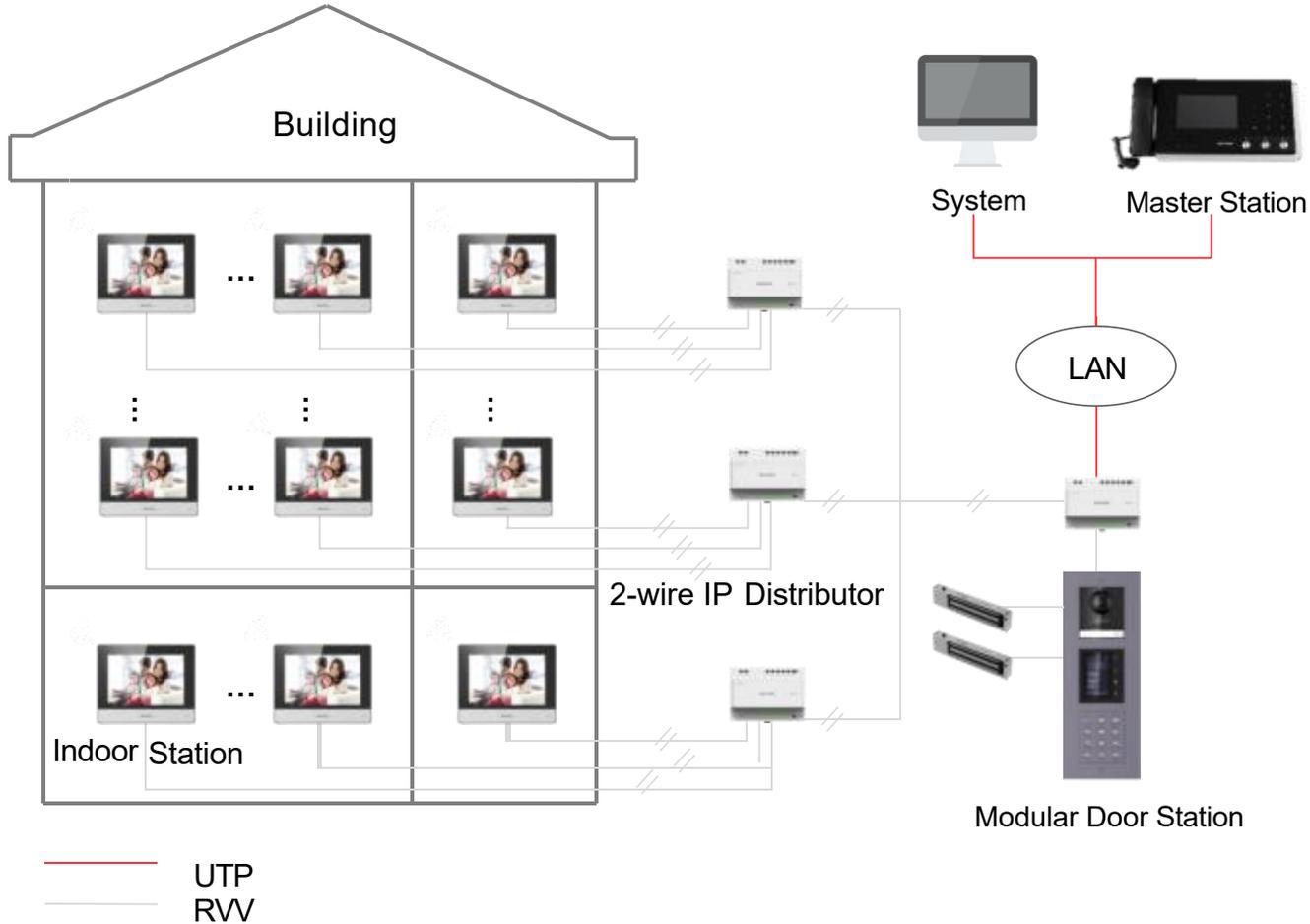
- In control room, alarms display on E-map, operators can quickly locate the threat and remotely check via live view.
- Outside the control room, alarms can be received on mobile phone, for operators to check and remotely handle alarms.



## System Linkage

- For emergency situation, such as smoke sensors detect potential risks of flame, the system automatically open all doors and remain them open.

# Video Intercom Management



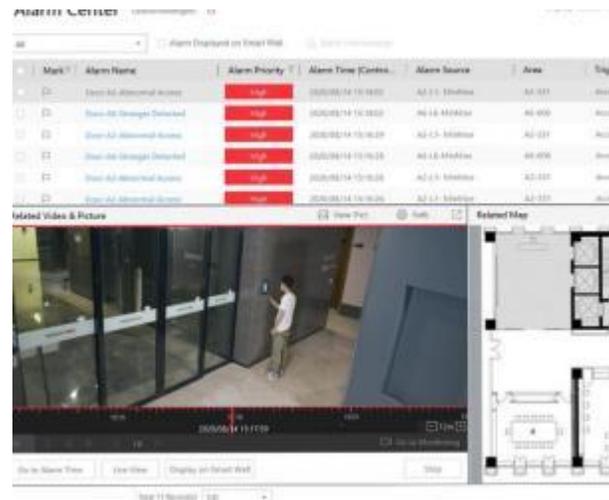
- Centrally manages the video intercom system, completes device batch configuration (network parameters) and delivery, enabling devices to register and communicate with each other.
- Uniformly configure personnel access permissions and remotely controls access control.
- Control client can call the indoor stations and receive calls from door stations
- Up to 1024 indoor stations and 512 outdoor stations supported

# Visitor

# Manage Your Visitors More Secure And Efficient

Raise

Evidence



Visitors Today Total:2 Unchecked-Out:2

Export

Basic Information Visitee Visit f

DDD KK  
8979797989...  
Visitors x1 x0  
Jack  
All Persons > Busi...

pp LLL  
99999999(ide... 666666  
Visitors x1 x0  
Tour...

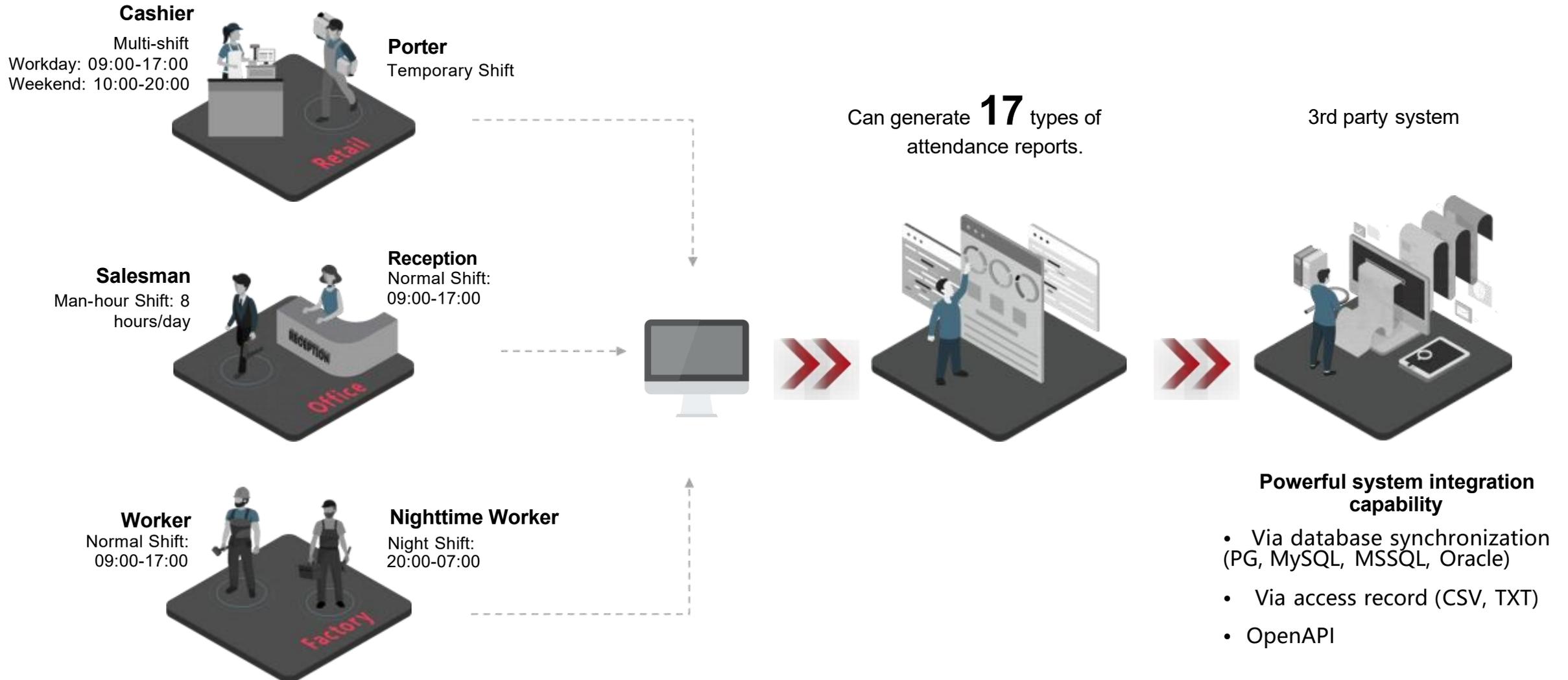
- Paperless
- Register congestion

Visitors can pass the authorized areas via QR code, face, card and fingerprint.

are traceable

# Attendance

# Make Time Attendance Easier



# Time Attendance on Touch-Free Walk

## Touch-free Staff Access & Attendance



## Remote Granted Access for Visitors

Video call from MinMoe terminal can be received by indoor station or HCP PC client / mobile app for remote granted access.



## Features

- Auto authenticated access by face, card, fingerprint, PIN, QR, iris...
- Video intercom for remote granted access
- Attendance check-in/check-out
- Access/ Attendance records retrieval and report export
- Emergency mustering supported

## Benefits

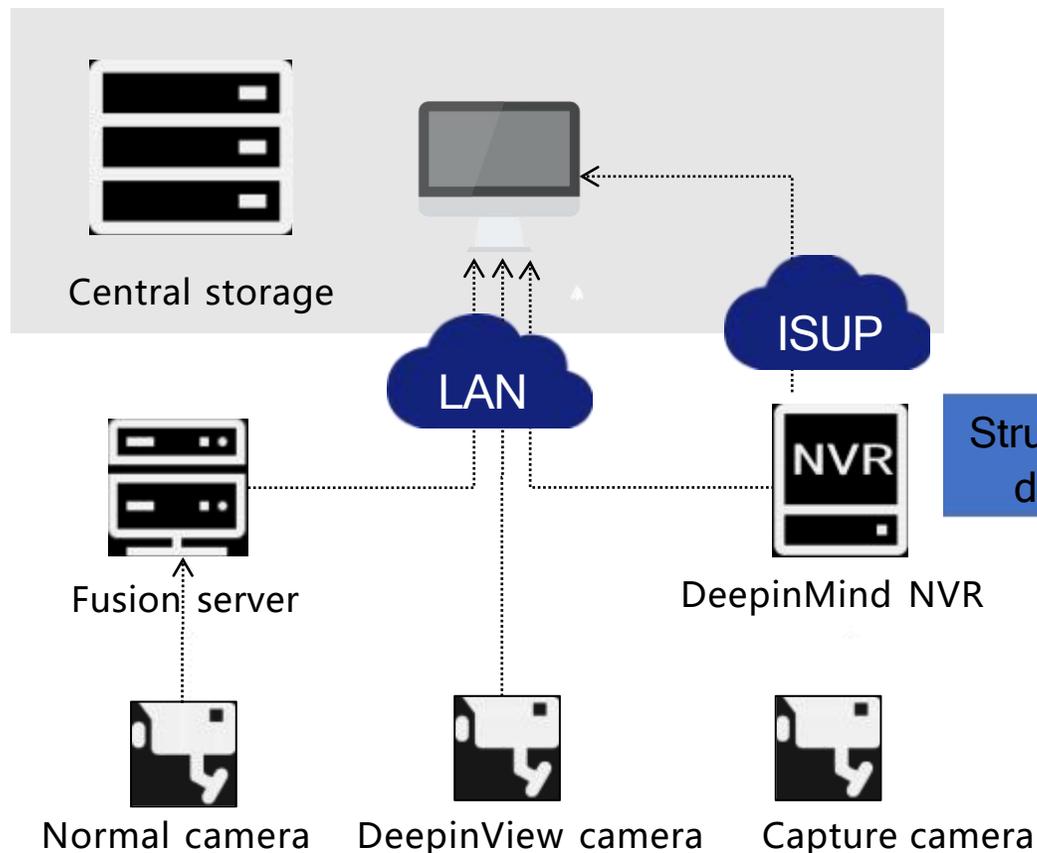
- Simple, adaptable deployment: access, video intercom and attendance in one unit
- Adding convenience and safety: touch-free access and attendance
- Various report templates and auto emailing features help boost management efficiency
- Fusion system of access and video, adding visibility helps better handle incidents and resolve disputes

## Advantages

- Reliable, accurate deep learning AI: anti-spoofing face recognition accuracy  $\geq 99\%$ , duration  $< 0.2s/user$
- Video footage and snapshots for access records

# Intelligent Analysis

# Intelligent Monitoring



Supported device: DeepinView camera/fusion server/DeepinMind NVR



**One panel for all:** unified intelligent monitoring panel displays all structure data.

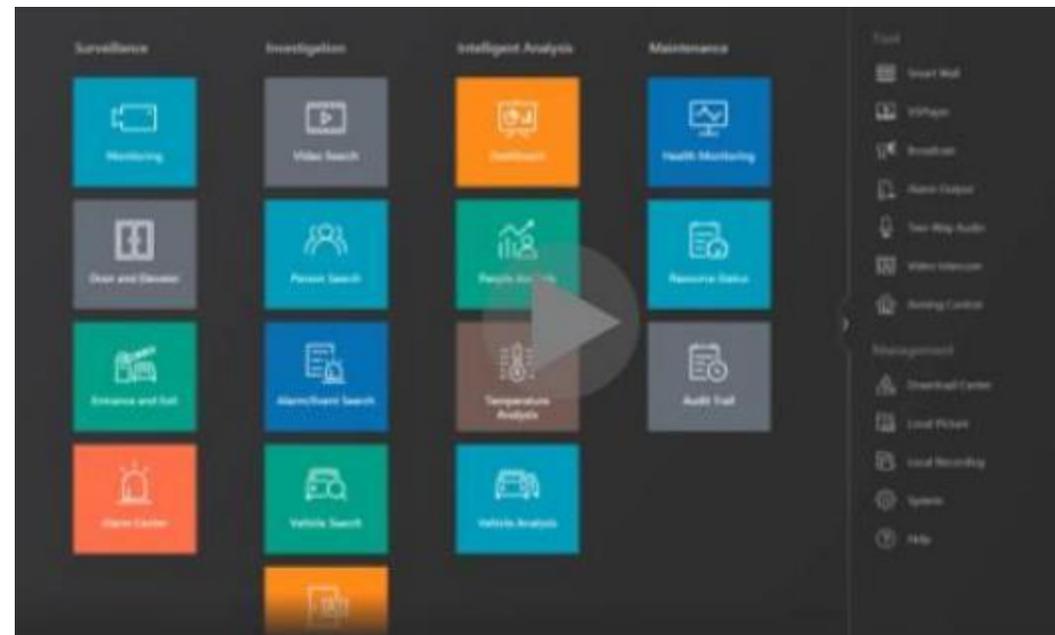
**Display what you want:** display objects, person/vehicle features, resource, you can select and display what you want.

**One click to search:** alarms pop-up on the windows, click and quickly switch to the alarm search page.

# Vehicle Attribute Search



I saw the criminal drive away in a **white car**, the brand seems to be **Honda**, BUT I don't remember the number plate!



Based on the witness's limited information, the police can search and find all vehicles with similar attributes. Easily to find the suspect car.

# Intelligent Searching

Accurately find out your target with limited information.



ID picture



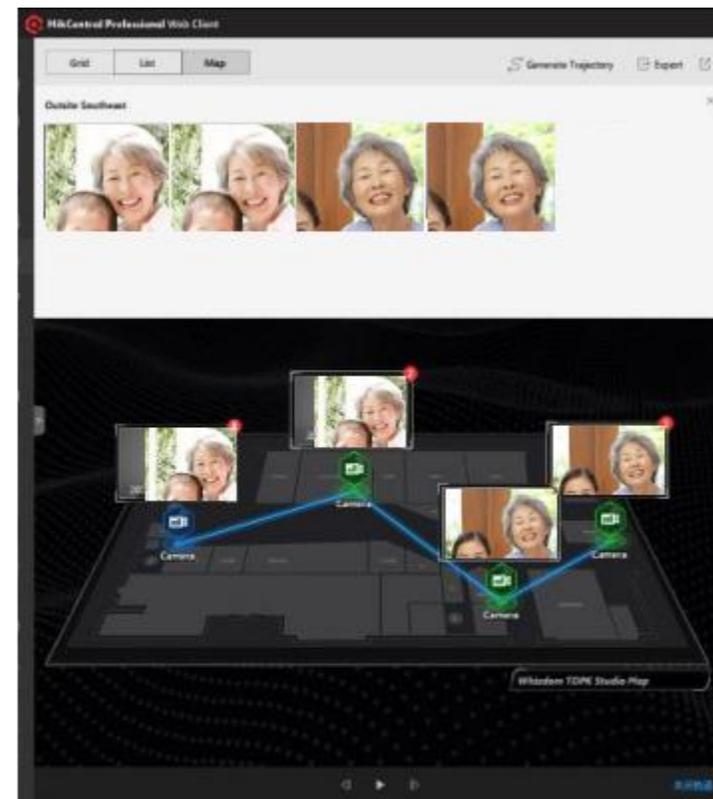
According to the person ID picture, the user can quickly find the related video.

**Human attribution**

Age group: Elder  
Gender: Female



Searching by the human attribution to quickly filter out the person with similar features. Then manually choose the right person to generate the pattern.

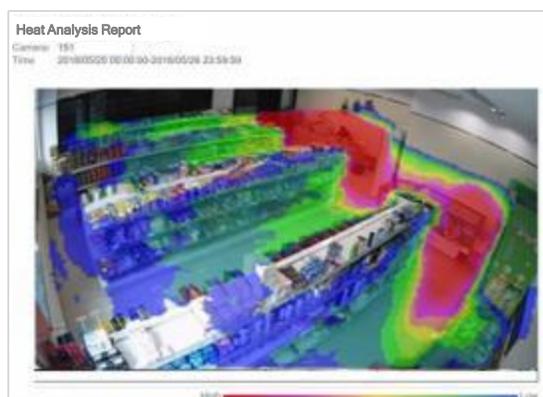


Intelligent Analysis can help to optimize store layout, advise promotion time, and even provide commercial tendency for decision-makers.



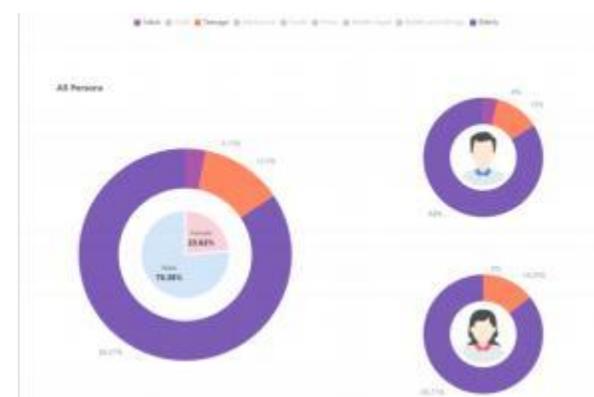
## People Counting

- Support export of remote sites data
- Up to 200+ cameras data export per site
- Multi-channel cameras displaying
- Email report



## Heat Analysis

- Check the line chart of Dwell Time or People Amount
- People amount/Dwell time comparison of heat map cameras



## Person Feature Analysis

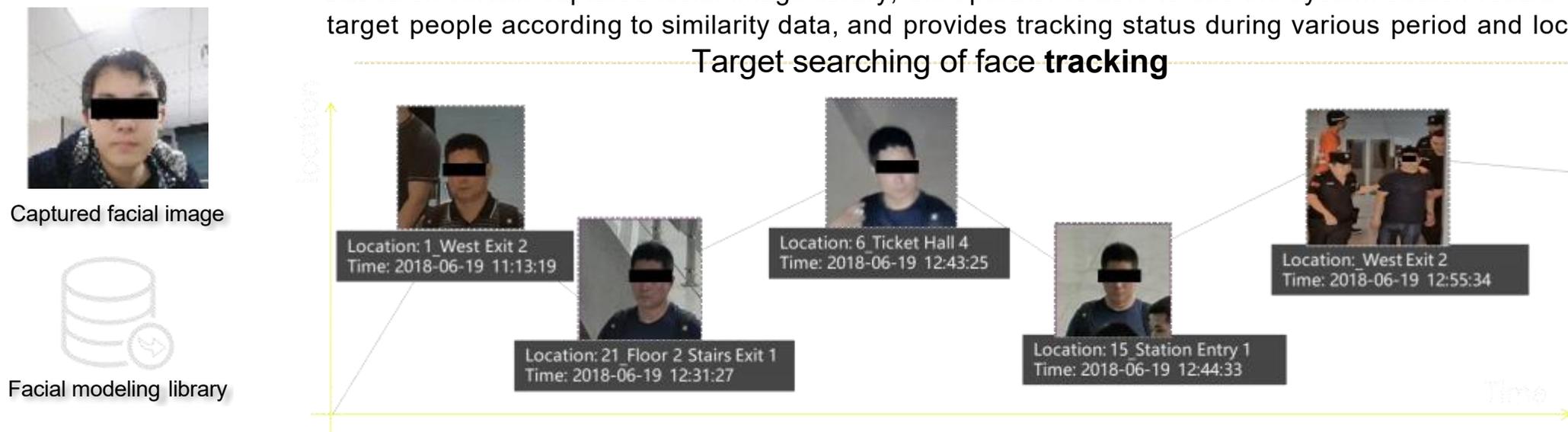
- Shows the proportion of persons with different features
- Refers to the gender and age group

# Intelligent Searching - Target Searching

## 1. Searching captured facial image in face image library

Based on certain captured facial image library, the operator is able to use the system search results of target people according to similarity data, and provides tracking status during various period and location.

### Target searching of face tracking



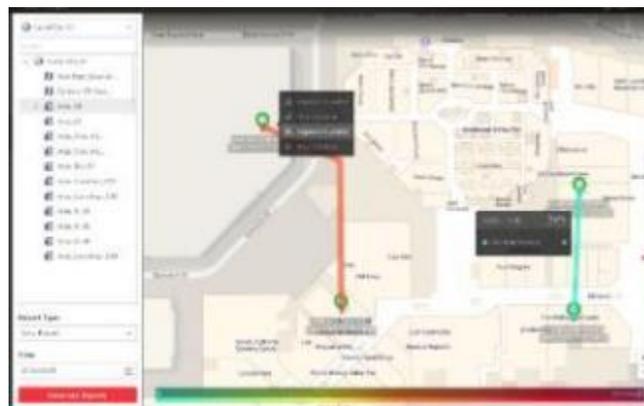
## 2. Conditional searching human face

And according period, the operator can use the system to search and complete query aiming for suspects by multiple options to fasto know time, location, gender and active t search and locate targets.



## Queue Analysis

- Accurate counting result of human number
- Waiting time of each person and total person number per queue
- Export exception numbers, person in queue and queue status report



## Route Analysis

- Analyze people amount on the pathways in shopping malls or stores
- Move the cursor to camera icon to check line chart / heat map of people amount and people dwell time

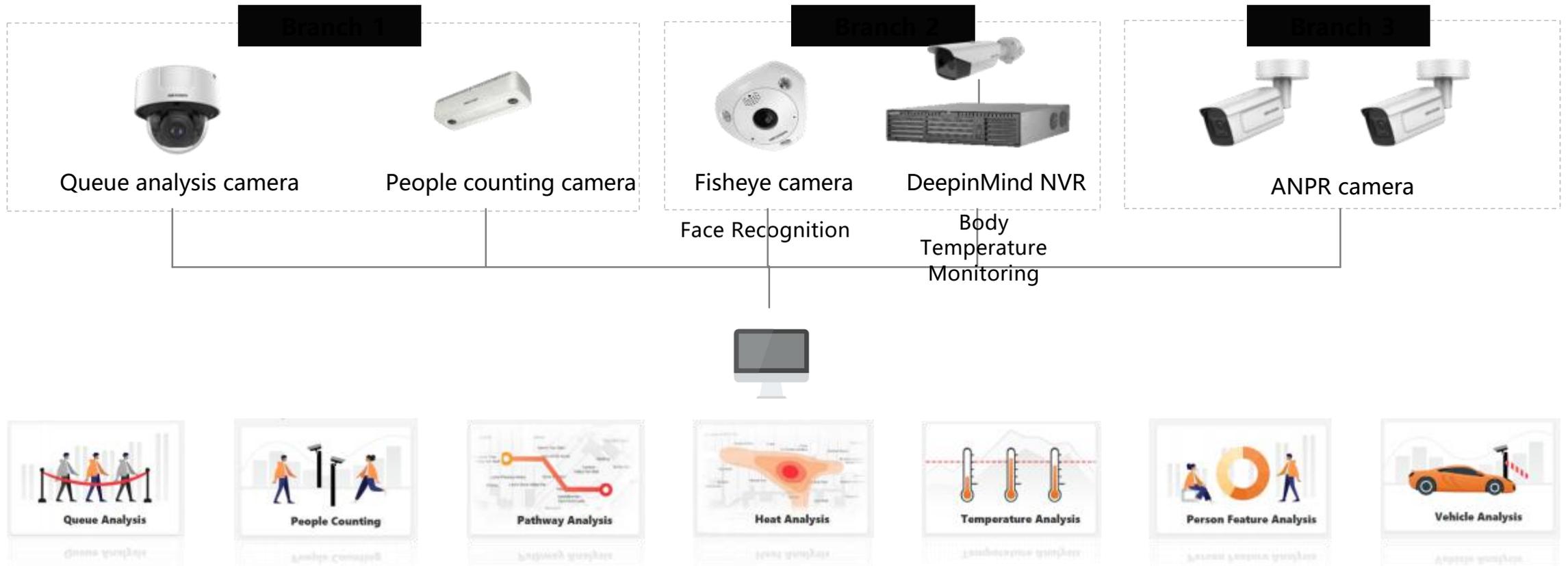


## Vehicle Analysis

- Display vehicle entry and exit number
- Display entrance & exit vehicle passing number

# Visualize Reports Helps to Empower Decisions Control

Integrated with security control device,  
supports managing alarm system to enhance security.



# Intrusion

# Security Control

**Integrated with security control device,  
supports managing alarm system to enhance security.**



Retail



Education



Building



ATM



Security Radar



Security Control Panel



Axiom Hub



Panic Alarm Station

# Perimeter HeatPro: Long Range Intrusion Detection for Any Light

## Designed for Any Light

### Strong Backlight

Hikvision HeatPro series thermal camera

Conventional optical camera



Thermal cameras sense an object's heat radiation, capturing images 24/7, regardless of environmental factors such as darkness, lowlight, strong backlight, etc.

## See the Unseen

### Discover Hidden Object

Hikvision HeatPro series thermal camera

Conventional optical camera



With thermal cameras, users easily locate objects and potential threats that are invisible to conventional optical cameras. Meanwhile, thermal cameras don't emit visible light, better concealing their presence and position when they need to remain hidden.

# Perimeter Automated, Standard Incident Handling Process

## Alarm Triggered by Incidents



### Various Alarm Input Sources

- Video-based human/vehicle intrusion detection
- Thermographic intrusion detect, works in any lights
- Also works with External alarm I/O
- ...

## Auto Notification and Acts



### Instant Notification

- PC Client / Mobile APP

### Instant Response

- Onsite: light & sound deterring
- Remote: video popup, E-map, PTZ, door / E&E status...

## Goto Assigned Operator



### Acknowledge and handling

#### Quick remote control

- Voice talk, door status, PTZ...

#### Overtime escalation

- Redirect to another operator when timeout

## Evidencing



### Log Query and Export

#### Incident Records Retrieval

- Prompt search by various event filters
- Convenient playback and records export



## Live-Guard

### Alert, Video, Light and Sound in one Camera

Our Live-Guard Camera provides you with an all-in-one Security Camera which includes an in-built speaker with the option of a voice warning message or siren alert and strobe light which can activate when a person and/or vehicle are detected. You can also easily armor/disarm selected cameras or the entire system from your mobile phone app.

# Performance Showcase

Thermal Zoom in & Zoom out



Optical in foggy weather



Thermal in foggy weather



PTZ at night-62X Optical(Bridge in 2.3km)



Stable PTZ at night - Thermal



Laser at night - Optical Channel



Notice: The performance of thermal cameras will be affected by heavy sea fog, the effect is subject to actual situation

# Control Center

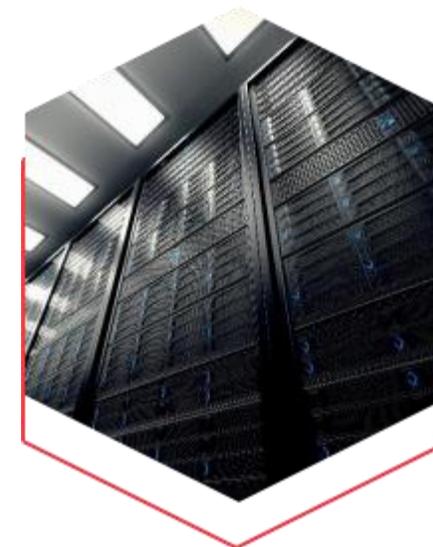
Not only a video wall



Centralized Monitoring

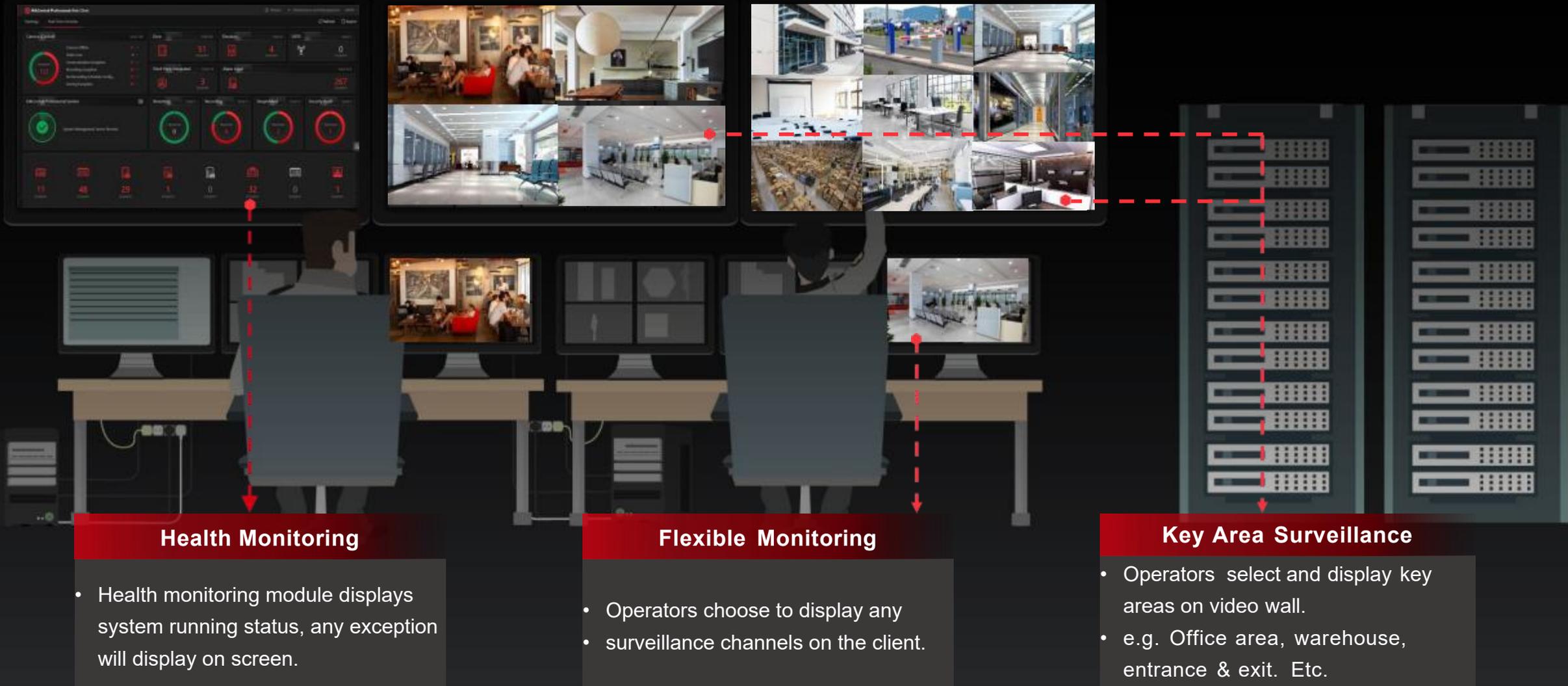


Quick Alarm Handling



Centralized Maintenance

# Overview On A Typical Surveillance Center



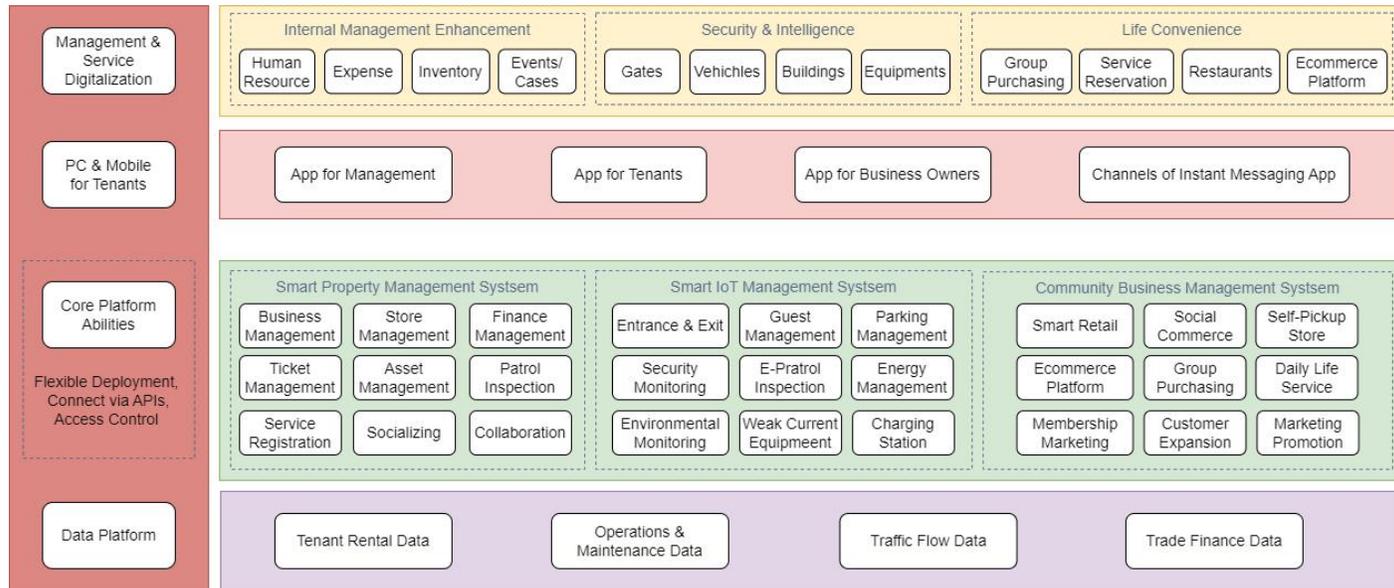
# Smart Community Platform



---

# Overview

# System Overview



## Property Management

Understand the status of different scenarios within the community, the running status of equipments, and the real-time data on various operational metrics. Helping users quickly identify and solve problems, and improving the overall operational efficiency.

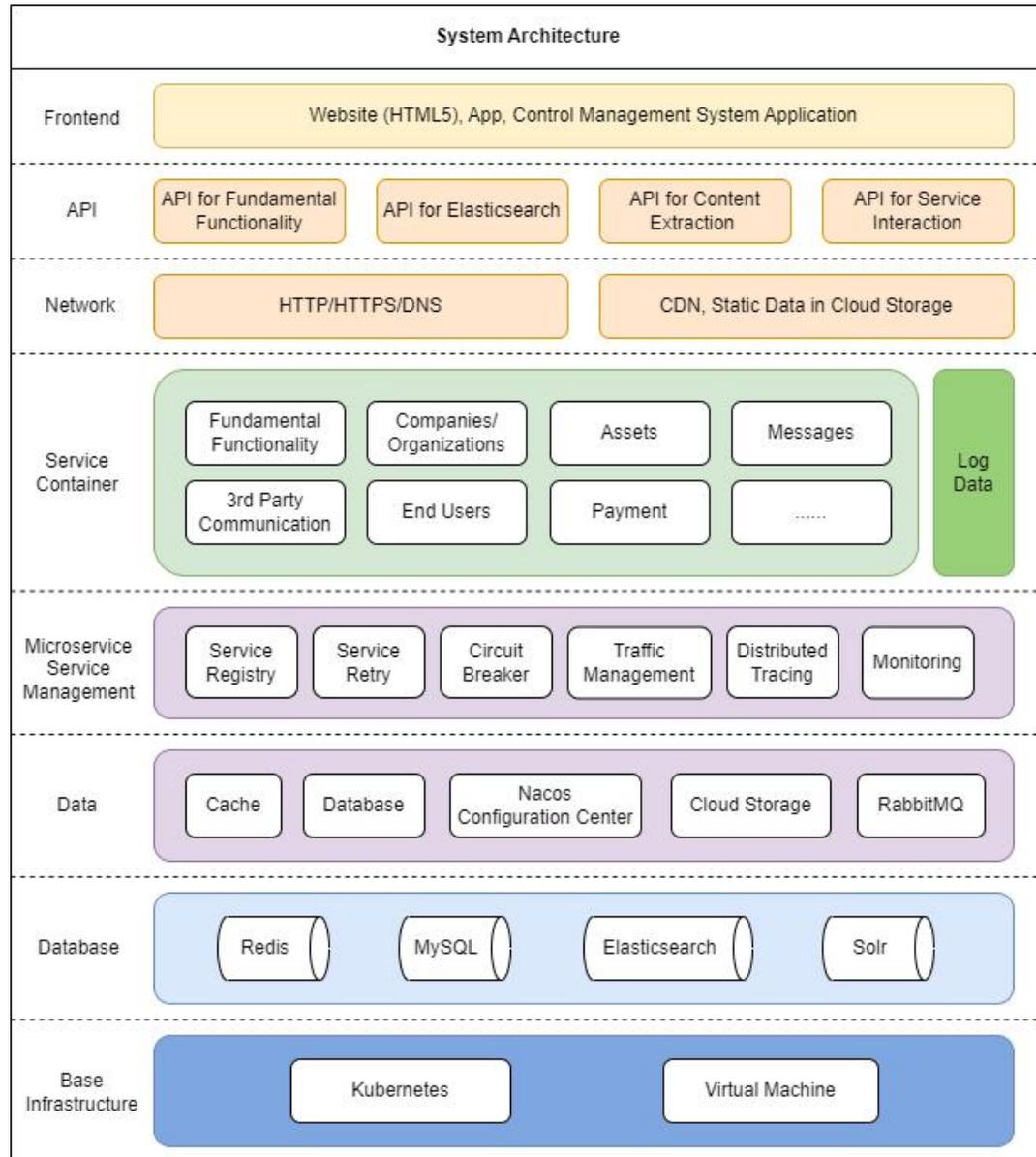
## Life Convenience

Establish detailed management procedures and build up a full-cycle service system to ensure error-free management and effectively shorten the construction period, which improves the customer satisfaction.

## Security & Intelligence

Being assisted by the security hardwares, accurate monitoring and auto-adjustment of the indoor environment can be achieved. This creates an efficient and human-friendly construction management environment.

# System Architecture



## Microservice Architecture

Break down the monolithic system into small and independent services in order to make the software more flexible, maintainable, and scalable. Cloud-native Kubernetes deployment and load balancing are supported.

## Programming Language

Support PHP version 8.1 and MySQL database version 8.0. Other programming languages such as Java and Go are also supported.

## Development Support

Technical documentation, deployment documentation, operation support, and online technical support are provided. Ensure our customers could quickly understand the source code, which make the continuous feature development easier when it is needed.

# Delivery Types

## SaaS Service

Use SaaS cloud services to access all the functionality.

## On-Premise Deployment

Deploy the system in the on-premise servers in the customer's local data center, which ensures the customer's business data are stored privately.

## Custom Development

According to the customer's requirements to customize the solution.

## Third-Party Service Integration

Develop API to transfer data with third-party systems. Backend database direct connection with third-party systems could be available on demand.



## Smart Community Management System Supports On-Premise Deployment and Custom Development

- ✓ **Applicable for multiple scenarios:** Office buildings, smart communities, shopping centers/malls, apartments, industrial parks.
- ✓ **Multiple functionalities:** Asset management, rental management, agent management, mobile office, property management, meeting room management.
- ✓ **Digital Process Management:** Lease, operation, management, contract, fees, CRM.
- ✓ **Smart IoT:** Parking management, charging piles, access control, elevators, and other facilities.
- ✓ **Business operation system:** Support for various business models such as eCommerce platform.

---

# Functionality

# Product Matrix

## Digitalization



- Intelligent collaborative system manages both internal and external end users for property management companies.
- Based on the five online services of human resources, finance, goods, and events, improve the customer satisfaction of property management services.

## Intelligent Financial Management



- Auto-generate financial vouchers and rapid financial reconciliation.
- The system supports multi-dimensional report statistics, making data such as receivables and outstanding balances more accurate and financial management more intelligent.

## Convenient Access for Property Owners



- Provide property owners with diverse lifestyles in the community, which helps to meet the various needs for the residents in the community and improve their life quality.
- This will drive the continuous business development for the community's service industry.

## Intelligent Community



- The hardware devices among the community are interconnected with each other, which upgrades the security level to the intelligent technical defense, and thus, improves the user experience.

## Increasing Community Traffic



- Provide daily-life online and offline services for the community residents.
- Transform the after-sales service model into a long-term model that could continuously grow the cash flow from daily consumption.

# Digitalization

Intelligent collaborative system manages both internal and external end users for property management companies. Based on the five online services of human resources, finance, goods, and events, improve the customer satisfaction of property management services.

**CRM for Owner** 01

**Ticket Management** 02

**Patrol Inspection Management** 03

**Utility Meter Reading** 04

**Asset Management & Operation** 05

# Owner CRM

## Property Owner Management

Community administrators can easily record and update property owners' personal information, such as names, contact numbers, etc. This helps establish accurate profiles for each owners and ensures that they can be contacted in time when needed.

## Tracking Complaints and Maintenance Requests

Property owners submit complaints and maintenance requests through the system, which helps the operation team effectively track and address the issues. The community can provide better services by problem recording, task assignment, priority setting, and progress tracking.

## Financial Billing Management

Generate, track, and report financial billings, including payment calculation, billing generation, expense tracking, and financial reporting.

## Facility Management

Manage property owners' utility billing reports and parking information, gain better understanding of expenses, and maintain accurate financial records. It helps improve the overall satisfaction of the property owners and reduce the complexity of management.

The screenshot displays the Owner CRM interface, divided into several functional areas:

- Property Management (Left Panel):** Shows a list of properties with columns for 'Space' (空间), 'Area' (面积), and 'Status' (状态). The status is categorized into 'Vacant' (空置中), 'Already Leased' (已租赁), and 'Already Occupied' (已入住).
- Financial Billing (Main Panel):** Displays a summary for a selected property (501). It includes a table for 'Overdue and Bill Count' (逾期账单数) with columns for 'Total Due' (累计欠水), 'Required Amount' (需收金额), and 'Outstanding Bills' (待开发票). Below this is a 'Bill Record' (账单记录) table with columns for 'Bill Number' (账单编号), 'Due Time' (应收时间), 'Bill Type' (费用类型), 'Bill Status' (账单状态), and 'Overdue Status' (逾期状态).
- Facility Management (Right Panel):** Shows a list of bills with columns for 'Bill Type' (账单类型), 'Amount' (金额), 'Status' (状态), and 'Due Date' (应收日期).

逾期账单数	累计欠水	需收金额	待开发票
3	0.00	40,637.00	0

账单编号	应收时间	费用类型	账单状态	逾期状态
JSHY-20231025-092203	2023-10-25	物业费	正常	待收款
EPSX-20231025-092416	2023-10-25	电梯能耗费	正常	待收款
9XNE-20231025-092416	2023-10-25	垃圾清理	正常	待收款

账单类型	金额	状态	应收日期
物业费	¥10.00	逾期	2023-09-07
物业费	¥10.00	逾期	2023-07-02
停车费	¥20.00	逾期	2023-08-21
停车费	¥30.00	逾期	2023-08-20
物业费	¥10.00	逾期	2023-08-18

# Ticket Management

## Repair Report Form

Submit online repair requests with problem descriptions or photos.

## Ticket Assignment

The system automatically assign tickets to corresponding engineers, and the engineers acknowledge the ticket and handle the issues offline.

## Ticket Processing

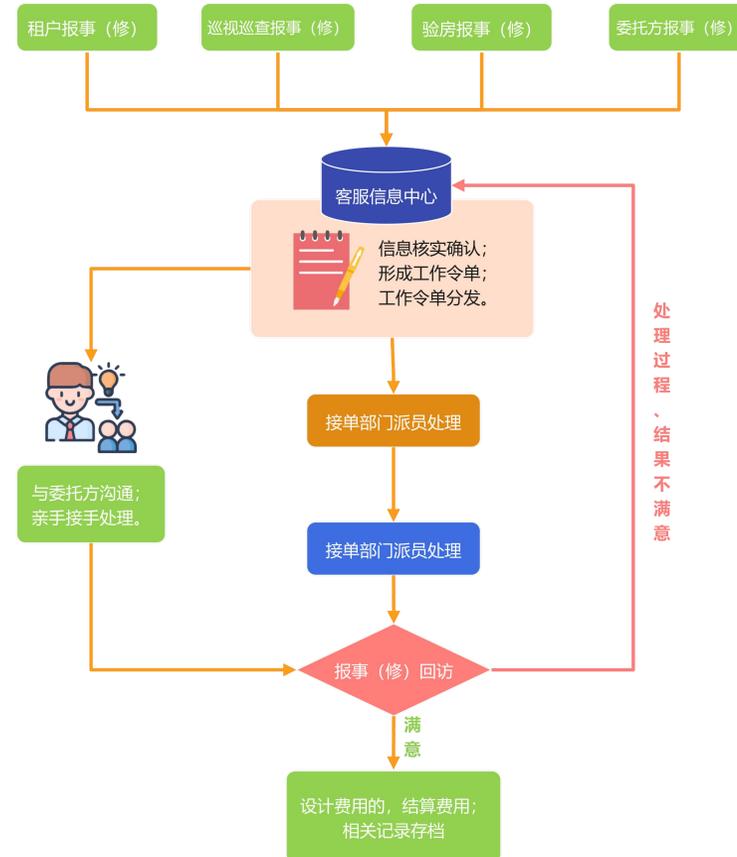
Standardized operation procedures. Track the ticket progress real-time.

## Online Survey from Property Owners

Property owners can complete online survey to leave comments on the service quality, which guarantees the maintenance service process and the results more transparent, thereby improving the overall satisfaction.

## Data Tracing and Analysis

Maintenance data can be queried and categorized for statistical analysis, and data export is also supported.



# Patrol Inspection Management

## Intelligent Task Assignment

Define nodes, tasks, and operation instructions just once beforehand. Assign regular inspection tasks to make the task assignment easier and management more efficient.

## Full Coverage Inspection

Support seamless switching between online and offline modes, and achieve full coverage of inspection areas.

## Cheating Against Mechanism

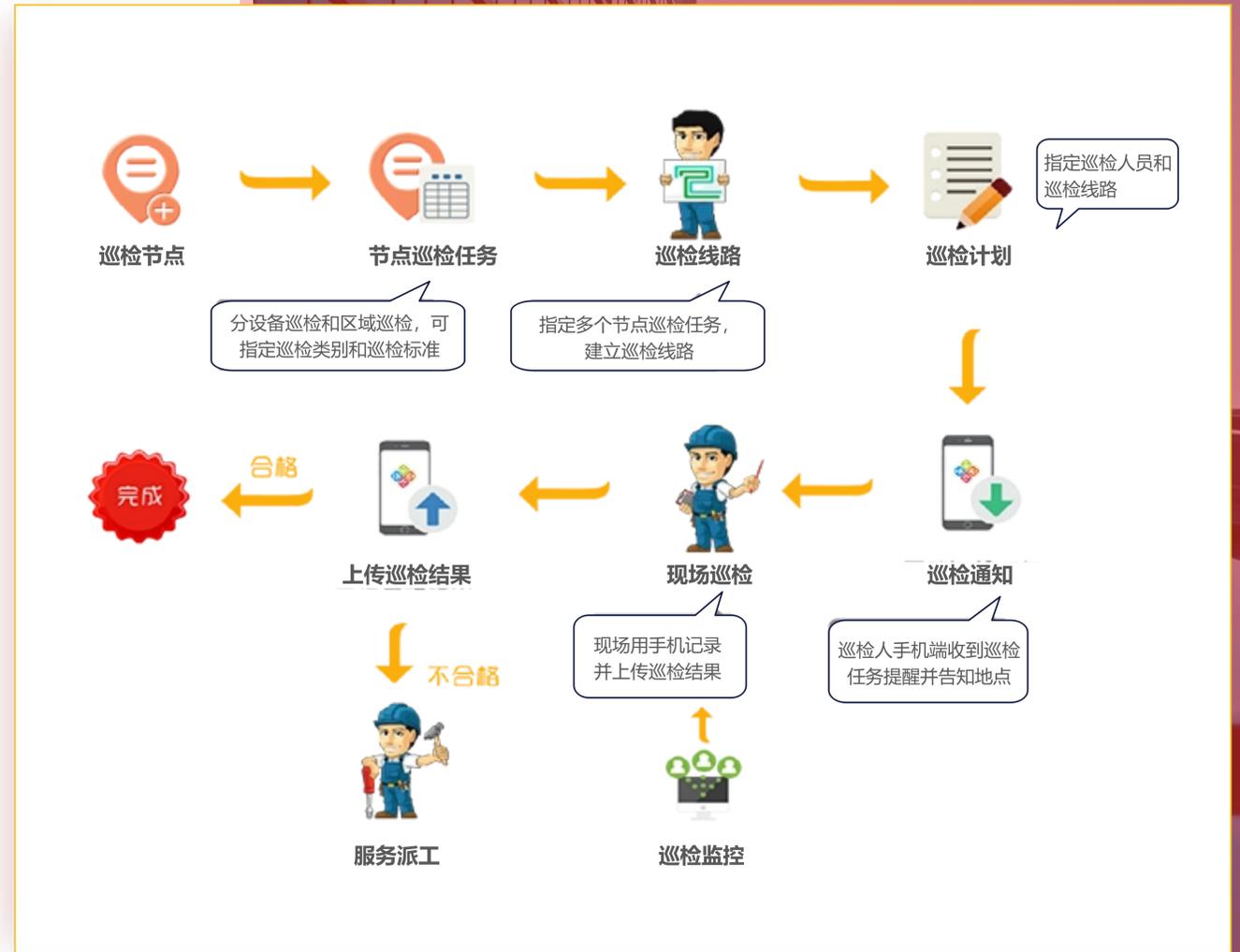
Based on the coordinate analysis and comparison as well as the comparison of the picture timestamps, the cheating against mechanism makes patrol inspection more efficient and manageable.

## Process Management

Provide managers with a convenient inspection monitoring center to make it easier to handle the abnormal tasks with execution efficiency.

## Manageable Outcomes

During the inspection process, unqualified inspection issues will trigger the service tickets, and notify the engineers to address the issues on time.



# Utility Meter Reading

## Customized for Different Scenarios

Applicable to different power consumption scenarios, and able to develop more intelligent power consumption statistics solutions based on the specific requirements of the community.

## Online Meter Reading

Electricity and water usage data are transmitted to the backend system, eliminating the need for manual meter reading and saving repetitive labor costs.

## Auto Billings of Utility and Shared

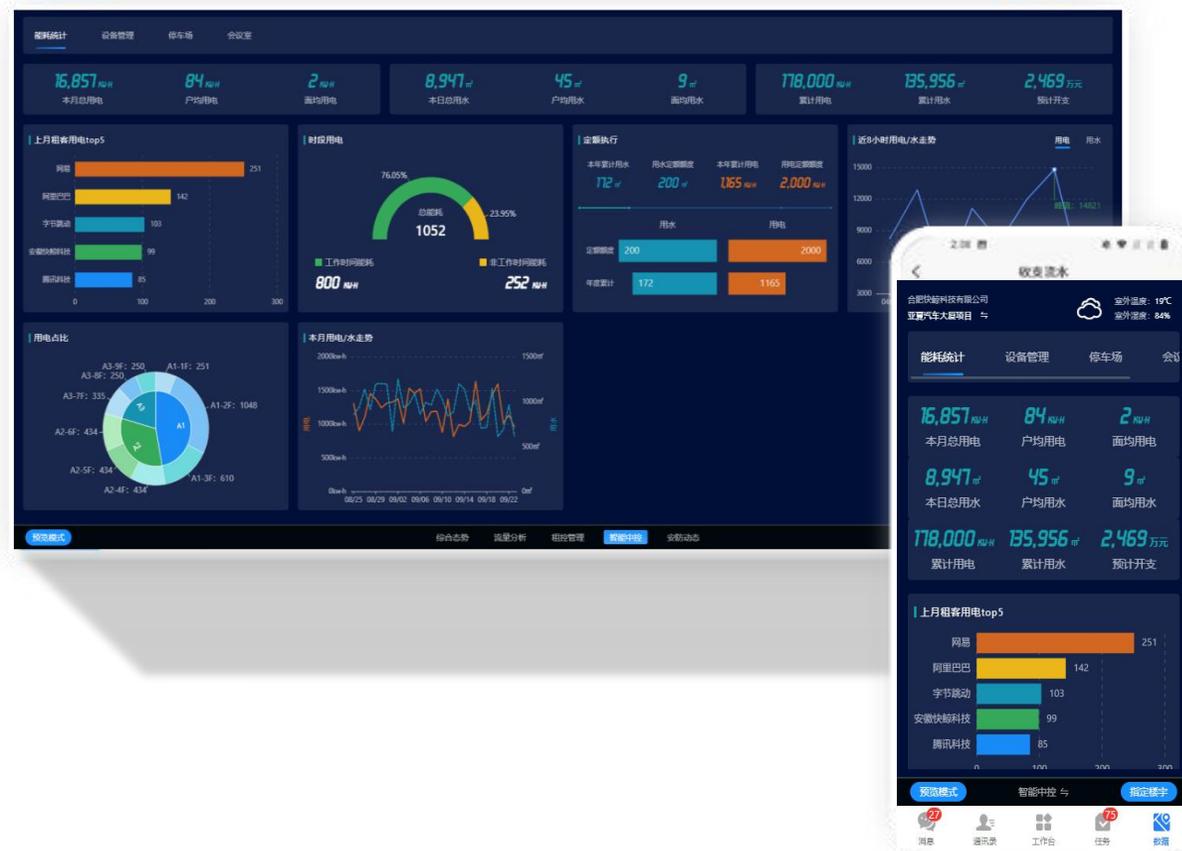
Based on utility meter readings, common area sizes, and calculation ratios, the system automatically calculates the billings for monthly utility and common area with high accuracy.

## Topping-up

Top up smart utility meter to avoid any inconvenience due to untimely payment.

## Online Notification for Billing Reminders

Various billings generated by the system can be sent to the property owners through SMS, email, and other methods, reducing the efforts to remind each individual owner to pay their billings manually.



# Asset Management & Operation

## Resource Conservation and Cost Control

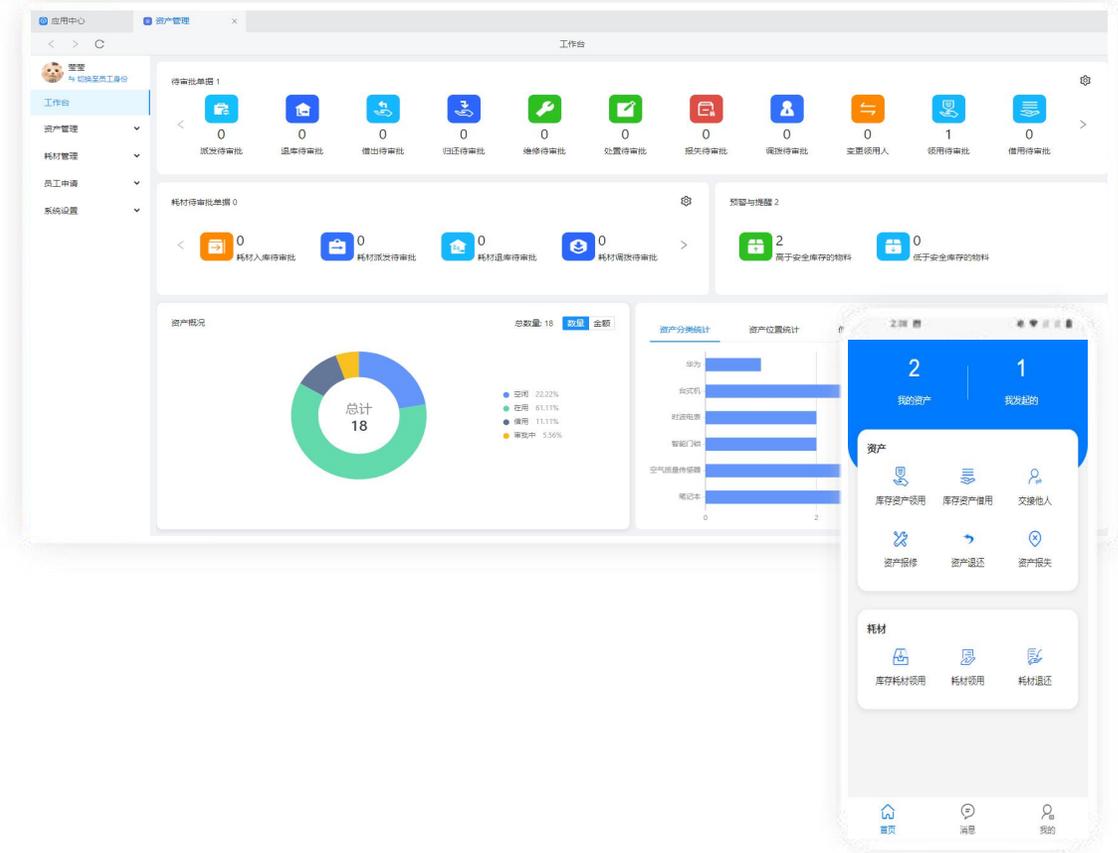
By reasonably managing the inventory entry, requisition, and distribution processes, the resource consumption can be controlled. Meanwhile, data analysis and reporting functions are provided to monitor the resource consumption in order to optimize the inventory management, and thus, reduce the costs.

## Resource Tracking and Security

Record the inventory return, borrowing, and return of the resources to accurately track the flow and the usage of resources, which improves the security of the inventory and prevents the loss of resources. Admins can verify the inventory and loaned quantities to ensure the effective utilization and reasonable allocation of resources.

## Maintenance and Troubleshooting

Record and track the facility maintenance requests and progress. Admins can respond to the requests on time, arrange maintenance operators to handle the requests, and monitor the progress. This guarantees the healthy status of facilities, reduces downtime, and minimizes business impact.



# Asset Management & Operation - Store Operation Assistant Toolings

## Store Status Management

By monitoring real-time data such as store rental status and vacancy rates, the operators can understand the leasing situation of property sources more conveniently, which allows the operators adjust the leasing strategies and pricing in a timely manner, and therefore minimize vacancy time, and increase rental income.

## Tenant CRM

Track the lifecycle management of tenants' properties and the tenants' intention changes, which enables the amins to follow-up the progress in time.

## Contract Digitization

Implement standardized process management for store leasing, and conduct online lifecycle management of contracts. Auto-generate the payment and collection plans and expiration warnings. Quickly send the reminder letters with just one click, and remind operators to follow up in time to reduce vacancy rates.

The screenshot displays a comprehensive software interface for store operation management. At the top, a section titled "多项目统一管理" (Multi-project unified management) features four images of different commercial buildings. Below this, a grid of property cards is visible, each showing details like area (e.g., 1002 (0m²), 1003 (0m²), 1004 (0m²)) and vacancy status (e.g., 空置304日). A prominent blue button labeled "合同全周期管理" (Contract full-cycle management) is overlaid on the grid. To the right, three icons represent "快速生成合同" (Quickly generate contracts), "合同归档整理" (Contract archiving and organization), and "合同视图查看" (Contract view checking). A central navigation menu includes "合同" (Contract), "财务" (Finance), and "应用" (Application). A floating window titled "所有账单" (All bills) shows a list of transactions with columns for "收款" (Receipt) and "付款" (Payment), including amounts like 1,525,006.61 and 21,341.00. Another floating window shows "自动生成各类报表" (Automatically generate various reports). A "到期催缴通知" (Due payment reminder) notification is also present. At the bottom right, a "租客精细化管理" (Tenant精细化管理) section includes a "设置备注和描述" (Set remarks and description) field, a "标签" (Tag) dropdown, and a "智能/退租" (Smart/Withdrawal) button. The interface is clean, modern, and uses a color palette of blues, greens, and oranges.

# Asset Management & Operation

## - Store Status Management

### Rental Status Check

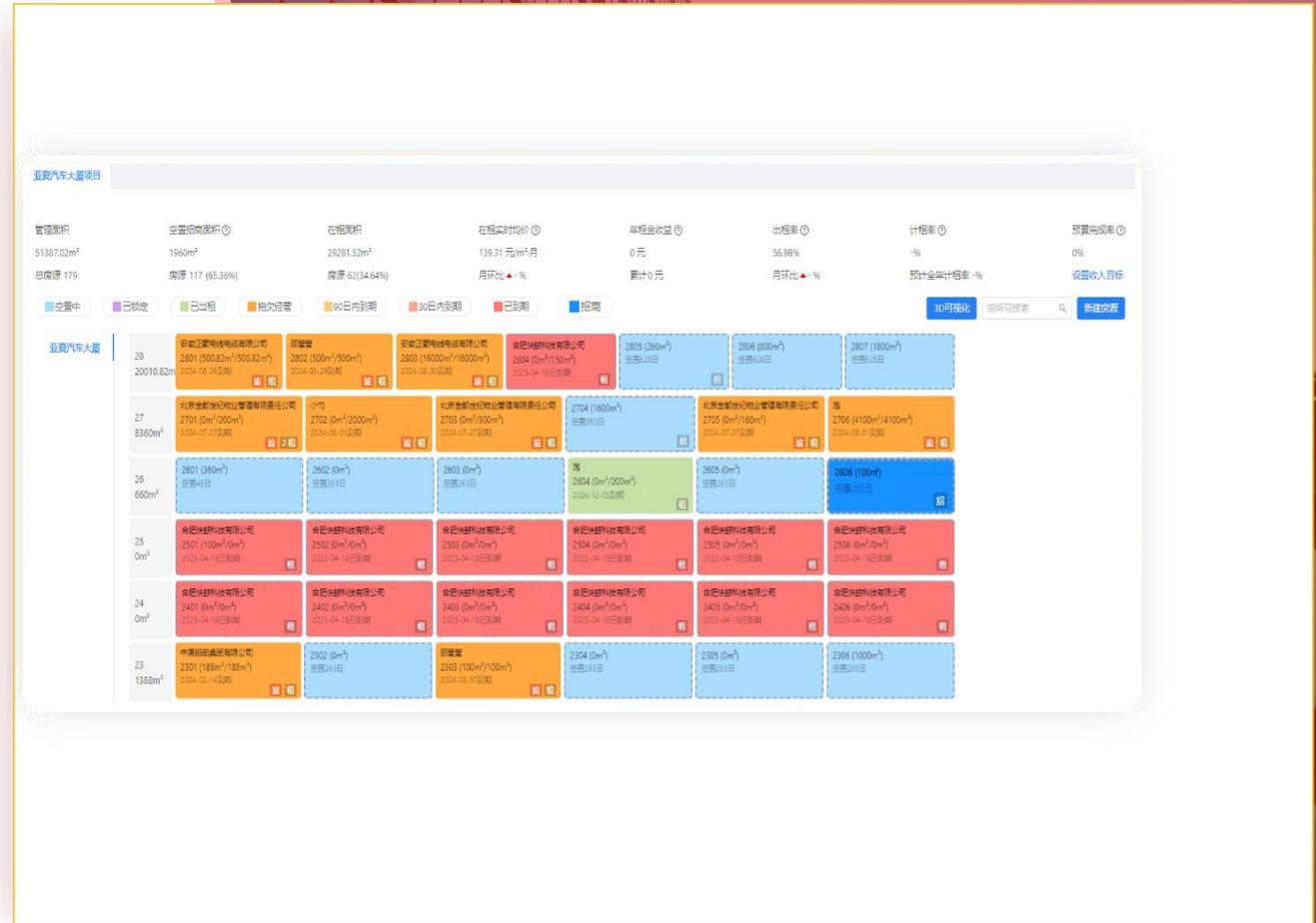
Quickly view the rental status of store listings in the community. The information is displayed for all projects across various dimensions through lists, sectional views, and other formats. This allows a comprehensive understanding of project dynamics status and also enables fine-grained management.

### Key Information Highlight

Each property block displays the latest contract information, as well as the number of contracts and an overview of contract terms for the property.

### Visualized Sectional View

Multiple colors are used to distinguish available listings for leasing, as well as listings with different expiration dates. The admins can click each block to view more details.



# Asset Management & Operation

## - Tenant CRM

### Tenant Details

Multi-dimensional data related to tenants, including enterprise information, lease information, billing information, etc.

### Tenant History

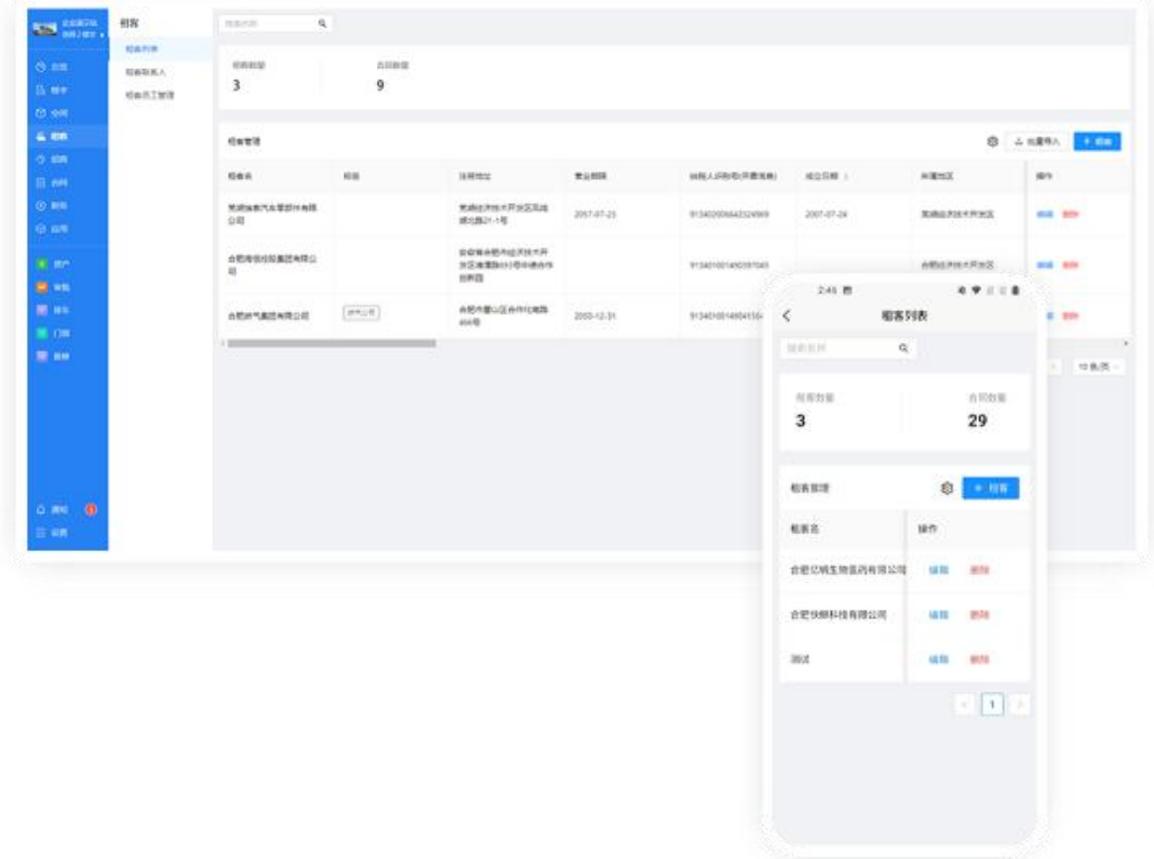
The full lifecycle data of a tenant from entry to exit.

### Tenant Contacts

Include information such as email, phone number, address, and job titles, which enables the billings and various notifications sending on time.

### New Tenant

Tenant category, tenant name, tenant ID, tenant's working industry, tax grade, annual income, and tenant type, etc.



# Asset Management & Operation - Contract Digitization

## Full-ecosystem Electronic Contract Service

The digital management of the entire lifecycle of the contract includes the early stages of contract, counterparty authentication, template management, drafting, compliance approval, electronic signing, performance control, digital archiving.

## Auto E-Contract Generation

Perform operations such as new signing, modification, renewal, lease termination, cancellation, carry-forward, and etc; use various e-contract templates to conveniently create contract for different business scenarios.

## Online Submission and Approval of Contract

Achieve efficient cross-departmental collaboration, online management and control of the entire lifecycle of contract processes, and real-time approval notifications for better efficiency.

## Auto Payment and Collection Plans

Automatic generation of payment and collection plans, amortization, and financial vouchers based on contracts, which reduces the huge efforts for manual accounting time and improves efficiency.

## Auto Reminder for Expiring Contracts

Digital archiving involves not just the contract text, but also the approval information and performance information, which are all archived in digital format. It is more convenient to retrieve them with all the contract documents and data available.

The screenshot displays a comprehensive contract management system interface. At the top, there are navigation tabs for '应收账单自动计算' (Automatic Invoice Calculation), '合同到期自动归档' (Automatic Archiving of Contract Expiry), and '合同到期智能预警' (Smart Contract Expiry Warning). The main dashboard features several data cards: '待审批合同' (15), '待续签合同' (15), '到期未处理合同' (30), '即将到期合同' (15), and '正常执行合同' (15). Below these is a search and filter section for contract details. The central part of the interface is a '合同列表' (Contract List) table with columns for contract type, number, name, address, area, and dates. A '合同流程在线审批' (Online Contract Approval Flow) pop-up window is visible on the right, showing a '待审批' (Pending Approval) status for a contract with details like contract number 20210507001 and area 300m². The bottom of the interface includes a '合同电子在线生成' (Online Generation of Electronic Contracts) button.

合同类型	合同编号	楼宇名称	楼层-房号	面积	租客	签订日期	开始时间	结束时间
正式合同	20200001	医药谷	15-1505	196m²	北京字节跳动科技有限公司	1987-05-04	1987-05-04	1987-0
空挂合同	20200009	创智大厦	17-1708	198m²	趋势科技(中国)有限公司	1990-08-13	1990-08-13	1990-0
正式合同	20200010	医药谷	19-1901	196m²	阿里巴巴(中国)有限公司	1992-08-13	1992-08-13	1992-0
空挂合同	20200002	医药谷	15-1505	221m²	江苏卓昌科技股份有限公司	2017-04-01	2017-04-01	2017-0
空挂合同	20200003	医药谷	16-1603	196m²	中航国际有限公司	1976-04-01	1976-04-01	1976-0
空挂合同	20200004	医药谷	18-1806	222m²	南京百数软件有限公司	2008-04-01	2008-04-01	2008-0
空挂合同	20200005	创智大厦	15-1505	222m²	南京百数软件有限公司	2013-04-01	2013-04-01	2013-0
正式合同	20200006	创智大厦	13-1303, 13-1304	220m²	趋势科技(中国)有限公司	1972-04-01	1972-04-01	1972-0

# Intelligent Financial Management

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Auto-generate financial vouchers and rapid financial reconciliation. The system supports multi-dimensional report statistics, making data such as receivables and outstanding balances more accurate and financial management more intelligent.

**Charge Setting** 01

**Billing Management** 02

**Invoice & Receipt Management** 03

**Income & Expenditure Management** 04

**View Income & Expenditure Transactions** 05

# Charge Setting

## Set Charging Standards

Admins can set various charging standards in the backend system, including rent, utility fees, property management fees, etc. It provides flexibility and customization to meet the specific needs of different properties and rooms.

## Batch Property Binding

Admins can apply charging standards to multiple rooms in batches and generate the corresponding billings. Batch processing can reduce the time and workload of manual operations, thereby improving efficiency.

## Billing Settlement Method

Property owners can quickly settle their fees through the cashier counter using various payment methods such as cash and cards. Additionally, property owners can also pay their fees online through mobile applications, providing a more convenient payment method.

生成账单

收费标准名称: 物业费 计费模式: 单价 单价(元): 10.00  
标准生效日期: 2023-10-25 标准失效日期: 2024-10-25 状态: 生效中

请选择房源

楼栋  
小区  
1栋  
2单元

基本信息

费用类型: 物业费 收费标准名称: 物业费 单价(元): 10.00 计算单位: 元/天  
付款时间: 按开始延后 日期计算方式: 自然日 缴费时间: 2023-11-02 - 2024-11-01 计费拆分规则: 按30天计费

账单拆分/预缴设置

账单拆分周期(月一集): 3 30天/月

账单预交(非预缴账单)

账单起止时间	实际天数	费用类型	单价	应收时间	应收金额
2023-10-25 - 2024-01-22	90	物业费/物业费	10.00元/天	2023-10-25	900.00
2024-01-23 - 2024-04-21	90	物业费/物业费	10.00元/天	2024-01-23	900.00
2024-04-22 - 2024-07-20	90	物业费/物业费	10.00元/天	2024-04-22	900.00
总计				费用应收总计: 3670.00元	总天数: 367天

取消 开始生成账单

# Billing Management

## Summary of Multi-Type Expenses

Bills for various types of expenses to be collected or paid

## Filter Billings by Multi-Dimensions

Clients can filter unpaid billings for the current period, overdue unpaid bills, self-created unpaid bills, etc.

## Custom Statistical Report

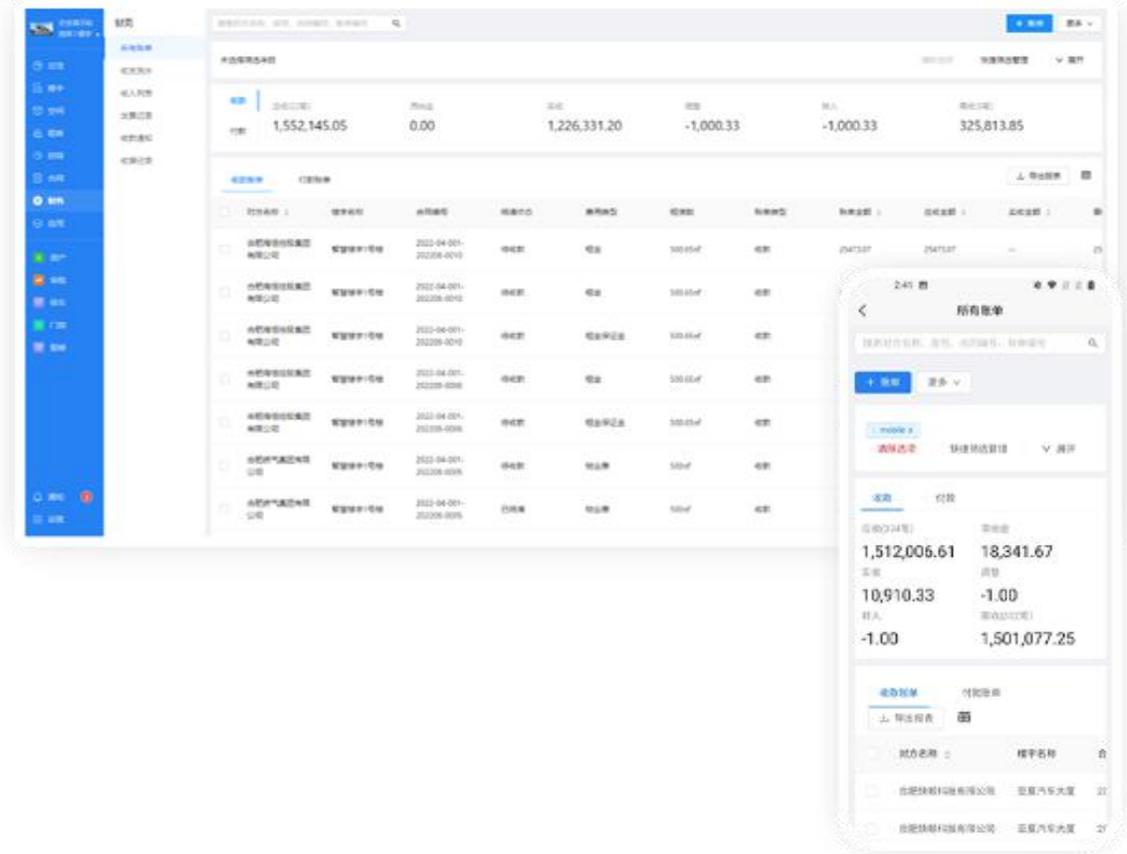
Report export, list customization, monthly report export, monthly collection details

## Multi-Dimensional Query & Filtering

Support searching billings by property owner name or room number. Filter bills by time, receivables and payables, bill settlement status, etc.

## Auto-Matching for Bill Transactions

One-click matching of bill transactions for intelligent verification and quick reconciliation.



# Invoice and Receipt Management

## Invoice Issuance

Clients can select bills of the same or different expense types to record invoice information

## Invoice Records

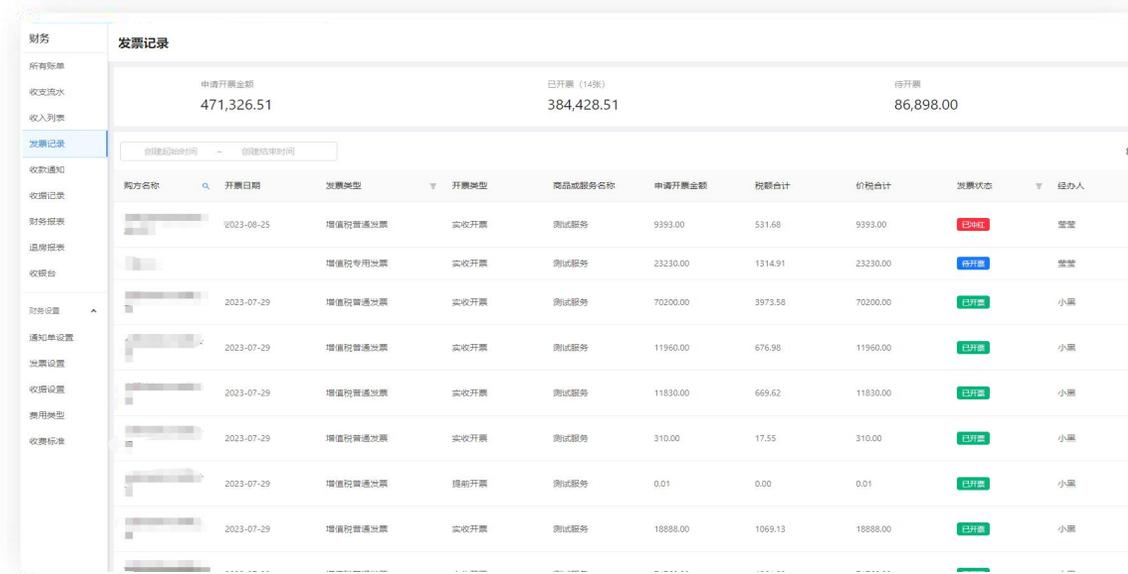
Electronic invoice information can be generated based on bill details, and sent to customers directly. Additionally, SMS notifications, email notifications, and download/printing options are available.

## Invoice Inquiry

Clients can query historical electronic invoice information and download/print it.

## Receipt Management

Receipts can be issued, generated, sent, received, and voided. Receipts can also be downloaded, printed, and saved to receipt records.



The screenshot displays a web interface for invoice management. At the top, there are summary statistics: '申请开票金额' (Applied Invoice Amount) of 471,326.51, '已开票 (14张)' (Issued Invoices (14)) of 384,428.51, and '待开票' (Pending Invoices) of 86,898.00. Below this is a table with columns: '客户名称' (Customer Name), '开票日期' (Invoice Date), '发票类型' (Invoice Type), '开票类型' (Billing Type), '商品或服务名称' (Goods/Service Name), '申请开票金额' (Applied Invoice Amount), '税额合计' (Total Tax Amount), '价税合计' (Total Invoice Amount), '发票状态' (Invoice Status), and '经办人' (Handler). The table lists several invoices from 2023-08-25 to 2023-07-29, with statuses like '已开票' (Issued) and '待开票' (Pending).

客户名称	开票日期	发票类型	开票类型	商品或服务名称	申请开票金额	税额合计	价税合计	发票状态	经办人
[Redacted]	2023-08-25	增值税普通发票	实收开票	测试服务	9393.00	531.68	9393.00	已开票	莹莹
[Redacted]		增值税专用发票	实收开票	测试服务	23230.00	1314.91	23230.00	待开票	莹莹
[Redacted]	2023-07-29	增值税普通发票	实收开票	测试服务	70200.00	3973.58	70200.00	已开票	小渠
[Redacted]	2023-07-29	增值税普通发票	实收开票	测试服务	11960.00	676.98	11960.00	已开票	小渠
[Redacted]	2023-07-29	增值税普通发票	实收开票	测试服务	11830.00	669.62	11830.00	已开票	小渠
[Redacted]	2023-07-29	增值税普通发票	实收开票	测试服务	310.00	17.55	310.00	已开票	小渠
[Redacted]	2023-07-29	增值税普通发票	提前开票	测试服务	0.01	0.00	0.01	已开票	小渠
[Redacted]	2023-07-29	增值税普通发票	实收开票	测试服务	18888.00	1069.13	18888.00	已开票	小渠



# View Income & Expenditure Transactions

## Allocate Rent for Each Period

According to the accrual system, generate financial income, which greatly reduces the workload of accountants for preparing rent allocation tables.

## Calculate Income Data

Planned income for the current month (including/excluding tax), confirmed income for the current month, pending confirmation income for the current month, and other data.

## Filter and Export Reports

Income can be queried and filtered by expense type, income type, etc. Reports can be exported accordingly.

The screenshot displays a financial management system interface with a sidebar on the left and a main data table. The sidebar includes options like '所有账单', '收支流水', '收入列表', '发票记录', '收款通知', '收据记录', '账单报表', '账单设置', '收据设置', and '费用类型'. The main table shows a summary of income and expenditure data at the top, followed by a detailed list of transactions with columns for '对方名称', '费用类型', '应收金额', '匹配金额', '楼宇名称', '房号', '账单编号', '确认状态', '账单状态', '流水状态', '费用周期', and '操作'.

当月应收 (含税)	当月应收 (不含税)	当月实收 (含税)	当月实收 (不含税)	当月已确定收入	当月待确定收入
3,148,946.48	3,115,491.11	8,344.12	8,261.5	0	8,344.12

对方名称	费用类型	应收金额	匹配金额	楼宇名称	房号	账单编号	确认状态	账单状态	流水状态	费用周期	操作
邵莹莹	物业费	5655	5655	亚夏汽车大厦	9-901	PYBE-20230907-141547	待确认	已结束	完全匹配	2024-08-07 - 2024-08-07	详情 确认
邵莹莹	物业费	8344.12	5000	亚夏汽车大厦	82-1.82-b203	QL1E-20230831-162712	待确认	部分待清	完全匹配	2023-12-01 - 2023-12-01	详情 确认
邵莹莹	物业费	8344.12	2148.81	亚夏汽车大厦	82-1.82-b203	QL1E-20230831-162712	待确认	部分待清	完全匹配	2023-12-01 - 2023-12-01	详情 确认
邵莹莹	物业费	8074.95	8074.95	亚夏汽车大厦	82-1.82-b203	SMVT-20230831-162712	待确认	已结束	完全匹配	2023-11-01 - 2023-11-01	详情 确认
邵莹莹	物业费	8344.12	8344.12	亚夏汽车大厦	82-1.82-b203	XEFG-20230831-162712	待确认	已结束	完全匹配	2023-10-01 - 2023-10-01	详情 确认
邵莹莹	物业费	8344.12	4888.12	亚夏汽车大厦	82-1.82-b203	FJYS-20230831-162712	待确认	已结束	完全匹配	2023-08-31 - 2023-08-31	详情 确认
邵莹莹	物业费	8344.12	3456	亚夏汽车大厦	82-1.82-b203	FJYS-20230831-162712	待确认	已结束	完全匹配	2023-08-31 - 2023-08-31	详情 确认
合肥绿野科技有限公司	电费	10.64	10.64	亚夏汽车大厦	1-101	IO2C-20230814-175744	待确认	已结束	完全匹配	2023-08-14 - 2023-08-14	详情 确认

# Convenient Access for Property Owners

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Provide property owners with diverse lifestyles in the community, which helps to meet the various needs for the residents in the community and improve their life quality. This will drive the continuous business development for the community's service industry.

## Low-frequency but High Priority Service-oriented Applications

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01

- Online Payment
- Service Request
- Community News Feed

## High-frequency and Diverse Social Connection

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02

- Neighborhood Forum
- Community Events
- Online Survey

# Online Payment

## Online Payment

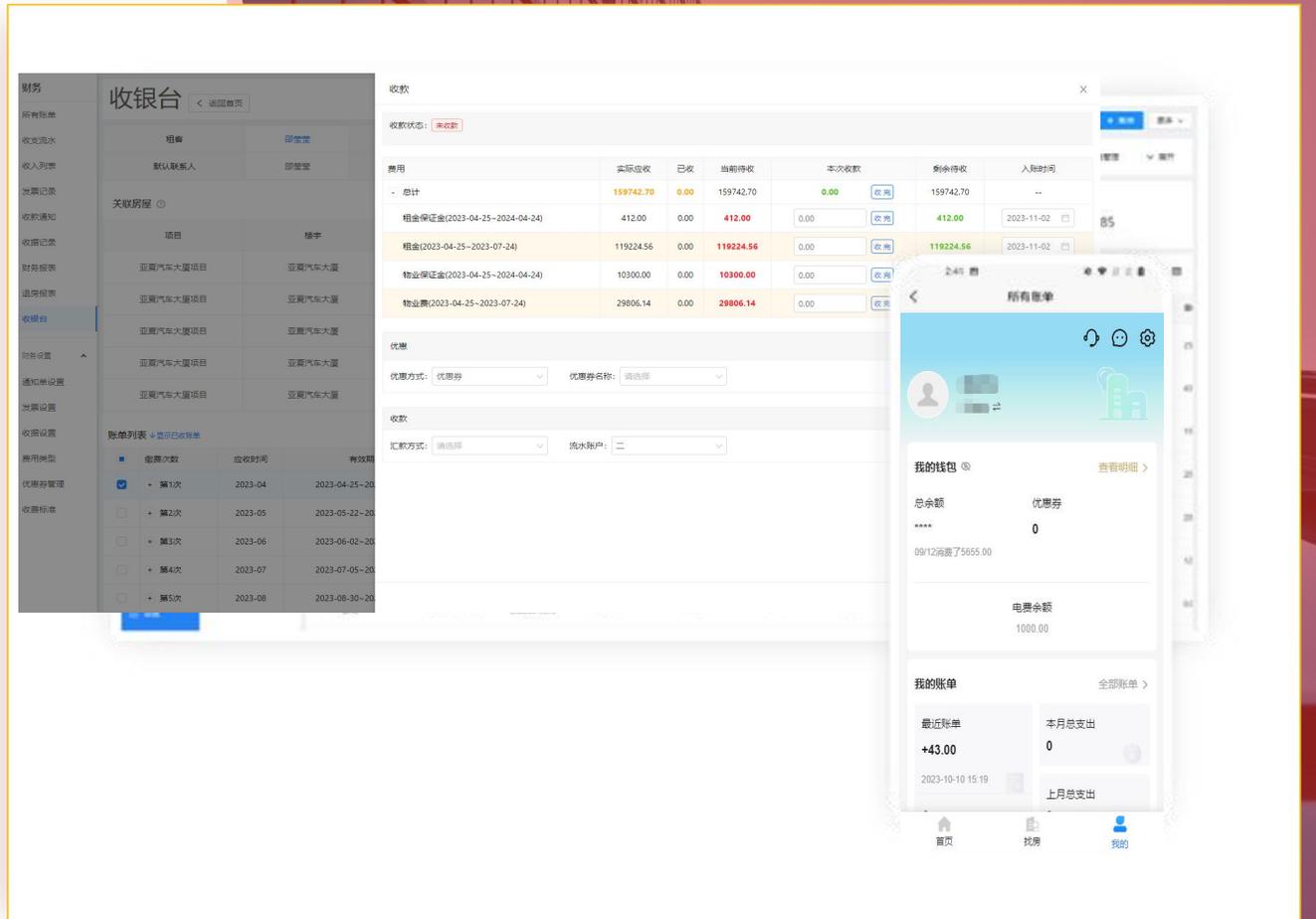
Property owners can pay bills through online methods, including mobile applications or websites for payment, which is convenient and efficient, allowing owners to complete payment anytime and anywhere, and avoiding the time and location restrictions of traditional offline payment methods.

## Offline Payment

Owners can pay bills at the property management office. The administrator can quickly search for the corresponding billings of the owner through the cash register and perform the collection operation. This method provides more options for some owners who are not familiar with or unable to use online payment methods.

## Online Payment Reminder

Administrators can select billings that require reminders, and then automatically send notifications or messages to the relevant owners through the system to remind them to pay their unpaid bills in time. This feature simplifies the reminder process and improves efficiency.



# Visitor Management

## Mobile App

Provide mobile app options, including instant messaging and APPs for convenient appointment, application, and approval anytime.

## Seamless Access

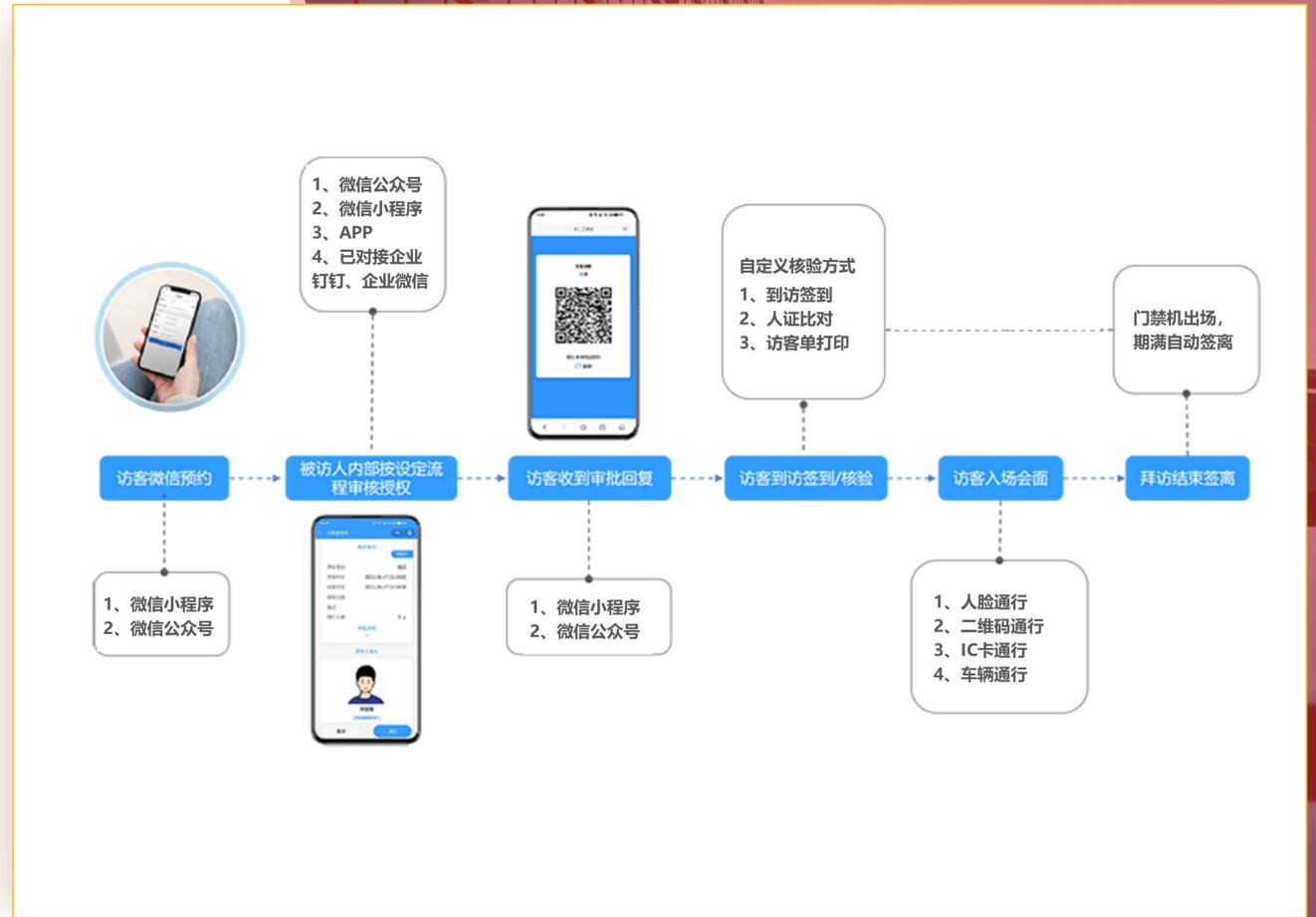
Provide e-pass services. Utilizing advanced AI technologies such as face recognition, QR code, and license plate number recognition to achieve seamless access. Integrate the entry and exit of visitors, employees, vehicles, etc.

## Process Management

Provide powerful and flexible approval process management, which can be integrated with the management processes of the organization, reducing human intervention and enhancing the regulation of the organization.

## Account Permissions

The platform supports creating multiple accounts, supports functions such as adding, deleting, and modifying accounts, supports multiple accounts login simultaneously. Different accounts can be assigned with different permissions. Dedicated operational accounts of the platform manage the data independently.



# High-frequency and Diverse Social Connection

## Community News Feed

Timely communicate relevant information to homeowners, enhance their convenience in daily life, and promote effective communication and interaction between homeowners and property management.

## Neighborhood Forum

Provide a space for communication and interaction, allowing property owners to talk freely, which enhances the interaction and cooperation among the community. thereby strengthening the community cohesion and residents' participation.

## Community Events

Organize and increase the social connection among property owners. Through various activities, grow communication among the community and provide a comfortable and harmonious living environment.

## Online Survey

Collect opinions, feedback, and needs from property owners to help property management admins understand the demands and satisfaction level, thereby improving their living experience.



# Intelligent Community

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The hardware devices among the community are interconnected with each other, which upgrades the security level to the intelligent technical defense, and thus, improves the user experience.

Smart Lock

01

Video Surveillance

02

Smart Water and Electricity

03

Smart Parking

04

Smart Charging Pile

05

## AI Smart Security

- Panoramic Surveillance
- E-Patrol Inspection
- Parking and Management for Vehicles
- Charging for Vehicles

## IoT

- Face Recognition Access Control
- Weak Electricity Equipment
- Personnel Access Control



# Face Recognition Access Control

## Face Recognition

Staff members within the community can register their faces and then use face recognition to enter the gate. This prevents unauthorized personnel from entering the community area.

## Visitor Access

Visitors can apply for access through mobile devices by taking a photo and filling out the necessary information. After approval, visitors can use face recognition to access the designated area.

## Real-time Monitoring and Tracking

The face recognition access control system can monitor personnel entering and exiting the community in real-time and record relevant information such as time and location. When it is necessary, the system can be used to query the access records of specific personnel, assisting later stage tracking and management.

## Data Analyzing and Calculating

The access control system can collect a large amount of entry and exit data. By analyzing and calculating the data, it can obtain the behavior patterns and trends of employees entering and exiting the community, which provides references for decision-making for the management level.



# Video Surveillance

## List of Advanced Devices

The system auto calculates the current day's total number of alarms, the number of processed alarms, the number of unprocessed alarms, and etc. The device's alarm information can be directly processed or reported to the online ticket system.

## Video Management Platform

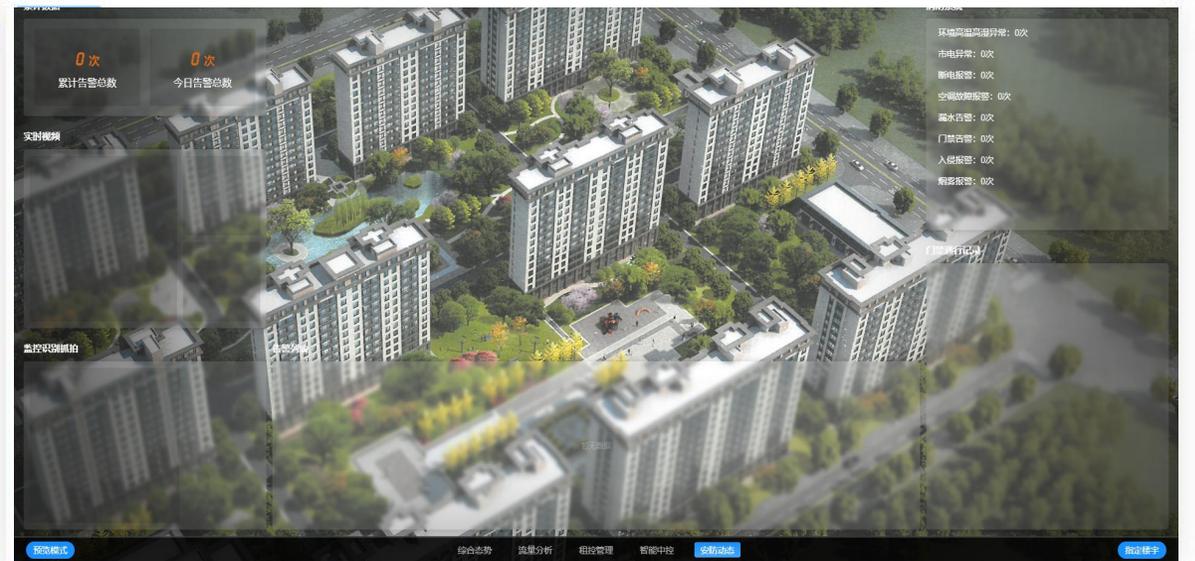
Through the video management platform, admins can manage video surveillance devices. This platform enables the management of video surveillance for different dimensions such as project, building, device, and channel, providing a more convenient way for management.

## List of Channels

By adding video surveillance in device management, admins can check the channel information of video surveillance devices in the channel list, including device number, channel name, channel status, and other information. Admins can also activate function of the standard streaming preview.

## Data Analyzing and Calculating

Admins can configure video surveillance based on their needs for the project. Admin can configure different alarm handling methods when video surveillance devices trigger alarms.



# Charging Pile

## Customized Charging Standards

Electric bicycle/car charging piles support customized charging methods, allowing different charging fee standards to be set based on different needs, including charging by time, by electricity consumption and etc. This provides convenience for community admins to make flexible adjustments based on actual situations.

## View Charging Status Online

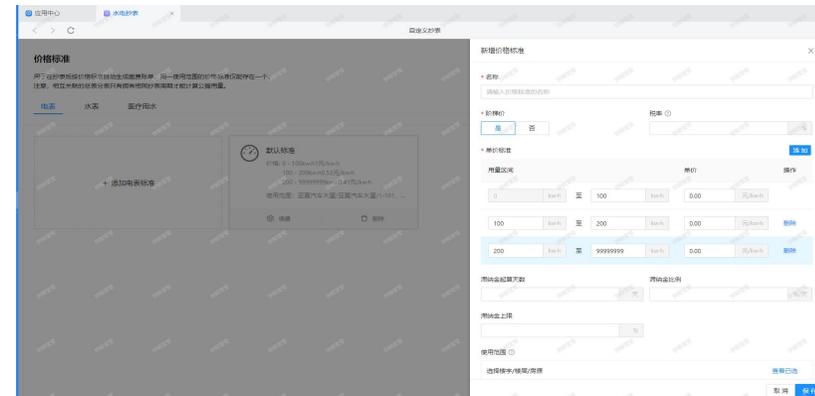
Users can check the charging status at any time, including the current charging state, remaining charging time, and charged amount. This allows users to keep track of the charging progress in real-time and plan their usage accordingly and reasonably.

## Charging Billing Inquiry

The system records and saves the user's charging transactions. If a user encounters an issue or needs a refund, they can apply through the system. The community admins can review and make corresponding refund operations based on specific situations.

The screenshot displays a web-based management interface for smart charging piles. The main window is titled '智能充电桩' (Smart Charging Pile) and '设备管理' (Device Management). It features a search bar and filters for '所属楼宇' (Building), '设备名称' (Device Name), '编号' (ID), and '设备类型' (Device Type). Below these are search and refresh buttons. A table lists the devices with columns for '编号' (ID), '设备名称' (Device Name), '设备类型' (Device Type), '工作模式' (Work Mode), '所属楼宇' (Building), '设备最后心跳时间' (Last Heartbeat Time), '状态' (Status), and '操作' (Action). Two devices are listed: one for '充电桩-电瓶车' (Charging Pile - E-bike) and another for '充电桩-汽车' (Charging Pile - Car). A sidebar on the left provides navigation for various system functions. An inset window shows a '充电详情' (Charging Details) page, which includes '订单信息' (Order Information) such as device name, ID, and payment amount, and '充电信息' (Charging Information) including actual charging time and amount. At the bottom, there are promotional banners for '拯救你的经期焦虑症' (Relieve your menstrual anxiety) and '狂欢音舞节 个性原创舞台' (Carnival Music and Dance Festival).

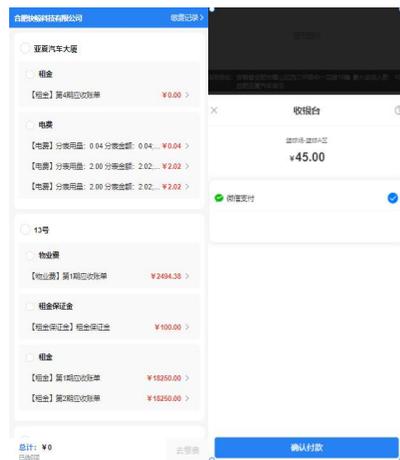
# Smart Water and Electricity Management



## Energy Consumption Data Collection

## Online Meter Reading

## Cost Control Management



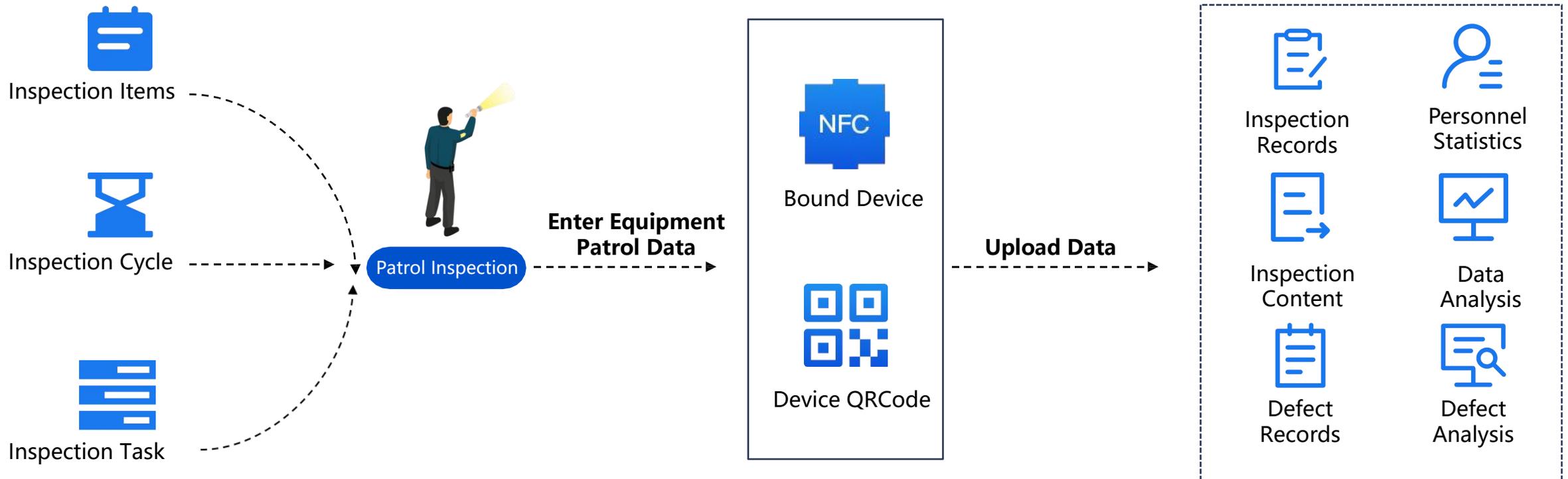
## Tenant Payment

## Energy Consumption Bill

## Energy Consumption Analysis

# E-Patrol Inspection

Develop the optimized inspection route to improve inspection efficiency. Combine device photos, personnel location and device information to effectively prevent issues such as missed inspections, incorrect inspections, and incomplete inspection. Timestamp and location points are mutually verified to eliminate the phenomenon of historical photos being used to pretend the completion of the inspection tasks, which ensures the quality of inspection.



# Collaboration

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Information is shared online, task processing flow is faster, and employee collaboration is more efficient.

**Employee  
Collaboration**

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01

**Quick  
Response**

---

02

**Mobile  
Office Work**

---

03

# Mobile Application

## Mobile Application for Work

Cover all property management work scenarios. Enable various features such as online payment, maintenance, inspection, meter reading. Help the property management companies achieve mobile collaborative work.

## To-do List Reminders

Pending tasks are displayed directly, including message reminders of before-task-starting, during-task-executing, and other stages. It ensures tasks are completed efficiently.

## Implement Community Surveillance

Employees can view community surveillance information and hardware device status in real-time on their mobile devices, which enables the monitoring of the community to handle any issues occurred.

## Mobile Application for Management

Check employee attendance data, process approval items, schedule plans, and view operational analysis data at anytime and anywhere.



# Internal Office Work

## Knowledge Base

Enterprises collect scattered knowledge materials and integrate them into the knowledge base, which help them effectively manage and utilize knowledge assets, while also enable employees to easily search for and share knowledge.

## Attendance Management

Help managers obtain daily attendance data in time, track employees' attendance, and provide data to support salary calculation and performance evaluation.

## Talent Recruitment

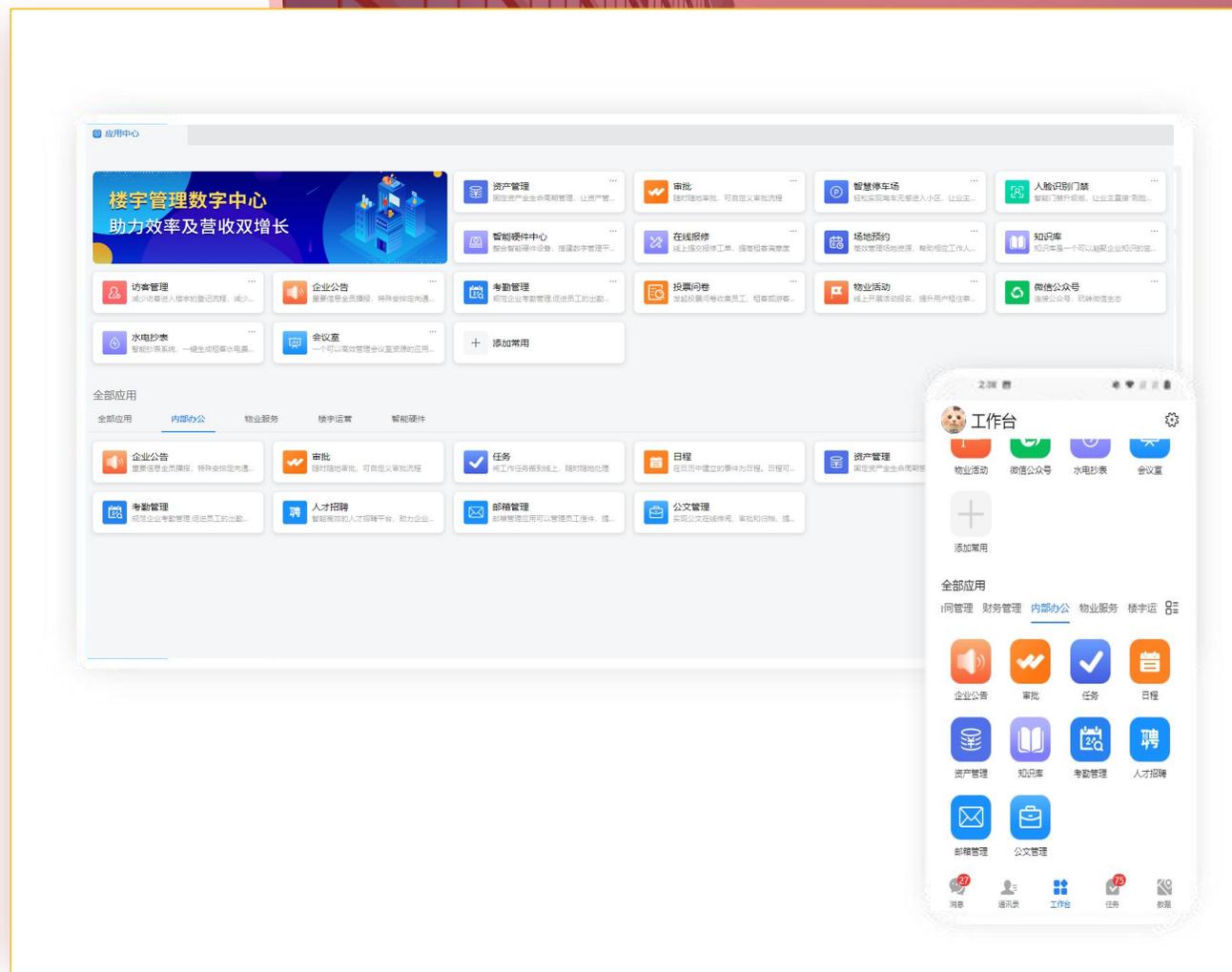
Clients can set up talent recruitment information on the project's official website to attract and recruit outstanding talents who can provide professional skills and innovative capabilities to the company.

## Email Management

Designed specifically for internal company communication, it prevents the leakage of important data and ensures that confidential company information is only transferred internally.

## Document Management

Utilize online storage for storing and sharing official documents for information exchange and communication among different departments. Each department or individual employee can view and use the official document according to their needs, thereby improving the collaboration efficiency.



# Data Visualization

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Detailed information display for various scenarios within the community. Operator can view the real-time data of different metrics of the community through methods such as dashboards, charts and maps, to fully understand the business running status of the community.

**Omni-channel Data  
Integration** 01

**Real-time Data  
Monitoring** 02

**Compatibility of  
Multi-Clients** 03

# Data Visualization

## Overview

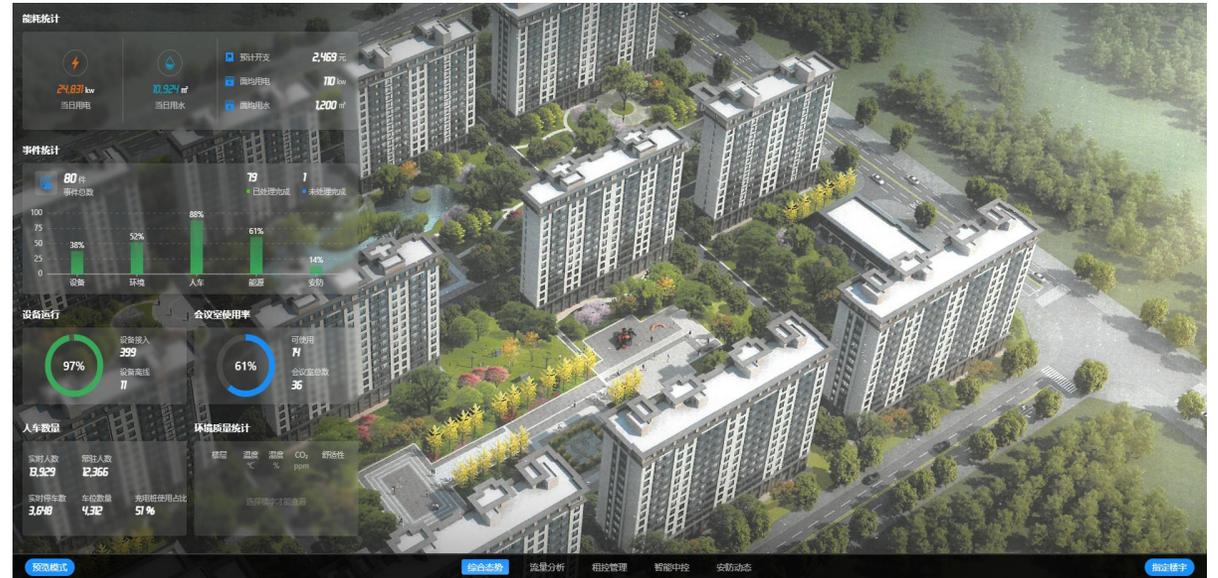
Configure required data components based on the business model and data requirements. Provide data mining and intelligent analysis functionality to help the management level discover hidden patterns and correlations in order to make more accurate decisions.

## Traffic Monitoring

Integrated with intelligent access control devices, the total number and peak values of the pedestrians and vehicles are collected. The pedestrian flow data is integrated, and detailed pedestrian flow trend charts are provided. This helps quickly understand visitors' route status and the rank list of the destinations, which leads to better visitor control.

## Intelligent Control Center

Four security baselines are constructed for smart residential communities, which contain the perimeter, entrances and exits, public areas, buildings indoor. Fully protect the lives and property of the owners and in the meantime, enhance the quality of the community.



# Commercialization of Community Traffic

Provide daily-life online and offline services for the community residents. Transform the after-sales service model into a long-term model that could continuously grow the cash flow from daily consumption.

Group Purchasing 01

Community Group Purchasing 02

Online Appointment 03

Ecommerce Platform 04

Catering 05

# Group Purchasing

## Multi-Types of Group Purchasing

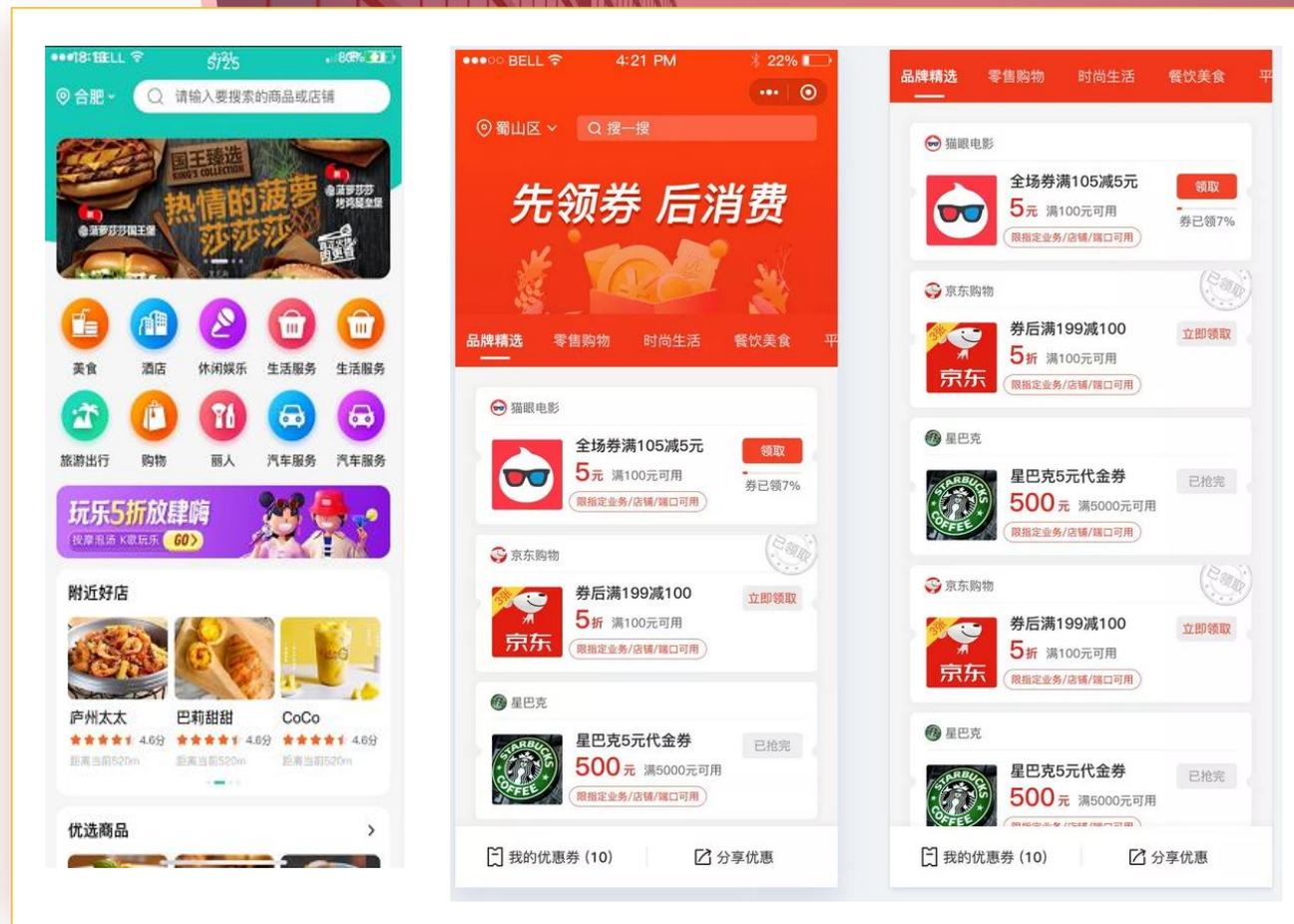
The system supports adding service items, times cards, physical goods, venue reservations, course reservations, and vouchers, etc. for various industrial needs. Users can choose their preferred ways based on their own needs.

## Heterogeneous Alliance

The platform combines multiple businesses, which enables the customer just need to use a single coupon to shop within the alliance. This model provides users with a wider option range and more discounts, and thus increases the flexibility and convenience of shopping.

## Coupon Center

The platform displays coupons offered by all merchants. Users can first claim coupons that they are interested in, and then use them for purchasing in the corresponding stores. This approach allows users to access discount information more conveniently with more competitive prices and more efficient shopping experiences.



# Community Group Purchasing

## Diverse Product Options

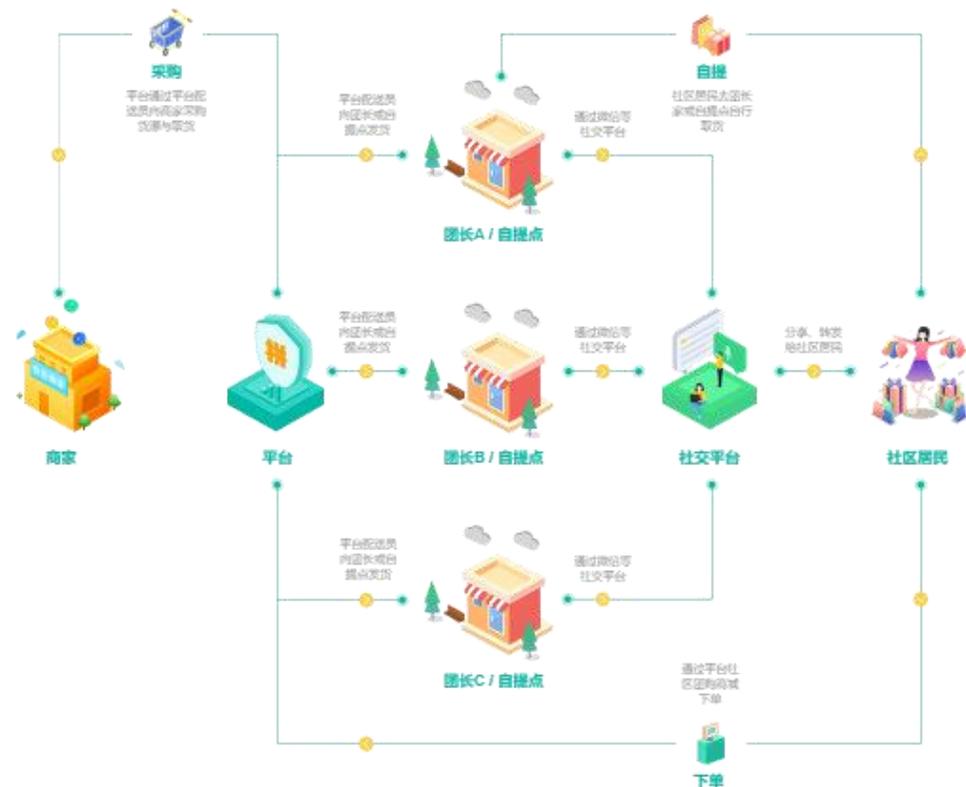
It provides rich and diverse options of products. Users can browse and choose various categories such as fresh foods, daily necessities, household items on the platform to satisfy their shopping needs.

## Group Purchasing Discounts

It brings users a unique discount experience. By cooperating with suppliers and merchants, it provides users with cheaper prices and discounts, which enable them to purchase high-quality goods at lower prices.

## Community Delivery Service

It offers two delivery options: self-pickup at service points and door-to-door delivery. This provides users with a more convenient and efficient shopping experience.



# Online Appointment

## Multi-Industry Settle

For property owners, stores from different industries settle in and satisfies various service needs in daily life. For those stores, they can use the appointment service for running online business and handling the customers' appointments.

## Multi-Business Plans

Users can directly choose the corresponding store/technician for service, or be served by the store assigned by the brand. The entire service process is guaranteed by the community, which secures property owners with the high-quality service.

## Multi-Service Types

Stores can set fixed time slots for the appointment service based on their own needs. Stores can also flexibly adjust the appointment service type on demand to satisfy different users and increase the flexibility and scalability of the business.



# Ecommerce Platform

## Custom Webpage

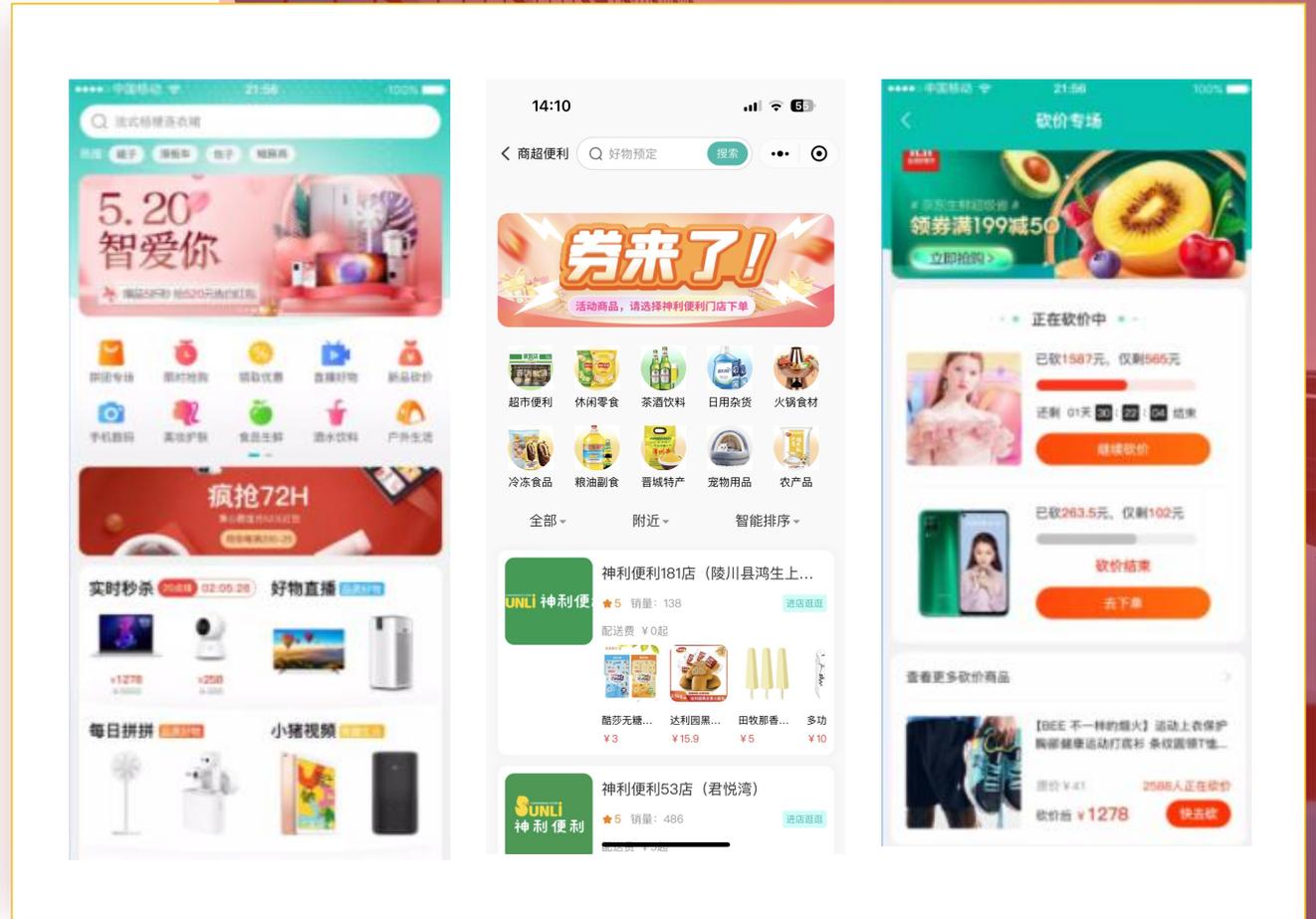
Customize the front-end based on the project styles to create a webpage that aligns with the brand image. This helps make the platform more professional and reliable, which increases user trust for the platform and therefore builds up the brand value and influence.

## Multi-Delivery Options

The system supports multiple delivery options such as logistic delivery, local delivery, and self-pickup at the store, allowing property owners to choose a delivery plan based on their needs. These diverse delivery options can help business owners improve order completion rates and customer satisfaction.

## Diverse Marketing Events

It also offers a variety of powerful marketing campaign features to help merchants attract and promote consumer purchasing behavior. These marketing campaign features can assist merchants in better conducting marketing and enhancing their business competitiveness.



# Catering

## Reserve Tables/Dishes

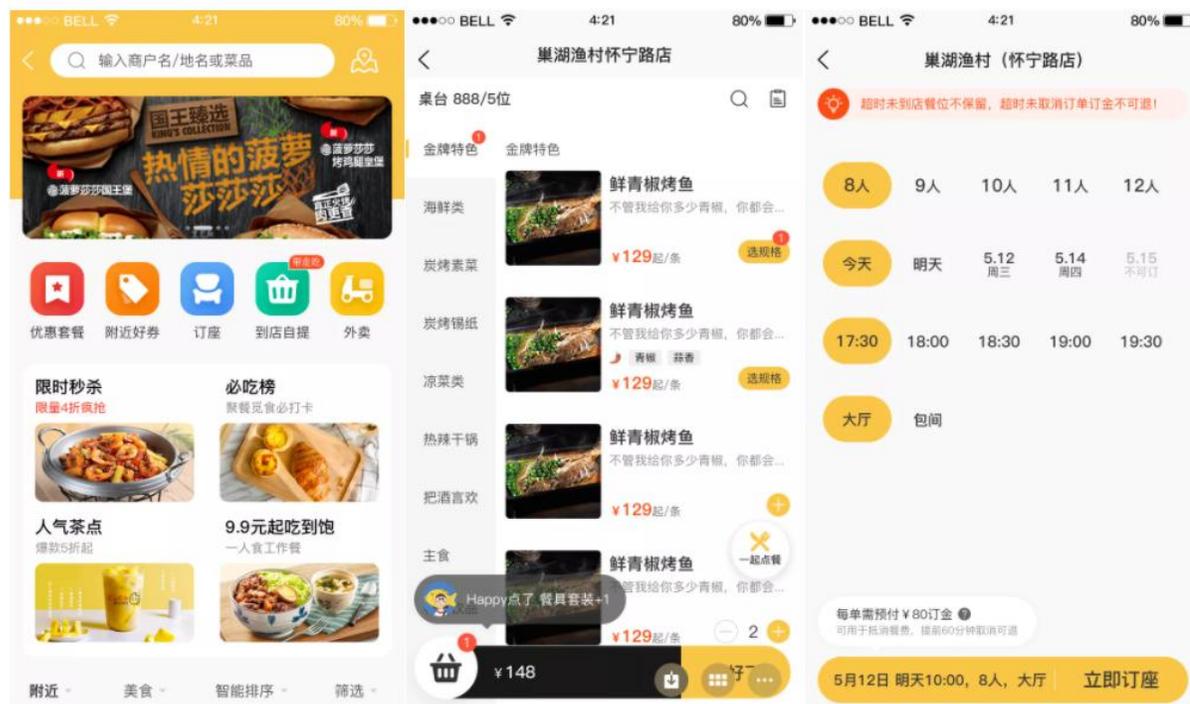
Offer online table reservation service to facilitate users' bookings before arriving at the restaurant and avoid long waiting times. Users can select the dining time, number of people, and special requests, and make an advance payment or full payment.

## Scan QR Code to Take a Seat

Users can scan the QR code on the table to browse through the menu, select dishes, customize flavors and quantities, and then place orders and make payments directly. This method simplifies the ordering process and improves efficiency.

## Online Payment

Facilitates the payment management. Search table bills online to perform operations such as online order printing, payment, and refund, which simplifies the checkout process and improves efficiency.



# Thank You!!!

