



# SUCCESS CASES







# Dahua Secures Heads of State in China's First G20 Summit



### **Background**

The G20 Summit is an annual meeting of leaders from 20 major economies to discuss global issues. In 2016, China hosted its first-ever G20 forum in the southeastern city of Hangzhou. Securing the leaders of multiple countries is no easy task, and would require many months of preparation by thousands of laborers in order to ensure the two day forum, transportation, and cultural activities ran smoothly.

Hangzhou is the capital and most populous city of Zhejiang Province, and has a population of 9 million.

Large population and vehicles are the greatest safety hazards the city faces.

## Challenges

The G20 World Summit was one of the largest security projects the country had ever faced, and extremely important to setting a precedent for future major events in China. 29 leaders including formal G20 members, the European Union, and invited guests, along with other high-ranking officials from all over the world required constant protection over a large area which included Hangzhou's Xiaoshan Airport and the roads leading to it, the main conference areas for the G20 and its sister conference, the B20, multiple hotels hosting country leaders, and the city's main tourist zone: the West Lake Scenic Area.

Dahua Technology assisted the Hangzhou government in constructing a large-scale, comprehensive security system consisting of over 20,000 devices. Cameras with 40x optical zoom and over 10km range covered large areas, while cameras with Automatic Number Plate Recognition (ANPR) technology scanned roads for dangerous vehicles. Over 500 PTZ cameras guarded critical routes from the airport to G20 and B20 conference areas. Thermal cameras provided unparalleled night vision support along with the ability to detect overheating equipment or fires. At train and subway stations, Face Recognition was employed to scan for known fugitives and verify tickets. Finally, all cameras were connected to a central cloud system which provided a real time assessment of traffic quality and threats through a traffic status cloud system and processed unstructured video data from cameras to analyze and generate thumbnails and descriptions for easy search and review. Suspicious targets were instantly tagged and tracked, and workers on the ground could be dispatched to keep tabs on the situation.







### **Benefits**

Pulling off a successful G20 Summit was achieved not through luck, but by a combination of over 20,000 devices connected by a unified cloud system and advanced technologies such as face and plate recognition, thermal imaging, and optical zoom. In addition to recording 29,823 traffic violations, Dahua cameras recognized and led to the capture of multiple fugitives attempting to traverse the city. The versatility of bullet, fisheye, and 40x zoom PTZ cameras employed in the security network ensured critical areas had no blind spots, and command center workers could easily direct those on the ground to quickly respond to suspicious behavior. Dahua helped keep world leaders secure in the midst of a prime chance for China to set a precedent for hosting major international government events and the pressure that it carried. This case proves the efficacy of Dahua products combined in city-scale projects, and is a perfect example for future Safe City solutions to follow.

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

Success Case-01, Jan 2018





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# Dahua Secures Mongolia City With Intelligent Traffic Solution

project with third-party integration"



### **Background**

Ulan Bator, the capital of Mongolia, which has 3 million people and more than 400,000 vehicles, is the most important transportation hub city in the country. Safe public road traffic is a local concern, especially in how to respond quickly to traffic accidents. In Ulan Bator, red light violation is a major factor in traffic tragedy. Every year, it accounts for about 21.5% of total traffic accidents. Dahua finished an entire intelligent traffic project in only three months from solution design to product provision to the completion of delivery. In all, the ANPR system covered 28 roads, E-police systems were installed at 8 intersections, and the solution also featured 2 mobile speed measuring systems and 15 high spot PTZ surveillance cameras, resulting in the simplification of traffic enforcement.

- No previous plate recognition.
- Lack of technical support.
- System must be cost-effective.
- Needed third-party integration.
- Cold environment: -40°C.





ANPR (Automatically Number Plate Recognition) systems were installed on 28 roads, monitoring and checking suspicious vehicles with the aim of reducing crime and vehicle thefts.





At 8 intersections, the E-police system took snapshots of violations. The system synchronizes the triggering signal to cameras when the signal detector detects red light signals. The Dahua all-in-one capture camera will take 3 images recorded of the violation, 1 image cutout of vehicle plate, status of the traffic signal, and plate number as violation evidence.





2 mobile speed measuring systems were provided for flexible deployment, able to catch speeding vehicles. At the same time, flexible devices helped police flexibly change monitoring locations for added convenience.

### **Benefits**

After the Mongolia project was completed, local transport authorities effectively ticketed vehicles through multi-angle monitoring. They began to earn a profit by the second year.

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

Success Case-02, Jan 2018









# Dahua Secures Peruvian LAN Airline Premises



# Background

LAN Airlines, one of the most important airline companies in Latin America, operates scheduled domestic and international services, controlling over seventy percent of the domestic Peruvian market.

The airline called on Dahua to provide surveillance for its office and airplane maintenance center, which play a vital role in keeping airplanes flying safely and ensuring 100% normal management and operation.

# **Challenges**

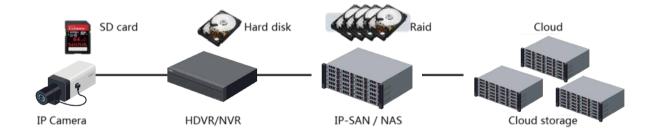
The project is located inside of Jorge Chávez International Airport, meaning neither too many cables nor wireless antennas were allowed because of the risk of electronic jamming.

The Dahua team employed a hybrid solution: A combination of AP (access points) and wire transmission to wirelessly transmit camera data to sub-centers, and then transmit to the control room by cable.

The "AP mode" wireless video transmission system allows 3km to 5km long-distance fast transmission with a wide range.



Hundreds of network cameras and over fifteen 16-channel PoE NVRs were adopted. Each NVR has 384Mbps incoming bandwidth, rendering smooth HD real-time preview and recording. The NVR accommodates up to 16TB with 4 SATAs supported, ensuring large volume 24/7 storage.



#### **Benefits**

"Actually, we have many bidders and the final reason that drives us to cooperate with Dahua is their outstanding product quality and service. We can see their professionalism in video surveillance and plus their sincerity makes us moved during the communication," said Luis A. Gómez Cornejo, Supervisor of Electronic Security at LAN Peru. "The implementation went great, they deployed the system within quite a short time and the products are in very good performance."

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

Success Case-04, Jan 2018









# Dahua Secures Mexico Public Bus



### **Background**

Guadalajara, the most famous city in western Mexico, witnesses frequent robberies on buses. It's difficult for police to arrest criminals, bringing serious security risks.

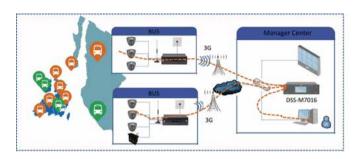
Dahua provided a complete solution for video surveillance management, video storage management, vehicle location tracking, GPS positioning, and emergency alarm and ticket counting to improve crime prevention capabilities and income generation.

- Frequent robberies on buses. Difficult to arrest criminals, bringing serious security risks.

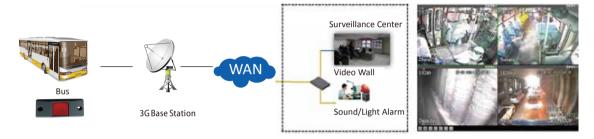
  Each bus was equipped with video surveillance and storage, providing strong evidence for the capture of criminals.
- Sudden passing by other vehicles left buses with no time to react and avoid, resulting in multiple traffic accidents.

  Each bus was equipped with alarm equipment and advance obstacle detection to prevent accidents.
- Driver fees and fare evasion bring huge losses in revenue.
   Fare printer integration and daily automatic fare amount statistical reports prevent fare fraud.

### Complete bus design



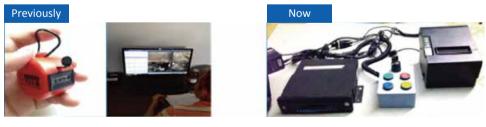
### Mobile alarm design



### Terminal center design

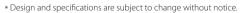


### Automatic Counting System design



Manual Counting

**Automatic Counting** 

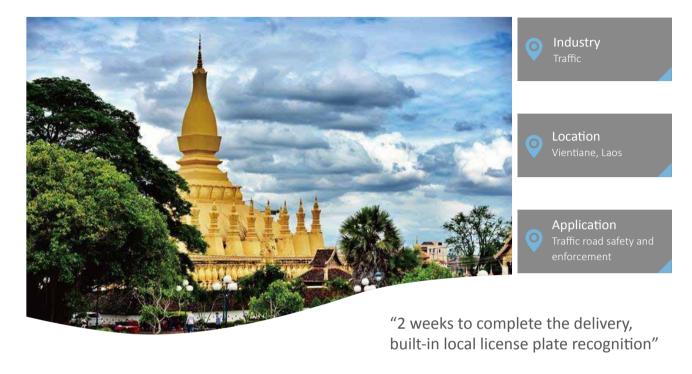




Success Case-05, Jan 2018



# Dahua Secures the 28th and 29th ASEAN Sumit



### **Background**

On September 6, 2016, the 28th and 29th ASEAN Summit was held in Vientiane, Laos, attracting worldwide media attention. As one of the top political events, the ASEAN Summit shouldered the management of city security and emergency handling. On September 5th, the leaders of ASEAN countries arrived in Laos.

Laos continued handing more than its urban monitoring system could by using more than 10 cameras. The problem was that this equipment did not survive very long due to the equatorial climate—high humidity, intense heat, and heavy rains- causing great security risks.

# **Challenges**

### • Replace old solution

Vientiane old solution: One digital camera and an analog camera per lane to achieve video surveillance and picture capture. Need to install extra lamps on another pole because of poor performance.

#### • Two weeks to acceptance

Devices arrived in Laos one month before summit convened. It should have been impossible to complete replacement and camera installation.

### • Intelligently recognizes irregular license plates

The biggest difficulty of Laos license plates: Contains local characters.



#### **Five Check Pinot Devices**

Dahua ITS features advanced products, complete solutions, and intelligent license plate recognition algorithms, which strictly prevented dangerous vehicles from entering the city through real-time monitoring.



### One Central E-police System

Vientiane center—— Arc de Triumphed, which was also the center of the summit, deployed an E-police solution with high capture rate and 24-hour continuous monitoring to ensure safety and smooth flow of main roads.

### **Benefits**

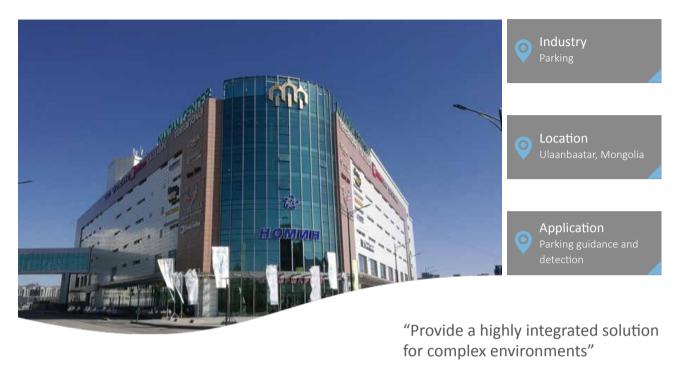
This is the first time Dahua ITS entered the Laos market. The local government acknowledged the solution's perfection and advanced equipment, allowing it to achieve great influence. "There has been a familiar figure- Dahua ITS capture cameras fixed above important areas around the airport, adding security for leaders as they are escorted, commented Laos News outlets.







# Dahua Secures Mongolia Parking Lot



### **Background**

Since 2012, Ulaanbaatar, the capital of Mongolia, has seen an increase in vehicles following the improvement of the national economy. This has led to a demand for vehicle control. As early as 2015, the Dahua Intelligent Traffic team successfully established vehicle checkpoints and e-police points in Ulaanbaatar, helping to ease road network traffic. This year, the traffic team drove into the indoor parking market, successfully helping Naadam Center to complete a 100+ camera project, and the customer was satisfied.

- Local license plates are complex and include non-Latin characters, causing less-than-ideal recognition rates for other manufacturers' products. Dahua successfully achieved a >95% recognition rate.
- Different types of customers (registered customers, VIP customers, and ordinary customers)- need to take three different payment methods.
- As a commercial building, Naadam Center has a complex environment. Thus it requires a highly integrated solution including LPR, entrance & exit control, indoor guidance, manual payment, and other subsystems.

#### Outdoor Entrance — Advanced info screen notices

Floor istribution:

B1: Parking lot (including Entrance & Exit A)

F1: Supermarket and restaurant (including Entrance & Exit B)

F2: Supermarket and restaurant

F3: Parking lot

F4: Parking lot

F5: Parking lot

F6: Gym and parking lot

Both entrance A and B have 2 info screens, informing customers of remaining parking spaces and payment information.

#### Entrance & Exit — Camera linked with barrier & manual payment management

B1 entrance &Exit A leads to B1 parking lot

F1 entrance &Exit B leads to F3-F6 parking lot

Uses "loop detector trigger camera capture" + "IVS back-end LPR" solution to achieve "99.9% vehicle capture rate" + ">95% vehicle recognition rate "The LED displays vehicle plate and payment information at the same time. After payment, the control barrier will open.

### Indoor Parking IoT — Spot detection camera and guidance screen collaborate

The guidance screen shows the number of remaining parking spaces in various directions;

The color of the indicator lights on spot detection cameras show whether the parking space is empty or occupied.

These devices help customers quickly find an empty parking space.

#### Payment System

- Effective platform management

Manual payment client

Visual parking management client





### **Benefits**

As the first Dahua Parking Solution project in Mongolia, both the solution preciseness and technical support received positive customer feedback. They plan to include the Dahua vehicle reverse search system, which will make finding cars in the parking much more convenient.

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

Success Case-07, Jan 2018









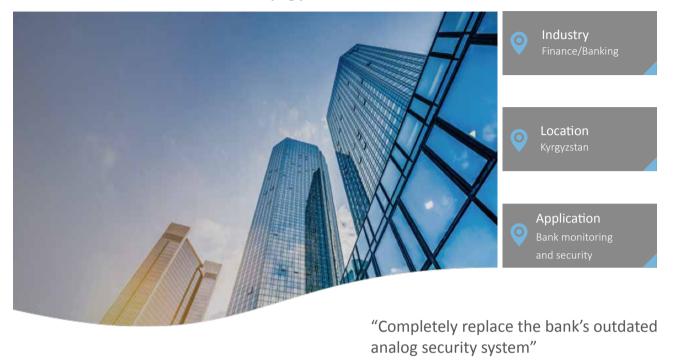








# Dahua Secures Kyrgyzstan Bank



### **Background**

Re-registered in the Ministry of Justice of the Kyrgyz Republic under the new name, "Ecolslamic Bank" in 1998, the bank's core business operations involve commercial banking, including corporate banking, personal banking, and financial markets services.

With expanding business and increasing security concerns, EcoIslamic Bank required a high-level security system. Therefore, the bank decided to upgrade its outdated CCTV system monitoring the hallways, lobby, office area, and vault.

Dahua's hybrid solution thoroughly fulfilled the bank's needs, consolidating its security system with modern surveillance technology.

- Install high-definition network cameras to take advantage of the vast improvements in camera image quality over recent years.
- Video must be stored on back-end devices for at least one month.
- Completely revamp the bank's outdated analog system, which covers a large area inside of the bank.

Dahua provided 150 network cameras, 129 analog cameras, and 124 hybrid DVRs for the Ecolslamic Bank, composing a hybrid solution.



HD network cameras were installed to deliver a high quality image in areas with variable lighting due to their Wide Dynamic Range (WDR) functionality. WDR eliminates silhouetting effects caused by bright sunlight streaming in through a large window, ensuring that all parts of the bank's interior are clearly visible.

IR bullet analog cameras were placed at the bank's corners, enabling high definition video and durable operation in a wide range of weather conditions.

Hybrid DVRs addressed the problem of having a mixed system with both analog and network cameras. The Hybrid DVR series is compatible with network cameras from multiple brands, which fits in perfectly with the bank's current surveillance situation, while also allowing smooth real-time encoding and playback. The security system can be seamlessly operated locally or remotely via Smart PSS or the network.

### **Benefits**

Dahua's hybrid video surveillance solution not only improved EcoIslamic Bank security, but also saved costs. Building on this success, Dahua has proven its capabilities in offering a wide product portfolio to meet the needs of different applications.



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# **Dahua Secures UK Gas Station**



### **Background**

As the number of vehicles on urban roads continues to increase, gas stations have become an indispensable component of cities. Gas stations face a number of unique challenges in ensuring smooth operation, such as a complicated business process and the safe management of fuels, which are flammable and can be explosive. The safety of the entire process is a huge challenge for security technology companies.

preventing these dangers from happening."

Shell and BP are multinational oil and gas companies with petrol stations situated across the United Kingdom. Dahua was tasked with upgrading the outdated analog systems of Shell and BP stations to IP systems.

- Upgrade existing outdated analog systems to IP systems.
- Integrate with Samsung NVRs across multiple sites.
- Provide a superior CCTV system with motorized zoom cameras at a reasonable cost.
- 24/7 real-time indoor & outdoor surveillance.

A combination of Dahua motorized zoom dome and bullet cameras were used throughout the Shell and BP sites, providing a wide angle of view to ensure safe driving habits and collect evidence in the event of accidents.

In the store area, eyeball fixed lens cameras played an important role in bringing about overall coverage. The cameras provided 24/7 surveillance and effectively collected high-quality video data.

The system provided by Dahua integrated with Samsung NVRs across multiple sites. The control center supported real-time monitoring and playback, thereby preventing the occurrence of all kinds of dangers.





### **Benefits**

By successfully upgrading their gas station security systems, BP and Shell were able to reduce costs while deterring undesired behaviors by staff and customers, thus ensuring the safety of daily operations.

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

Success Case-13, Jan 2018



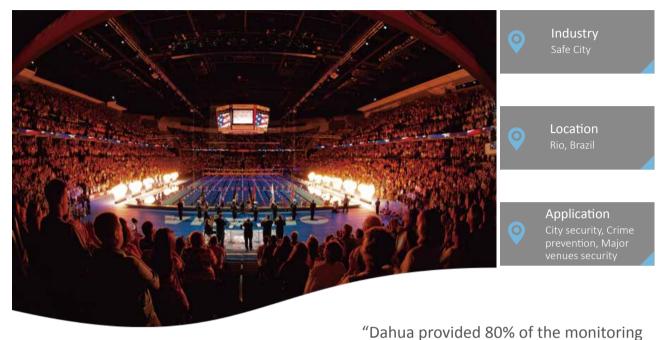


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# Dahua Secures 2016 Rio Summer Olympics



# Background

The 2016 Summer Olympics were held in Rio de Janeiro, Brazil, from August 5th- 21st, 2016. This major international sporting event featured more than 11,000 athletes from 205 National Olympic Committees. To ensure a secure environment for an event of this scale, Rio de Janeiro officials sought a comprehensive video surveillance solution to monitor areas inside and around the Olympic Park in Rio de Janeiro: Copacabana, Maracanã, Deodoro, and Barra da Tijuca. Other venues that required monitoring included the Olympic Stadium, Sambódromo, Maracanãzinho Olympic Center BMX, Beach Volleyball Arena, Olympic Village, and the Paralympic Games, as well as the surrounding roads exclusively used by officials, athletes, and official press.

devices used to secure the Rio Olympics."

The Olympics security project required cameras that could produce high definition (HD) images and were capable of supporting intelligent video analytics- the key aspect when monitoring events with high foot traffic.

- Construct an advanced CCTV system able to capture high-definition images and cameras with embedded smart features that send alarms to the central monitoring station when intruder events (such as entry into prohibited areas, and abandoned objects) are detected.
- Cameras must support multi-channel streaming and recording that presents a high resolution live stream to operators, while recording in a smaller format to use less storage and save on costs.

Rio de Janeiro government officials selected Dahua Technology to provide a full-scale solution for the Olympics areas because its proposal fulfilled all bidding requirements and offered the best solution with the highest performance.





Dahua provided 1823 high-resolution IP, dome, and 30x optical zoom pan-tilt-zoom (PTZ) cameras for the project. The cameras were installed in strategic locations where security personnel could observe the Olympic complex and its surrounding environment. The video feed was transmitted through a private network to central monitoring stations inside the Olympic Park and the Rio de Janeiro Operations Center, where suspicious people and objects could clearly be identified, safeguarding athletes and visitors. The solution assisted authorities in identifying medical emergencies, vandalism, and other situations where a response team was required.

The video surveillance system was designed to capture high quality HD images. Cameras came embedded with smart functions, such as sending an alarm to the monitoring center upon detection of abandoned or missing objects, unauthorized entry into a prohibited area, and other defined activities. The cameras also supported multi-channel streaming, allowing images to be recorded and monitored in real-time high resolution, thus presenting an optimal live monitoring and playback experience.

### **Benefits**

"Dahua Technology products were amazing during the entire operation. Their image quality is much better when compared to other brands," said Rio de Janeiro City Hall Security Officer Thompson Peixoto. "We look forward to other opportunities to cooperate with Dahua in the future."

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

Success Case-10, Jan 2018







# Dahua Secures Italy Public Bus System









"Customized features such as emergency buttons and gravity sensors have enabled instant alarms, keeping buses safe"

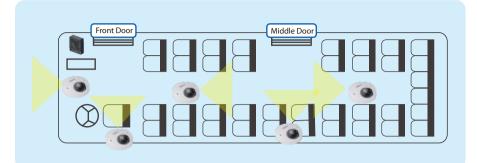
### **Background**

Trieste is located in northeastern Italy which is famous for its border port city. Influenced by its open regional environment, robbery and theft have become serious problems in the region. As the most important mode of transportation in Trieste, buses are widely used, and the city runs up to 60 major routes. Ensuring the safety of the bus system's operations and management has become the focus of local attention.

As a world-renowned tourist city, Trieste's buses are also an important city landmark, and affect the overall city image, meaning that managers of the bus system need to ensure drivers engage in safe and civilized driving habits.

The Dahua Bus Solution effectively tackled both of these difficulties effectively and helped to create a safer public bus environment.

- Provide customized features for emergency buttons and gravity sensors, enabling instant alarms.
- Carry out customized procedural tests within three days upon receiving the client's requirements.
- Full-coverage internal bus monitoring without blind spots.
- Provide support for bus GPS positioning, long-distance wireless transmission, and command center platform for unified management.







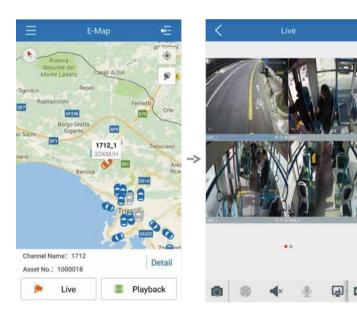




Each bus was fitted with 5-8 IP cameras located on the interior and exterior. The cameras provide a wider angle of view for safer driving, and can easily collect evidence when accidents occur.

Buses can wirelessly send images and video to the control center.

At the same time, E-map technology allows managers to intuitively view the location of each bus. It also supports real-time preview and playback



# **Benefits**

As a result of these improvements, the security of local buses and riders has significantly increased. In addition, the number of robberies has also been reduced to a certain degree. It is now much easier to regulate driver behavior and bus routes.

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

Success Case-11, Jan 2018











# Dahua Secures Serbia Intersection



Background

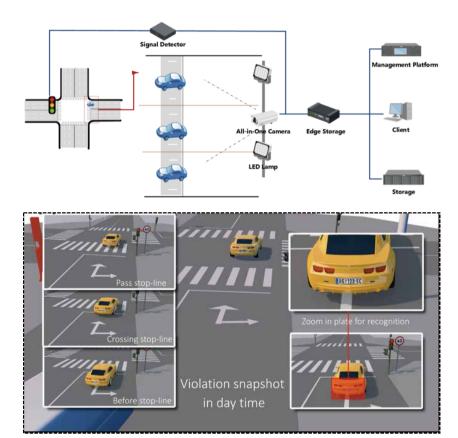
From contract to delivery, the Serbia Red Light Enforcement Project overcame various difficulties such as the requirement of capturing color images at any time of day and with no white light pollution. At the same time, the project successfully achieved real-time monitoring of traffic conditions at urban crossroads and license plate recognition for illegal vehicles. As a result, Dahua helped our client to construct the project's first stage and received positive feedback from the end-user.

during the day and at night with no

white light pollution"

- Up to 95% license plate recognition rate. Generates tickets automatically.
- Provide color images with no white light pollution.
- High spot monitoring with speed domes.
- Real-time alarms via emergency phone tower.

In the red light enforcement solution, the system synchronizes the camera trigger to the signal detector, which fires a trigger when the signal turns red. The Dahua all-in-one capture camera then takes 3 images of the violation: a cropped image showing the vehicle plate, the status of the traffic signal, and plate number as violation evidence. Afterwards, the DSS management platform collects data from the capture cameras and distributes it to client operators for further processing. At the same time, an edge storage device stores the data received from capture cameras when there is a transmission failure.



### **Benefits**

This is the first time the red light traffic enforcement solution has been implemented overseas, successfully helping to capture color photos of vehicle violations day or night, and without light pollution. "Those pictures as proof of traffic violation evidence are much more persuasive. We use violation fines to pay for the costs of ITS construction, while at the same time standardizing traffic behavior," said local police.

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

Success Case-08, Jan 2018



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# Dahua Secures Kualanamu International Airport



### **Background**

Kualanamu International Airport serves Medan, Indonesia and is located in the Deli Serdang regency, 26km east of downtown Medan. Kualanamu is the second largest airport and the fifth busiest airport in Indonesia.

As an international airport, it not only needed to incorporate HD video surveillance for the VIP lounge to ensure high-quality service, but also to provide the entire transmission system for the airport network in order to ensure data processing capabilities from access to core aggregation.

Dahua was called upon to install a highly reliable solution to ensure a high level of security and process monitoring for the airport's passenger and cargo terminals.

- Highly reliable video surveillance of VIP lounge, covering all corners.
- Stable data transmission network system to ensure smooth monitoring and communications.
- Allocate bandwidth to businesses & shops and charge fees.

#### Front-end Monitoring

- Install video surveillance to monitor the VIP lounge at all times.
- WDR dome network camera displays video and images from all corners.
- The camera provides vivid images, even in the most intense contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology.

#### Transmission

- 70 switches were established in the system to ensure smooth monitoring and communications.
- At the same time, the transmission system met the requirements of allocating bandwidth to businesses & shops and charging fees.



### **Benefits**

"Actually, we have many bidders and the final reason that drives us to cooperate with Dahua is their outstanding product quality and service. We can see their professionalism in video surveillance and plus their sincerity makes us moved during the communication." Said Barda, the project manager, "Compared to the products of Cisco, Dahua has more powerful and more stable."

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

Success Case-09, Jan 2018







# Dahua Secures Malaysia Hydropower Plant



Background

Murum Dam is located on Borneo Island within Malaysia's Sarawak state. The dam has been built at the source of the Rajang Murum River, about 200 km away from the city of Bintulu, and has a dam control basin area of about 2750 km². The main purpose of the dam is power generation, and features a total water capacity of 12.043 billion cubic meters and an electrical capacity of 944MW. The hydropower plant was the China Three Gorges Corporation's first international project, and a milestone marking the starting point on its mission to "go global". As a major power-generating facility in Sarawak, Murum Hydropower Station plays an important role in the stable operation of society.

the safe and stable operation of Murum

Hydropower Station"

The large amount of water stored in hydropower stations puts the dam at risk of intentional flooding due to terrorist attacks, making strict personnel access control a necessity. Along with access control, comprehensive 24/7 monitoring and explosion-proof devices that detect fire hazards are also very important.

- Visualize important power station areas and strictly control suspicious persons.
- Explosion-proof monitoring devices for flammable and explosive areas.
- System with integrated services to reduce pressure on the client.

After assessing the plant's requirements, Dahua installed 39 cameras in the power station, including one explosion-proof camera. 9 cameras were installed in the ecological power station, and 3 cameras were installed at the water inlet. At the power station, switch station control building, and GIS room, a total of 15 video intercom and access control devices were installed outdoors. All equipment was connected to the DSS7016 unified management platform for easy monitoring and management. Dahua also provided all surveillance system accessories, including cabinets, cables, and other materials. Dahua also provided the client with guidance during the installation and implementation process.













### **Benefits**

Deployment of the Dahua Power Solution ensured the power station's safe and stable operation. This was also a model case for Chinese overseas investment projects and offered a great foundation for future projects.

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

Success Case-06, Jan 2018



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Success Case, Jan 2018



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