

SEAPORT SECURITY

China Merchants International Terminals Daxie Ningbo

SITUATED IN THE MIDDLE OF CHINA'S COASTLINE, the China Merchants International Terminals, Daxie Ningbo, is strategically located at the T-shaped intersection where the north/south shipping route and the Yangtze River meet. Located only 136 nautical miles from Shanghai, the port is the focal point for entering the Yangtze River Delta. In a world economy that depends on the safe and efficient flow of goods, port security is of paramount concern. And so it is at Daxie Ningbo, where container throughput is expected to reach 10 million TEU (twenty-foot equivalent unit) by the year 2010.

A three-phase project, Phase I is now complete and is 360 meters in length, 55 meters wide and has a waterfront depth of 17 meters. The related roadway and 350,000 square meter container yard are also complete. Through cooperation between the Crockett International Shanghai office and system integrator Sinostride Technology Co., Ltd, Pelco products were selected for use on the entire terminal. The port required high-quality video, high-speed PTZ control, the ability to track ships and vehicles, and a scalable system to allow for future growth. As such, Spectra III dome positioning systems were selected as the primary cameras, and the CM9770 matrix as the backbone. The end user decided on Pelco products for their high quality, ease of use and limited maintenance.

According to the SOLAS (Safety of Life at Sea) Convention, the port must provide system video and control to many different departments, including Customs, Frontier Defense, the Harbour Bureau and Police. As many of these departments are not located at the port, use of a network is the only way to transmit system signals. With an installed Pelco DX8000 digital video recorder and a System 9760 matrix, both local and remote network users can access the system. A further SOLAS Convention requirement is that the port provides the local Maritime Bureau with recorded video of each anchored ship. As the video records are for domestic and international use, they are required to be extremely clear and with the original watermark; the DX8000 fully meets this requirement.

Since system implementation, the port has become much more efficient. Where guards used to patrol the entire port area (over 370,000 square meters), security operations only require guards in the control room and local guardhouses. Additionally, the high-quality video provided by the Spectra III dome positioning systems has made identifying each container very easy and improved the management of the port as security personnel no longer need to identify containers manually. The reliability of the system has also been outstanding as evidenced during the summer of 2005, when the port was hit by several typhoons. The system remained in operation throughout and helped secure the port during its recovery efforts.

Currently, Phases II and III of the port are under design. When completed in 2007, the entire port will be over 1,500 meters long. In total the installation will use a combination of 180 Spectra III domes and Esprit integrated positioning systems. **1**



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