

## Optimizing port security in Shenzhen.

Yantian International Container Terminals ensures security with Axis network video products.



**Organization:**  
Yantian International  
Container Terminals (YICT)

**Location:**  
Shenzhen, China

**Industry segment:**  
Transportation

**Application:**  
Safety and security

**Axis partners:**  
Shenzhen Jiana  
Communications Co., Ltd.,  
Milestone

### Mission

Yantian International Container Terminals (YICT) in Shenzhen, China, is a natural deep-water port and the leading gateway serving import and export container traffic generated by its immediate cargo hinterlands. To cope with market requirements and the development of the industry, YICT utilizes leading-edge security equipment to ensure a safe gateway for shipping lines and shippers. In their drive for excellence, they were looking for a complete security system to be secure, advanced, reliable, practical and convenient.

### Solution

YICT opted for a reliable Axis network camera system and Milestone XProtect® video management software for monitoring and managing the complete security system. The IP cameras effectively monitor, display and record human and vehicle activities in public areas in front of terminals and surrounding roads.

The cameras provide visual information of sites and record events, help identify public security accidents and ensure security, and provide factual basis and reference for handling events for security and management personnel.

### Result

The video monitoring system provides a complete integrated management interface to ensure the network security and bandwidth of the network digital monitoring system, and provide the user with high-quality images and smooth platform. By that, the security team can control, configure and diagnose the system at any location of the security network.

**“Images captured by Axis cameras are clear and smooth, and the low-light performance is distinctive. The monitoring scenes are quite clear without fill-in light at night, while the code stream is low, indirectly saving us some investment. Moreover, the pre-sale and after-sale services of Axis are efficient and professional. The cooperation with Shenzhen Jiana Communications Co., Ltd is pleasant and successful.”**

**Chen Junlong, Project Manager, Yantian International Container Terminals.**

Yantian International Container Terminals (YICT) in Shenzhen, China, is a natural deep-water port and the leading gateway serving import and export container traffic generated by its immediate cargo hinterlands. With a total of 16 berths and a yard area of 373 hectares, YICT has built up an extensive cargo base that attracts about 40 shipping lines providing approximately 100 weekly services to major ports worldwide.

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Shenzhen Jiana Communications Co. installed PTZ and dome network cameras with 2 megapixel HD quality, with IP66-rated housing, to handle the severe outdoor environment. A large-screen management monitor was installed in the monitoring center at one of the terminals for daily operation and maintenance including 43 screens, which can display images captured by any camera in the system in real time.

To ensure system stability, the platform management software from Milestone configures a storage management server that can record videos of all front ends and digital signals to be transferred through the network to a complete digital storage of video images. Images and videos of any channel can be stored for 90 days or more.

The solution include 'Black screen detection' where the system automatically sends an alarm in case of a black screen; 'Supersaturation detection' where the system automatically sends an alarm in case of failed camera gain control or image super saturation caused by strong light; and 'Lens block monitoring' where the system automatically sends an alarm if a camera lens is completely or partially blocked. The solution also comprises a 'Smart retrieval' function, which can perform playback video analysis, analysis and automatic retrieval of frame difference for specified areas of stored video and synchronized playback of frames of associated events on the same screen.

The video monitoring system has a senior administrator who is responsible for system configuration and maintenance. Only the administrator can enter the interface, control center database, configure devices and allocate rights. The video monitoring system provides a complete integrated management interface to ensure the network security and bandwidth of the network digital monitoring system, and provide the user with high-quality images and smooth platform. By that, the security team can control, configure and diagnose the system at any location of the security network.



**Yantian International  
Container Terminals**  
盐田国际集装箱码头

