

# INTEGRATED SECURITY SOLUTION FOR BANKING & FINANCE

## -Security -Smart -End to End



#### Property Safety

Personal Safety • 4K UHD • Ultra Smart

- Behavior Analytics
- Smart Transaction Record



#### **Business Integration**

- Face Recognition
- Remote Inspection

#### Management Efficiency

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Customer Traffic StatisticsCentralized Management



### INDUSTRY CHALLENGES AND SOLUTION



• People counting

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• Centralized management platform

### SOLUTION OVERVIEW

- Data safety

#### Cash Transaction Area

Large volume of cash transaction, high-definition facial picture and recorded transaction information is necessary to avoid potential disputes.



### ATM

- Prevent security risks from robberies, muggings, ram raids
- Comprehensive monitoring
- Video footage



#### Lobby

Large areas with lots of customers, require high-definition and no blind spots video.





#### Security Center

• System stability and reliability • Abundant alarm mechanism





#### Outdoor

Complicate environment, rapidly changing sunlight conditions require high-definition, ultra wide angle, starlight technology.

#### Entrance

Clear facial image in sharp sunlight, VIP recognition improve customer's experience.

### **APPLICATION AREA**





• Multi-lens with 180 degree panoramic view



• No loss under no lux, outstanding visibility under the starlights.



• 4K real time monitoring, excellent image performance: Within 20 meters, clear face features and license plate numbers of the car can be observed.



Within 50 meters, the characteristics of the physical appearance of the person and the car can be detected.





#### Entrance



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



WDR Off

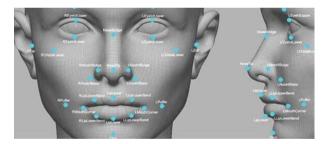
WDR On

• Super WDR Camera:

Dahua ultra smart series cameras can reach up to 140dB wide dynamic range for obtaining a crystal clear image quality even in high contrast sunshine environment.



• People Counting: People counting can show the people flow in the entrance, and export the daily or monthly report.



• Face Recognition: Recognize the VIP identity by arithmetic comparison of the unique features, greatly improves VIP customer experience.

Lobby

The lobby areas are the most visited locations that require high detailed facial images and no blind spots. • 4K ultra smart fisheye with 360 degree overview and high definition to get the best coverage





#### **Cash Transaction Area**

High volumes of financial transactions each day – from signing documents to approving loans – may leave institutions vulnerable to customer misunderstandings or disputes.



• 1+1 panic button The alarm can be triggered in time if there is an emergency • Using built-in pinhole camera, close-up face images captured by picture in picture function while transaction information overlays in the video to avoid disputes or misunderstandings from customer.



#### ATM Area



To ensure the property and personnel safety of customer and protect the asset, discreet vandal-proof pinhole cameras keep a watchful eye on ATMs, serve as a deterrent, and send automatic alerts when criminals attempt to steal or damage your property so that you can take immediate action.



• Intelligent face analysis, send automatic alarms if detect exceptional phenomenon.



 Anti-skimming, recognize ATM-skimming and detention time of the customer.



Security Center





VMS7016 video management platform is the CCTV system core that manages, views, plays back, and controls all the daily operations among all devices, the system works in master-slave mode and unified management of whole system resources.

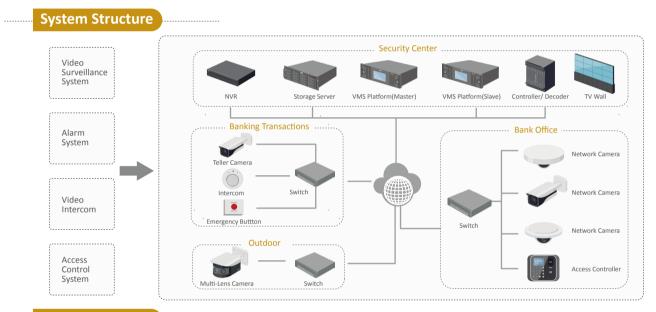
- Embedded NVR: Dahua has the richest embedded network recorder product line from 4 channels to 256 channels for every level of needs
- Network Storage: A must-have product line for total secure data storage
- Decoder: Abundant 4k resolution decoders provide connection to the TV wall
- Display: Dahua has a variety of display devices, from standalone monitors to large TV walls



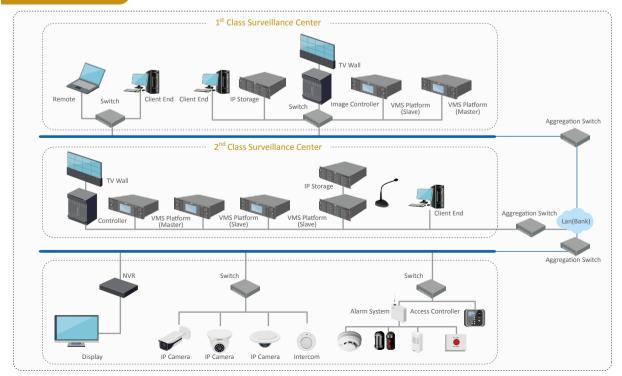
### SOLUTION STRUCTURE & TOPOLOGY

#### Highlights:

- High Definition: High resolution of 4K, improve image quality greatly.
- High Cost-Efficiency: Multi-function product, reuse the existing cable and easy to install, greatly save the investment.
- VIP Service: Through face recognition function, enhance the VIP customer experience.
- Flow Statics: Output flow traffic statistics in premises by period, provide decision-making basis for management.
- Integrated and Compatibility: End to end system, compatible with third-party system.
- Smart Transaction Record: Record the transaction information and clear facial picture, provide strong proof if disputes or misunderstandings from the customer.
- Queue Management: Measuring and analyzing queues so that you can open a new bank teller when required to decrease waiting times and improve customer satisfaction.



#### System Topology



### **KEY TECHNOLOGY**



#### H.265 = H.264 + ?

Dahua is the pioneer of H.265 implementation in surveillance industry. The adoption of H.265 can greatly reduce the transmission bandwidth and storage capacity while maintaining the same video image quality. The full adoption of H.265 can best protect your investment and be an important enabler for Ultra High Definition (4K) surveillance in a reasonable cost.

50% savings on storage/transmission

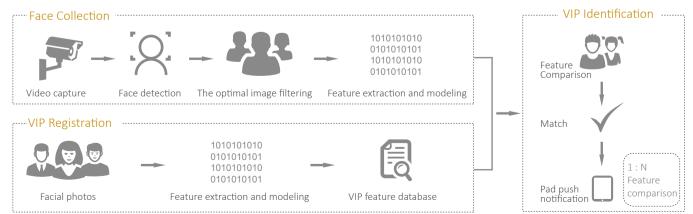
**Higher compression ratio** 



#### **VIP** Recognition

When the VIP customers arrive at the business hall, the account manager can be promptly notified and provide proper service, to improve VIP customers experience.

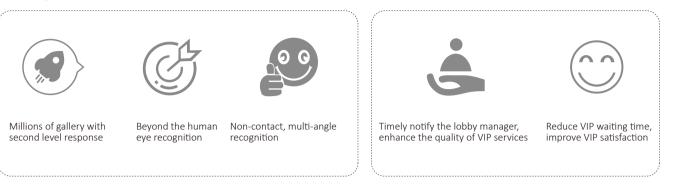
#### **Technology Principle:**





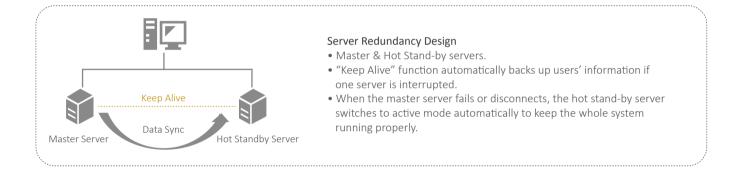
#### Advantage Analysis:

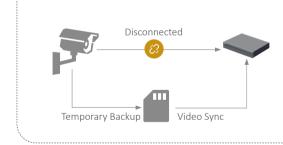
#### **Customer Value:**



#### Data Safety

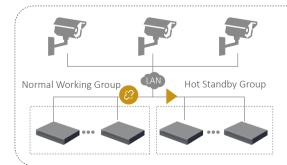
Data safety is paramount part in Bank, Dahua's data safety technology gurantees the data safety if there are some unexpected incidents, such as device break down, network connection fails and so on.





#### Auto Network Recovery(ANR)

- Auto backup if network connection fails.
- Data moves from SD card to back-end device while network connection is restored.
- We recommend using Dahua brand SD card.



#### N+M Hot Standby

- N master NVRs in running mode.
- M slave NVRs in standby mode.
- No data lost, when any active NVR is out of service, the hot standby NVR can take over recording automatically.

### **PRODUCT SHOWCASE**





### **PRODUCT SHOWCASE**



Redundant Power

### PRODUCT OVERVIEW

Product	Description	Outdoor	Entrance	Lobby	Counter	ATM area	Security Center
IPC-PFW8800-A180	Multi-Lens Panoramic Network IR Bullet Camera	٠					
IPC-HDBW5231E-Z	2MP WDR IR Dome Network Camera			•			
IPC-EBW8630	360° panomorph camera			٠			
IPC-HF5231E	2MP WDR Box Network Camera				٠		
IPC-HF8231F	Face Capture Camera		•				
IPC-HUM8231-E2	2x2MP Covert Pinhole Network Camera-Main Unit					•	
IPC-HDBW4830E-AS	8MP IR Mini-Dome Network Camera					•	
HCVR0804AH-VD-I	8 Channel 960H & IP 4HDD Hybrid ATM DVR					•	
NVR608-32-4KS2	32 Channel Ultra 4K H.265 Network Video Recorder						٠
DSS7016	General Surveillance Management Centre						٠
EVS5016S-R	16-HDD Enterprise Video Storage						٠
DHL460UTS-E	46" Full-HD Video Wall Display Unit (Ultra Narrow Bezel 3.5mm)						•



### SUCCESS CASE







#### Bank of China

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, Dahua solution using three cascaded architecture, consist of headquarter, branches and sub-branches, involving 360 monitoring and control center, access to more than 600,000 cameras, more than 300,000 alarm devices.

#### SANASA Development Bank, Sri Lanka

Dahua provided the bank with a cost-effective, customized, high-definition IP security solution, designed for stability and reliability. The new system includes surveillance cameras and DVRs, as well as intelligent security software. A number of different camera models were chosen to cover all areas of the bank, including offices, counters, and ATM.

#### Alkuraimi Islamic Microfinance Bank, Yemen

Dahua provided a high-end upgrade solution which includes cameras, storage devices and control management software, More than 97 branches that scattered around the country are applied with thousands of Dahua cameras and hundreds of NVRs.



#### Ecolslamic Bank, Kyrgyzstan

Dahua provided 150 units of network camera, 129 units of 800TVL analog camera, and 124 units of Hybrid DVR for EcoIslamic Bank. The hybrid DVR turned out to be a right solution on addressing problems of mixed systems where both analog and network cameras have been applied.





#### Bank of Brazil

Dahua upgrades the whole monitor system in the bank very successfully, the system is not only involves many cities in Brazil but also uses more than 20,000 units of analog camera and 1,500 units of DVR.

#### Bank BMCI, Morocco

Concerning that the bank has already covered with analog structure, Dahua offered a hybrid solution — megapixel cameras with higher image quality, easier management and hybrid DVRs.The solution selected megapixel HD network cameras for more than a thousand units as a total and three to four camera units with a hybrid DVR per branch. "With Dahua's good quality and services, BMCI is confident to handle with emergency and standardize the internal management," said Afaf Raid, the manager of Bank BMCI.

## **ENABLING A SAFER SOCIETY** AND SMARTER LIVING

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\* Design and specifications are subject to change without notice.



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