



THE COMPREHENSIVE PACKAGE TO FULL PROTECTION THE HikCentral SOLUTION

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Contents







COMMON CHALLENGES AND HIKVISION'S SOLUTIONS

Common Challenges

A unified, connected, and intelligent platform solution is needed



- Massive labor required when searching massive data
- Complicated operation and troubleshooting



The HikCentral Solution Advantages

In one word: unified. The HikCentral Solution from Hikvision keeps video surveillance, security systems, and access control units unified. Nothing ties together an extensive setup of critical security hardware like HikCentral. From front- to back-end equipment, and from perimeter protection to central command, the HikCentral Solution unifies whole systems – even integrating products from other manufacturers. It's easy to install and configure, and offers impressive scalability. Its extensive backup systems provide solid, continuous operation. Continue reading to see just how powerful and effective this solution is both for security and for business enhancements in a multitude of vertical market applications.





THE HikCentral SOLUTION

System Architecture



Monitoring Center

- Unified Management
- Smart Wall
- Alarm Management
- Maintenance

Video Surveillance

- Front-End
- Back-End
- Central Storage

Access Control

- Fingerprint, Card & Password Authentication
- Attendance Report

Vehicle Management

- License Plate Number Recognition
- Vehicle Chassis Inspection

Solution for Common Scenario

IP Cameras-

PD





Smart IP Box Camera

- 1/2.8" Progressive Scan CMOS
- 1080p @ 60 fps
- High contrast light environments
- 140 dB WDR
- Auto Back Focus



Ultra Low Light Smart Dome Camera

- 1/1.8" Progressive Scan CMOS
- Auto-iris
- 1920 x 1080 @ 30 fps
- 120 dB WDR
- IP66



Network IR Speed Dome

- 1/2.8" Progressive Scan CMOS
- Up to 1920 × 1080 resolution
- Min. illumination:
- Color: 0.05 Lux @(F1.8, AGC ON)
- B/W: 0.01 Lux @(F1.8, AGC ON)
- 0 Lux with IR
- 50× Optical Zoom, 16× Digital Zoom
- Optical Image Stabilization
- Up to 500 m IR distance
- Support H.265+/H.265 video compression
- Deep-learning-based target classification algorithm for auto-tracking 2.0 and perimeter protection



Dark Fighter 🗙

DarkfighterX IR Network Speed Dome

- 2× 1/2.8" progressive scan CMOS
- Up to 1920 × 1080 resolution
- Ultra-low light:
- Color: 0.001 Lux @(F1.5, AGC ON)
- B/W: 0.0001 Lux @(F1.5, AGC ON)
- 0 Lux with IR
- Up to 200 m IR distance
- Support H.265+/H.265 video compression
- Deep-learning-based target classification algorithm for auto-tracking 2.0 and perimeter protection

Solution for Large Scenario

....PanoVu





PanoVu Series 360º Panoramic + PTZ Camera

- 360° panoramic + PTZ camera
- 8*2MP panoramic view + 2/8 MP PTZ view
- DarkFighter technology
- Eight panoramic IR lights, IR distance: 200m
- Auto-tracking

Entries & Exits





ANPR Camera

- 2 MP, CMOS, 1920 x 1080, built-in LPR algorithm
- Integrated camera, housing, lens, power adaptor, supplement Lights
- Motorized lens
- Software one-key focus, easy debugging
- Built in whitelist, LPR identification support, barrier / gate control , audio output

UVSS

- 2048 *15000 resolution, support multiple pictures tiled display
- Supports high speed and non-uniform movement with no motion blur
- FOV 180°, designed for distortion optimization
- Supports automatic trigger/ Sense coil trigger
- Waterproof, anti-fog, and anti-corrosion
- High-strength structure supports heavy vehicle passing
- Professional illumination design

Intrusion Detection



Inerma





Thermal Camera

• Environmental Adaptability

Adapts to challenging conditions such as complete darkness, high contrast, fog, and more

- Concealed Object Detection
- Effectively detect hidden objects or people
- Long Distance Detection
- Thermal cameras have longer effective detection distance
- High Alarm Accuracy
- 24x7 real time alarm with high accuracy



Business Intelligence



outdoor



- Supports discrete counting of people entering, exiting, and passing by
- Supports real-time uploading and uploading by statistical cycle
- Flash memory storage for people counting data

• Up to 5m IR range (Outdoor)





People Counting



Network Fisheye Camera

- A graphical representation for visit density in a specified area
- Two behavioral analysis, line crossing detection and intrusion detection
- Heat Map



Facial Recognition



DeepinView Dual-Lens Face Recognition Camera Outdoor



DeepinView Face Capture Camera Indoor



DeepinMind Series NVR



Blacklist/Whitelist

Blacklist/Whitelist function can be utilized in different scenarios, such as store, bank, school, and casino. Various forms of application such as the following ones can be used. • Blacklist Alarm

- VIP Recognition
- Stranger Alarm

Search by Picture

Search by Picture allows you to search for relevant videos by sending a snapshot or a face picture of a person to the platform. Similarity level can also be customized according to different needs.









Access Control



Anti Pass-back

With Anti Pass-back, an access card can only be used to enter again after it is swiped out. This function prevents multiple people from sharing cards to get into restricted areas.

First Card

First Card can be associated with different rules and be used in different scenarios. For example, schools can adopt First Card Open to keep the door open for a designated period during the rush hour after the first authorized swipe; offices can adopt First Person Authorization, which only allows regular cards to enter after the first authorized card swipe in.

Generate Attendance Report

The platform can automatically generate attendance report, which is more cost-effective and accurate.



Vehicle Management



• High-quality picture with low distortion

Monitoring Center Storage Model







Monitoring Center



Display

- Seamless viewing and large-scale screen
- Point-by-point calibration

- Nanosecond response time
- Ultra-wide viewing angle and anti-dazzle



Smart Wall Work Flow

Monitoring Center Decode, Display & Control



- Input: 1-ch VGA, 1-ch DVI
- Output: HDMI (odd HDMI support 4K) and BNC
- Decoding: Up to 16-ch 12MP or 128-ch 1080p
- Built-in 16-ch 100M switch
- Up to 4×4 video wall control



- 10'1" capacitive touchscreen
- 4-axis joystick
- detachable design of touchscreen and joystick
- preview, PTZ and TV wall control

.Decode



- Physical resolution up to 1920 x 1080p
- 3.5 mm physical seam
- LED backlight, S-PVA panel
- Abundant interfaces including DVI, VGA, HDMI, YPbPr, BNC



THE HikCentral PLATFORM

The HikCentral Platform



Video Management



Live View & Playback

- Mainstream and sub-stream automatic or manual switching
- Supports camera status check
- Supports channel playback on the live view screens during simultaneous live viewing on another channel
- Rapid video clip acquisition around a specified target time; retrieves subsequent video by simply dragging timeline
- Provides live viewing & playback via mobile app

Smart Wall

- Live viewing and playback mode
- Supports manually sending alarm list to the Smart Wall
- Alarm-related video can pop up onto Smart Wall automatically



Video Search

- Multiple efficient ways to search video: by tag, by locked status, by interval, by time, by file, etc.
- Thumbnail feature for quicker positioning
- After-the-fact" VCA search of playback video available for convenient analysis
 - Motion Analysis
 - Line Crossing Detection
 - Intrusion Detection



Event & Alarm Management





Event & Alarm

- Event & alarm configuration, including rules and linkage configuration
- Event & alarm management
- Alarm notification on mobile app

Composite Alarm

• Composite Alarm is able to lower the false alarm rate and increase alarm efficiency.



You can customize the rules and priority levels for composite alarms according to different needs.

Composite alarm is triggered when all the preset conditions are met. For example, a bird that only triggers line crossing will not trigger the composite alarm, thus lower the false alarm rate.



Alarm Escalation





Maintenance

• Centralized display of general system health on dashboard for up-to-the-minute status report





VERTICAL FEATURES

Retail

People Counting



- Real-time foot-traffic control
- Intelligent analysis and statistics for visitors
- Reports crowd traffic statistics



Heat Mapping



- Improves decision making of sales based on dynamic analysis through advanced Heat Map
- Provides insightful recommendations for locations of commodities
- Masters the statistical reports for requests and behaviors of consumers



POS Integration

The POS NVR provides multiple ways to connect with POS servers, making integration highly flexible





- Effective solution for loss prevention in retail sectors and for customer dispute resolving
- Supports search by keywords contained in POS information
- Links keywords to relevant POS videos which can be easily found and exported for investigation purpose

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ATM Integration





- ATM cameras solve transaction disputes and create efficient management for transaction data
- ATM smart search that based on keywords helps to locate relevant transaction videos quickly
- Transaction video includes detailed information overlaid on the screen



- H.264+ compression improves encoding efficiency by up to 50% and reduces data storage costs
- Supports overlapping the multiple ATM card numbers and multiple protocols
- Supports triggered recording upon insertion of ATM card
- Supports triggered recording by ATM transaction behaviors
- Privacy mask (in some regions) conceals and protects sensitive information





- 2 MP high performance CMOS
- High quality video in ultra-low light environments
- 1920 x 1080 resolution
- 120dB true WDR, 3D DNR
- Switchable TVI / CVBS
- Designed for ATM machines / areas

Education

Access Control

- Manage student's access to dangerous areas such as the lab room
- Prevent irrelevant personnel to enter restricted areas such as the finance center

Perimeter Protection and Behavior Analysis

• Perimeter protection with advanced behavior analysis to prevent false alarm





HikCentral ADVANTAGES

Ease Of Use

Easy Set Up

Install the system in minutes! The simple installation package design helps reduce the install time to minutes

Easy Configuration

- One-step addition for DVRs, NVRs, and IP Cameras
- One-step configuration automatically detects devices and allows quick Live Viewing and Playback of video



Unified Platform

HikCentral is a unified platform that blends video surveillance, access control, ANPR, POS, and 3rd-party system integration into one highly efficient solution



System Scalability

HQ Centralized Management via RSM



Super-large project solution

- Up to 1,024 HikCentral servers supported, covering 1,000 large branches
- 1 RSM server for centralized management
- Up to 100K+ camera access and management

Branch operator

HQ RSM

- Manage the branch video resource
- 100 local clients supported
- Manage the resource of all branches
- 100 RSM clients supported

System Reliability

With HikCentral VMS pre-installed and optimized for maximum performance, Hikvision Management Server provides advanced security solutions. These solutions are ideal for customers requiring highly reliable security.



- Strict system testing for pre-installed HikCentral on Hikvision Management Server
- The system supports Hybrid SAN N+1hot-spare for storage reliability
- Supports Windows Cluster and Rose Replicator solutions for system reliability

- Single-spot storage backup Multi-RAID supported by embedded NVR and Hybrid SAN
- Multi-spot storage backup When more than 1 of 10 active Hybrid SANs are out of service, the standby Hybrid SAN can take over recording automatically

In extreme situations, a single standby Hybrid SAN can cover recording for 10 Hybrid SANs.



N+1 Storage equipment device backup



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Headquarters

No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 overseasbusiness@hikvision.com

Hikvision USA T +1-909-895-0400 sales.usa@hikvision.com

Hikvision Australia T +61-2-8599-4233 salesau@hikvision.com

Hikvision India T +91-22-28469900 sales@pramahikvision.com

Hikvision Canada T +1-866-200-6690 sales.canada@hikvision.com

Hikvision Thailand T +662-275-9949 sales.thailand@hikvision.com Hikvision Europe T +31-23-5542770 sales.eu@hikvision.com

Hikvision Italy T +39-0438-6902 info.it@hikvision.com

Hikvision Brazil T +55 11 3318-0050 Latam.support@hikvision.com

Hikvision Turkey T +90 (216)521 7070- 7074 sales.tr@hikvision.com

Hikvision Malaysia T +601-7652-2413 sales.my@hikvision.com Hikvision UK & Ireland T +01628-902140 sales.uk@hikvision.com

Hikvision South Africa Tel: +27 (10) 0351172 sale.africa@hikvision.com

Hikvision France T +33(0)1-85-330-450 info.fr@hikvision.com

Hikvision Kazakhstan T +7-727-9730667 nikia.panfilov@hikvision.ru

Hikvision Vietnam T +84-974270888 sales.vt@hikvision.com Hikvision UAE T +971-4-4432090 salesme@hikvision.com

Hikvision Singapore T +65-6684-4718 sg@hikvision.com

Hikvision Spain T +34-91-737-16-55 info.es@hikvision.com

Hikvision Tashkent T +99-87-1238-9438 uzb@hikvision.ru

Hikvision Hong Kong T +852-2151-1761 info.hk@hikvision.com Hikvision Russia T +7-495-669-67-99 saleru@hikvision.com

Hikvision Korea T +82-(0)31-731-8817 sales.korea@hikvision.com

Hikvision Poland T +48-22-460-01-50 info.pl@hikvision.com

Hikvision Indonesia T +62-21-2933759 Sales.Indonesia@hikvision.com

Hikvision Colombia sales.colombia@hikvision.com

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