HikCentral Professional

HIKVISION

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.

HIKVISION®

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.

COLLABORATIVE

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

INTELLIGENT

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

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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

SYSTEM

▶ System Architecture

Facial Recognition Server	pStor
Security Audit Server	Cluster Storage Sever
	Hybrid SAN

RSM

HikCentral

Dock Station

Analog Camera → DVR

Switch --- NVR

IP Camera

Internet

Mobile Client   Web Client   Remote Client

Decoder — Video Wall

Keyboard

Security Control Panel   Alarm Station   Radar

Under-Vehicle Surveillance Systems

Door Controller   Card Reader   Elevator Controller

Door Controller

Server Layer

- Central management on HikCentral Professional as master / 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.
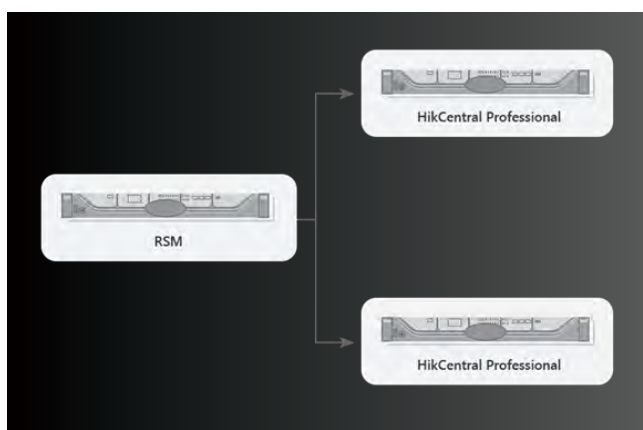

Scalable

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.
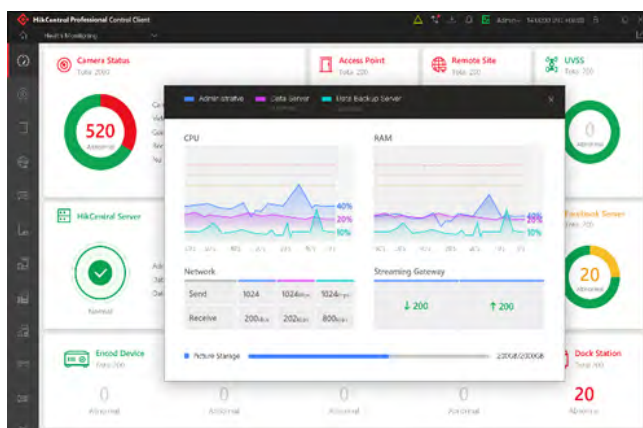
Maintainable

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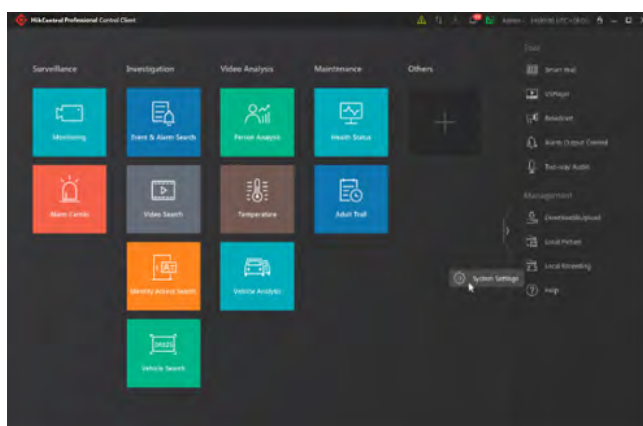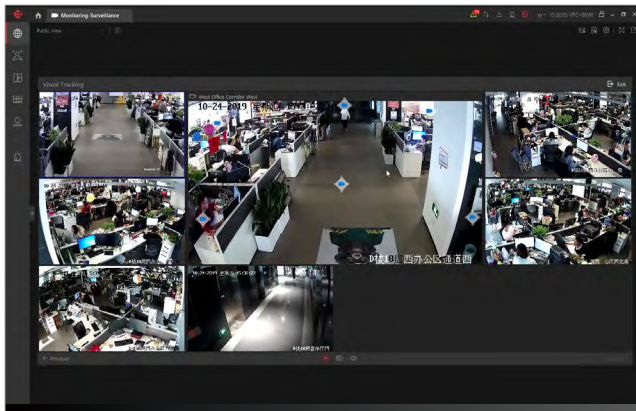

Friendly

Drag-and-drop application icons on the Control Client to easily create your own user-defined desktop. The monitoring view also supports auto-adapting window division and more.
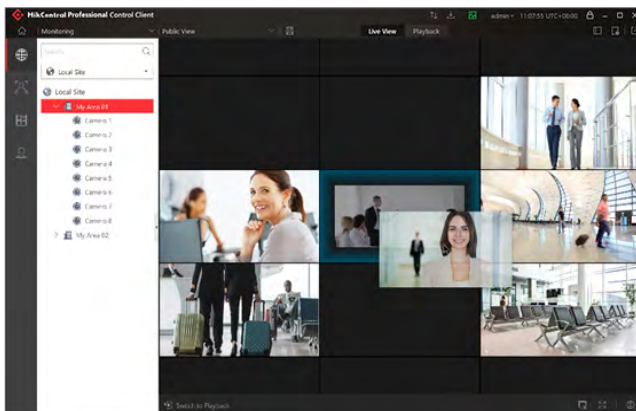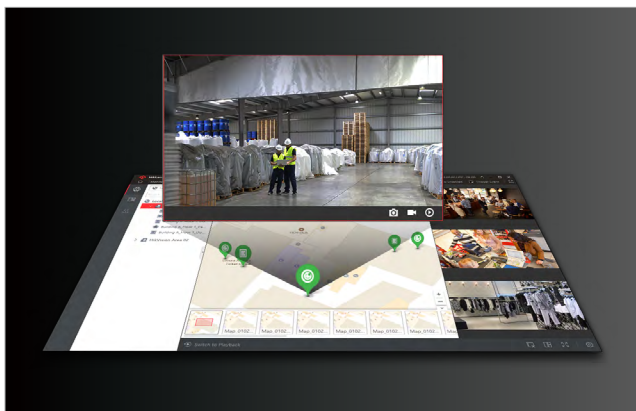
VIDEO
▶ Live View

Visual Tracking

- Supports connection 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.


Adaptive Window Division

Auto-adapting window division brings a more intuitive experience and more visual control.

Map Management

- Configure maps for specific areas
- 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
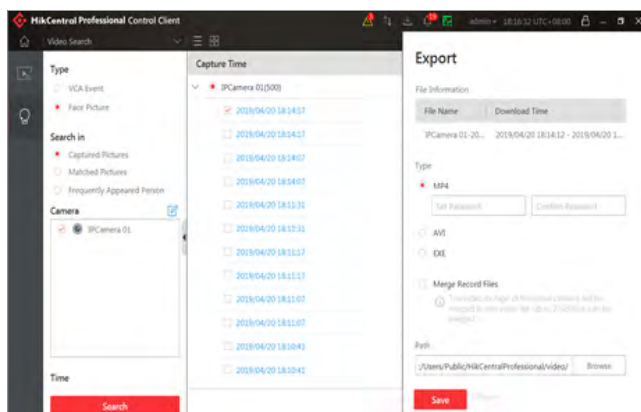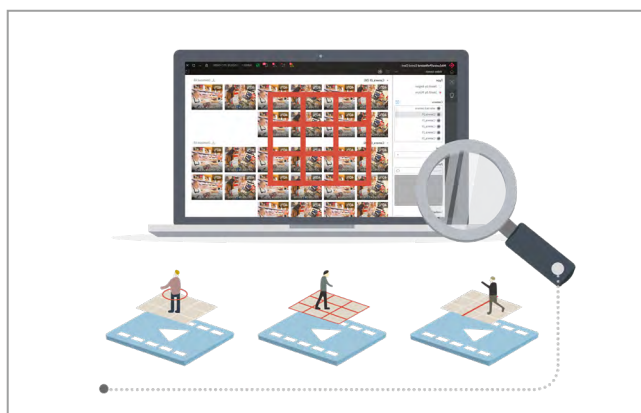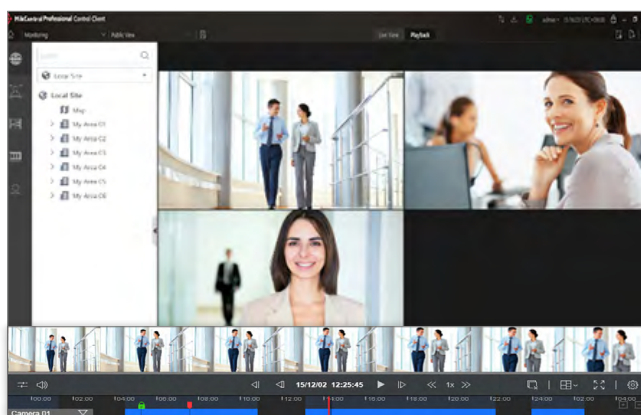
Playback Features

Video playback function offers various useful features, including:

- Smooth playback/Sub-stream playback
- Transcoded playback/Frame-extracting playback
- Multiple time-zone 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

- Supports merging several clips into one video file for downloading
- Files can be exported in exe / avi / mp4 formats

▸ 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.
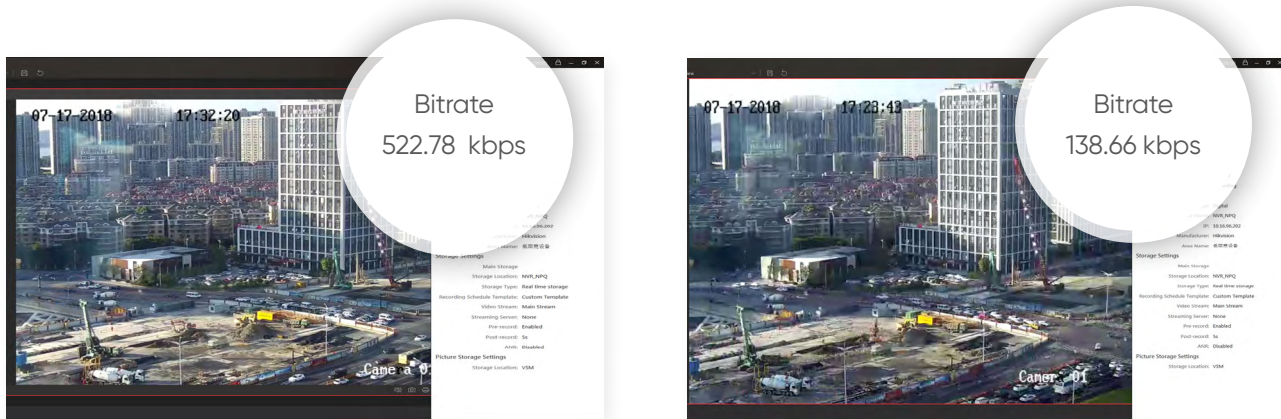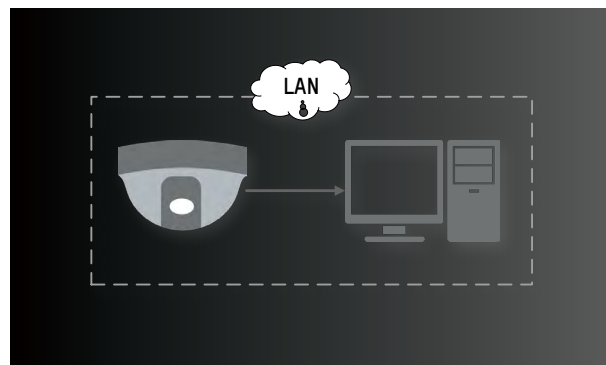

Global Stream Setting

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.
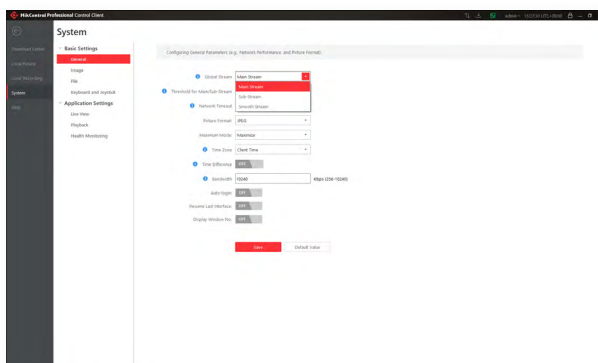
Direct Stream Policy

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

- Video streaming on the Smart Wall is supported
- Powerful decoding devices render stunning imagery on Smart Wall setups
- The number of screens that can be displayed depends on the model of decoding device
- Users can choose single, joint, division, and roaming mode for each system

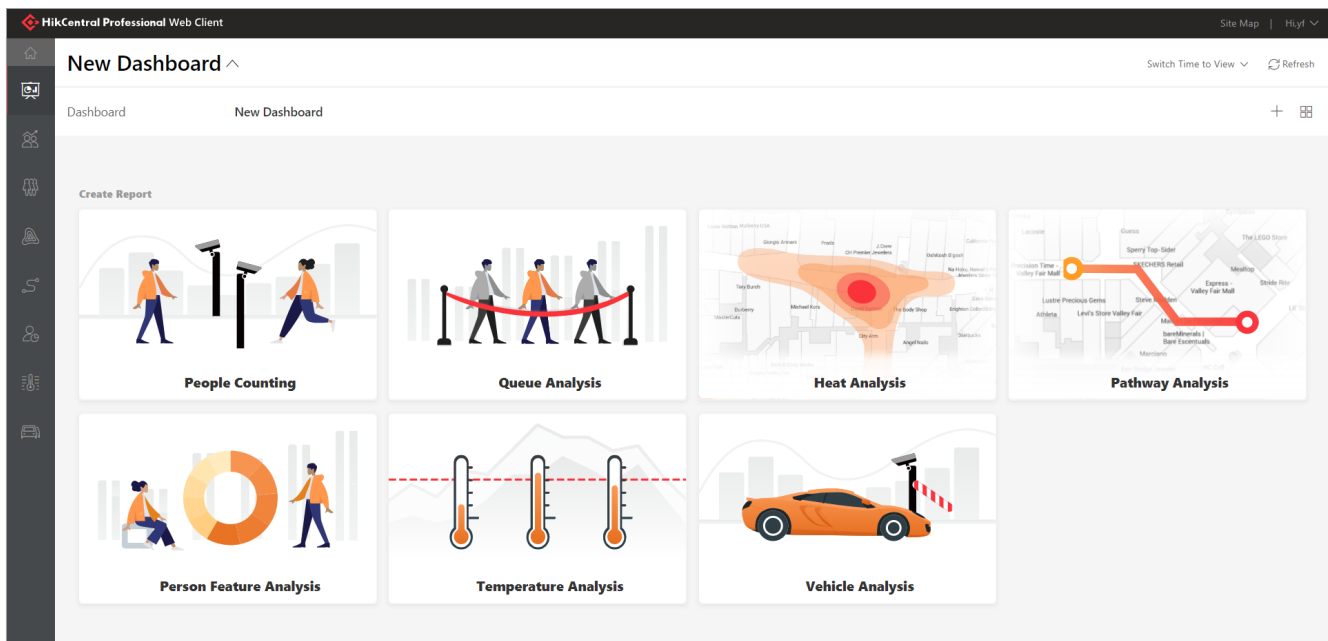Single Mode

Joint Mode

Division Mode

Roaming Mode

▶ Video Analysis

BI Dashboard

Our BI dashboard provides a flexible and customized tabular view window to inform decision makers with business analysis reports. As a newly added report, Person Feature Analysis shows the proportion of persons with different features, including gender and age group.
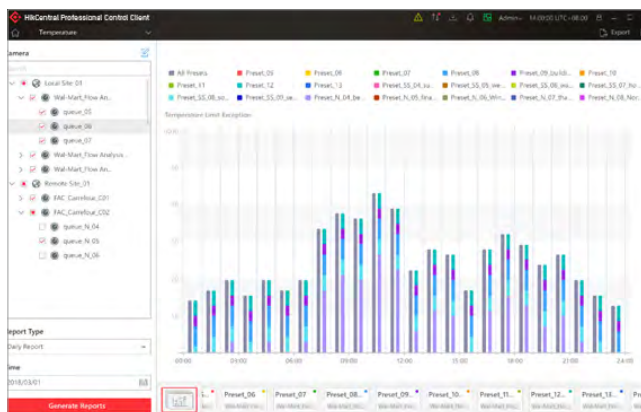
▸ Thermal Imaging

Thermal Imaging Preview

- Great adaptability to poor environmental conditions, such as darkness, high-contrast backlighting, fog, and haze
- Effective detection of hidden targets in darkness or masked by other objects
- Extended detection distance
- Higher alarm accuracy is achieved by using intrusion detection, line crossing detections,etc.


Temperature Statistics

- Temperature measurement at preset points and trails
- 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
- Exports reports for critical review

Vehicle Management

Automatic Number Plate Recognition (ANPR)

- Automatic number plate recognition and recording
- Vehicle list management
- Blacklisted vehicles trigger a warning, while whitelisted vehicles are granted entry
- Records search and reporting
- Exports reports from remote sites
- ANPR logs supports searching by vehicle type, brand, color and direction
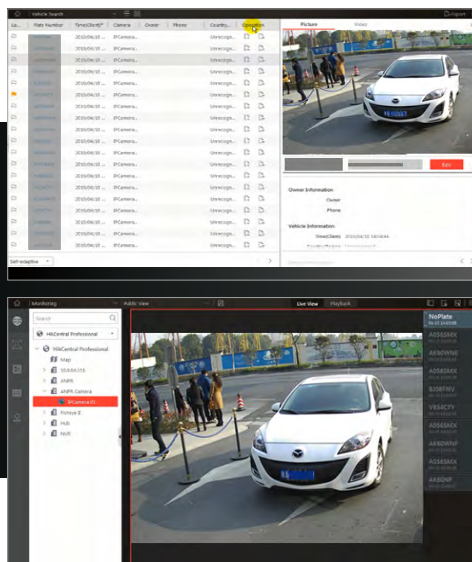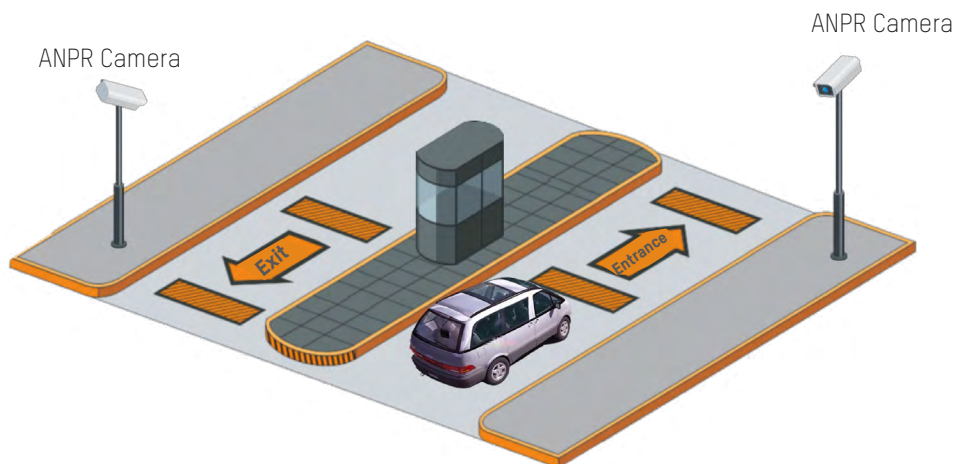
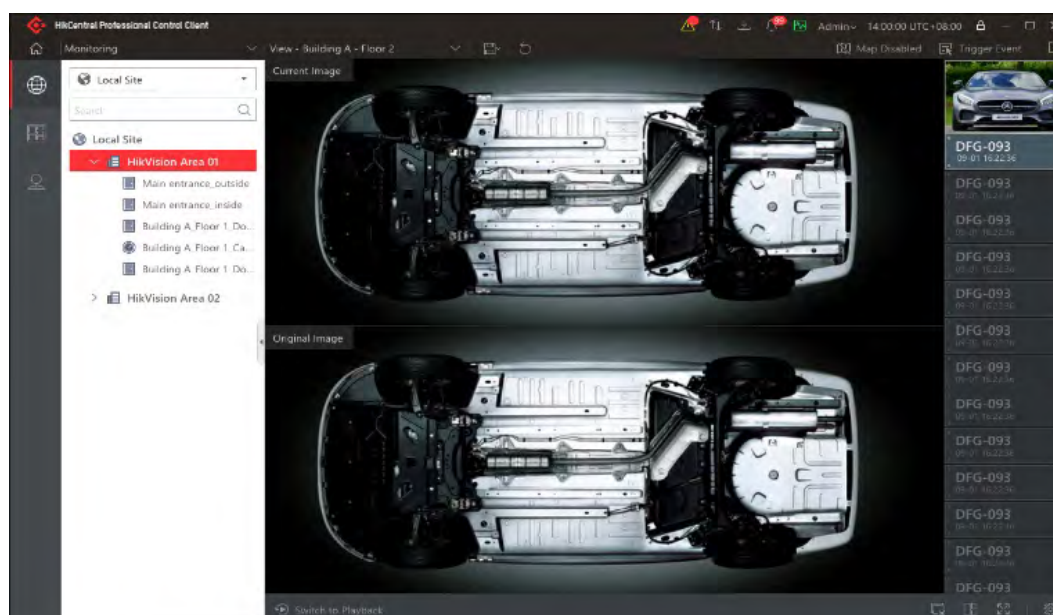# Under Vehicle Surveillance System (UVSS)

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

◗ Extensible Storage

Scalable Storage

Video and images can be extended by reusing existing devices for redundant backup. Image storage is flexible and based on video channels.

Multiple Storage Media

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

Rich Functionalities

HikCentral Professional offers functionalities such as video backup during idle periods and event-triggered video recording.

RSM

HikCentral Professional

Central Storage

Hybrid SAN   Cluster Storage Server   pStor

IP / Analog Camera   Local Storage

NVR   DVR
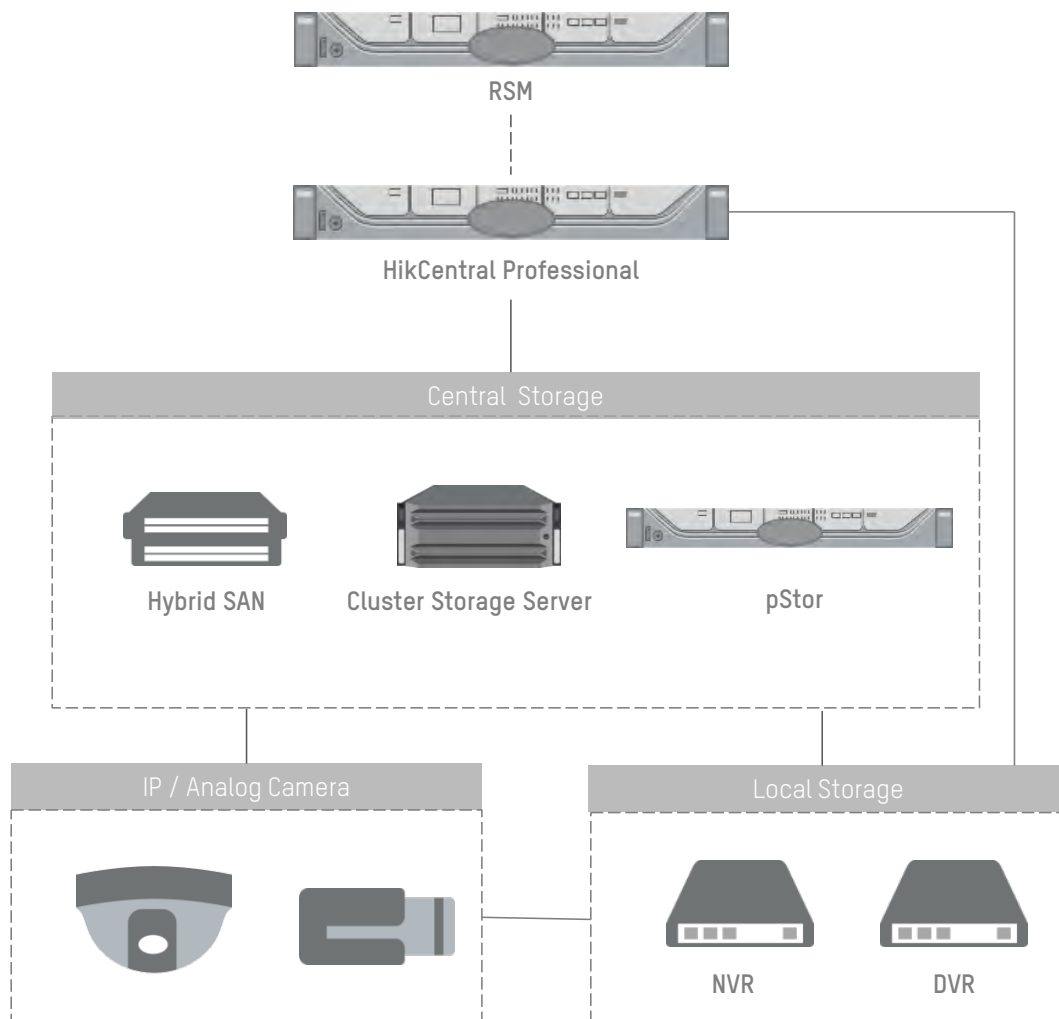
Access Control

Key Features ▶

Linkage between CCTV system and access control

One-key click will instantly lock or unlock all doors

Regional people counting

Face recognition turnstile

Face Recognition Turnstile

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

● New functions

DATA CENTAR

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.
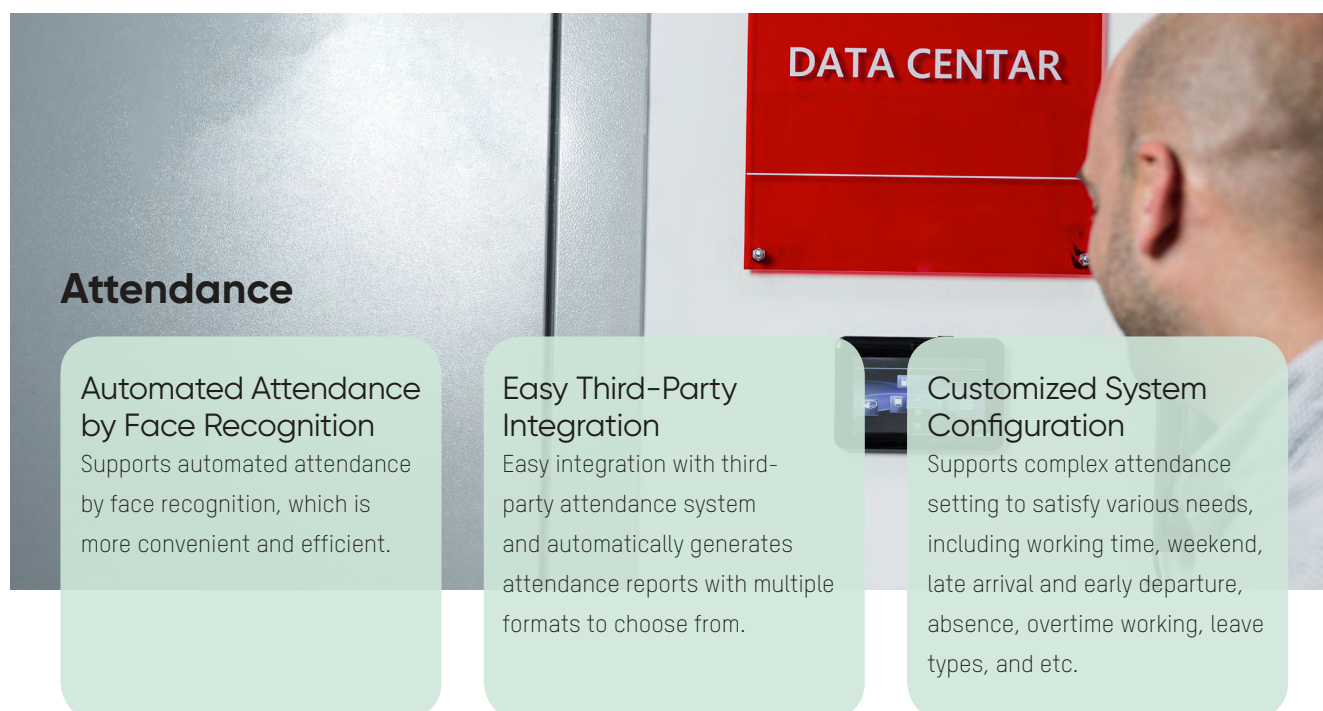
Visitor Management

How does our visitor management module works?

Registration
Visitors make registration with their ID cards or passports

Check Out
The permission is invalid upon visitors' checking our

Visitors Coming
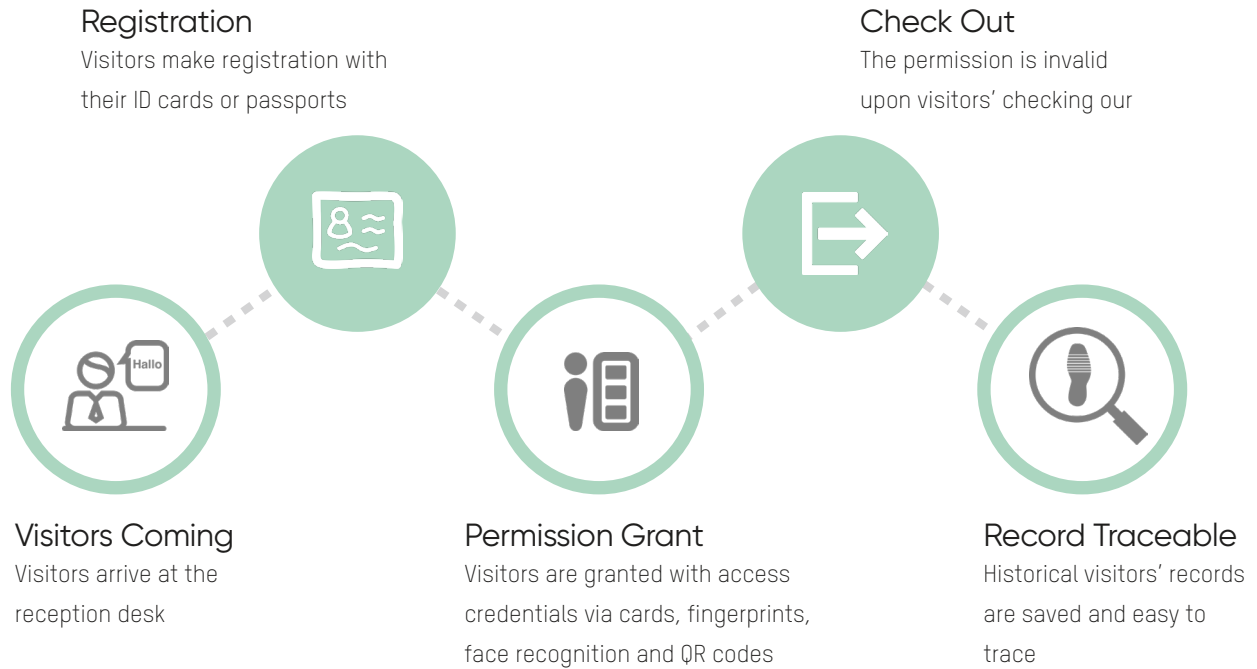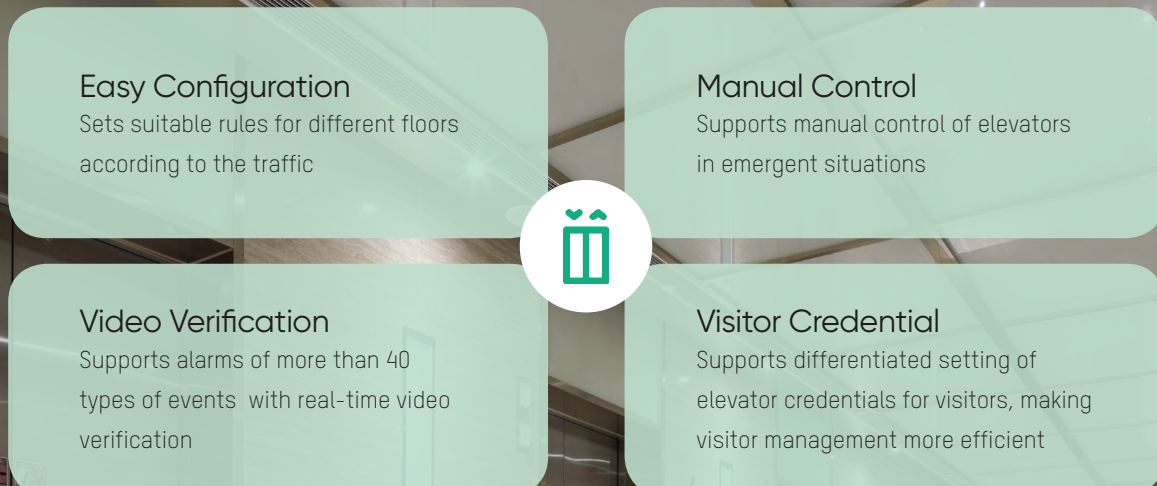Visitors arrive at the reception desk

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
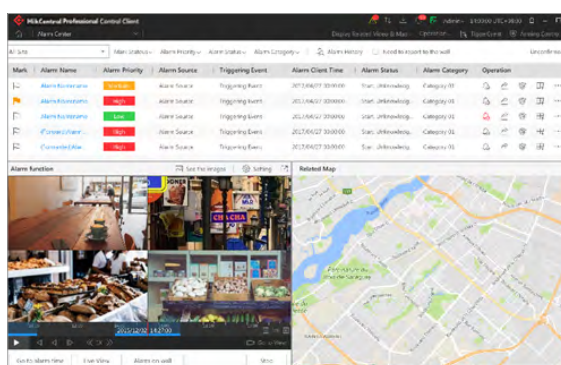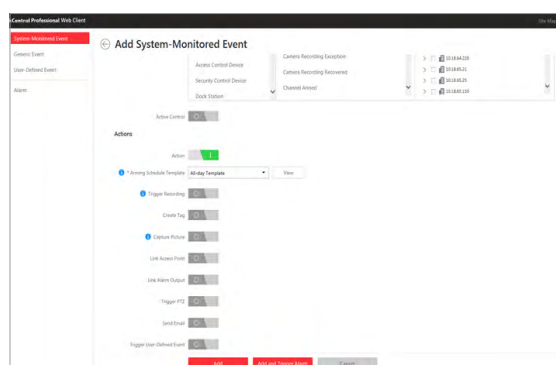
Alarm Management

Alarm Sources

HikCentral Professional can centrally manage various alarm sources, such as video, access control alarms, 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

- Multiple actions can be linked to alarms
- Specified actions will be taken automatically upon alarm triggering

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.
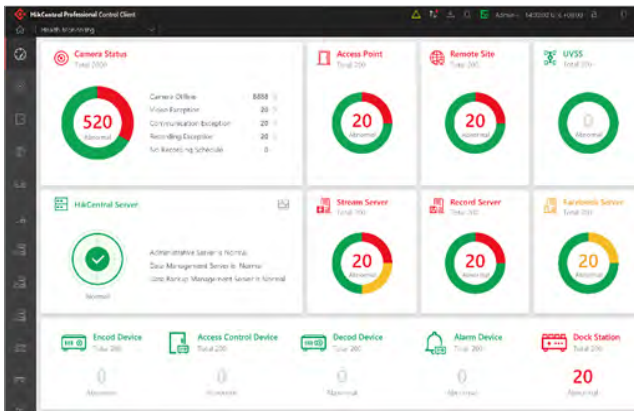

Alarm Escalation

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

- Monitoring panel is adaptable and can be viewed on Windows OS
- 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

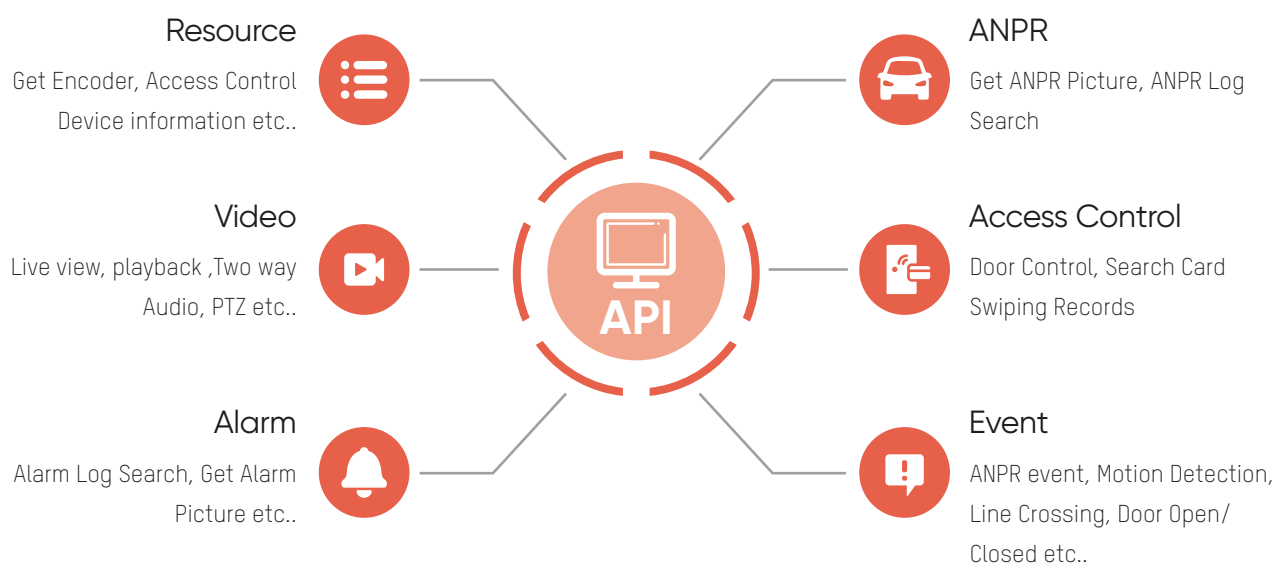Supports upgrading of multiple devices' firmware simultaneously
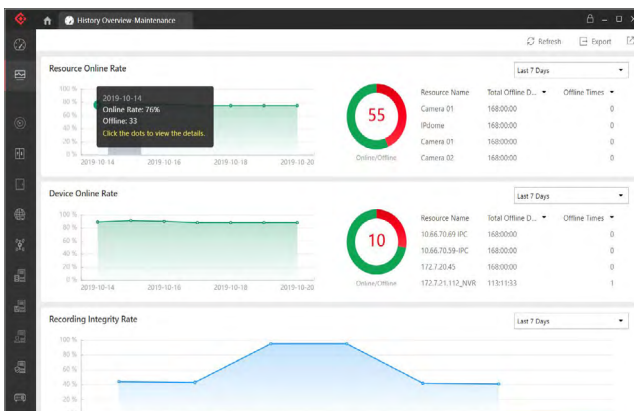
History Overview - Maintenance

- 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.

Resource
Get Encoder, Access Control Device information etc..

Video
Live view, playback ,Two way Audio, PTZ etc..

Alarm
Alarm Log Search, Get Alarm Picture etc..

API

ANPR
Get ANPR Picture, ANPR Log Search

Access Control
Door Control, Search Card Swiping Records

Event
ANPR event, Motion Detection, Line Crossing, Door Open/ Closed etc..

Interface protocol integration

API documentation

Demonstrative applications with sample code and documentation

Trial license available on HikCentral Professional

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