



Dahua Surveillance Solution Guarantees the Safety of Recife's Subway

Location
Recife, Brazil

Industry
Transportation

Products
DH-IPC-HF5231EN-Z-S2
DH-IPC-HF5231EN-S2
DH-IPC-HDBW8231E-ZS2
DH-SD65F230FN-H



“ The images help us identify crimes in the stations and send this information to the law enforcement. We are in the implementation phase and starting to operate with smart technology, the results have already started to be seen – we have already managed to identify and arrest suspects, forwarding them to the police. ”

Leonardo Villar Beltrão, CBTU Recife Superintendent

▶ BACKGROUND

Recife's urban trains system carries around 400 thousand passengers a day – it is the third largest railway operator in terms of number of users in Brazil. To ensure a safe journey for passengers, it is imperative to increase the subway security with modern technologies and monitoring equipment.

The main challenge was to adapt the technology to the specific conditions such as lighting, people flow and speed of a subway station without interrupting transportation services. Therefore, ease of operation, installation and high availability of the system were

prerequisites for choosing the surveillance solution.

With a contribution of BRL 61.5 million to invest in the improvements for the Pernambuco subway, Companhia Brasileira de Trens Urbanos (Brazilian Urban Trains Company, CBTU) has started a recovery plan for stations, trains, electrical systems and permanent pathways last year. It then inaugurated a new phase of the surveillance operation with the acquisition of 1380 high-resolution cameras from Dahua Technology for the deployment of the surveillance system.

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▶ SOLUTION

The Dahua intelligent surveillance system with embedded video analytics monitors 52 places scattered all over the 71 km of the railway line at the capital and the metropolitan region. The project led by Grupo Avantia from the publication of the bidding process until the installation combines four models of network cameras from Dahua Technology which are all equipped with H.265 compression and video analytics.

These cameras work daily in capturing and identifying images in the area. With a huge amount of data that needs to be analyzed daily, the H.265 video compression pattern, a format twice as efficient as its predecessor (H.264), is essential since it uses only 50% of the bandwidth, maintaining the same quality.

The equipment using the main features of Dahua Technology (H.265 compression, analytics, Starlight) has reinforced the security of the Central and Southern lines of the Pernambuco Subway and has allowed the operators to obtain detailed views of the subway operations, especially at peak hours or during tourist events, such as carnivals.

Day and night, under difficult lighting conditions and even in points with extreme low light, the Dahua exclusive Starlight cameras deliver sharp and colorful images to the surveillance center to guarantee the best performance in conditions of very low luminosity (0.005 Lux). Technology strengthens user protection in a general way, because it avoids intrusions into vital areas of operation, depredations or other occurrences that could hinder the passenger transportation. With video analytics, for example, even if the video surveillance operator is

not tracking the images of a specific camera, the system automatically identifies and alerts a detected movement in a restricted region, In addition to high technology, Dahua also provided professional technical support to guarantee the success of the installation process, which did not hinder the operation of the subway. As revealed by Avantia's Operational Director, Mr. Hamilton Valentin: "The partnership with CBTU has been very successful, due to the peculiarities of the implementation of the security system. It was a major deployment challenge, since all the systems of the stations were in full operation. It was a result of an outstanding team effort with the full support and partnership of the client, so that the implementation would occur in the best way possible and with minimal interventions in the subway system".



▶ RESULT

With the help of Dahua network cameras, the coming and going of passengers from Central and Southern lines now have the protection of the security teams in multiple locations throughout the subway's operation. The new video surveillance system was designed to operate in a centralized management, which differs completely from the previous single-management model. Thus, with this change, it became possible to take better advantage of the human resources of the security team in the 37 stations.

The whole system of Dahua video surveillance was thought to ensure not only the physical safety of each user, but also to avoid a common problem that causes a high impact to the quality of the service: vandalism. On some occasions, a window broken by a user can delay the routine of thousands of passengers. With the video surveillance cameras it is possible to identify suspects, trigger the maintenance service in a more agile way and minimize the impact on the operation.

The video footage of occurrences that happen inside the System of Urban Trains' facilities can be shared with the Military Police which, if necessary, can conduct searches in the image database and use resources such as Zoom to capture information that can help investigations. The operators themselves can alert the authorities depending on the incident.

* Design and specifications are subject to change without notice.

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