HikCentral

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 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**.

CENTRAL

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

It centralizes and expands your system, and enhances control to achieve maximum security for years to come.

COLLABORATIVE

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

INTELLIGENT

HikCentral takes the latest AI technologies to the next step, leading the security industry as well as technology industries in various applications.

What is HikCentral?

The HikCentral proprietary software platform was developed by Hikvision. This platform improves central Video Management Systems (VMS) and integrates related hardware. This highly effective platform delivers data and intelligence via a pre-installed VMS on standard, off-the-shelf servers.

HikCentral represents a new breed of video surveillance components, offering customers what they need to deploy any of a multitude of smart applications over a wide expanse of industries.

THE ADVANCED FUNCTIONALITY OF HikCentral

Hikvision's newly released HikCentral integrates more advanced products and technologies to make central management more effective, bringing together a convenient, efficient, and unified security system.

Based on a client-server model, HikCentral offers a video management system for businesses to manage and run daily security tasks. You will find surveillance-related functions such as live viewing, recording, and playback on the platform, along with other integrated functions, such as facial recognition, access control, alarm management and configuration, vehicle management, and more.

All these functions combine to create a helpful and powerful central management system.
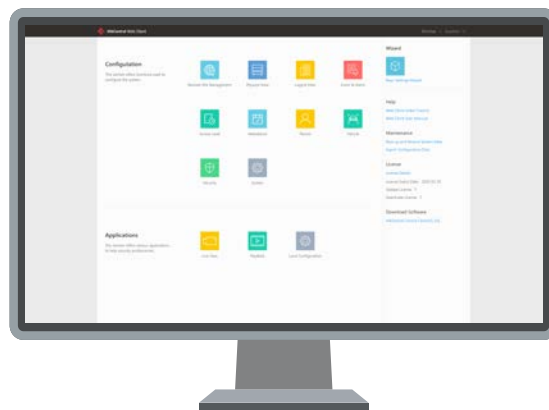
SCALABILITY

With the RSM function, HikCentral can easily connect and manage up to 100,000 cameras. You can also configure and centrally manage user authorizations, access controls, or event alarms.

With sound data protection for tremendous amounts of information, a fail-safe design, and high scalability, HikCentral is the ideal central security system.

FRIENDLY

Many software packages on the market were designed by engineers and for engineers. Not this one. You will be happily surprised at the ease of operating of this highly sophisticated system.

The user interface is clear and intuitive, making it convenient to perform tasks ranging from video management to authorization management.
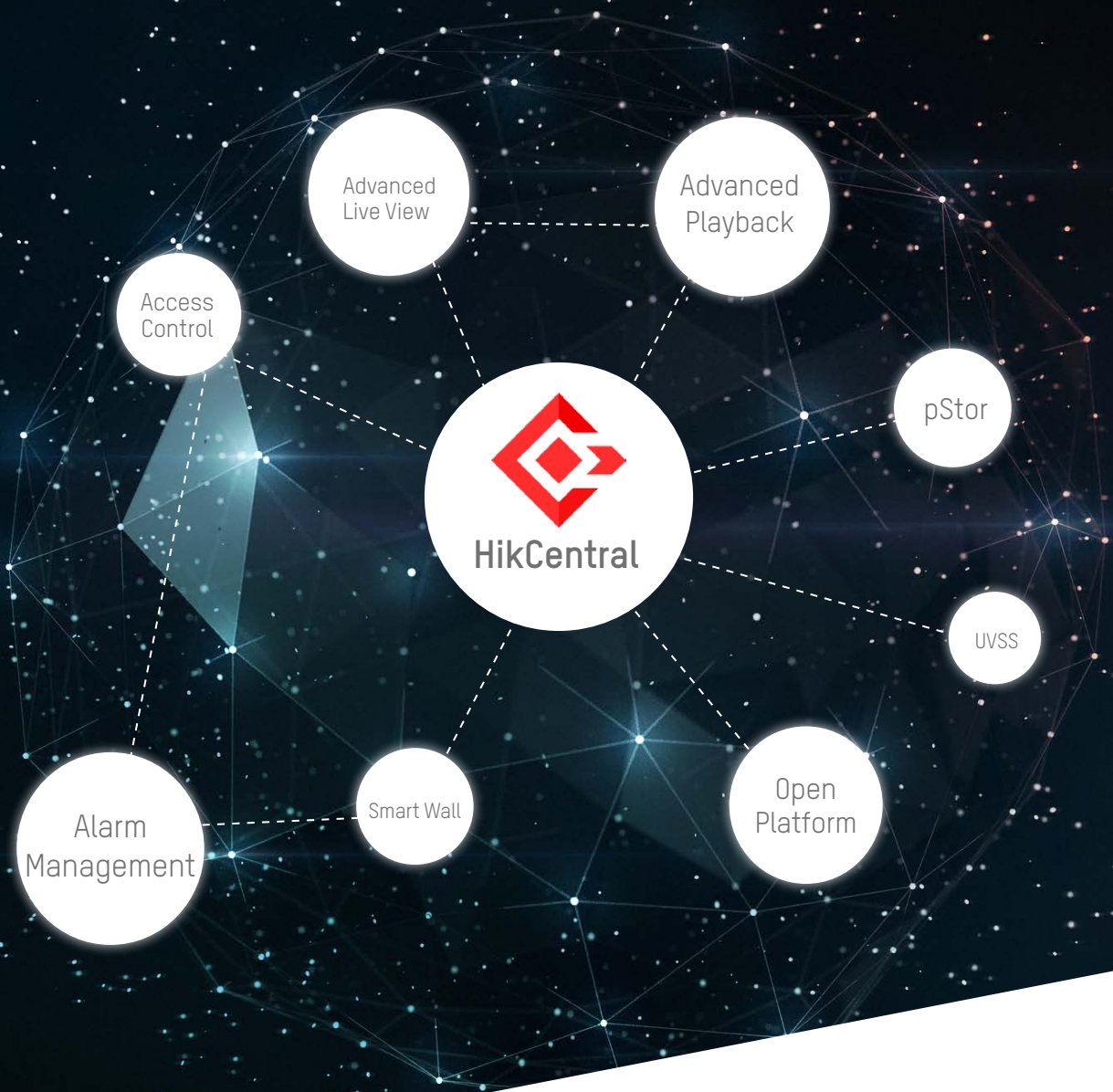
HikCentral Overview

The newly released HikCentral contains new advanced functions, including:

- Advanced Live View
- Advanced Playback
- Thermal Imaging
- Queue Detection
- Smart Wall
- Low Bandwidth Adaptability

- pStor (Windows Based NVR)
- Video linkage with Access Control
- Enhanced Alarm Management
- Professional UVSS
- 3rd-party Integration under OpenSDK

EASY VIEWING EXPERIENCE

Live View

Automatic Switching between mainstream and substreams helps to maintain a high quality resolution when multiple cameras are viewed simultaneously. What's more, bandwidth efficiency sees a welcome expansion with Automatic Switching.
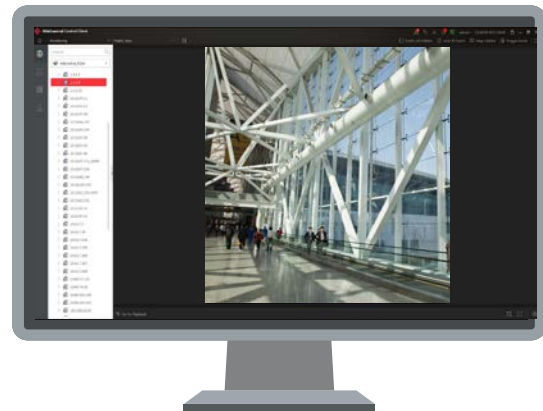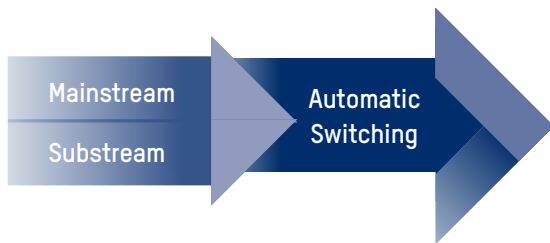
Fisheye Cameras

- Flexible PTZ operation
- Intuitive zoom and expanded viewing
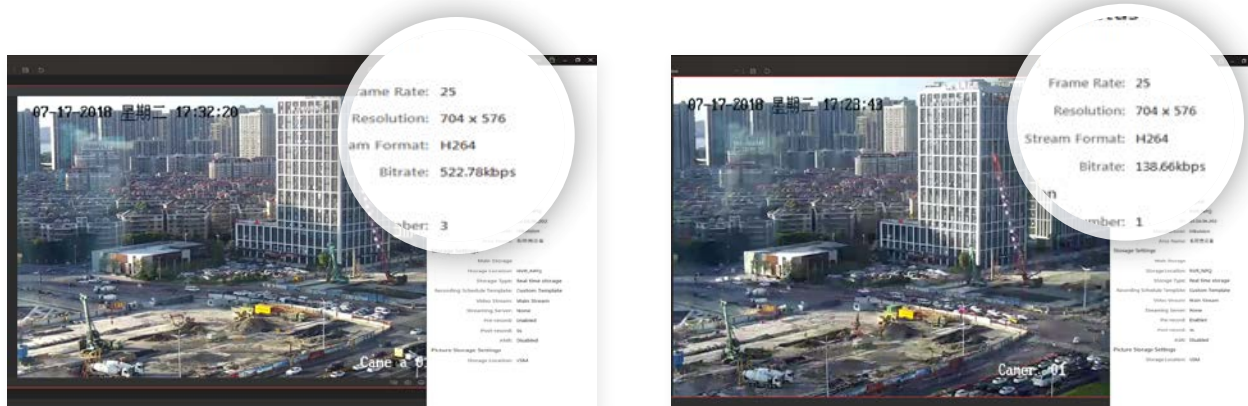- Multiple fisheye cameras supported
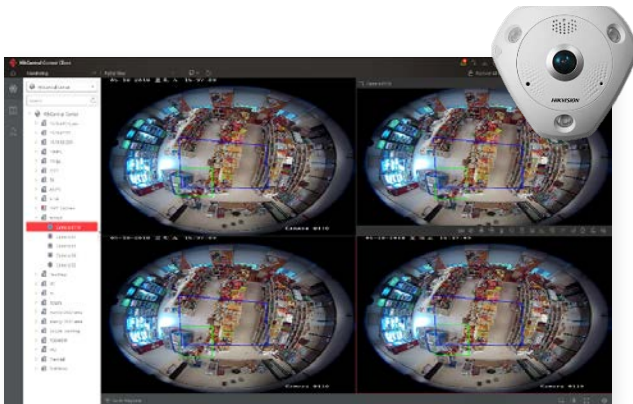
PTZ Cameras

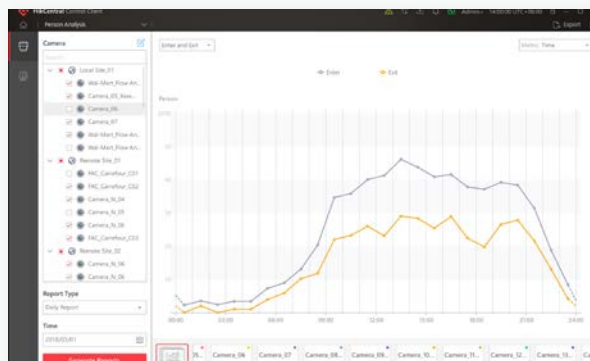- Intuitive control of PTZ viewing angles using cursors

Low Bandwidth Network Adaptability

Bitrates change automatically between clients and NVRs/IPCs according to network capacities.

People Counting

- Real-time crowd control
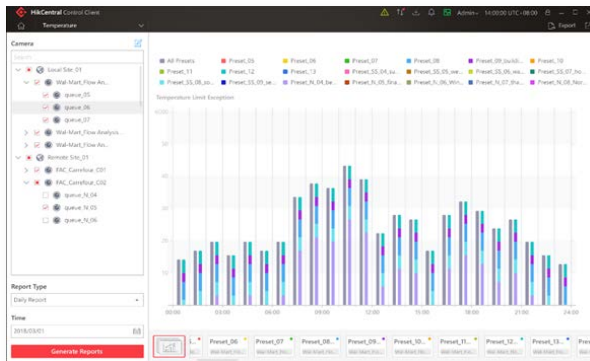- Intelligent statistics and visitor analysis
- Statistical reporting

Heat Mapping

The HikCentral Platform can generate a heat map which reveals customer behaviors in stores and other areas. Store owners can make layout adjustments and conduct further business analysis by using heat mapping technology.

Thermal Imaging

Temperature Statistics

Thermal cameras record temperatures of different "measuring points", which are locations that require special attention within the reach of the camera.

Cameras can record maximum and minimum temperatures, then generate statistics about noteworthy events or anomalies.

With these statistics, it is convenient to monitor temperature changes of one specific location, or to compare temperatures across different sites, making it easy to spot abnormal situations and avoid potential risks.

Thermal Camera Report

- Line chart for maximum and minimum temperature display
- Intuitive histogram display for the number of abnormalities for each "measuring point"
- Customizable statistics display allows you to choose which "measuring point" to be included
- Display statistics from up to 20 "measuring points" at the same time
- Remote site camera support

Queue Detection
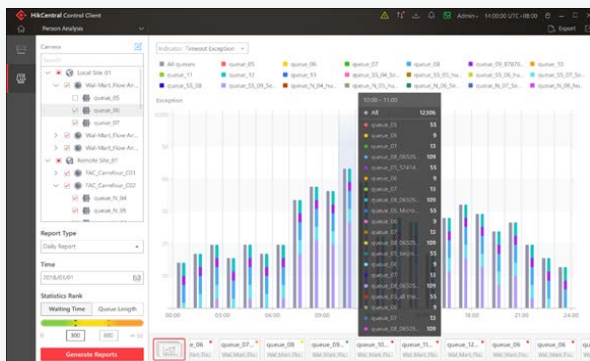
Queue detection cameras monitor up to three lines at the same time, producing statistics on both the number of people in line and waiting time.

This makes a great tool for store operators as they can now compare queuing statistics of different cashiers or view the queue data throughout the entire day, paving the way for optimizing shift schedule and employee arrangement.

Map Management
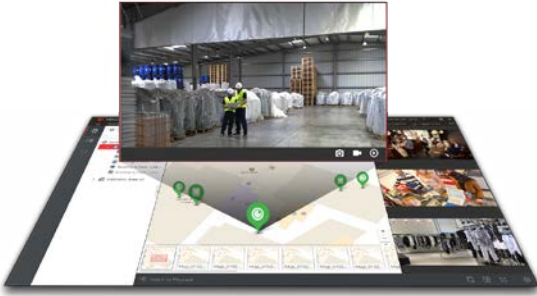
- Configures maps for specified areas
- Labels relevant resources such as cameras or doors on the map
- Enables live view, playback, and other operations on map
- Receives and responds to alarms in real-time

A more user-friendly and intuitive interface brings convenient map management to the resource module. Maps, cameras, and other resources can be managed in one place.
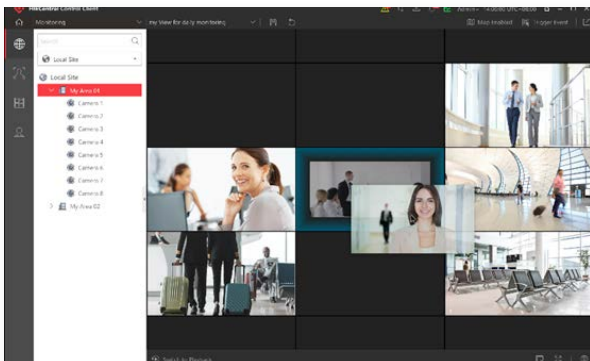
Call up live video and monitor various sites by simply clicking their icons on the map.

Map management (both on RSMs and VSMs) supports resources, such as cameras, doors, hot zones, alarm inputs/outputs, remote sites, and UVSS. Now, with HikCentral, you can use both GIS and E-maps for easier viewing and monitoring.

Adaptive Window Division

Self-adapting window division brings a more intuitive and convenient video operation experience

POWERFUL VIDEO PLAYBACK, SEARCH, AND VIDEO EXPORT

Thumbnail Playback

Thumbnails provide quick incident location. Use this function to:
- Add tags to suspicious events for later review
- Lock videos to protect it from being overwritten
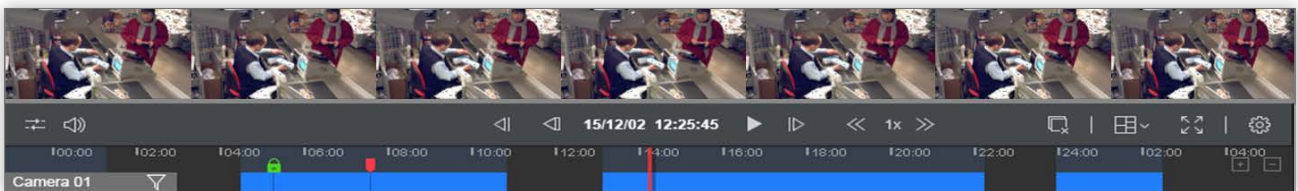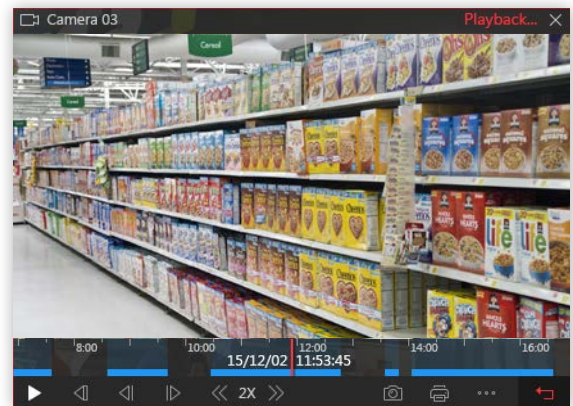- Download videos to local storage components for backup

Strong network adaptability ensures great video quality even under low bandwidth

Strong Network Adaptability

Low Bandwidth

VCA Search

"After-the-fact" VCA search provides convenient analysis.

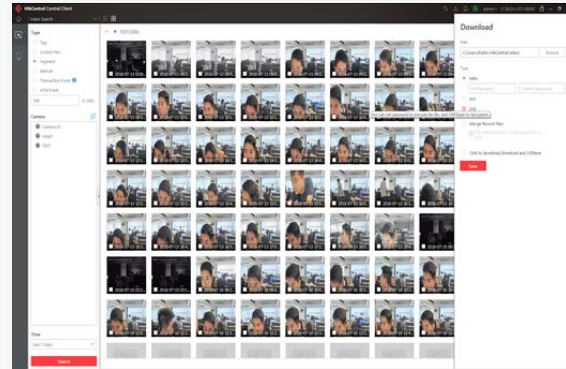- Motion Analysis
- Line Crossing Detection
- Intrusion Detection

You have the option to extend VCA searches to remote sites.

Smooth Drag & Drop for Playback

Smooth playback for quicker event retrieving

Export Video

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

FACIAL RECOGNITION

Search by Facial Recognition

Facial Image Comparison
The system can conduct quick facial comparisons between the captured facial images and existing images in a database, making facial recognition efficient and accurate.

Blacklist & Whitelist Alarms
After searching, the black/whitelist comparison is launched to identify the status of visitors. For example, blacklist alarms can identify suspicious persons and prevent incidents while whitelist reminder allows staff to provide timely services to VIP customers

Video Search by Facial Images
Search for relevant videos using captured pictures or matched pictures in the DeepinMind NVR.
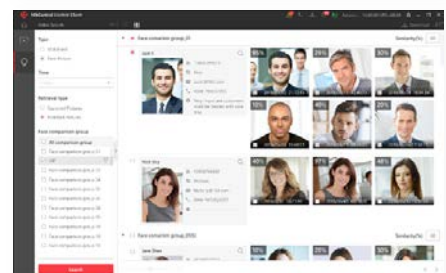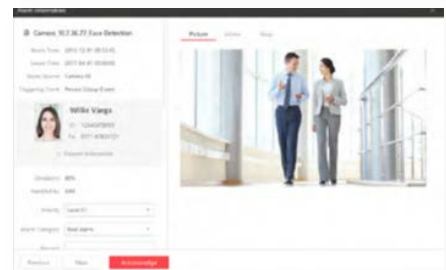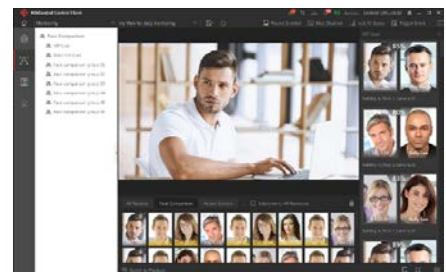
ALARM MANAGEMENT

Central Alarm Management

The HikCentral platform can centrally manage alarms by integrating relevant alarm devices such as Security Control Panels and various Alarm Stations.

- Protective area management and arming / disarming
- Supports system linkage
- Capable of receiving and responding to alarm information
- Easy device log search
- Receives alarm information on mobile client

Security Control Panel

Panic Alarm Station

Alarm Center

The Alarm Center manages all alarms on the HikCentral Control Client.

A comprehensive alarm center module can display alarm lists, video surveillance (playing back up to 16 video streams at the same time), and GIS simultaneously on the screen.
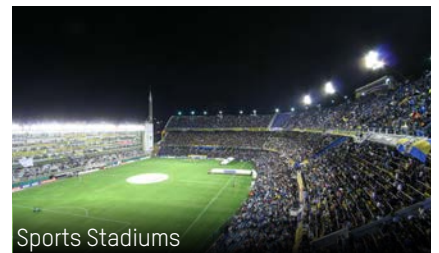
Application Scenarios

Alarm stations are used in a variety of scenarios, such as schools, sports stadiums, shopping malls, factories, warehouses, buildings, etc.

Buildings

Schools

Sports Stadiums

Factories

Warehouses

Shopping Malls

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.

SMART WALLS

Live View **Playback** **Alarm Linkage**

Single Mode

Use each monitor discreetly for different content types

Joint Mode

Get all the detail you need in joint display mode

Embedded in the HikCentral platform, a Smart Wall provides powerful management functions including real-time video surveillance display and alarm viewing. Support for up to 32 monitoring screens and 32 decoding devices along with flexible viewing modes simplifies any task on the wall.

Division Mode

Every screen can be divided into more screens, enabling several tasks at once
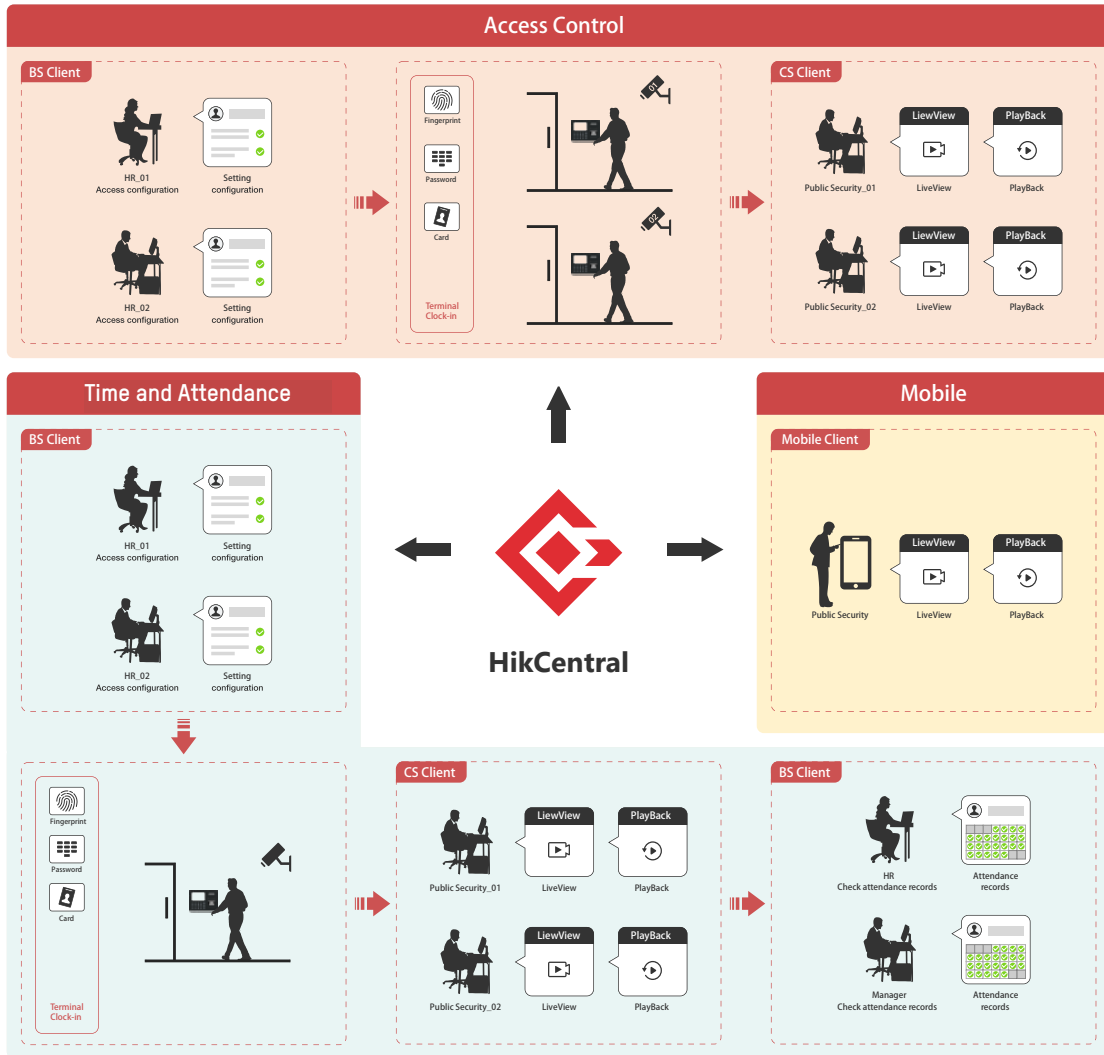
Roaming Mode

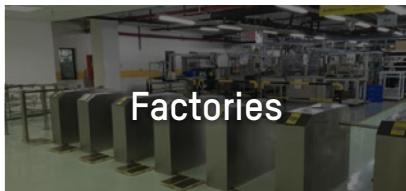Open a small window on the screen in the same way you would on a computer

- Supports 1200K / 1600K keyboard
- Supports 64 / 69 Series decoders
- Supports C10S-T video wall controller

EFFICIENT ACCESS CONTROL
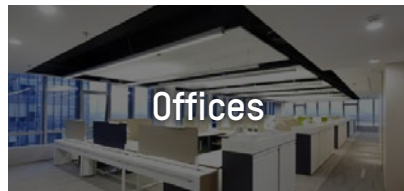
Time and Attendance and Access Control

Anti-passback

Factories

Sometimes people who already access an entrance pass their card to an unauthorized person who then enters. The Anti-passback function prevents this activity.

First Card

Offices

Only after the first card is swiped to open the door can other authorized cards be used. Through First Card Authorization, employees can only access the office once authorized persons gain access (manager, security, etc.).
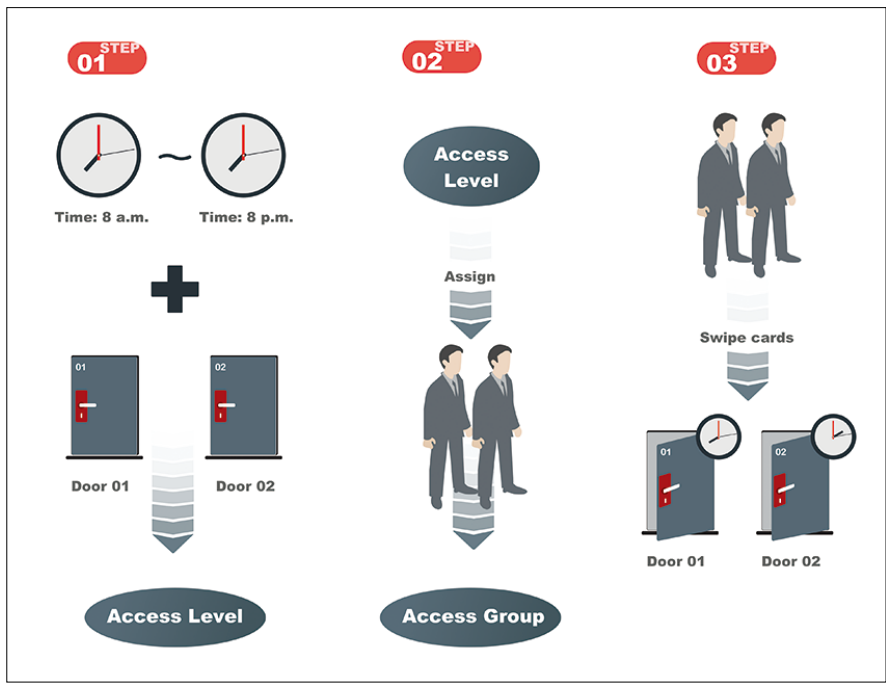
Lockdown
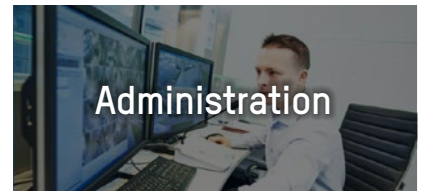
Administration

The administrator can lock or recover all doors with one-click. This function can be performed on both control clients and mobile clients, so users can secure an area anywhere, anytime.

Easy Authorization Management

Access Levels
Various access levels are location-specific and time-specific authorizations

Access Groups
Members of one "access group" can be granted the same access level

# Access Control and Video Linkage

1. Live Viewing
- Live view for each access
- Simultaneous display of access records and relevant information
- Dual-window view for real-time switching
- Real-time control of doors

2. Record Search
- Search one's access records using filters: name, access results (pass / deny), and access method (card, fingerprint, etc.)
- Supports video playback
- Relevant personal information display

3. Alarm Linkage
- Cameras linked to doors can record video when alarms trigger
- Automatic door control can be linked to different events. For example, doors can be automatically closed when a camera recognizes intrusion behaviors
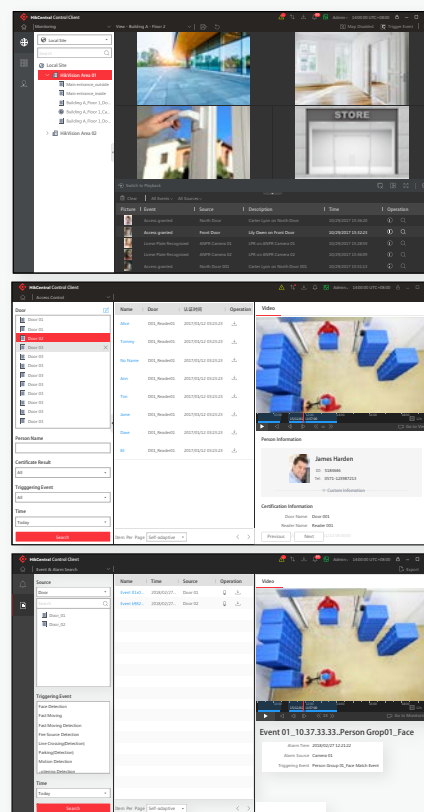
Face Recognition Terminal

When used with Hikvision Swing Gate

- Face recognition terminals provide access controls and work in the same way as card readers
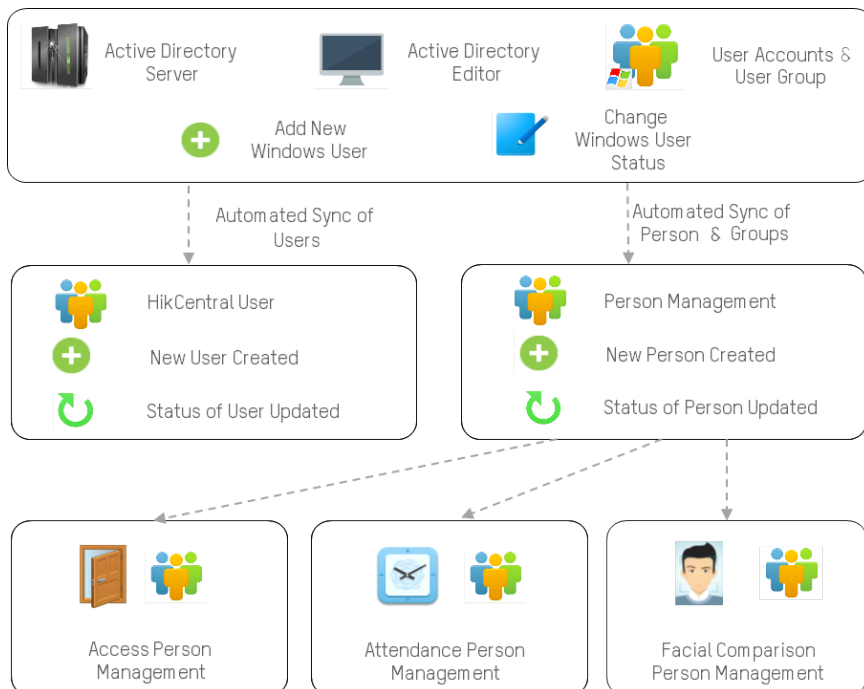- These terminals support gate controls such as enter or exit mode and event configuration

When used with 3rd-party gates

- Face recognition terminals can either grant or deny access through facial information
- Access control is passed on to the 3rd-party gate through I/O output

- Hikvision terminals use facial information as credentials
- These terminals offer custom combinations of authentication methods
- Facial recognition terminals also provide attendance records

Active Directory Integration

Active Directory Server
Active Directory Editor
User Accounts & User Group
Add New Windows User
Change Windows User Status

Automated Sync of Users
Automated Sync of Person & Groups

HikCentral User
New User Created
Status of User Updated

Person Management
New Person Created
Status of Person Updated

Access Person Management
Attendance Person Management
Facial Comparison Person Management

Microsoft Active Directory integration facilitates the centralized management and synchronization of Windows user accounts in Access Control. Adding Windows users to the Active Directory will automatically create new HikCentral users.

- Ensures secure access to system
- Allows sharing of organization data
- Simplifies personnel management
- Automatic synchronization reduces repetitive work

VEHICLE MANAGEMENT
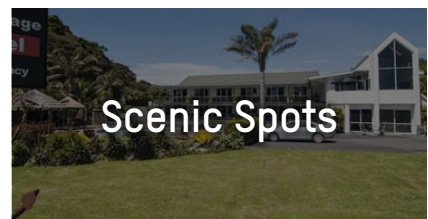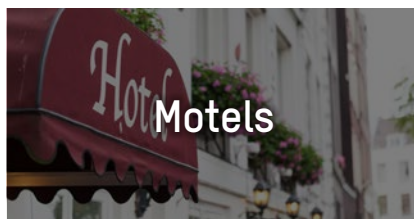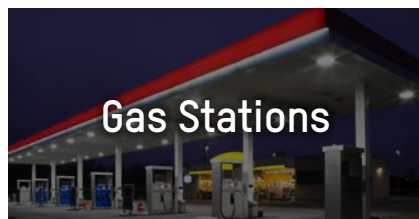
Automatic Number Plate Recognition (ANPR)

ANPR Recording
- Automatic number plate recognition and recording
- Vehicle list management
- Blacklist warning and VIP list notification
- Record search and reporting
- Export reports from remote sites

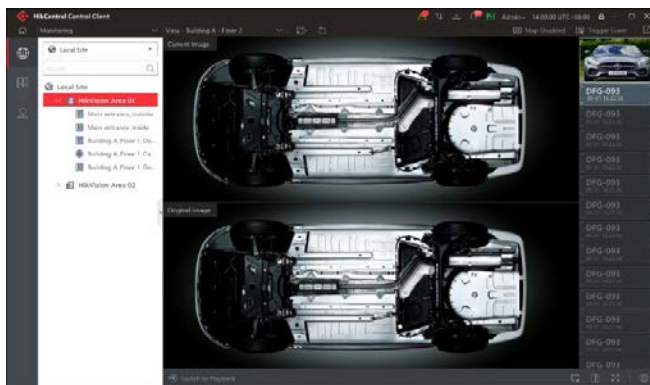ANPR Camera

ANPR Camera

Gas Stations

Motels

Scenic Spots
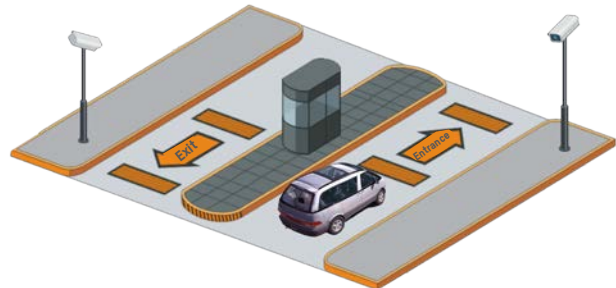
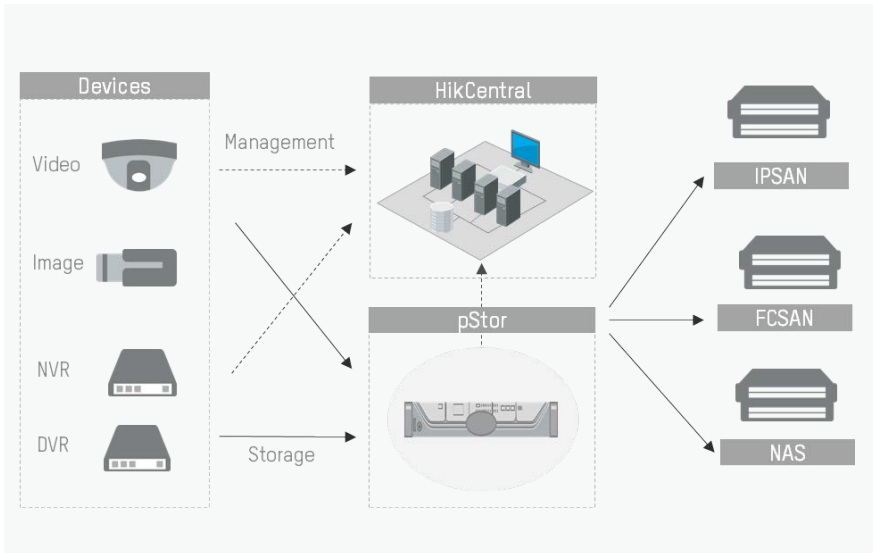## Under Vehicle Surveillance System (UVSS)

Advanced UVSS
- Detects vehicle undercarriages
- Synchronizes LPR camera data with vehicle image
- Suits various vehicle models, with entire vehicle chassis in one picture
- High-durability design
- High-quality imaging with low distortion

CENTRAL STORAGE AND BACKUP

pStor (Windows-based NVRs)

HikCentral + pStor Solution

- Extend HikCentral with video recording & picture storage capabilities
- Supports IPSAN, FCSAN or NAS

Video Backup
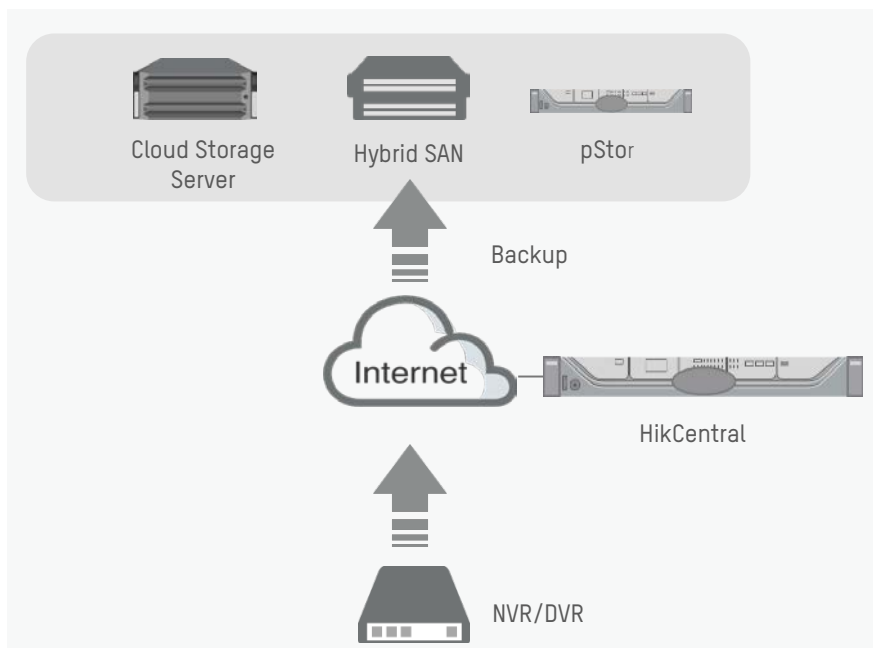
Real-time backup & scheduled backup for low bandwidth network environments

During the day, video recordings are saved on front-end devices.
In the evening, they are transferred to central storage, such as Hybrid SAN.

- After-hours backup
- Speed control (pStor only)
- Event recording or continues recording backup

New System Structure

Improvements in this newly released version:

- Low bandwidth network adaptability
- Image storage optimization: Images can be saved in central servers
- Easy maintenance using audit trail and health monitoring
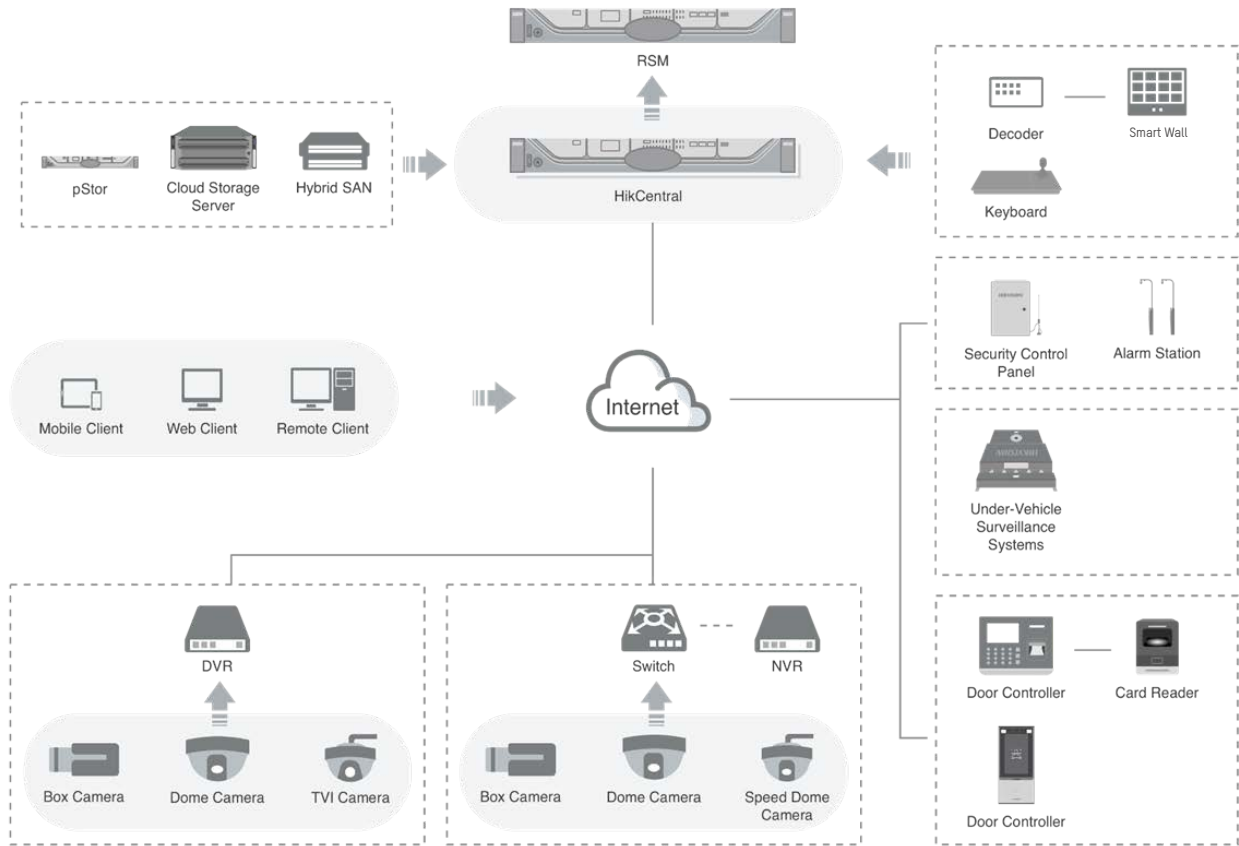- Self-adapting display window division
- Smooth drag and drop for display windows
- Remote search of video records
- Analysis reports

SYSTEM STRUCTURE

RSM

pStor | Cloud Storage Server | Hybrid SAN

HikCentral

Decoder | Smart Wall

Keyboard

Security Control Panel | Alarm Station

Under-Vehicle Surveillance Systems

Mobile Client | Web Client | Remote Client

Internet

Door Controller | Card Reader

Door Controller

DVR

Box Camera | Dome Camera | TVI Camera

Switch | NVR

Box Camera | Dome Camera | Speed Dome Camera

SERVER LAYER

- HikCentral VMS Server
- Streaming Media Server
- Storage Server
- Hybrid SAN
- Cloud Storage
- pStor
- RSM Server

DEVICE / SYSTEM LAYER

- Cameras, NVR, and DVR
- Decoder / Smart Wall Controller
- Network keyboards
- Door controllers doors
- Under Vehicle Surveillance System (UVSS) management
- Security Control Panel and Alarm Station

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◆ HikCentral

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