

# Upgraded BI-City Tokyo with Dahua Smart Residential Solution

**Location**  
Nur-Sultan, Kazakhstan

**Industry**  
Building

**Products**  
VTH2421FB-P  
VTO1210C-X-S1  
ITC237-PW1B-IRZ  
IPC-HDBW4231E-ASE  
IPC-HFW1320S  
IPC-HFW1230S  
NVR5432-4KS2  
DSS4004-S2



“ We adopted analog solution in the first phase. From the second phase, we replaced all of analog system with Dahua’s IP video intercom solution. We hope that Dahua will help us complete the solution planning of the three, four, five, and six phases. ”

Arman, General Manager of BI Group

## ▶ BACKGROUND

BI-City Tokyo is located in Nur-Sultan (Astana), the capital city of Kazakhstan. It is a high-end residential complex of BI Group – a leading construction holding company in the Kazakhstan real estate market. At present, three apartment buildings with public areas and more than 400 apartment units have been completed. Aiming to create modern high-end intelligent buildings and residential areas, the BI Group wanted to upgrade the existing analog video intercom system of BI-City Tokyo.

The original analog intercom system in this community is outdated and cannot meet the diverse security requirements of high-end residential areas. First, the original analog intercom does not support retaining images and leaving messages. Second, this system only

supports access cards to open doors, which is inconvenient for residents in case they forgot their card. Third, the original system cannot add IP cameras to monitor public areas such as children's playground, fitness areas, etc. Fourth, the cold winter temperature in Nur-Sultan requires high-performance equipment capable of operating in extreme environments.

Faced with the abovementioned challenges, BI Group was also looking for a trustworthy brand that can provide not only modern smart system but also technical support and reliable after-sales service. Meeting all the above requirements, Dahua smart residential solution was chosen to be the security solution provider of BI-City Tokyo.

## ▶ SOLUTION

The complete solution deployed more than 300 pieces of Dahua equipment, including Indoor Monitor, Apartment Outdoor Station, IP Camera, Access ANPR Camera, Video Recorder, etc. The solution supports two-way audio intercom, real-time video and messaging feature. In addition, a variety of door opening methods were also implemented: door opening via remote calling, door opening using access card, and remote door opening via APP. Additionally, all the equipment can be visualized and integrated in the Dahua DSS platform for centralized management, operation and maintenance.

Moreover, the temperature in Nur-Sultan can reach up to negative 40 degrees in winter season. This requires high-performance outdoor devices featuring dust and water resistance, and explosion-proof capability. In response to this pressing challenge, Dahua apartment outdoor station VTO1210C-X-S1 and access ANPR camera ITC237 that support wide working temperature were installed at the entrance of the apartment building for a more effective visitor and vehicle management.

When a visitor arrives at the entrance of the apartment building and dials a resident’s room number through the Dahua apartment outdoor station, the camera installed at the entrance will synchronize the video with the visitor’s image captured in the resident’s indoor monitor. Once the visitor’s identity is confirmed, the resident just needs to press the

button on the indoor monitor to open the door remotely. With Dahua app, users can even answer calls and open doors remotely when they are out for work or traveling.

As for vehicles, Dahua access ANPR camera ITC237 is designed for extreme temperature environments (temperature range of -40°C to +60°C). With built-in intelligent video analytics, the camera has the ability to detect and recognize moving vehicle's plate number within low speed. For both approaching and departing vehicles, the access ANPR camera takes a snapshot of the number plate and vehicle overview picture, as well as records corresponding surveillance videos. By setting a whitelist, the camera can automatically control the barrier or gate to open if a plate number recorded in the whitelist has been recognized.

The public areas including children's playground, fitness areas, as well as the lobby are covered by 2MP IR Mini Dome Network Camera IPC-HDBW4231E-ASE, 2MP and 3MP IR Mini-Bullet Network Camera. The Starlight Ultra-low Light Technology of IPC-HDBW4231E-ASE offers industry-leading light sensitivity, capturing color details under low light condition up to 0.002lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

## ▶ RESULT

Dahua smart residential solution provides an integrated management platform for the management personnel of BI-City Tokyo. It assists in the remote and visual management of the property and improves the services and facilities they offer.

Security guard at the entrance is not needed anymore to manage entering and exiting vehicles, which saves labor costs, reduces the waiting time of vehicles and improves traffic efficiency. In addition, the all-round monitoring of the public areas within BI-City Tokyo greatly improves the safety level of the entire community. The video intercom system of the building provides a variety of convenient door opening methods, enhancing the resident’s living experience.



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

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