

Busan Customs relies on High Definition to safeguard Customs clearance process.

Major upgrade from analog to high-definition HDTV Axis network camera system greatly enhances customs surveillance efficiency.



Organization:
Busan Main Customs

Location:
Jung-gu, Busan
Metropolitan City,
South Korea

Industry segment:
Government

Application:
Customs surveillance
and remote monitoring

Axis partner:
Novanos

Mission

For 127 years since its establishment, Busan Main Customs, as Korea's largest port customs, has contributed greatly to the national economy as well as to public security by upholding fair trade and protecting public health in support of Korea's journey toward becoming an advanced trader. Busan Customs has made world-class customs administration its objective and focused on on-site support and local economy promotion. Therefore, it is crucial for Busan Customs to be able to facilitate imports and exports both quickly and conveniently for users and weed out illegal or dangerous items including smuggled goods, drugs, and terror items so as to guard the country's economic borders. The conventional analog CCTV system limited the customs work process due to its obscure and unclear image quality. In particular, integrating or connecting surveillance videos was either limited or impossible, thereby creating a lot of restrictions as to what personnel could do.

Solution

Busan Customs required a system rendering higher image quality and performance for higher work accuracy and speed and enabling digital integration. With new container piers opening, additional monitoring equipment was required to facilitate video surveillance.

More specifically, a high-performing camera system was needed for high-quality remote monitoring not only in daytime but also at nighttime when lighting is limited. Accordingly, Busan Customs established a monitoring room in the surveillance office and installed Axis' high-definition, HDTV-level network cameras for remote monitoring at the end of the pier and lamp equipment. Axis network cameras were the best solution for Busan Customs since it required a system that incorporated high-definition network cameras and central control thereof as well as a clear view even during nighttime.

"We realized that Axis network cameras were the best option for us because of their easy integration into the existing system and powerful and easy-to-use HDTV-level system. All of us are benefiting from the Axis camera's clear image quality night and day and image incorporation for enhanced control; as a result, we can simplify the clearance procedure and control the transport of dangerous items."

Busan Main Customs representative.

Result

Busan Customs installed Axis high-definition network cameras including AXIS P5534 and AXIS M1011. As a result, it gets clear and accurate images which enhance work accuracy and streamline the work process with limited resources. In particular, clear and complete monitoring videos of HDTV quality are obtained not only during daytime but also at nighttime when lighting is limited to ensure a fast and effective work process. Monitoring videos from the network can be associated with the monitoring situation room to eliminate the need for additional resources and time and reinforce monitoring work.

In addition, Busan Customs can continue to use its existing analog system by incorporating AXIS Q7401 Video Encoders and AXIS P7701 Video Decoders and share monitoring video converted into digital video through the network. For this, Busan Customs uses its connection with the monitoring situation room to control existing analog videos and monitor images comprehensively from the new system. As a result, investment in the existing system is protected, and infrastructure for future conversion into a new digital network system has been prepared to make Busan Customs not only number one but also the hub of port logistics in Northeast Asia.

Dead zone, smuggling, and transport of harmful items eliminated

Busan New Port now monitors goods transported by trading ships more effectively with its video surveillance system, which has been upgraded with Axis network cameras. The system thoroughly monitors important locations to prevent illegal trafficking and completely blocks the transport of dangerous items including drugs, firearms, and gunpowder, which pose a potential threat to public security, proving the overall efficiency of surveillance. In particular, AXIS P5534 PTZ Dome Network Camera enhances the efficiency of surveillance work with its HDTV-level pan/tilt/zoom functions. Axis PTZ cameras secure delicate and accurate videos with 18x optics and 12x digital zoom through autofocus.

The powerful auto-flip function with 360° pan enables concurrent and constant panning to allow close-up into dubious areas while full site surveillance is done. According to a representative of Busan Customs, what made the Axis cameras attractive was their HDTV-level PTZ all-in-one camera. "The clear video quality of HD level was particularly noteworthy; the 360-degree rotational pan function is also very useful he said.

Perfect image quality protects Busan's nights

Busan Customs is now able to perfect its performance by obtaining HDTV-level digital images that are clearer than the previous analog videos. The system's night/day functions enable clear and clean images not only in broad daylight and darkness but also during nighttime.

"We were in need of HD-level videos for surveillance efficiency not only during the day but also at night when brightness is limited. Prior to incorporating Axis cameras, we conducted tests on-site both day and night. The quality result was remarkable, and the supported brightness was high enough for complete nighttime surveillance," the representative of Busan Customs explained.

Easy integration into existing system and cost savings

Since Busan Customs already had a surveillance system based on analog cameras in place, the organization had to decide whether it needed additions or conversion into a network camera-based system. Given Axis network camera's groundbreaking quality, performance, and ease of integration, Busan Customs decided to incorporate network cameras for the long-term enhancement of surveillance quality and efficiency. The Axis network camera allows interoperability between the existing analog system and new network system. "We used an optical network at the port. Currently, we are in the transition period during which we continue to use our analog system and prepare for the complete integration of the network-based system," the representative of Busan Customs said. Busan Customs plans to upgrade the clearance system and facilitate clearance services to make Busan New Port the port logistics hub of Northeast Asia.



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