



# HikCentral Professional

**HIKVISION**<sup>®</sup>

**CENTRAL.  
COLLABORATIVE.  
INTELLIGENT.**

# CORE VISION

At Hikvision, we continually develop and deliver the very best end-to-end solutions in the security surveillance industry. In that spirit, the newly released HikCentral Professional is a comprehensive, AI-empowered surveillance platform that makes easy-to-use central management available everywhere it is needed.

In order to provide project-specific solutions, additional functions and services from collaborative partners are essential. Therefore, our video management platform is designed to be Central, Collaborative, and Intelligent.



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## CENTRAL

HikCentral Professional is completely centralized to achieve vast integration capabilities and deliver more powerful solutions.

It integrates and expands devices on a VMS system, and enhances control to achieve maximum security for years to come.

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## COLLABORATIVE

HikCentral Professional empowers partnerships, enhances value for the user, and delivers extensive benefits across a wide range of vertical markets.

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## INTELLIGENT

HikCentral Professional takes the latest AI technologies to the next step, leading the security industry as well as technological innovations in various applications.

# WHAT IS HIKCENTRAL PROFESSIONAL?

HikCentral Professional is a highly effective platform, which has been developed to improve central Video Management Systems (VMS) and integrate related hardware. It represents a new breed of video surveillance components, offering customers what they need to launch a multitude of smart applications over a wide expanse of industries.



# HIKCENTRAL PROFESSIONAL OVERVIEW

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## **SYSTEM**

System Architecture

Key Advantages

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## **VIDEO**

Live View

Playback

Video Network Optimization

Smart Wall

Video Analysis

Thermal Imaging

Extensible Storage

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## **ACCESS CONTROL**

Attendance

Visitor Management

Elevator Control

Video Intercom

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## **ENTRANCE & EXIT MANAGEMENT**

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## **ALARM MANAGEMENT**

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## **MAINTENANCE**

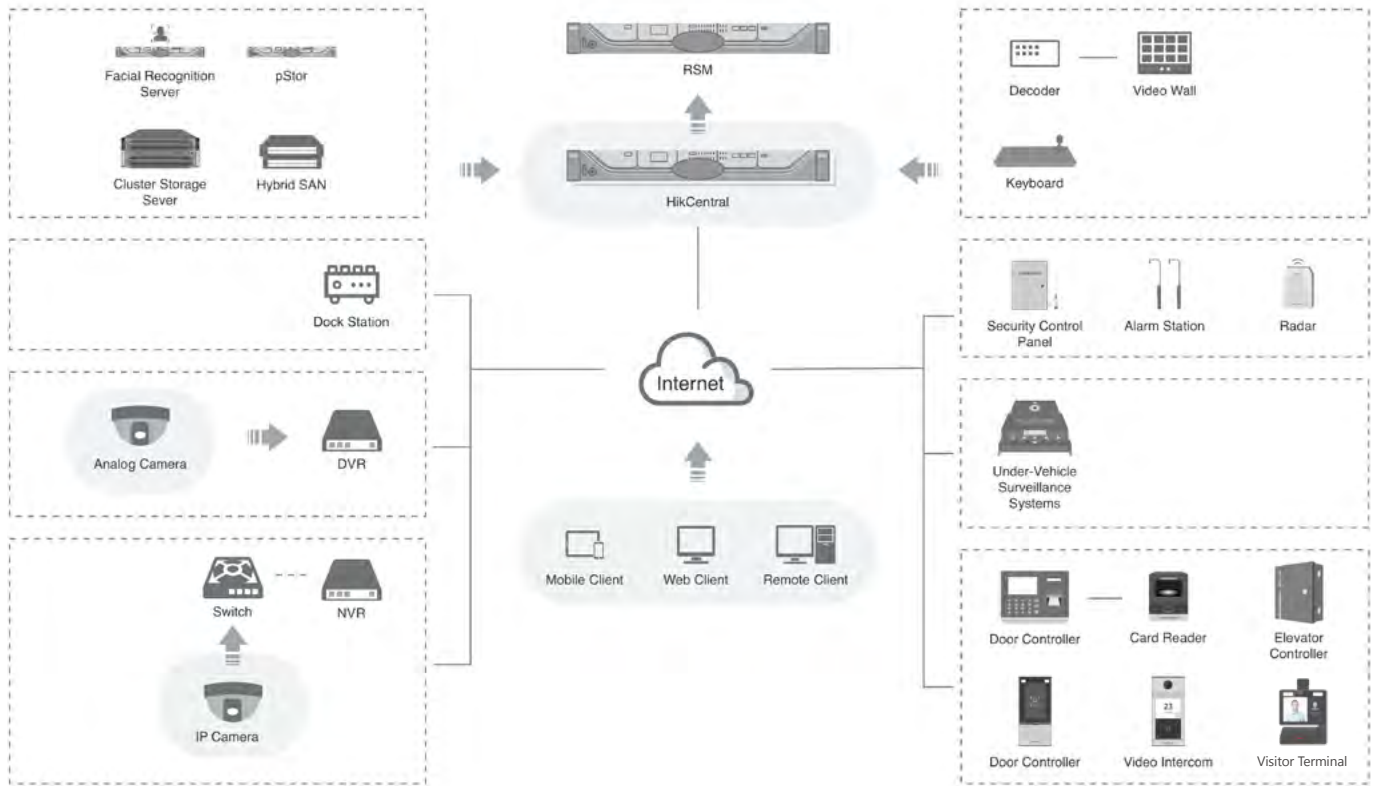
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## **OPEN PLATFORM**

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# SYSTEM

## System Architecture



### Server Layer

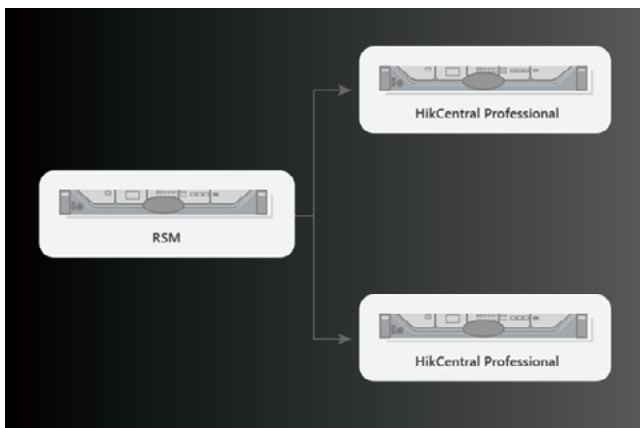
- Central management on HikCentral Professional as master or slave backup
- Flexible storage achieved by pStor, Hybrid SAN, and Cluster Storage Server
- Expandable applications on RSM

### Device Layer

- Access analog cameras via DVR, access IP cameras directly or via NVR
- Decoder display on Smart Wall
- Security control panel and alarm station
- Access control via door controller and Face Recognition Terminal

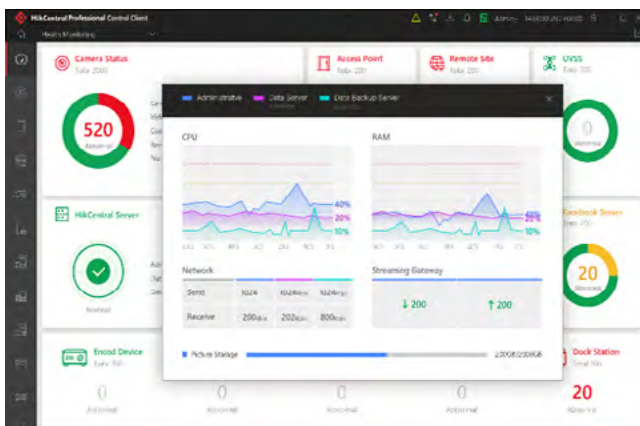
## Key Advantages

HikCentral Professional covers not only basic functions, but also site implementation, daily maintenance, and user accessibility. The following are some key advantages.



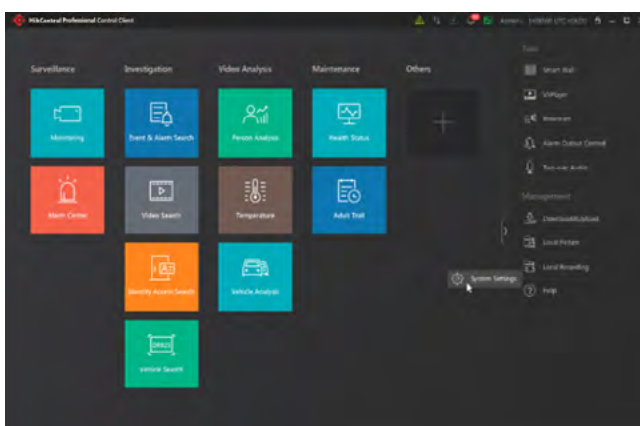
### Scalable

RSM (Remote Site Management) enables single-site to multi-site expansion, making it convenient for users to remotely manage servers located at different sites. This is an ideal solution for companies or organizations with branches.



### Maintainable

Quick and accurate error diagnoses for efficient maintenance. The system will diagnose and generate detailed event logs, device logs, and health monitoring. It also supports batch firmware upgrades.

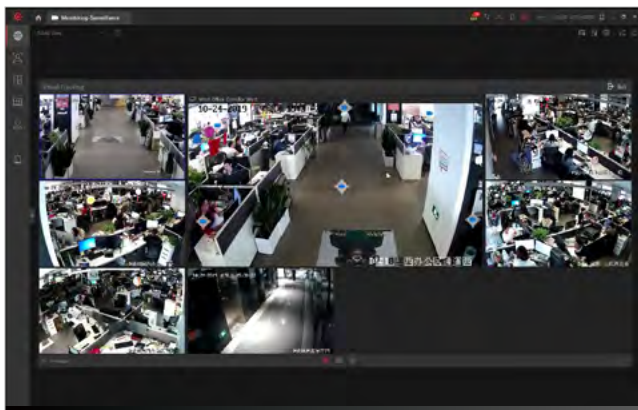


### Friendly

Drag-and-drop application icons on the Control Client to easily create your own user-defined dashboard. The monitoring view also supports self-adaptive window division and more.

# VIDEO

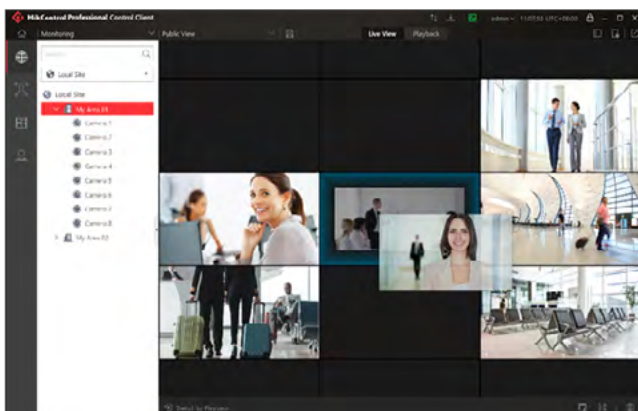
## ► Live View



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## Visual Tracking

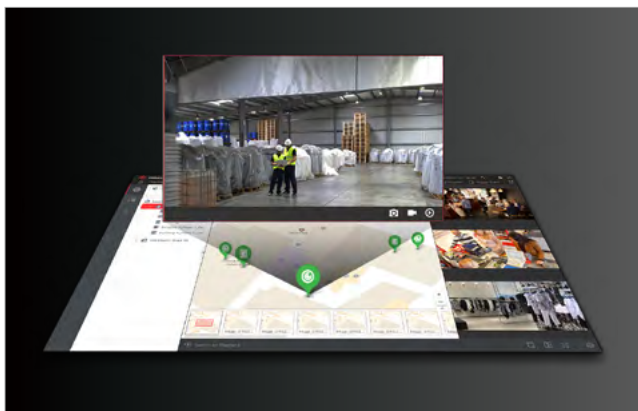
- Compatible with common cameras
- Detailed and easy tracking of the complete moving process
- Supports export of a complete action video of a certain target in the visual tracking mode



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## Adaptive Window Division

- Auto-adapting window division brings a more intuitive experience and more visual control
- Supports quick drag and drop of any part of the view in a new window to see more details, optimizing HD and panoramic camera usage and creating a more intuitive experience



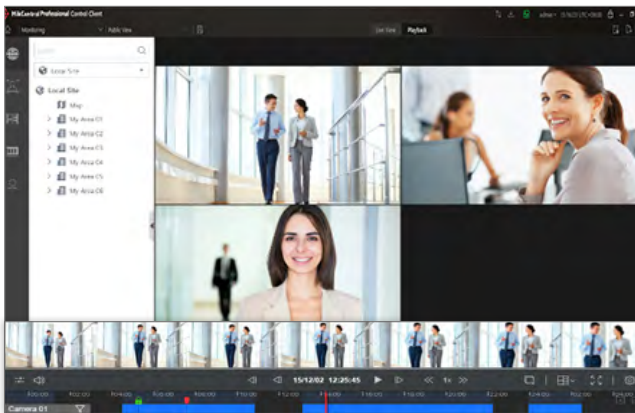
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## Map Management

- Label cameras as resources, then drag and drop them to a destination on the map
- Control video live view and play back, as well as find other operations on the map
- Receive and respond to alarms in real-time



## ▶ Playback



### Playback Features

Video playback offers various useful features, including:

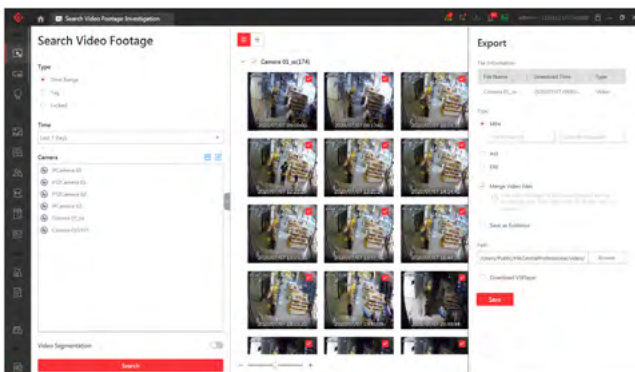
- Flexible network configuration, supporting sub-stream, transcoded, and frame-extracting playback
- Quick incident location with thumbnails
- Adding tags to suspicious events for later review
- Locking video footage to prevent overwriting



### VCA Search

“After-the-fact” VCA search provides convenient analyses, including:

- Motion Analysis
- Line Crossing Detection
- Intrusion Detection



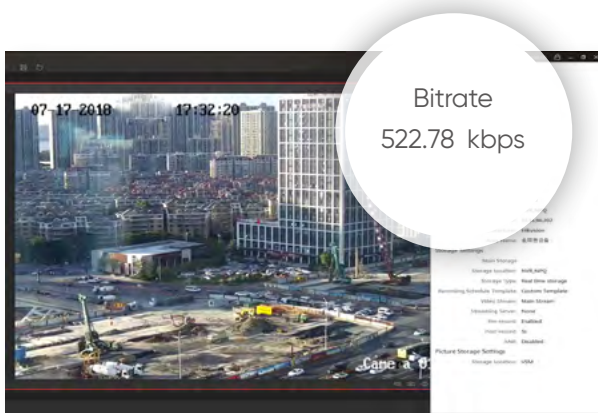
### Video Export as Evidence

- Supports merging several clips into one video file for downloading, making management flow simpler and easier
- File export is available in various formats including .exe, .avi, .mp4, and more

# ▶ Video Network Optimization

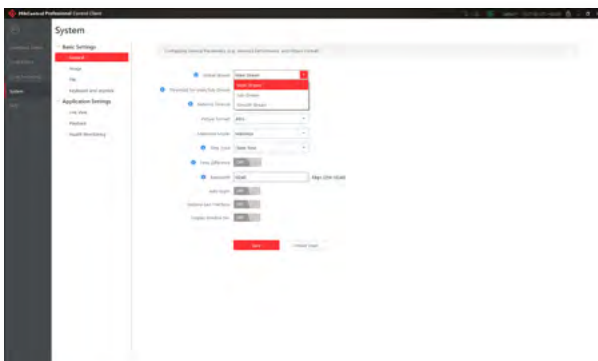
## Low Bandwidth Network Adaptability

Smooth Streaming automatically adjusts bitrate and resolution between clients and NVRs / IPCs according to real-time network conditions, which makes the live view more fluid.



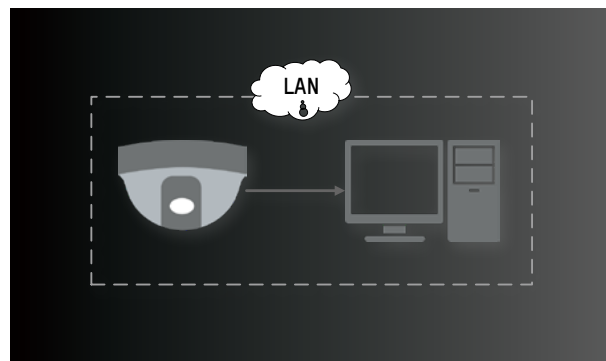
## Global Stream Setting

For the live stream in the global view, select the default stream. If the network is operating smoothly, select the main- or sub-stream. If the network is lagging, select smooth stream.



## Direct Stream Policy

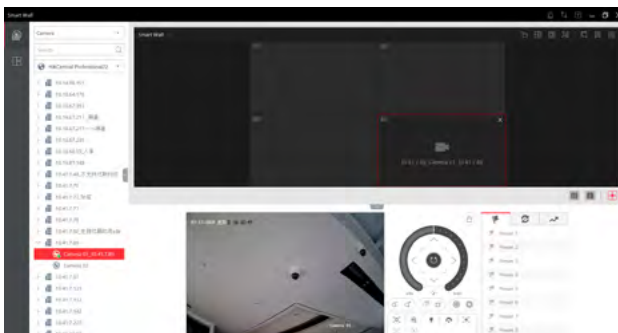
When the system detects that the Control Client and the device are in the same local-area network, the video stream can be obtained directly.



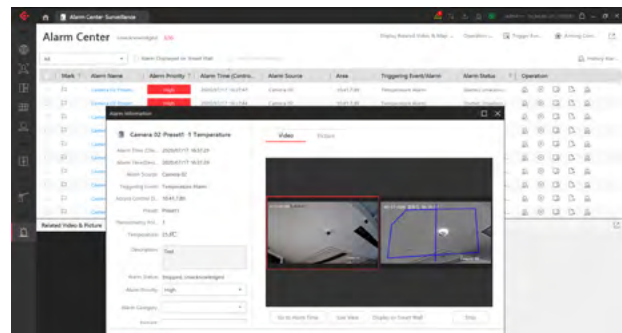
# Smart Wall

## Decoding Devices

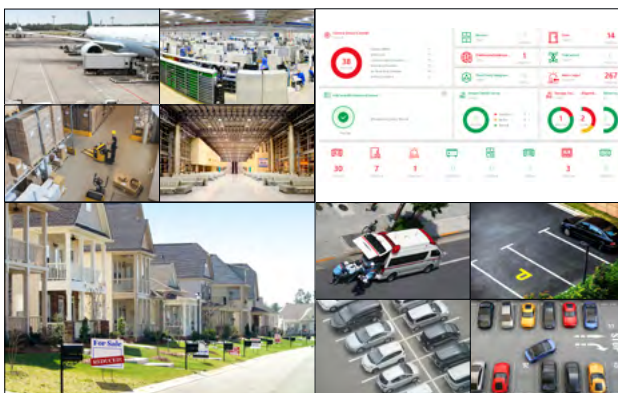
- Support decoding multiple devices and integrate easily with third-party devices
- Enable flexible event-triggered, alarm rule settings. Alarm message can be accessed via the software as well as the smart wall for quick notifications
- Support remote projection on the smart wall using a PC, enabling easy review of operations and maintenance status on the software platform, BI dashboard, and more
- Support view-saving and manual switching on the smart wall, along with viewing schedules and automatic switching
- Support the use of a USB-connected keyboard to control the software and network keyboard to control the smart wall



Smart Wall



Alarm Linkage



Division Mode



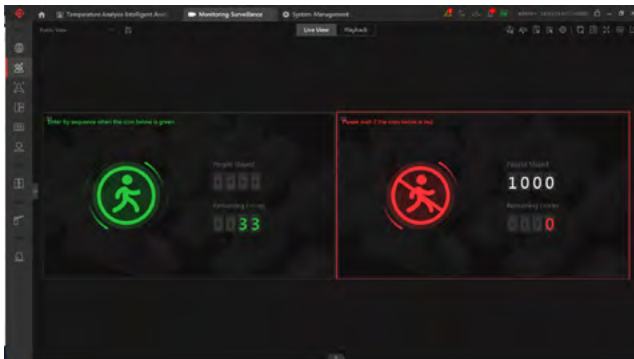
Roaming Mode

## ▶ Video Analysis



### Intelligent Analysis Dashboard

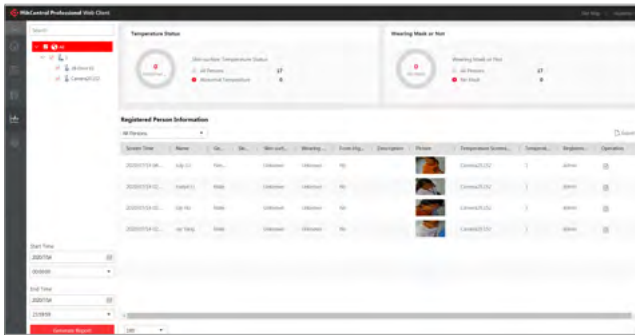
- The video-based intelligent analysis dashboard enables flexible and extensible digital applications
- Including smart commercial analysis like flow, attribute, wait-time, and visitor trend analyses, as well as vehicle management and temperature measurement



### Flow Analysis

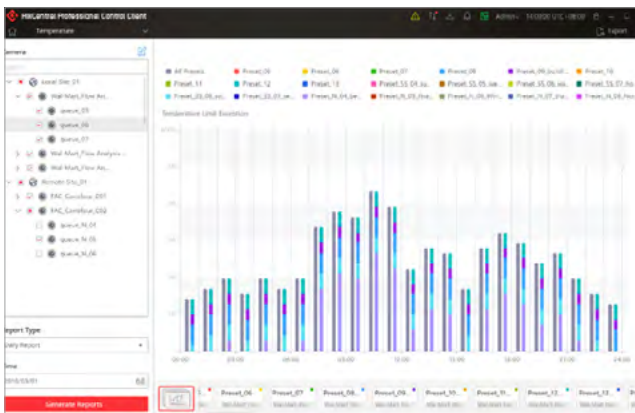
Real-time flow status can be displayed on the platform along with mapping, temperature screening, and other key video footage.

# ► Thermal Imaging



## Temperature Screening

- Provides statistics along with centralized, multi-site management using remote supervision
- Supports evidence recording and site management of statistics across multiple devices



## Temperature Statistics

- Records abnormal data as well as maximum and minimum temperature at all preset points
- Generates anomaly statistics for all measurement points
- Monitors temperature changes at specific locations
- Notices abnormal situations to avoid potential risks

## ► Extensible Storage



### Flexible Storage

HikCentral Professional offers event-triggered video recording and playback, along with automated video backup during idle periods. Channel-based video and image storage can be configured as well.



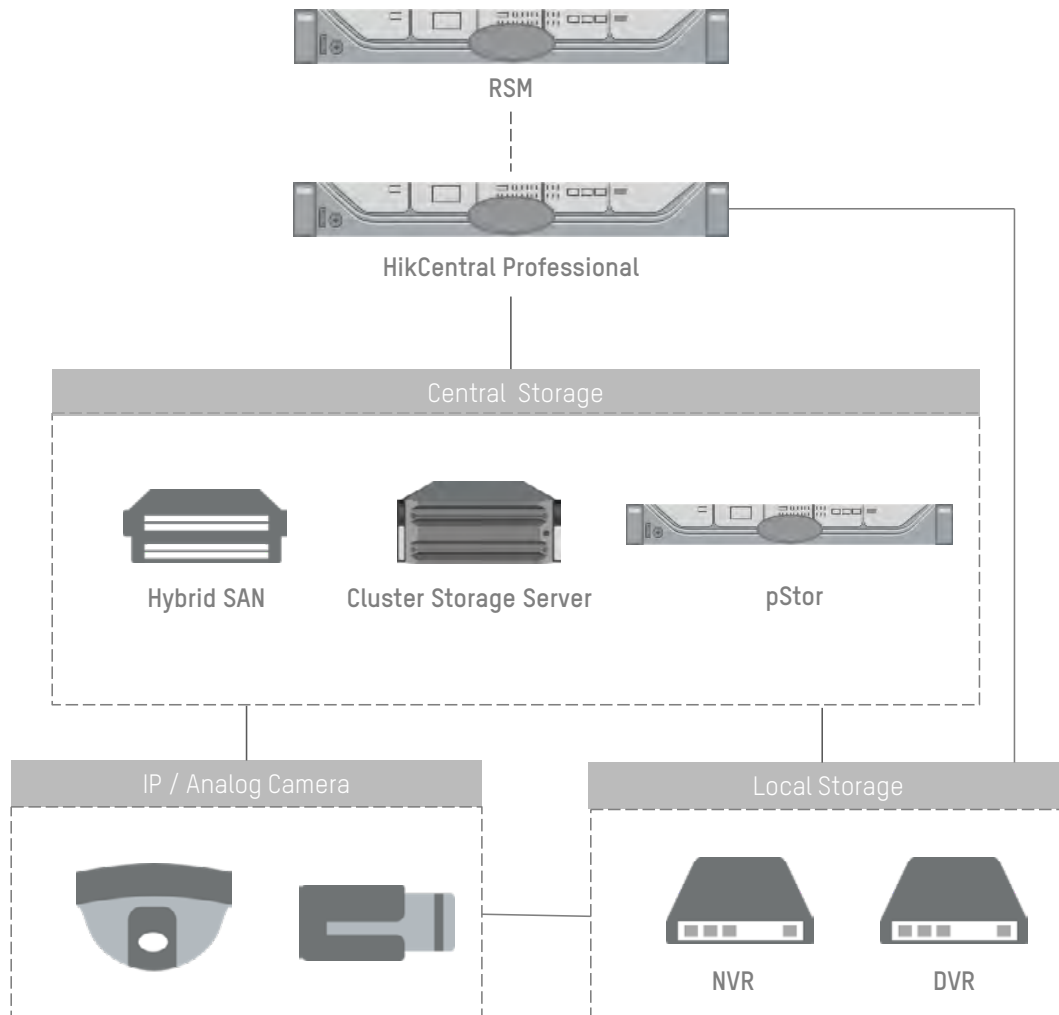
### Multiple Storage Media

Video and images can be stored on various media storage platforms, such as NVRs/DVRs, pStor, Hybrid SAN, and Cluster Storage Servers.



### High Availability

HikCentral Professional features a fail-safe / high availability design with redundant remote & local backup and scheduled copy-back, along with pStor cluster services and NVR hot swapping.



# ACCESS CONTROL

## Key Features ▶



### Monitoring on Map

Enables monitoring and alarms for active, abnormal or violent door openings



### Personnel Registration

Supports completing personnel registration via QR code scanning



### Roll Call

Supports automatic printing of personnel name lists where fire alarms are installed



### Quick Maintenance

Supports checking "Who" is allowed to access "Where" and "When"



## Face Recognition Turnstile

HikCentral Professional integrates Hikvision's turnstile with Face Recognition Terminals and other third-party gates as well.

## ▶ New functions

### Attendance

**Automated Attendance by Face Recognition**  
Supports automated attendance by face recognition, which is more convenient and efficient

**Easy Third-Party Integration**  
Easy integration with third-party attendance system and automatically generates attendance reports with multiple formats to choose from

**Customized System Configuration**  
Supports complex attendance setting to satisfy various needs, including working time, weekend, late arrival and early departure, absence, overtime working, leave types, and etc

## Visitor Management

How does our visitor management module works?



### Registration

Visitors make registration with their ID cards or passports

### Check Out

Visitors can complete self-check-out via the pre-configured access control device



### Visitor Check-in and Registration

Visitors arrive at the reception desk and complete registration via the visitor terminal

### Permission Grant

Visitors are granted with access credentials via cards, fingerprints, face recognition and QR codes

### Record Traceable

Historical visitors' records are saved and easy to trace

## Elevator Control

### Easy Configuration

Sets suitable rules for different floors according to the traffic

### Manual Control

Supports manual control of elevators in emergent situations

### Video Verification

Supports alarms of more than 40 types of events with real-time video verification

### Visitor Credential

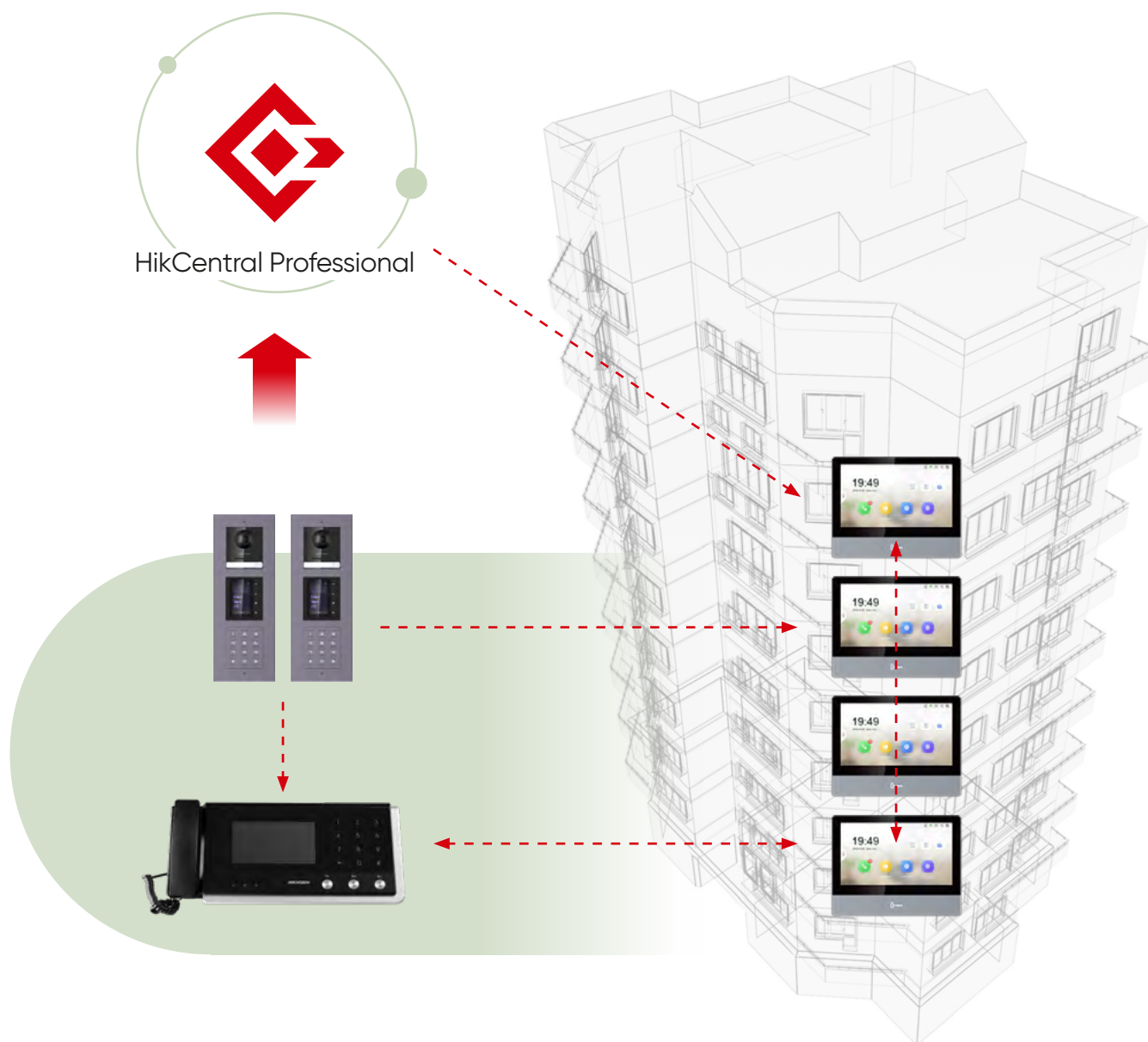
Supports differentiated setting of elevator credentials for visitors, making visitor management more efficient





## Video Intercom

- Serves as a centralized platform to manage the video intercom system
- Supports configuring related devices and setting rules for device interaction
- Uniformly configures personnel access permissions and remotely controls access control
- Pushes calls from the indoor or outdoor station to the management staff



# Entrance & Exit Management

Flexible entrance modes and authorization rules enhance efficiency and reduce resource usage.

## Vehicle entrance & exit management

Customizes release rules for familiar/unfamiliar vehicles discretely

## Leasing agreement management

Supports configurations for parking space allowance where multiple companies lease parking spaces

## Information display

Displays welcome message and vehicle information on LED screen

## Alarm management

Supported alarms include Overstated Parking, Park in Forbidden Period and Call Center

## Strong capacity

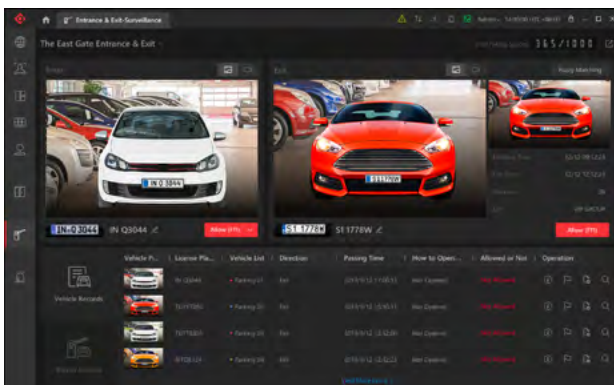
Supports up to 8 traffic lanes and relays events triggered by ANPR cameras, video intercoms and access control devices



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## Watchhouse Mode

In the professional Watchhouse mode, all entrance & exit related information is compiled to help staff quickly let vehicles exit.



## Information display of passing vehicles

Displays images and real-time video of passing vehicles, supporting manual verification

## General matching

General preliminary comparison match for vehicles not fully recognized when exiting

## Manual release

Supports manual release and records the justification

## Displays remaining parking spaces

Shows number of remaining parking spaces in real-time

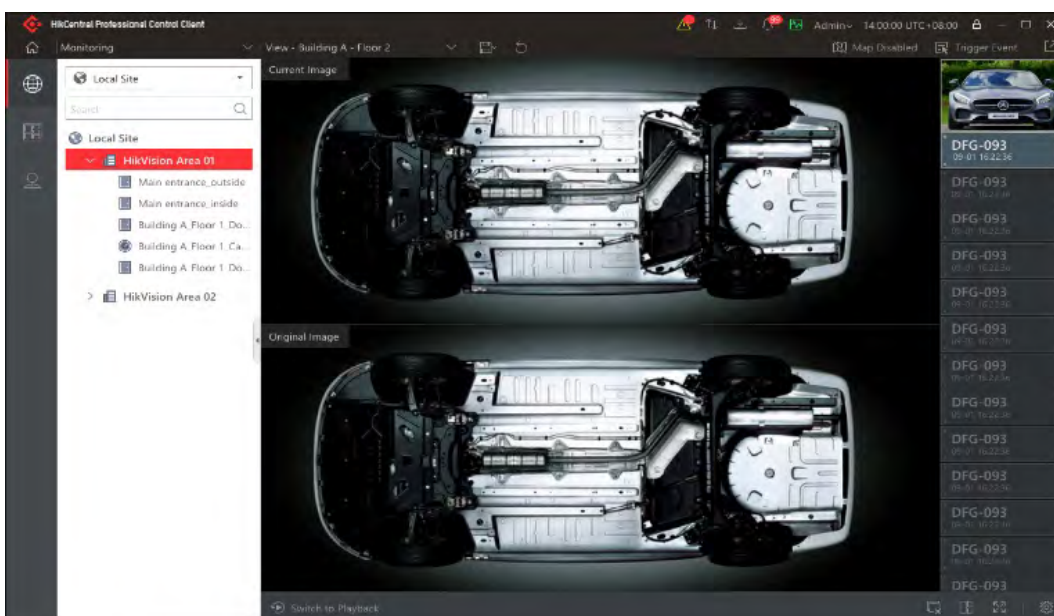
## Historical record search

Easy and efficient history tracking

## Under Vehicle Surveillance System (UVSS)

### Advanced UVSS

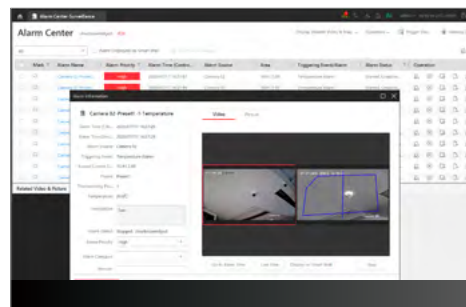
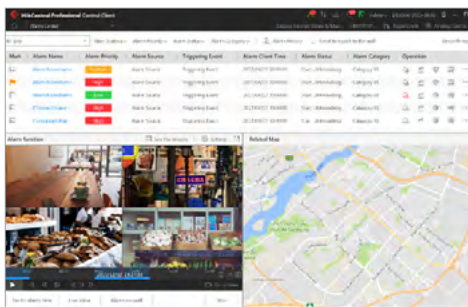
- Captures vehicle undercarriage images
- Synchronizes ANPR camera data with vehicle images
- Suits various vehicle models
- Displays entire vehicle chassis in one image
- Features high-durability and high-quality imaging with low distortion



# ALARM MANAGEMENT

## Alarm Sources

HikCentral Professional can centrally manage various alarm sources, such as video, access control, alarm panels, and third-party alarm inputs.



## Alarm Center

- Real-time display of all kinds of alarms
- Linked videos and locations will be displayed automatically when an alarm is selected

## Alarm Linkage

- Flexible linkage with access control devices, cameras, and more can be configured
- Displays the status of alarm-triggering devices and quickly locates devices that have triggered alarms

## Composite Alarm

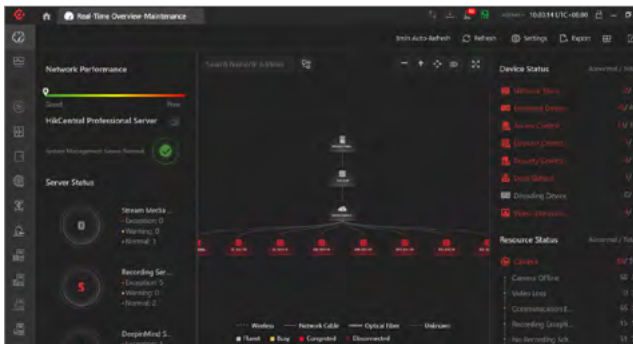
A composite alarm enables arming or disarming in order to promote flexibility and accuracy of alarm management. For example, you may use composite I/O signals and motion detection events by installing infrared beams, effectively reducing the false alarm rate.

## Alarm Escalation

Alarm escalation takes place when the primary operator does not respond. An unprocessed alarm will be forwarded and escalated to upper level management when the original operator ignores.

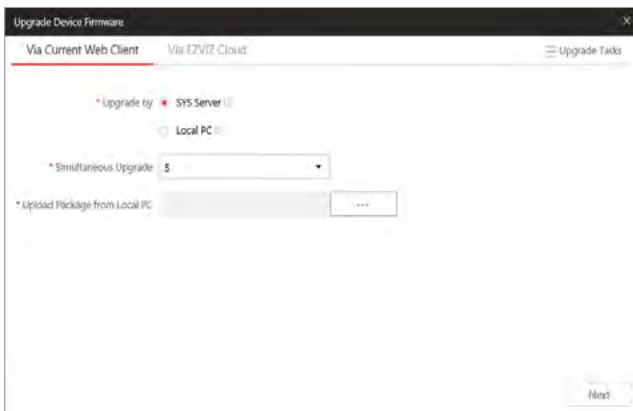


# MAINTENANCE



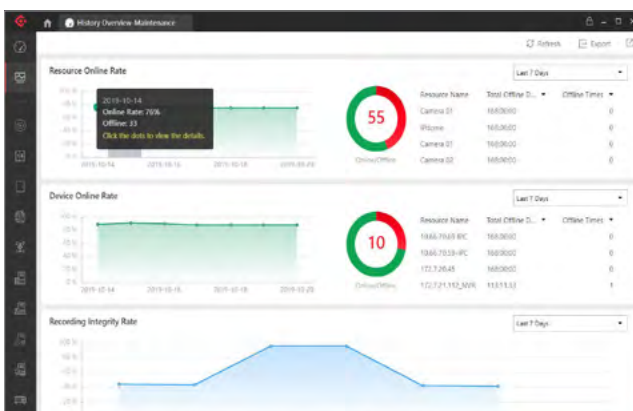
## Health Monitoring

- Displays topology diagrams of various devices in real time, sparing the efforts of viewing a large number of connections among devices
- Displays system information, such as CPU, RAM, network speed and video streaming usage
- Users can define a threshold according to network status



## Firmware Batch Upgrade

Supports upgrading of multiple devices' firmware simultaneously



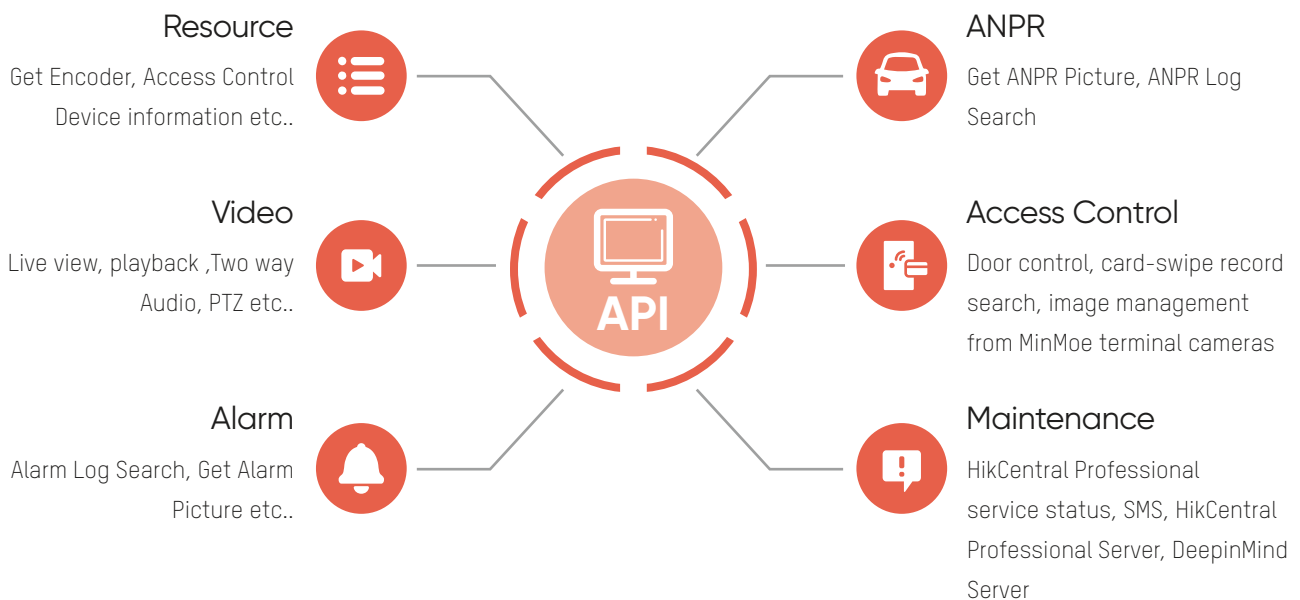
## History Overview - Maintenance

- Overview of resource online rate, device online rate and recording integrity rate within certain period
- Helping better understand the operation status of the system

# OPEN PLATFORM

## Open API

Collaborative, goal-oriented development creates the most useful and customizable applications. Hikvision has created an open Software Development Kit for innovated systems to meet any particularized demand.



Interface  
protocol  
integration

API  
documentation

Demonstrative  
applications  
with  
sample code  
and  
documentation

Trial license  
available  
on HikCentral  
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