



HIKVISION



Prison Integrated Security Solution V1.0

See Far , Go Further

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HIKVISION



Requirement Analysis

People

- Criminals in jail
- Prison Guard
- Outside Visitor

Vehicle

- Internal fixed vehicles
- Outside vehicles

Environment

- Environmental safety

Ensure the safety and stability of the prison environment

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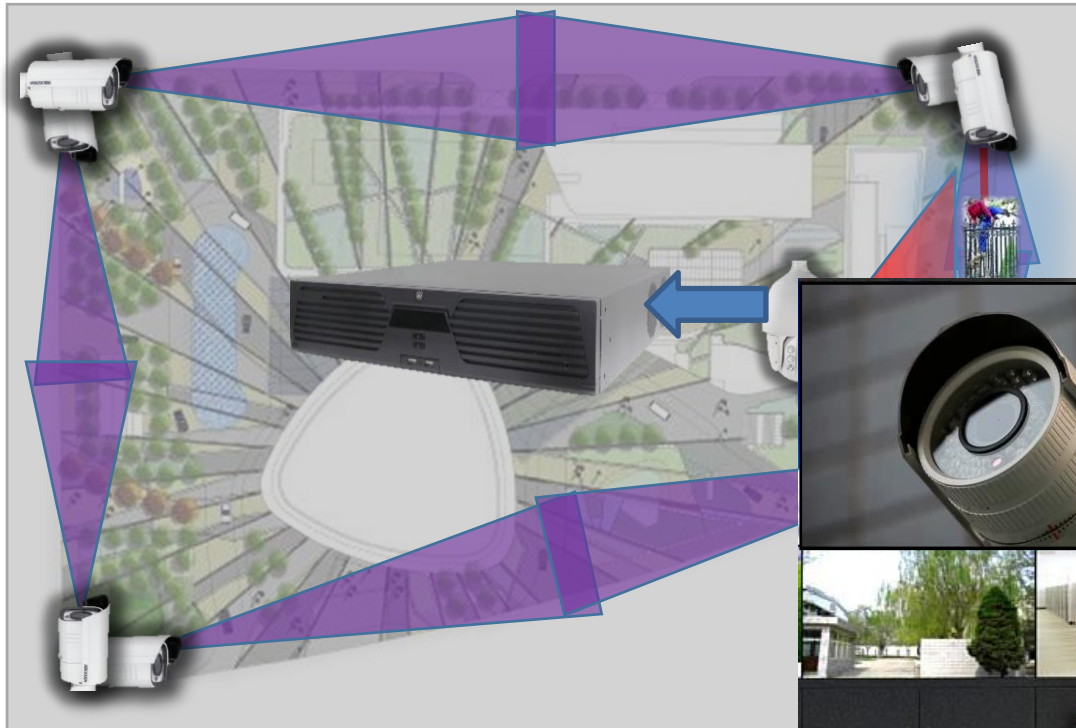


Solution Overview



Perimeter Protection - DeepInView & DeepInMind

■ Perimeter – False Alarm Filter

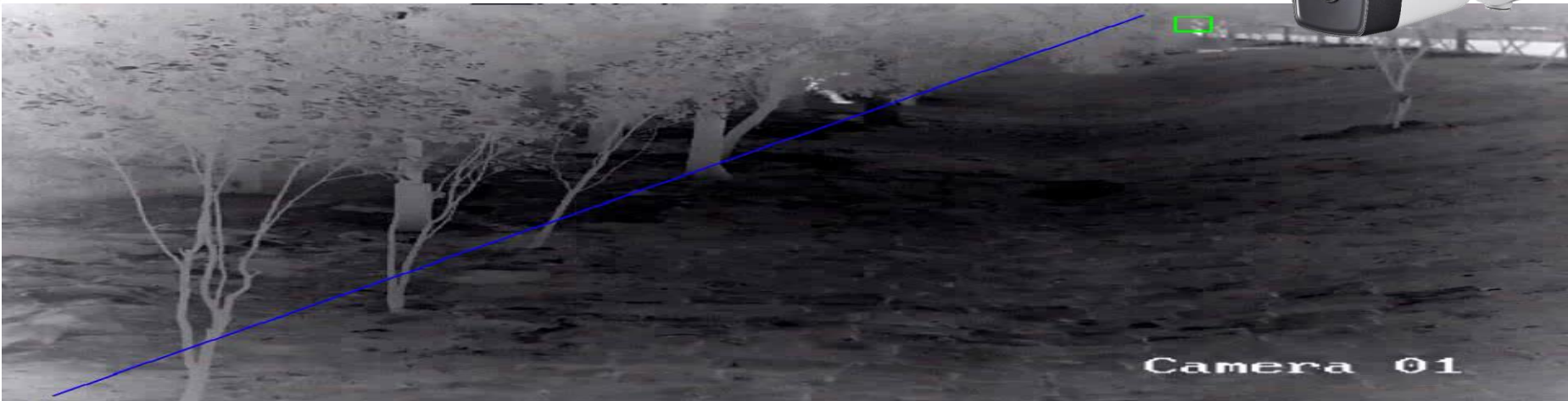


- ✓ Cross-border Invasion
- ✓ Regional Invasion
- ✓ Real-time monitoring and alarm,
- ✓ Prevent the invasion of theft
- ✓ The secondary target recognition based on the Deep Learning



- The perimeter of prison is always regarded as a important place that need more security concern;
- Traditional perimeter protection sometimes comes up a lot of false alarm, that confuse security a lot, with deep learning algorithm and secondary false alarm filter, increase alarm accuracy;

Perimeter Protection - Thermal



Environmental Suitability

Adapt to poor environment such as darkness, strong or back light, fog and haze



Concealed Detection

Easier to find suspects, effectively detect and see hidden objects among darkness or in the grass



Ultra Detection

Compare to optical camera, thermal has much longer detection distance

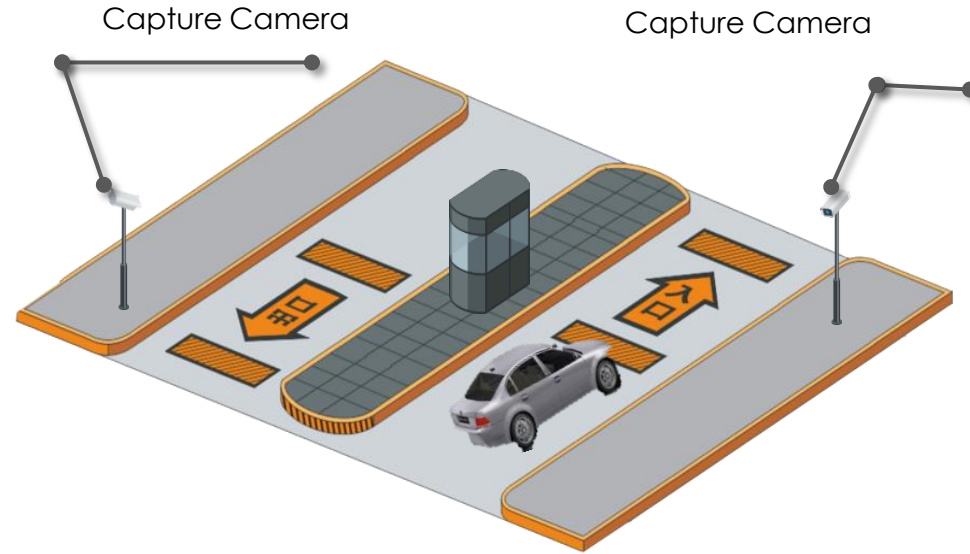


High Alarm Accuracy

Provide 7 x 24 online real time alarm with high accuracy

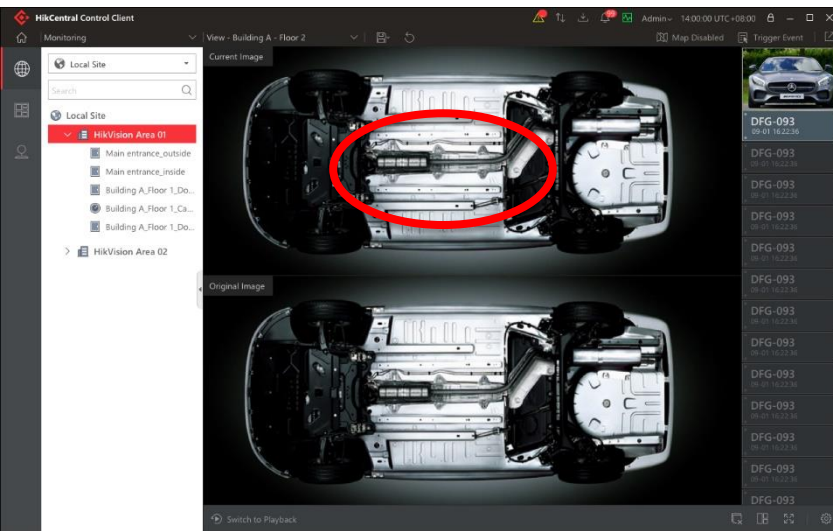
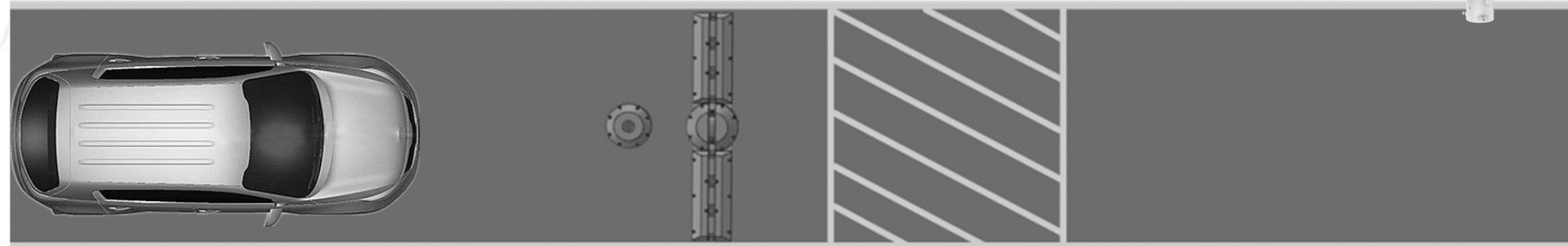
Entrance & Exit - ANPR Recording

Normally vehicles entering the prison gates needs a careful check, and also record the vehicle license plate, in case of abnormal event occurs.



- Automatic Number Plate Recognition & Recording
- Vehicle List Management
- Blacklist Warning
- History Search & Report

Entrance & Exit - UVSS



- Automatically detect the vehicle bottom
- Synchronize LPR camera data with Under Vehicle picture
- Suitable for various vehicle models, whole bottom of vehicle in one picture
- High-strength structure
- High-quality picture, low distortion

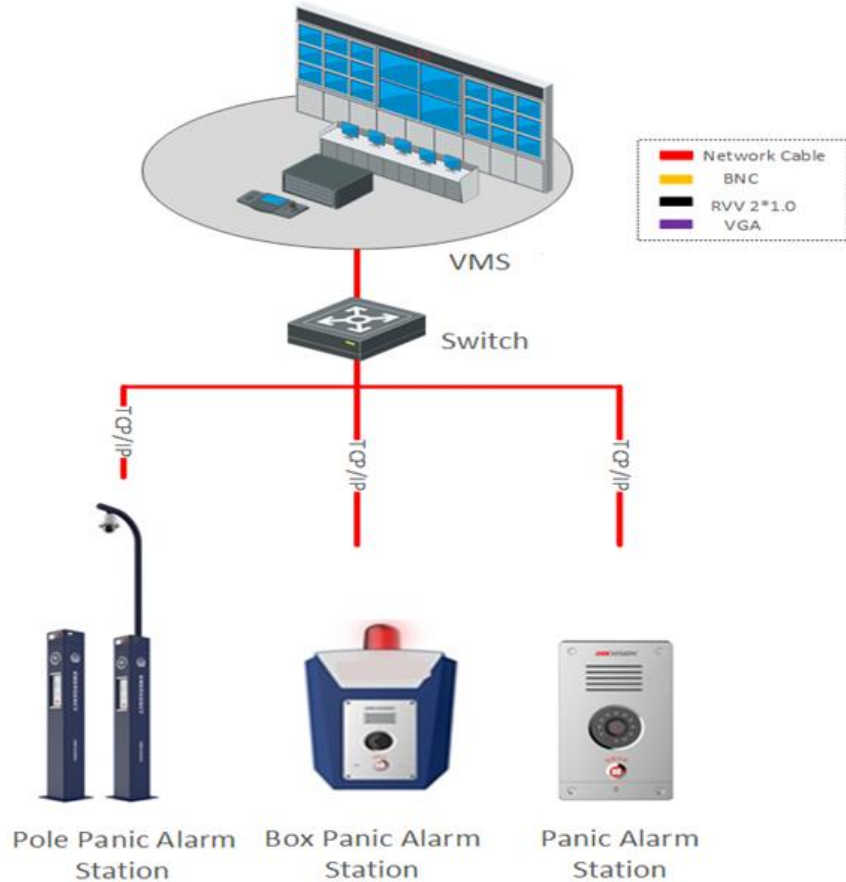
Public Area - PanoVu

PanoVu series 360° Panoramic + PTZ Camera

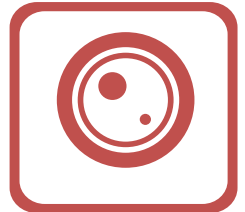
- 360° PANORAMIC + PTZ CAMERA
- 8 x 2MP panoramic view + 2MP PTZ view
- DarkFighter technology
- Smart tracking, smart detection



Public Area – Emergency Alarm



Emergency Button



HD Video



All In One



Two-way Audio



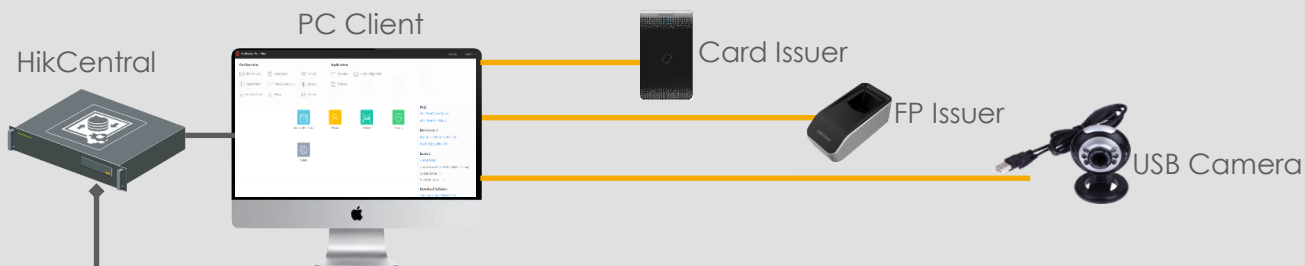
Broadcast

Indoor Area – Access Control management



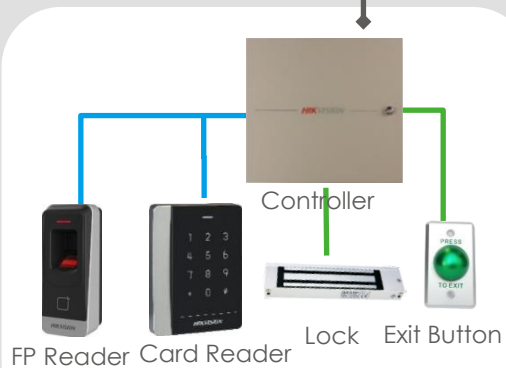
**Staff & Prison Guard
Management**

Indoor Area – Access Control management



Local Area Network(TCP/IP)

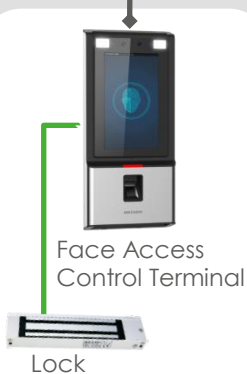
Traditional Access Control



Safety Module



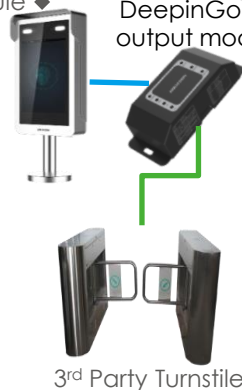
Facial Access Control



Face Access Module

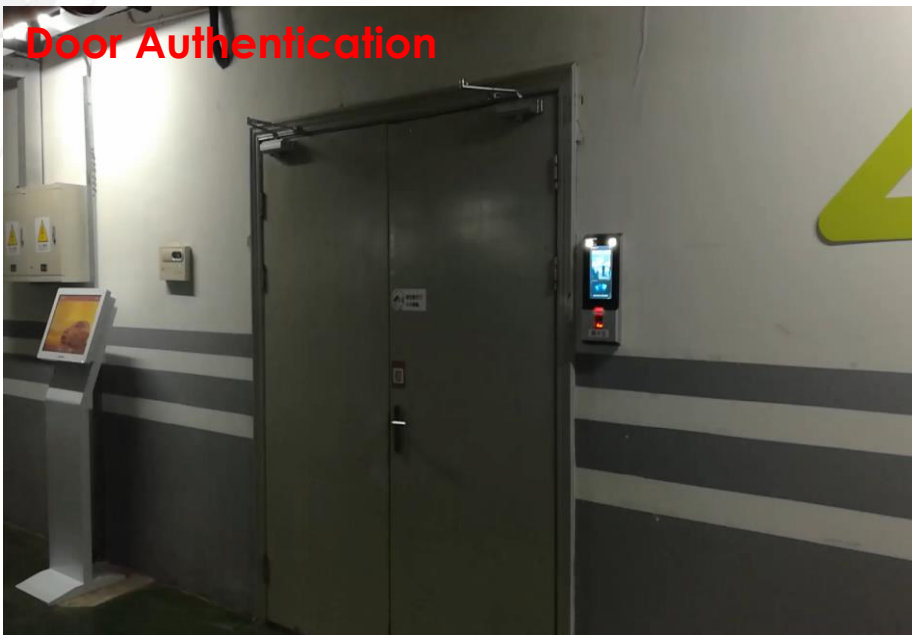


DeepinGo I/O output module



— UTP — RS-485 — Wiegand — USB — RVV

Personnel Access Management – Face Authentication



Door Authentication

- **7-inch** LCD touch screen to display operation interface, etc.
- High performance processor with **deep learning algorithm**.
- **Max.10000** face pictures capacity.
- Face recognition distance: **0.3 m to 1 m**.
- Face recognition duration less than **0.5s**.



Turnstile Authentication

- **10.1 inch** LCD Touch Screen.
- 2MP Camera,1080P,automatic focusing and self-adapt to different statural people .
- **10,000 faces**, 50,000 cards and 50,000 events.
- adopt deep learning algorithm ,faster and more accurate.
- Face Recognition Distance: **0.3m ~ 1m**.
- Face Recognition Duration(1:N) \leq **0.6s**.

Monitoring Center – Scenario Overview



Video Wall

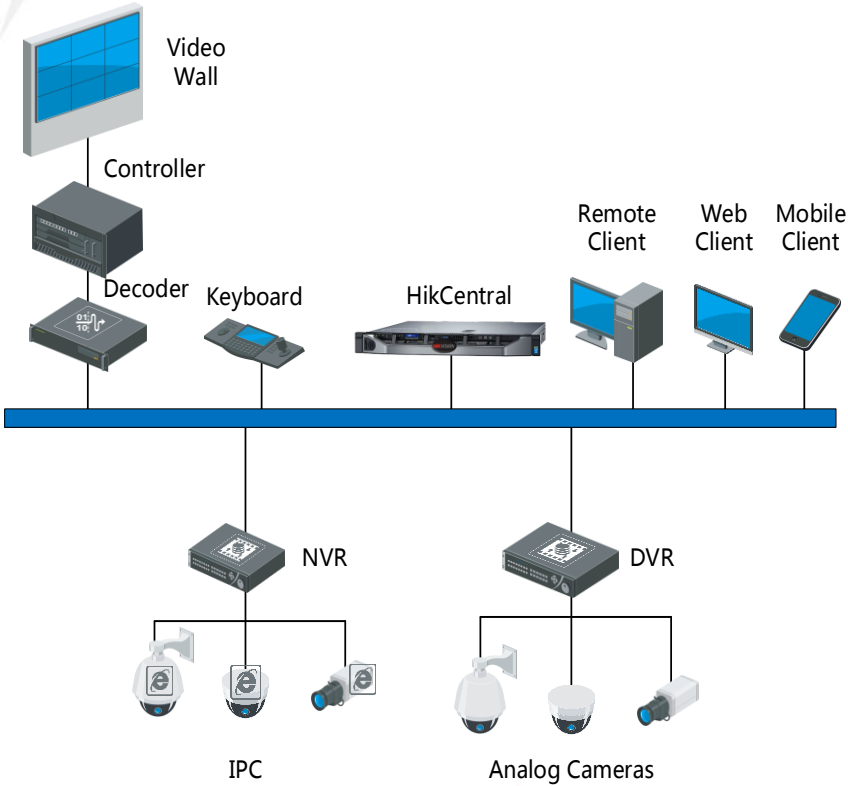
Decoder

Network Keyboard



- Division Mode:**
Video Wall
- Joint
 - Preview
 - Dividing
 - Playback
 - Window
 - Alarm
 - Roaming

Monitoring Center - Smart Wall



Live View

Playback

Alarm Linkage



Single



Joint

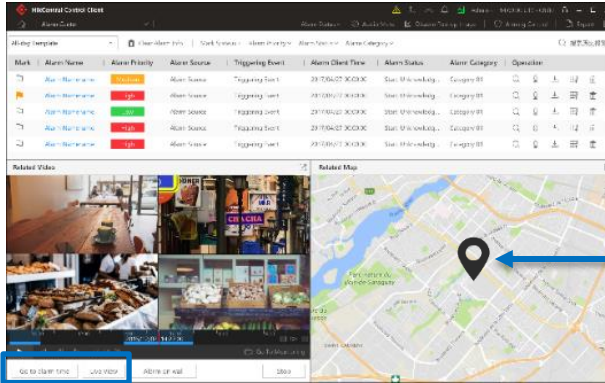
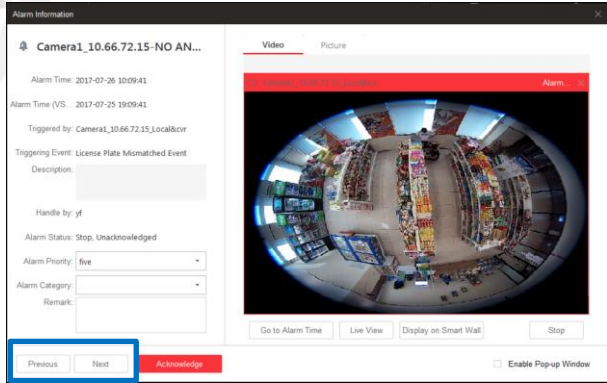


Division



Roaming

Monitoring Center - Alarm Management- Alarm Display

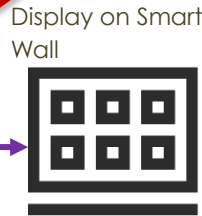
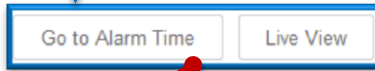


See the location of the camera on the E-map

Alarm automatically pops up

Easy switch when multiple alarms happen at the same time

Switch between live view & playback



Push to Smartwall

Display on Smart Wall

Monitoring Center - Maintenance

How to get awareness and take quick reaction to these errors?



Camera offline



Signal status exception



HDD Full



Video Tampering

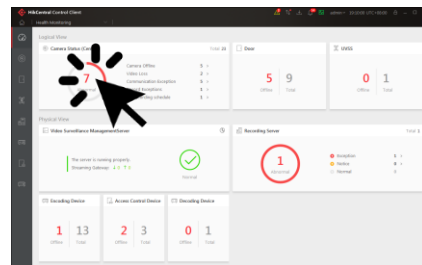


Server Notice



Record Exceptions

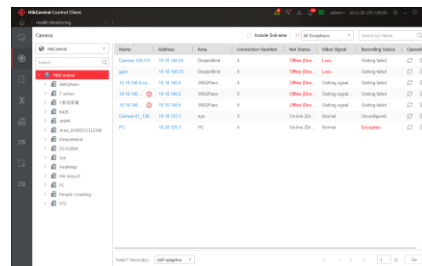
1. Check the health monitoring module



- Centralized display of health data of the overall system in dashboard, easily justify the health status of the system
- Quickly identify the server and device issues via the related link to help resolving problems quickly
- Easy and free tool to provide elementary system maintenance service for large scale projects



2. Details checking on abnormal items



- List of the abnormal items will be shown here
- List category contains camera, door, recording server, encoding device, access control and decoding device
- Check the abnormal items in detail and try to find the cause

3. Fix the problems

- Network accessible?
- Power on?
- User name & password correct?
- HDD normal?
- Recording schedule correct?
- Running too many applications?
-



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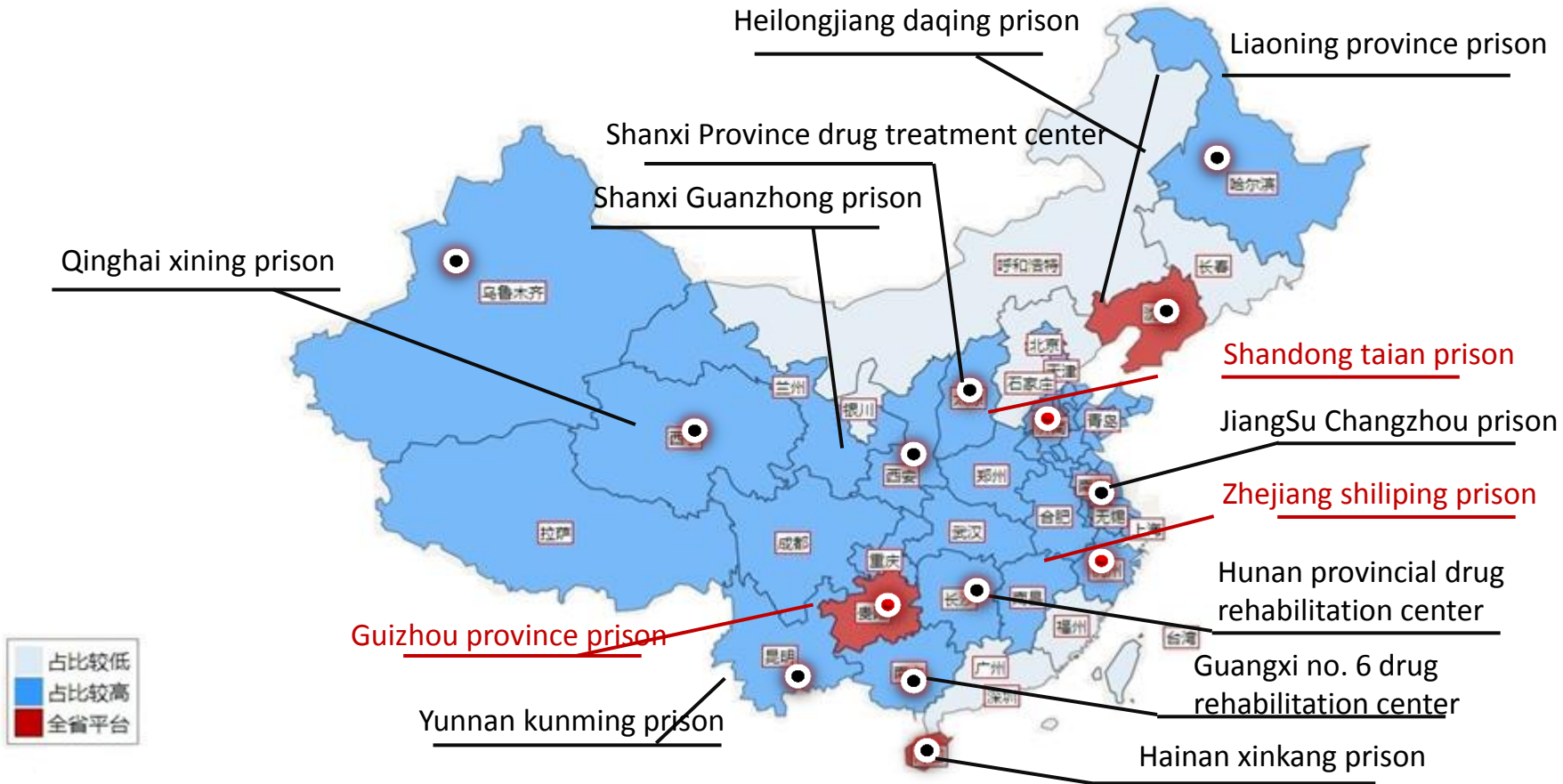
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Successful Cases

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Successful Cases





Thank You