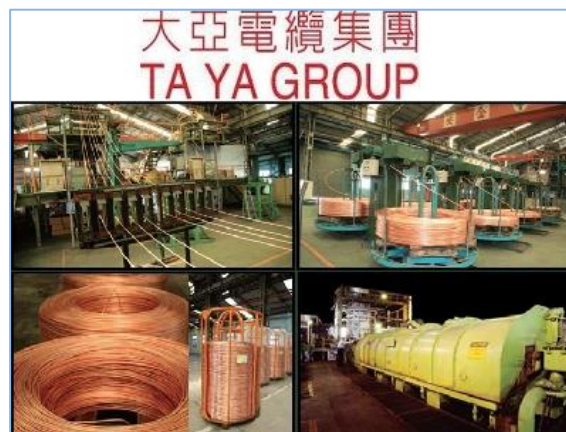


## Taya Group, upgrade to FHD without recabling

Site Name	Taya Electric Wire and Cable Co. Ltd.
Country/ City	New Taipei City, Taiwan
Industry	Commercial Building
Solution	DTV FHD Digital Surveillance System DTV Camera Outdoor * 10 DTV Camera Indoor *2 DTV Digital DVR *1
Solution Provider	A-Tec Subsystem Inc.
Reasons of Adoption	<ul style="list-style-type: none"> <li>■ Retrofit without recabling</li> <li>■ Full HD video quality</li> </ul>



### CUSTOMER NEEDS AND PROBLEMS

Taya Electric Wire and Cable Co. Ltd. is a listed company in Taiwan with a market value of NT\$ 5.7 billion. The request of this case is from their Taipei Branch Office in the Wugu Industrial Park, New Taipei City. An analog surveillance system was installed more than a decade ago in the building where the office is located. Over the years, the systems and cables were getting old, and the video signals deteriorated so much that the images were unclear with lots of noise. This makes it very difficult to identify the license plate numbers on the cars and trucks that passed in and out the parking lot and the warehouse, which in turn caused a big security concern.

The old and degraded cables caused the blurry images. If to replace the old analog system with a new analog HD system, one had to replace the existing cables with new ones as well for acceptable image quality. However, the problem of poor image quality will come back again as the cables deteriorate over the years to come. If to replace with an IP digital HD system, one has to replace the existing cables with network cables, which takes time and labor and will affect the company's daily operation. After scrutinizing various solutions, the company decided to choose DTV digital HD surveillance solution.

### BENEFITS

The technology behind DTV digital HD surveillance solution is ccHDTV digital television technology. There exist many digital TV standards, and ccHDTV is based on the European DVB-T. The design of the standard makes the system less vulnerable to deteriorated cables. Although the cables were installed for more than 10 years, field tests showed that DTV solution works fine and no serious signal decay and noises

were found. There was no need for recabling and this saved lots of cost and priceless business hours for the owner. Compared to the 2 to 3 workdays required for other solutions, it took less than 5 hours to replace with the DTV system from installation to system setup. This was because one only needed to replace the cameras and the video servers.

As mentioned, there was no need to replace the existing cables for this case. The installer needed only to replace the old CCTV cameras and video servers with DTV cameras and video servers. The image quality had an instant boost from 380 kilopixels of the old CCTV analog system to 2 megapixels of the new DTV digital HD system. The images became fine and sharp with realistic colors. The problem of blurry license plates on cars and trucks in and out of parking lot in the past were solved, thanks to the wider viewing angle of 16:9 cameras than that of the old 4:3 cameras.