

Dahua Smart and Integrated Bank Solution





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Success Stories

Part

1

Background



Banking Security Change



Digital Technology-Driven

New technology, new product, new system are constantly emerging, systems are getting bigger and more complex, networked security makes platform updated.



Centralized Management Requirement

Banking independent management and security system independent operation are changing, comprehensive security requirements are expanding continuously.



Evolving Bank Crime

Branch offices face a variety of security challenges as criminals develop cleverer ways to circumvent traditional security measures.

Challenges

Personal Safety Issues



Mugging, Assault,
Kidnapping.

Property Safety Issues



Theft, Fraud,
Robbery.

Operational Issues



Data Safety,
Information Island.

Business Issues



Poor VIP Experience.
Manual Authorization.

How to address the
challenges?

Part 2 Solution



Bank Layout & Key Technology



ATM

Discreet Design with WDR



Video Phone System

Counter



360 Degree Monitoring

Lobby

Unified Management



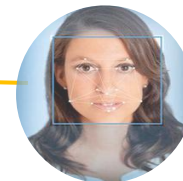
Security Center

4K Ultra HD



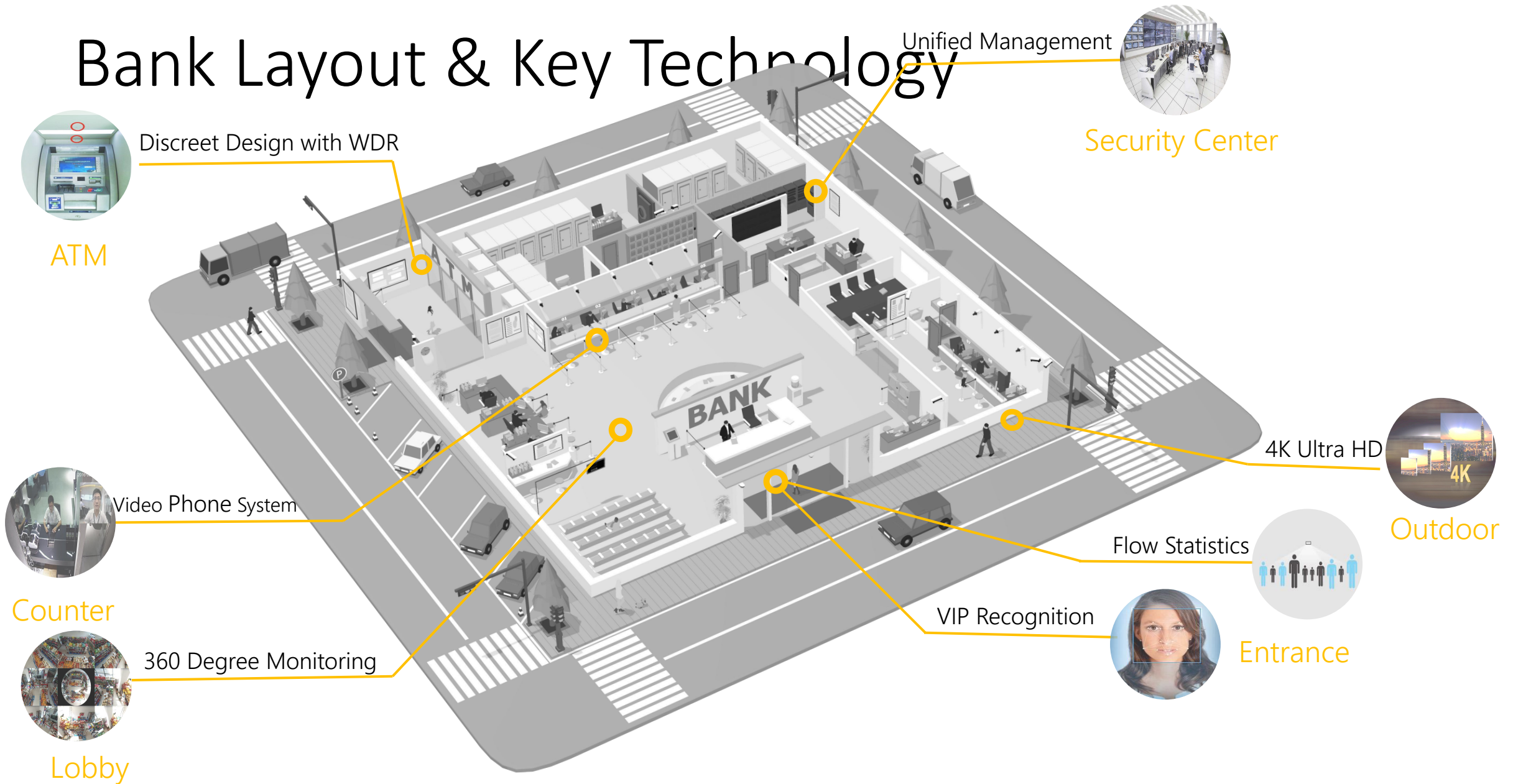
Outdoor

VIP Recognition



Entrance

Bank Layout & Key Technology



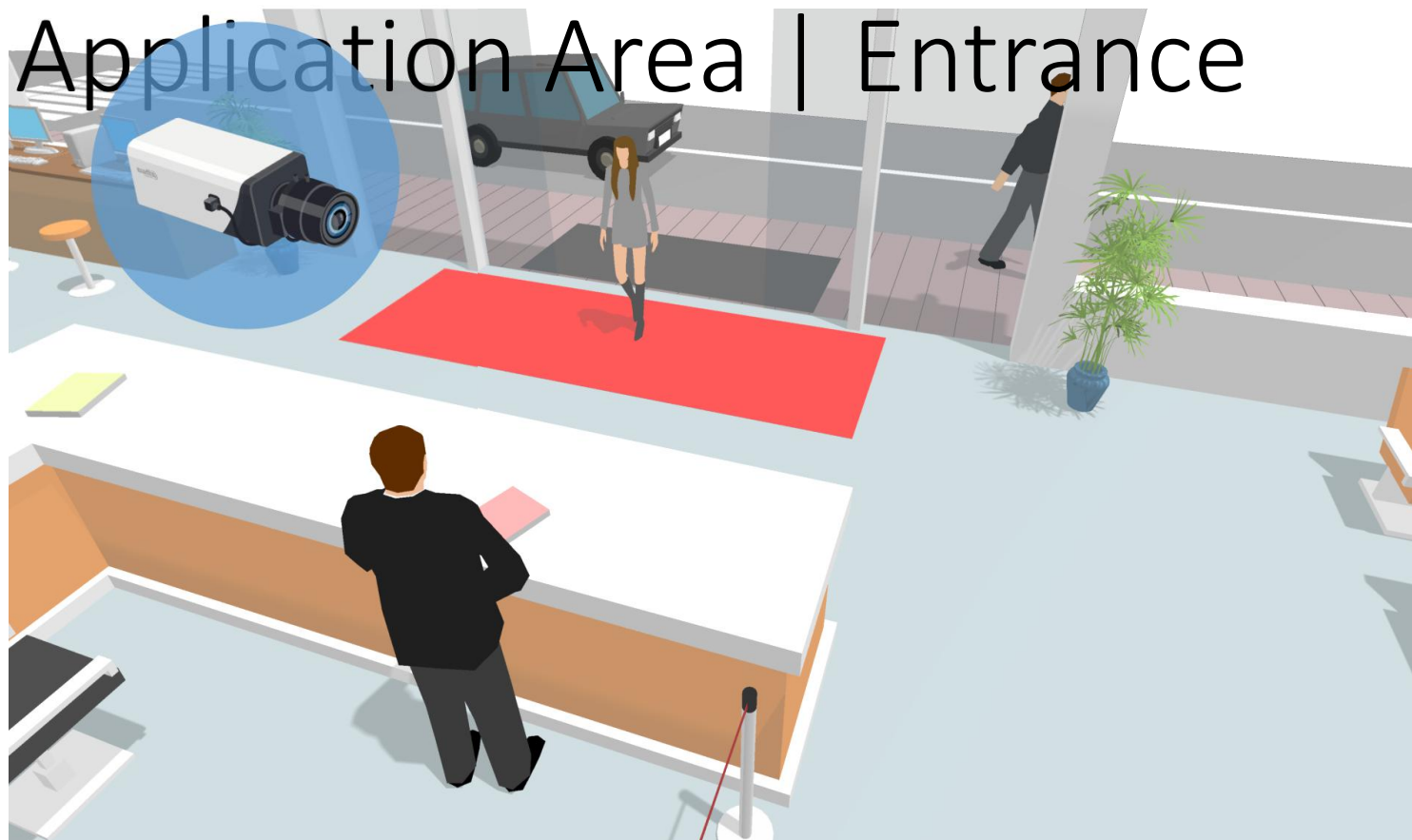
Application Area | Outdoor



Outdoor camera aims to avoid being traced and robbed by criminals.

- Multi-Lens with 180 degree panoramic view
- Within 15 meters, clear face features of the person and license plate numbers of the car can be captured.
- Within 40 meters, appearance of the person and the car can be detected.

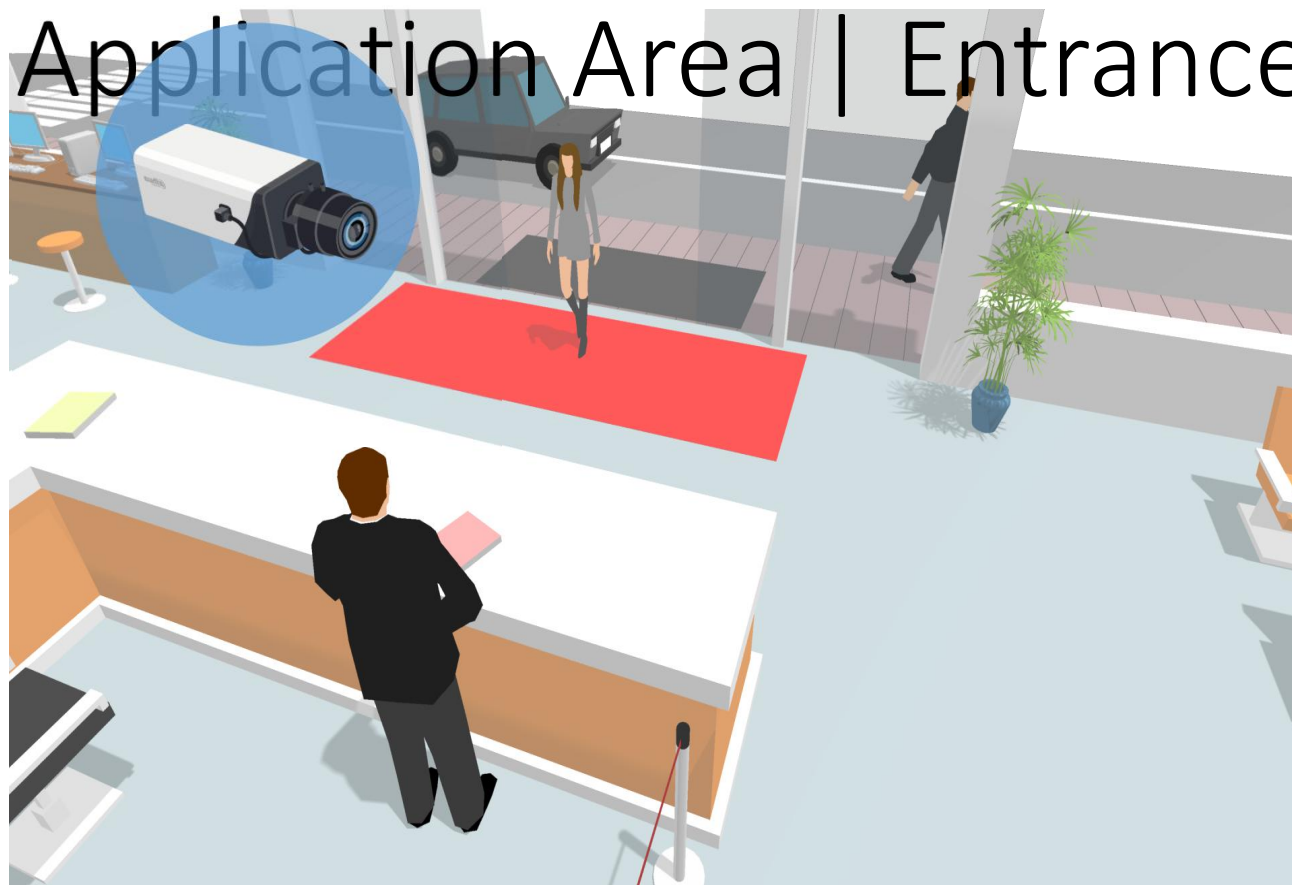
Application Area | Entrance



Lots of people go in and out and the sunlight contrast will be intense, a camera with true WDR and smart function is must-have.

- Super WDR camera
- VIP Recognition
- People Counting

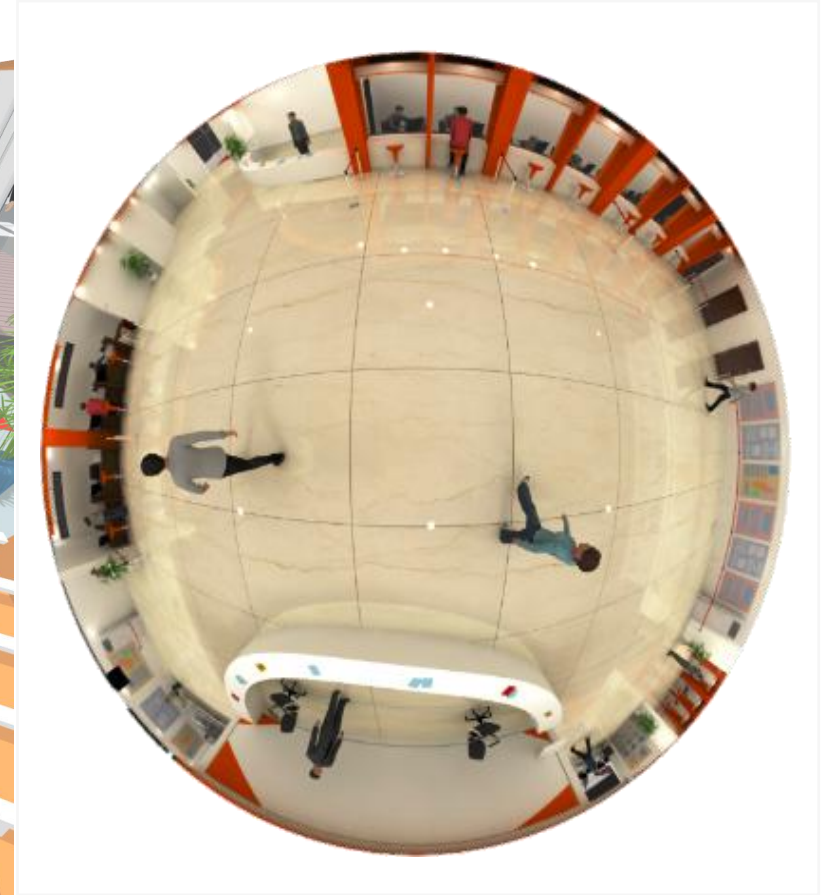
Application Area | Entrance



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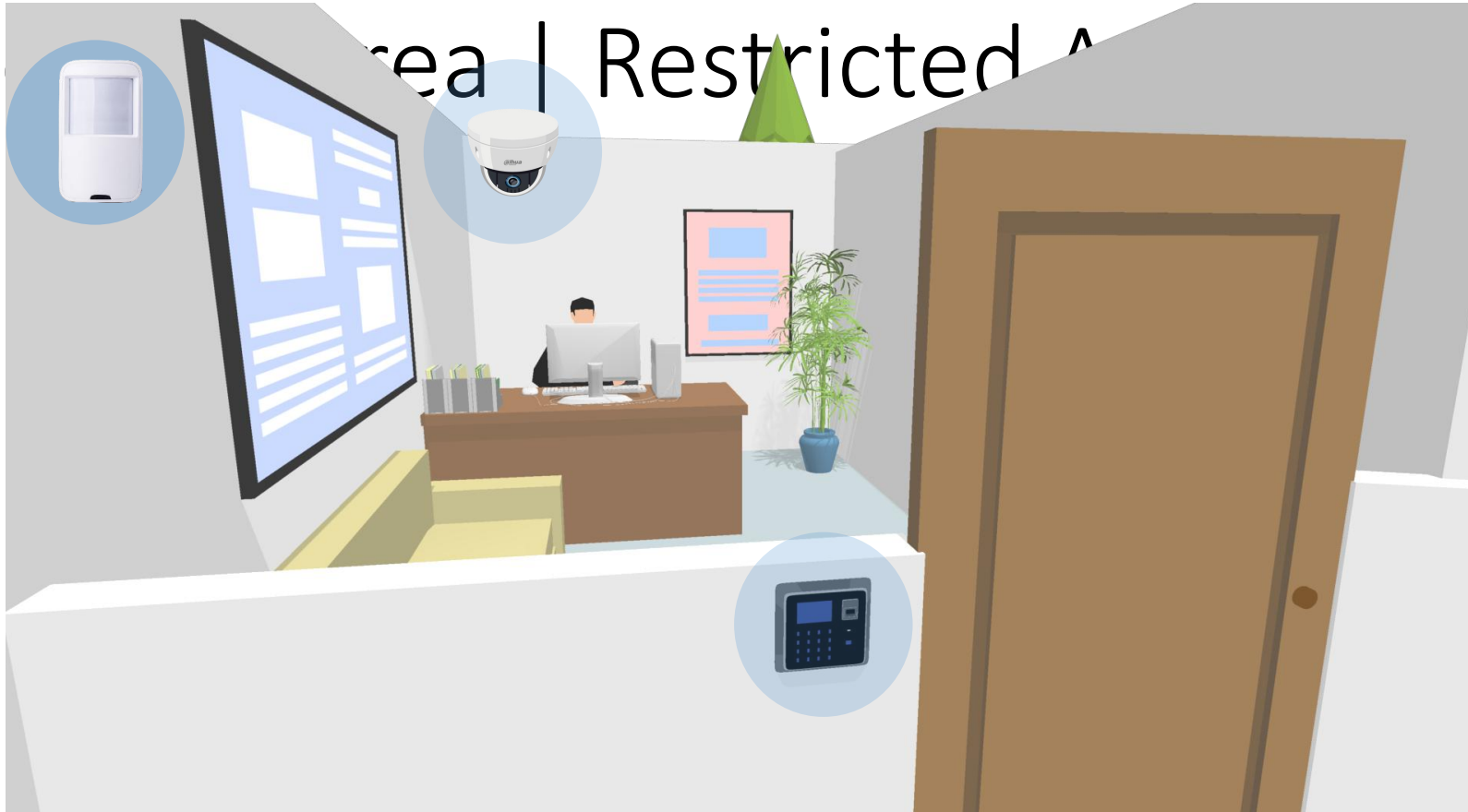
Application Area | Lobby



The lobby areas are the most frequently visited locations and require high detailed facial images and no blind spots.

- 4K ultra smart fisheye with 360 degree overview
- Ultra smart dome camera in four corners to supplement

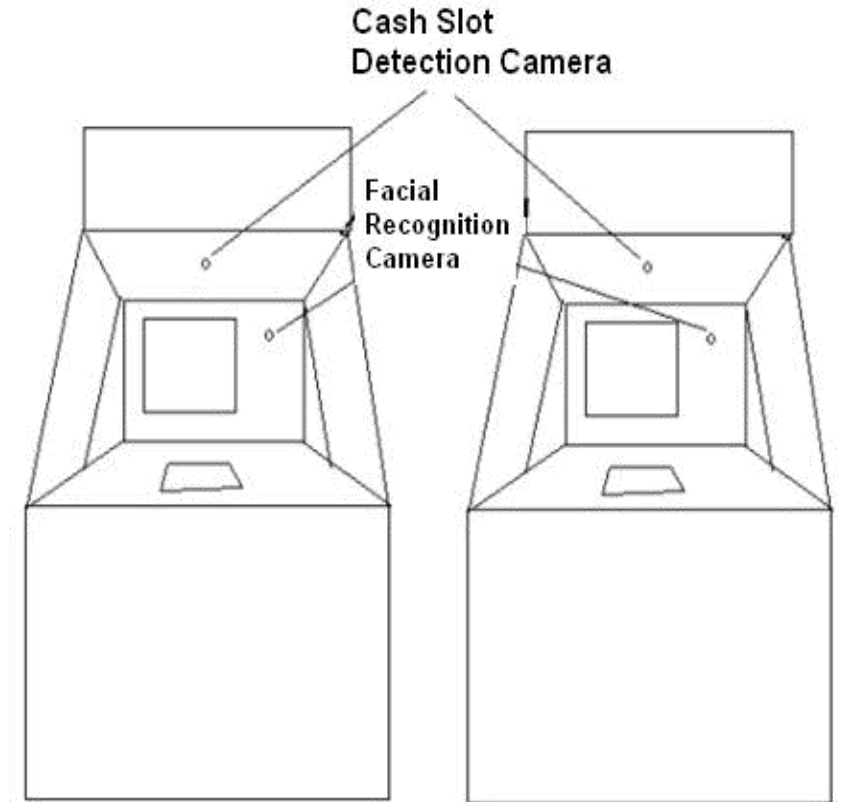
Application Area | Restricted Area



Restrict Areas need all-around surveillance to prevent illegal behavior.

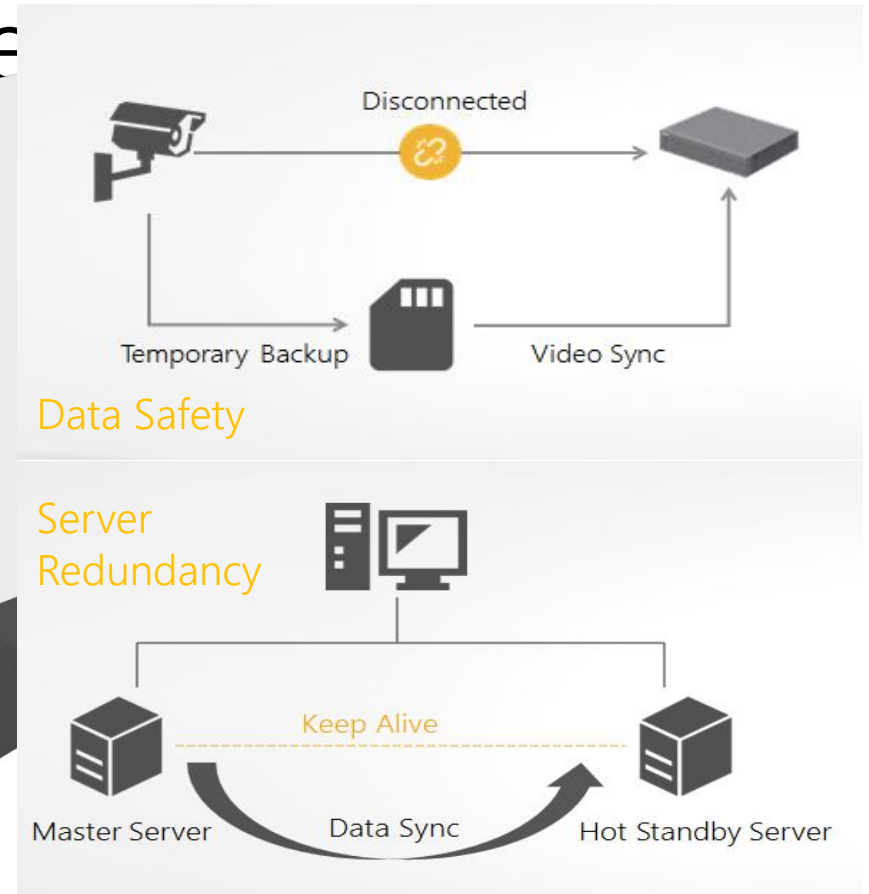
- Access control: Combined the controller function and reader function together, cost-effective.
- Intrusion Alarm: Detect motion within 12m (40 feet) and 90 degrees FOV.
- Video Monitoring: Linkage with the alarm from access control and intrusion detector.

Application Area | ATM



- As an important and vulnerable part, continuous monitoring around the clock is necessary.
- Discreet Cameras: Compact design, smart detection, high resolution and WDR give you the clearest images.
 - ATM CVR: dedicated DVR, with smart analysis function, such as face recognition, ATM protection, making you aware of possible crime or security breaches

Application Area | Security Center



VMS7016 Video Management Platform is the CCTV system core that controls all the daily operation among all devices.

- Data Safety: Auto Network Recovery and Raid & N+1 Failover
- High Reliability: Server Redundancy

Solution Topology



180 Degree Panoramic Camera

Entrance



Face Capture Camera

Lobby



360 Degree Fisheye

Counter



HD Camera Visual Intercom Panic Button

Switch

Switch

Switch

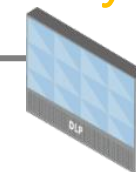
Restricted Areas



Alarm

Access Control Camera

Security Center



Video wall



Management Platform



NVR



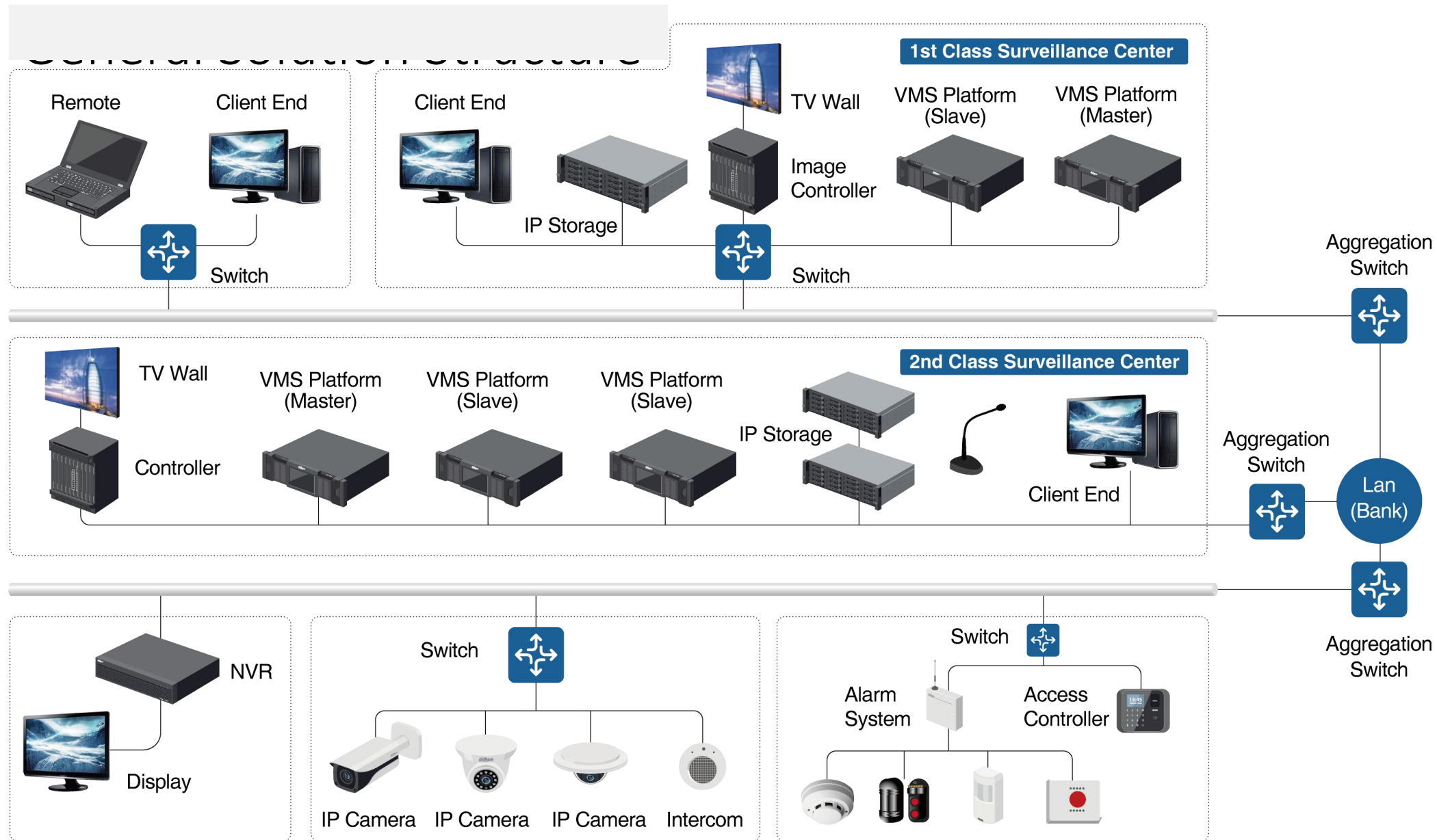
Storage



Controller



Client End



Part 3 Highlight



Video Phone System



Picture in picture, capture close-up facial image



Record audio and video simultaneously



Seamlessly integrated with bank counter business system



Network Video Recorder



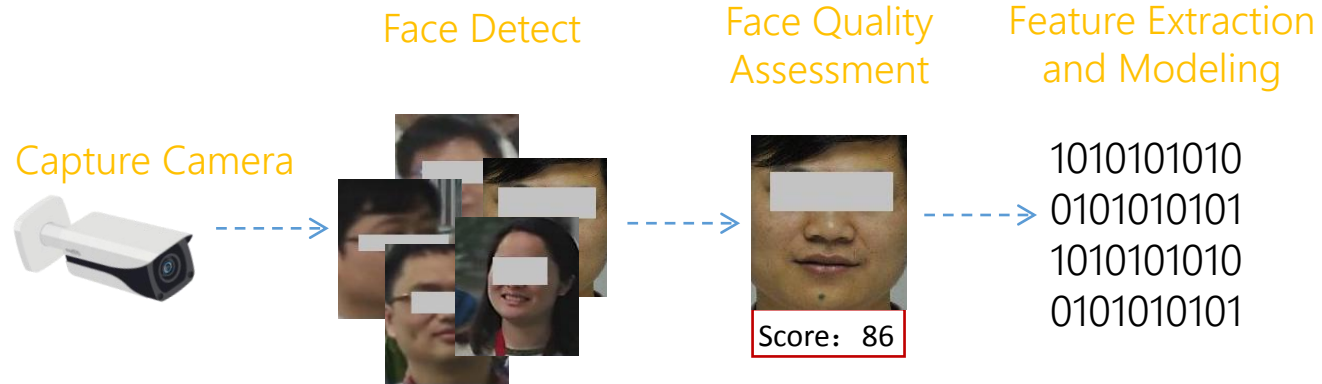
Voice and Video Recorder



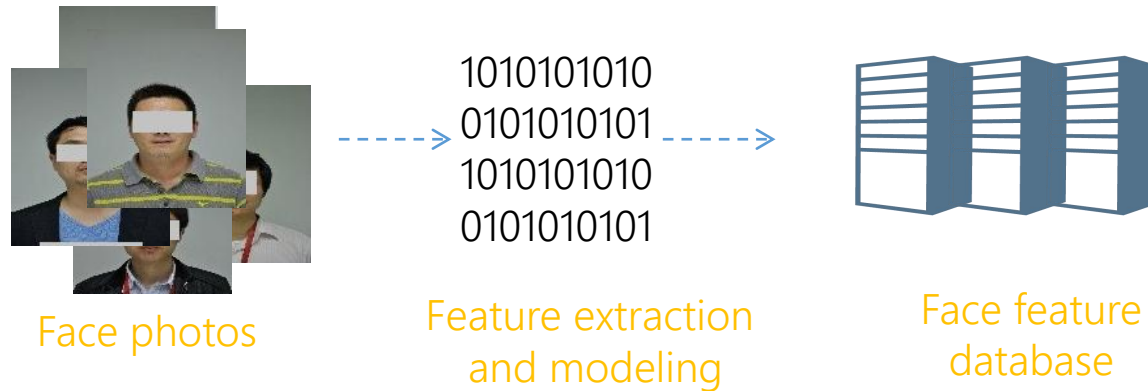
Windows Intercom Host

VIP Recognition

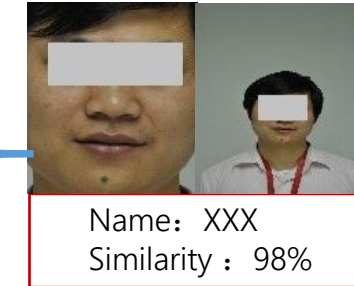
Face Collection



Face Register



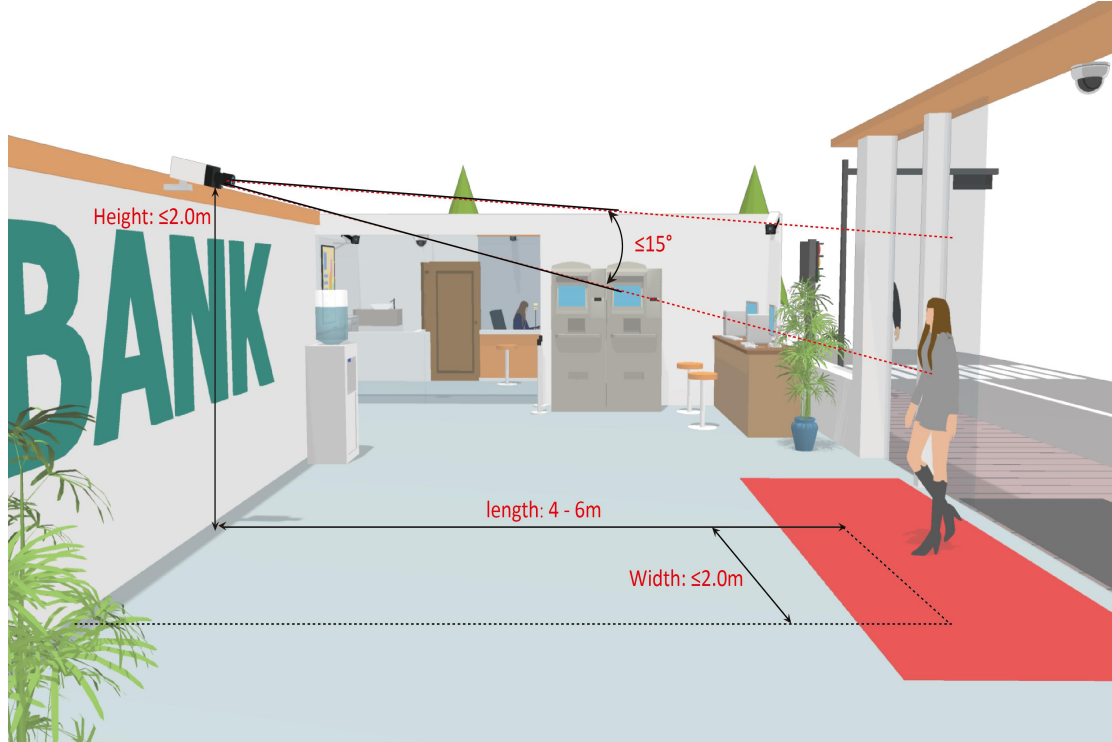
Face comparison



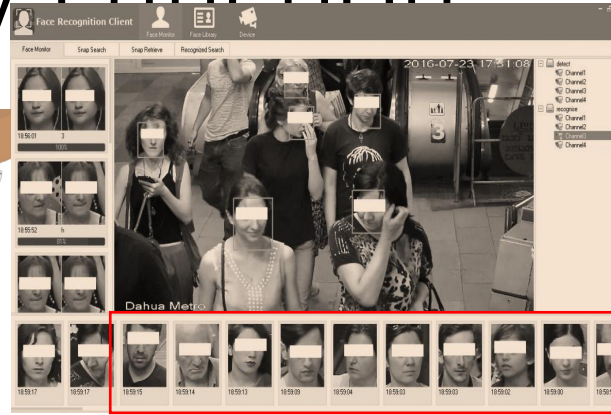
Comparison result

1: N
Feature
comparison

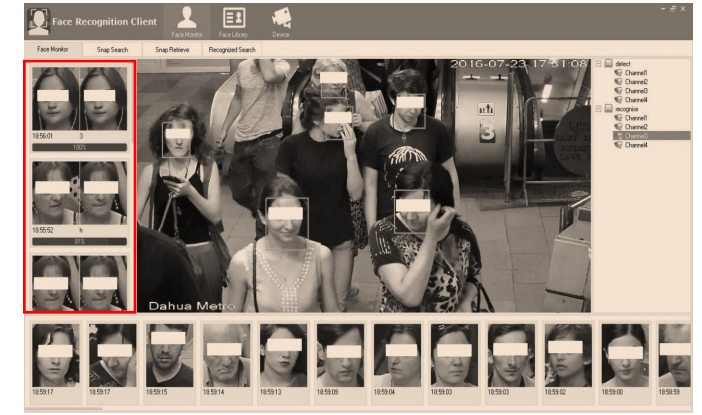
VIP Recognition | Key Function



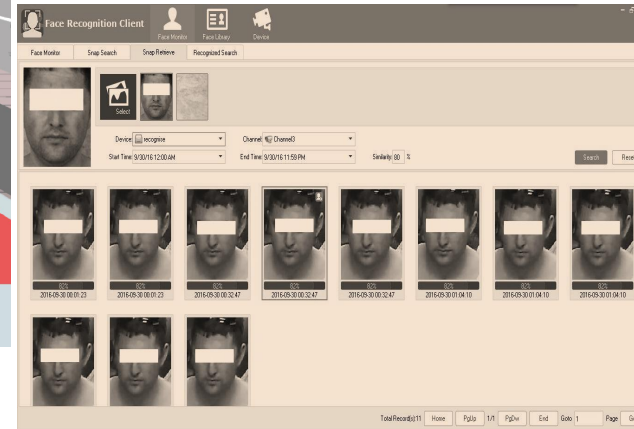
Camera Installation Requirements



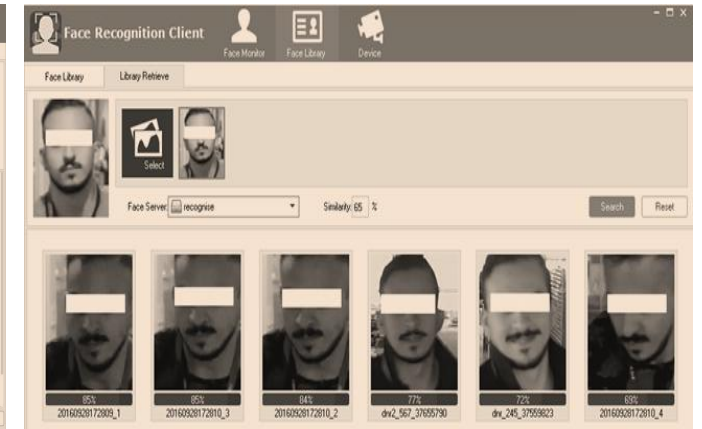
Face Capture



Face Comparison

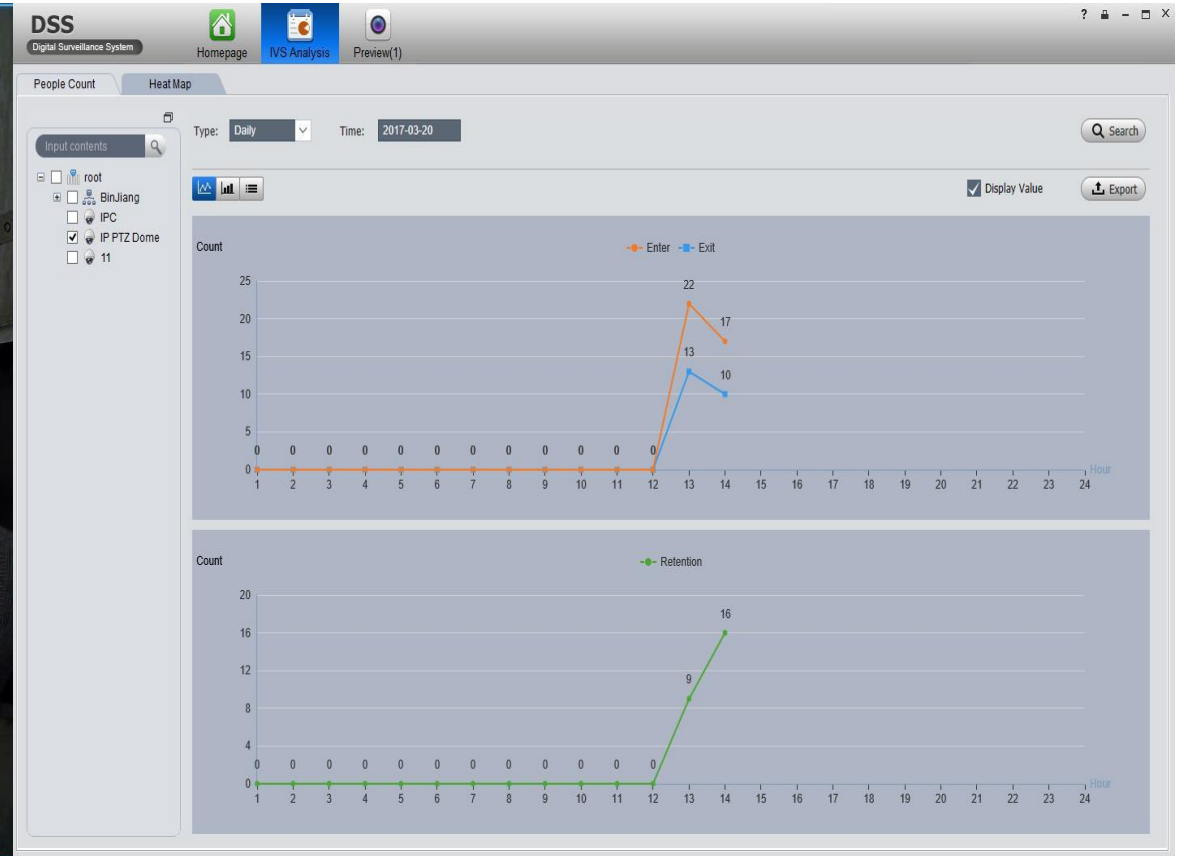


Snap Retrieve



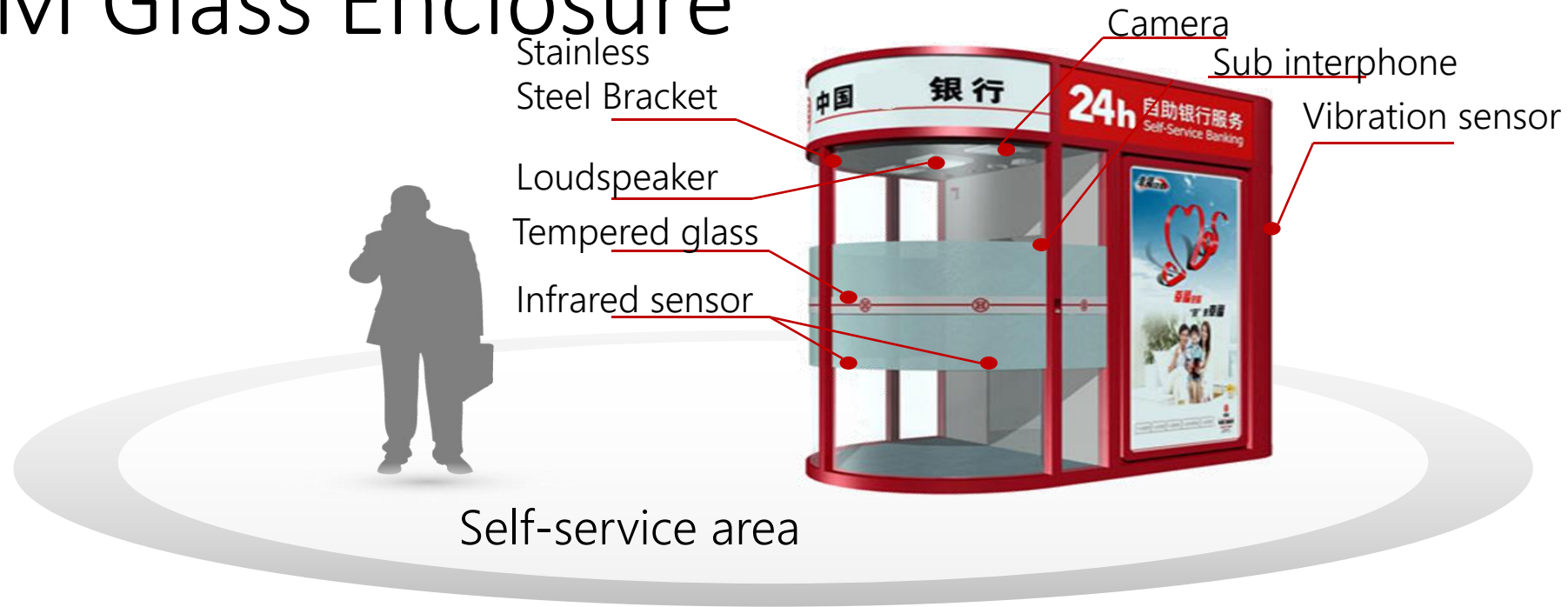
Library Search

Flow Statistics



Flow statistics determine traffic in the entrance, provide daily or monthly report for management team to make business analysis.

ATM Glass Enclosure



Security and Reliability

Anti-tail/Anti-peep
Personal fall detection



Intelligent Defense

Prevent detention
Prevent mistake trunk



Remote Control

Open and close the door,
ventilation, and light remotely

ATM | Intelligent Analysis



Intelligent Video Analysis

- Relying on our intelligent video analysis device, fraud and inappropriate behaviors can be detected immediately

Mouth Shelter



Strip Detection



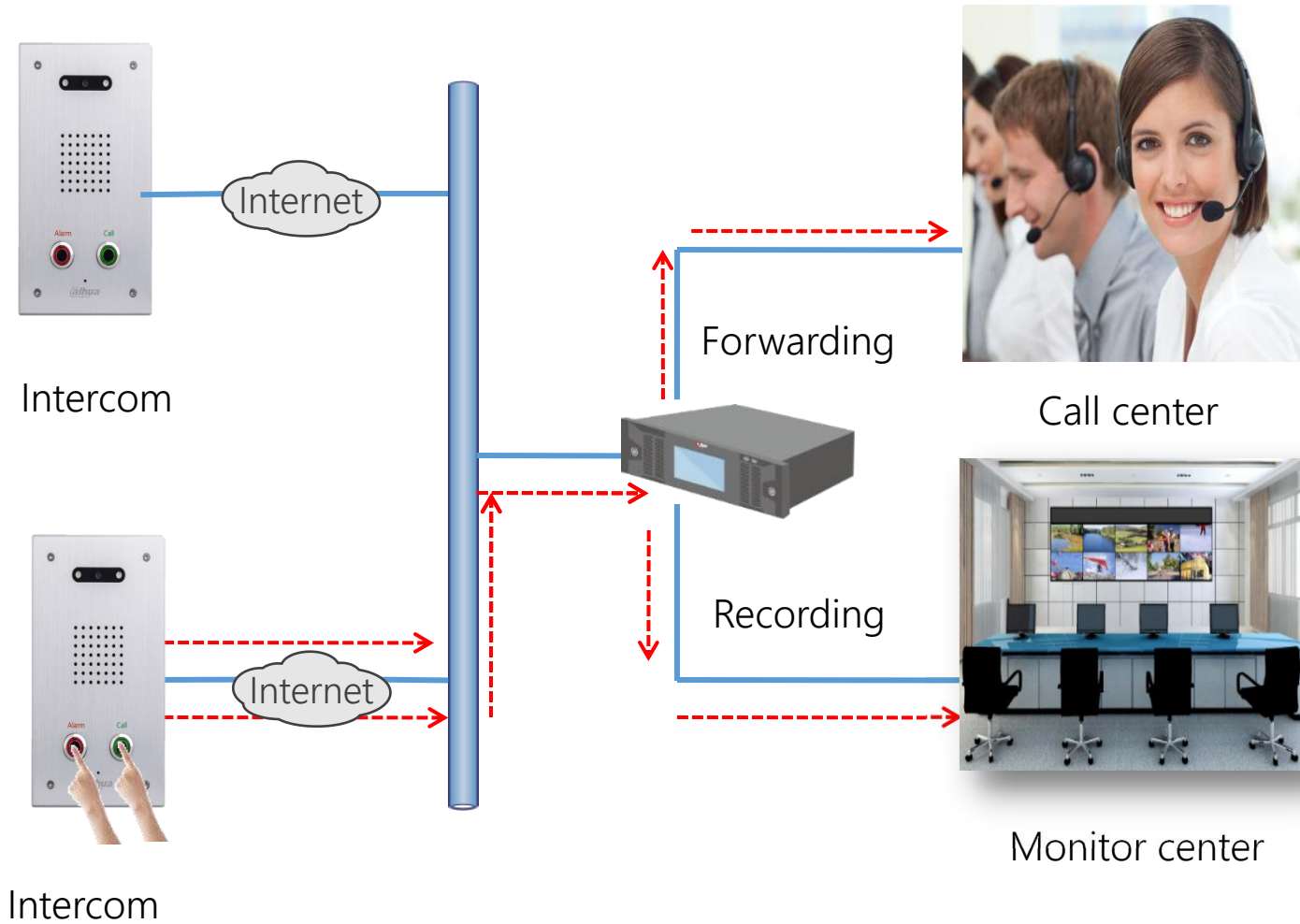
Intrusion Detection



Package Left



Intercom



Business Consult

- Provide client with operation guide and solve confusion about business

Emergent Call

- Deal with card swallow, machine fault and emergency

Integrated platform

Video Surveillance

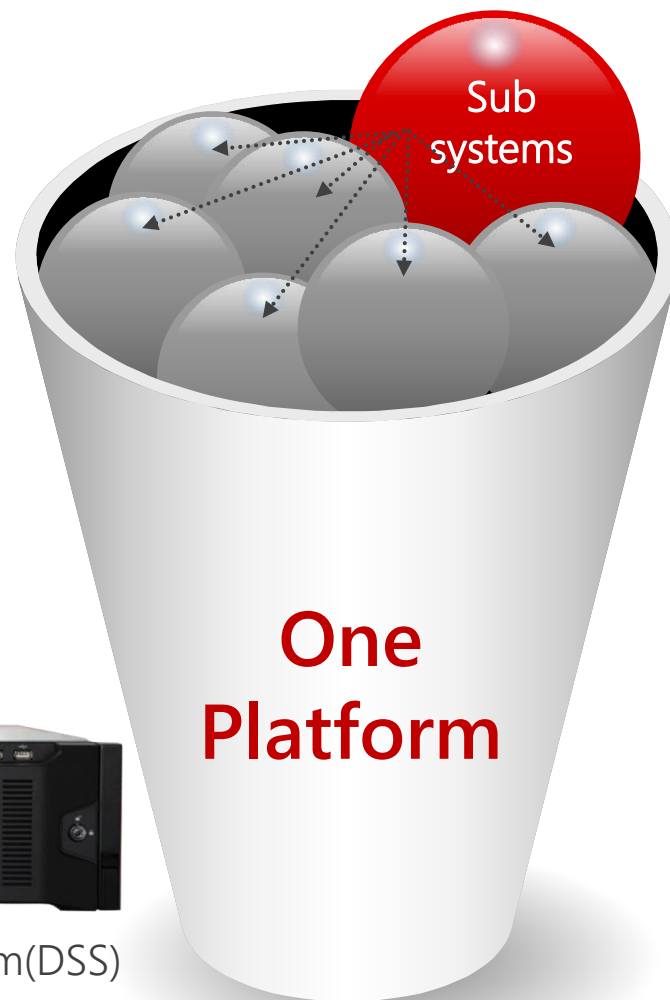
Alarm

Access Control

Intercom



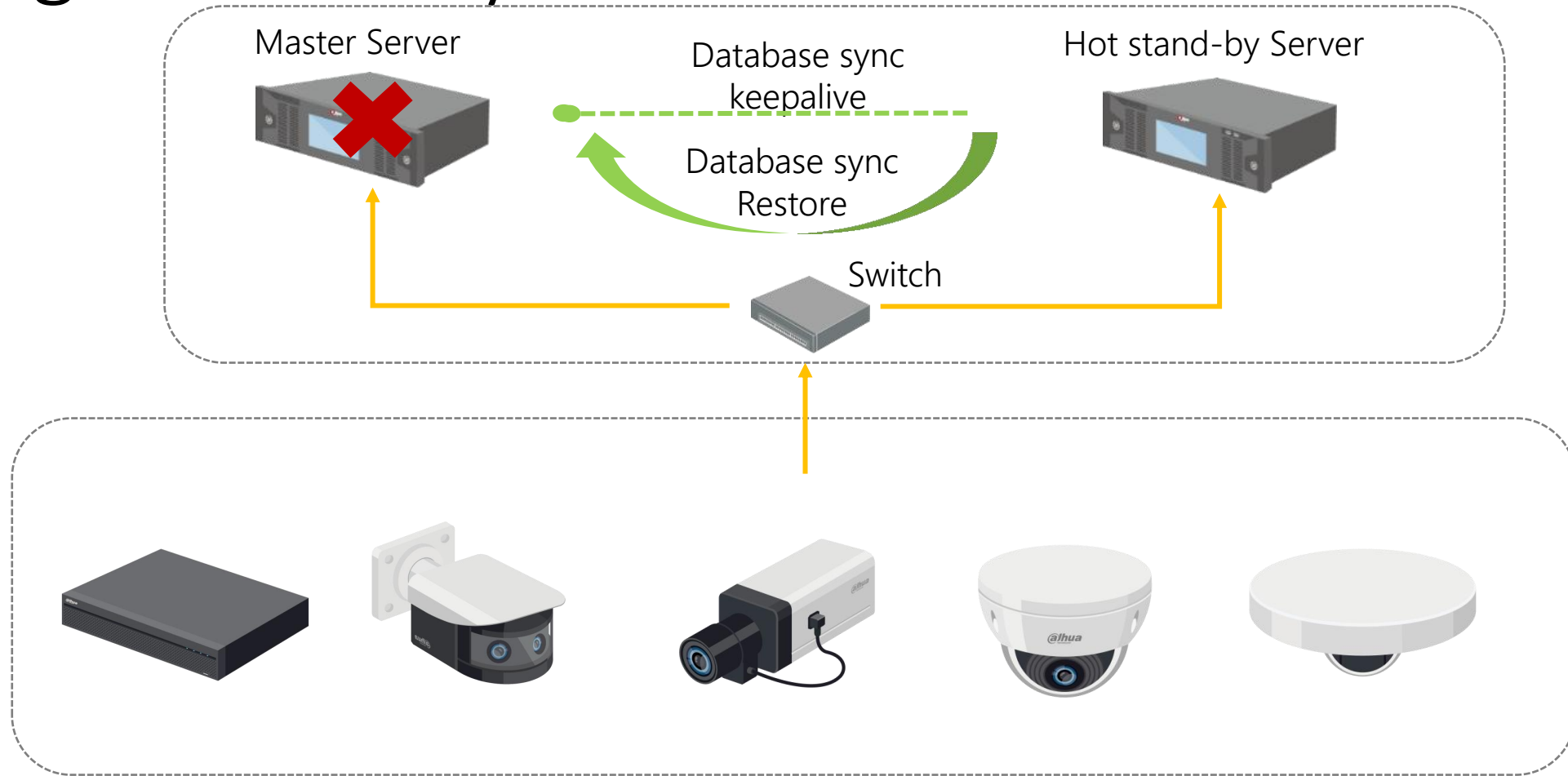
Digital Surveillance System(DSS)



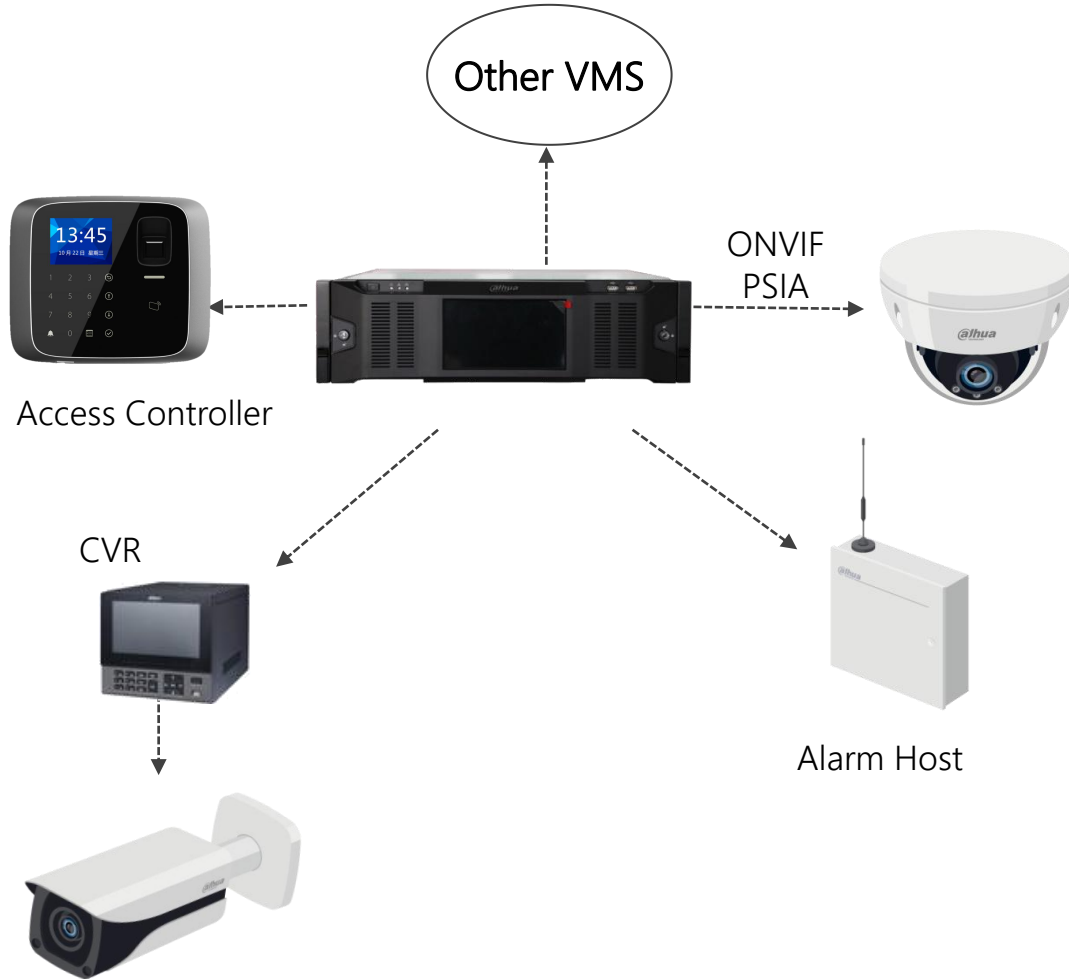
Advantage

- End-to-End system and device management
- Higher Efficiency of system interaction
- Lower cost of human resources and fewer time to master operation skills

High Reliability



Compatibility & Openness



Compatibility

- Seamlessly integrate with the existing system
- Compatible with third-party devices of mainstream manufacturer, such as surveillance, alarm, access control devices
- Support industry protocols: ONVIF

Openness

- Based on open architecture
- Support SDK for the purpose of integrating with third-party systems
- Adopt technology based on J2EE middleware for value-added services

Part 4 Lineup



Outdoor | Panoramic View



PFW8800-A180

- Four 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- H.265/H.264 triple-stream encoding
- Max 25fps@4096x1800
- Support 180-degree panoramic view
- Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Smart detection
- Intelligent Function
- Max. IR LEDs length 30m

Entrance | VIP Recognition



IPC-HF8231F

- 1/2.8" 2Megapixel progressive scan CMOS
- H.265&H.264 triple-stream encoding
- 50/60fps@1080P(1920×1080)
- Auto back focus(ABF)
- Micro SD memory, PoE



Sugon PowerEdge I210-G26

- Sugon PowerEdge I210-G26-Intel Xeon Processor E3-1276V3 3.6GHz 8M 4C*1
- 8G DDR3 ECC*1

Lobby | 360 Degree Fisheye



EBW8630

- 1/1.8"6Megapixel progressive scan STARVIS™ CMOS
- H.265/H.264 triple-stream encoding
- Max 25/30fps@6M(3072x2048)
- Multiple dewarped Mode
- Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Smart detection
- Intelligent Function
- Max. IR LEDs length 10m
- Micro SD memory, IP67, IK10, PoE

High Counter | Video Phone System



NVR608-32-4KS2

- Intel Processor
- Max 384Mbps Incoming Bandwidth
- Up to 12MP Resolution for Preview and Playback
- Smart Tracking and Intelligent Video



Voice and Video Recorder

- Embedded pinhole camera, pickup and speaker
- Resolution: 1920(H)X1080(V)
Lens: 3.6mm
- Ultra WDR,BLC
- Synchronous audio and video recordings



Windows Intercom Host

- Including audio jack, real-time intercom, synchronous record
- Easy to install, stable performance.
- Clear sound, adjustable volume

ATM | Intelligent Analysis



HCVR0804AH-VD-I

- Intel Processor
- Max 384Mbps Incoming Bandwidth
- Face Recognition/ATM Protection
- Scene Application



IPC-HUM8230

- 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- H.265&H.264 triple-stream encoding
- 25/30fps@1080P(1920×1080)
- Smart detection



VTT201

- HD CMOS camera
- Night vision
- Video & audio talk
- Remote monitor and broadcast

Security Center



DSS7016

- High-performance stream media transfer and storage capability
- Support local storage and IP-SAN storage
- Front panel can displays system service status
- Max support 2000 channels
- Support 10000 accounts management



DHL460UCM

- Industrial level DID LCD panel, suitable for extensive 7*24 continuous works.
- High fidelity digital processing and vivid video.
- Built-in 3D COMB filter and 3D Noise Reduction
- Brightness smart detection, power-saving
- Using Tamper-proof metal housing, no radiation

Part 5 Success Stories



Bank of China

End User:

Bank of China

is the oldest bank in China, which is the third largest bank all over the world. It owns 37 first level branch , 360 secondary branch and 13000 grassroots organizations.

Business Objective:

Deliver a comprehensive and integrated security system for Bank of CHINA

Solution:

- All the branches connect to the Headquarter of Bank of China by national network, the solution integrated video, alarm, access control, intercom, and other important large-screen display subsystem
- Using three cascaded architecture, consist of headquarter, branches and sub-branches, involving 360 monitoring and control Center, access to more than 1,200,000 channel video, more than 300,000 way alarm



Customer Benefits:

- Centralize the security aspects in headquarters of Bank of China
- Greatly increase both security levels and operational efficiency

Bank of the Province of Buenos Aires

End User:

Bank of the Province of Buenos Aires is a publicly owned Argentine bank operating 342 branches and is Argentina's second-largest by deposits and total assets.

Business Objective:

strive to safeguard its negotiable (Cash, Bonds, Etc.) and non-negotiable assets such as documents, equipment, furniture, and other assets, requiring the highest level of security.

Solution:

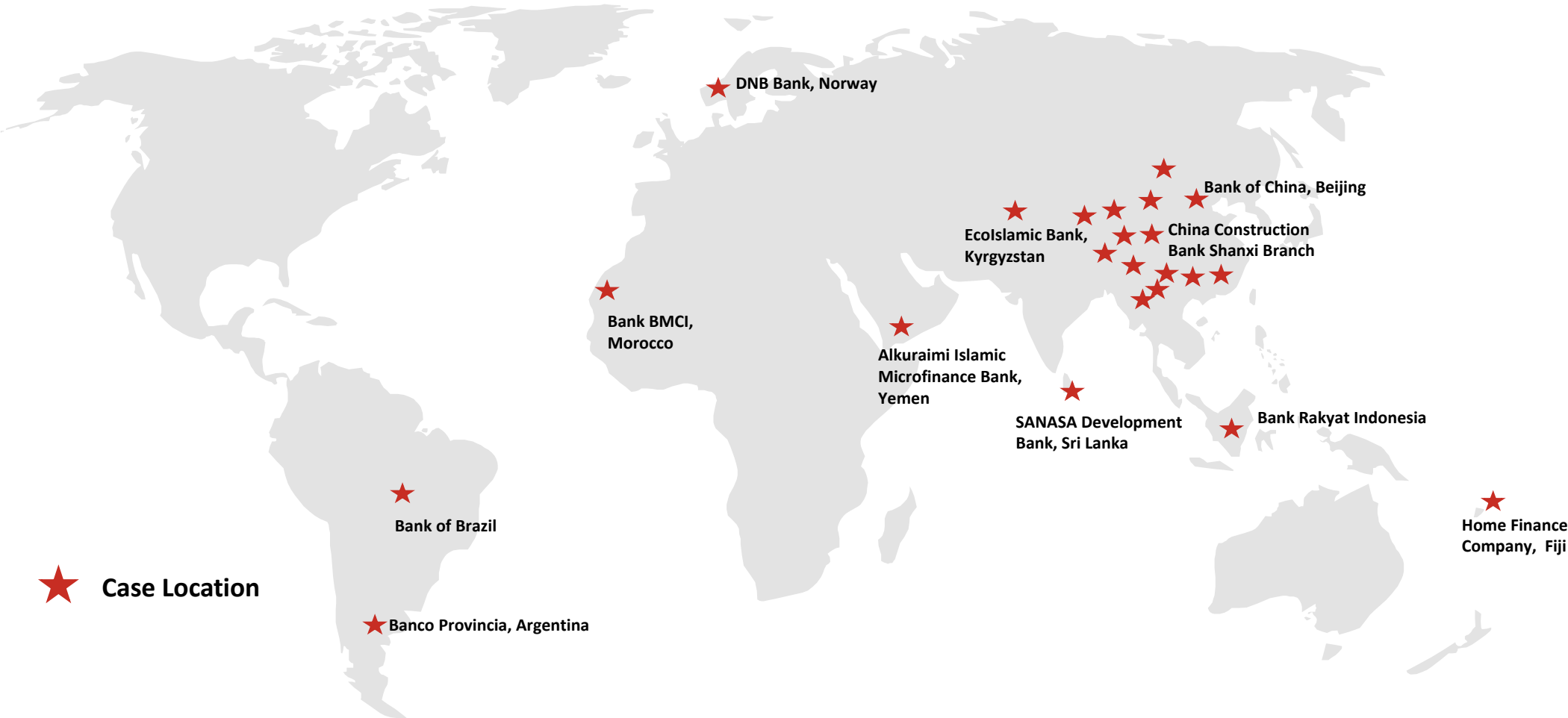
Dahua upgrade the whole monitoring system from the front-end to platform. Using PTZ and Analog Cameras feature with high resolution images, DVRS with high-quality live view. With intelligent functions, the solution is capable to monitor core areas of the branch offices, such as the lobby, desks, counter, ATM, etc.



Customer Benefits:

- Achieve a complete new and intelligent monitoring system.

Applications in Financial Industry



A low-angle, upward-looking photograph of several modern skyscrapers. The buildings are constructed with glass and steel, reflecting the sky. The perspective creates a sense of height and scale. The sky is a clear, vibrant blue with some light, wispy clouds. The text "Thank you" is centered in the middle of the image in a bold, yellow, sans-serif font.

Thank you