

A Japanese School Adopted DTV to Secure Campus Safety

Site Name	Ogurihara Elementary School
Country/ City	Chiba Ken, Japan
Industry	Education
Solution	DTV FHD Digital Surveillance System
Solution Provider	A-Tec Subsystem Inc.
Reasons of Adoption	<ul style="list-style-type: none">■Retrofit without recabling■System Expansion by Daisy Chain■Long-distance transmission■Full HD video quality■Power over coaxial cable (POC)■Other(Low Total Cost)



CUSTOMER NEEDS AND PROBLEMS

Founded in 1954, Ogurihara Elementary School is a long-established and highly reputed school in Chiba Prefecture(Chiba), Japan. Currently, there are approximately 1,000 school children. The school used to have 4 analogue cameras installed at the front gate, the north gate, the east gate, and the school lobby. As the criminal events increase over the years and so do accidents related to school children, the school was aware that there were blind spots in the existing analogue surveillance system, and the footage from the system was too blurry to identify the face of the suspicious figures. As a result, face recognition was out of the question should something terrible happened. Greatly concerned and thinking about installing more cameras at the school lobby and where school children had their daily activities frequently, the school hired professional engineering design and planning firm for an evaluation.

In addition to the blur image, the viewing angle of the old camera was not wide enough to cover the spacious lobby. Therefore, the school made the decision to introduce a digital HD surveillance solution. However, Ogurihara Elementary School was a public school with limited budgets and relatively large campus. There was quite a distance from the lobby to the central control. It costs money, time, and labor to install every extra cable. Having all these factors in mind, the school took the advice of the system integrator and chose the DTV digital HD solution. With the DTV' s features of multiple cameras on a single cable and POC (power over coax), the costs to install the new digital solution was lower than that of other surveillance solutions.

BENEFITS

DTV products feature the ccHDTV transmitting and receiving chips developed by ITE Tech. Even without amplification, the signals from as far as the rear gate to the backend will not experience any quality degradation caused by the long distance. The clear and high quality images is the same throughout the entire system, far or near, making it perfect for campus surveillance.

DTV products also feature support for series connection and cable sharing. One single coaxial cable can string up multiple cameras as long as they are set at different channels. In this case, in addition to the replacement of existing analogue cameras with the DTV HD ones, two more were added onto the existing cable via a splitter. The cameras are installed to provide different angles and eliminate blind spots which the old system was unable to cover, all thanks to features of series connection and cable sharing.

The DTV digital surveillance solution is less vulnerable to the quality of cables. Chiba Prefecture is a place where the temperature fluctuation is significant and it snows in winter, both accelerate the cable quality degradation. Now with the new system, the school do not have to worry about the blurry surveillance footage due to deteriorated cables in the short run. The parents are grateful and appreciate what the school has done to improve campus security and the safety of their children, and they are now more supportive of school events.