

# Bosch Provides a Comprehensive Security System Solution for GEA's New Plant



**BOSCH**  
Invented for life

## Industry:

Industrial

## End User:

### GEA Process Engineering (China) Limited

As a sole proprietorship business based in Germany with worldwide enterprises, the GEA Group is specialized in the design, manufacturing and supply of liquid and powder processing systems. In addition to offering project management for the chemical industry, its range of services includes providing processing systems for the food, brewery, beverage, dairy, medication and cosmetic industries.

In August 2008, a new GEA plant was opened in Zhuanqiao, Shanghai Province. This plant allows centralized production, logistics and service so that the production capability has increased by 70%.

## Business Objective:

GEA's new plant required a security management system that included a surveillance system, perimeter alarm and access control, providing comprehensive security not only for the entire plant floor, but also for the production workshops, storage and office areas. What's more, the system needed to provide support for production operations. In addition, the access control system functionality had to be expanded to include staff attendance monitoring and canteen costing (counting only).

GEA wanted a security system that could offer stable performance and excellent service, guaranteeing safe operation at the new plant. Furthermore, the solution needed to be flexible and offer good prospects for expansion, thereby catering for potential future requirements.

## Solution:

Bosch Security Systems carefully designed a stable, reliable, convenient and user-friendly security management system for GEA Process Engineering (China) Limited. Bosch's system includes perimeter alarms, video surveillance and an access control system. The entire solution consists of 30 card readers (e.g. for access control, associate attendance monitoring and canteen entry), over 30 cameras and more than 10 perimeter sensors.

Bosch's simple, user-friendly access control system allows access to the plants restricted areas to be managed and its scope includes the plant's internal safety management workflow, providing an effective tool for enhancing working efficiency. The cutting-edge AEC solution seamlessly integrates Internet server and access control functionality, enabling the operator to manage the system via the internal network at any time and from any location, thereby decreasing the total implementation cost.

The high-performance Bosch video surveillance system provides a complete image by monitoring an area including the plant perimeters and key locations both indoors and outdoors. Its innovative AutoDome spherical video cameras and Dinion video cameras are exceptionally flexible, even in environments where the lighting changes.



GEA Process Engineering (China) Limited: the new Plant

They can capture minor details in full, ensuring a high level of real-time surveillance and providing good-quality evidence in the event of incidents.

The plant perimeters are protected by a stable Bosch perimeter alarm system, boasting electronic map display functionality (alarm management software), and conventional DS7400 control panels and sensors, which provide the first line of security and protection for the production area. Together, these components make alarm processing much more efficient.

Bosch has designed a security system based on an internal network system for GEA's new plant. It offers excellent expansion potential, so that the increasing security and protection requirements can be easily met.

## Result:

Bosch Security Systems has provided GEA Process Engineering (China) Limited with a complete solution from a single source, effectively combining visual monitoring, anti-theft alarms and access control systems and simplifying all project stages from design to installation and maintenance.

The person responsible for the system at GEA Process Engineering (China) Limited enthuses: "The entire system is running stably and as expected in our plant, and it meets our security management system requirements. The one-stop purchase has brought us not only an excellent product, but also Bosch's excellent service and support. Bosch is a reliable and trustworthy brand."

## Installed by:

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