

## Axis network cameras: a cutting-edge learning resource. A group of students installs a video surveillance system in their education center.



Organization:  
I.E.S. Cuatro Caminos

Location:  
Don Benito, Badajoz,  
Spain

Industry segment:  
Education

Application:  
Safety and security

### Mission

Learning to have good social interaction, apart from being one essential goal of education, constitutes one of the main challenges facing modern education systems. However, one of the most widely held beliefs among teachers is that there is a progressive increase in relationship difficulties in education centers and especially in secondary education.

Although situations of conflict, discipline or bullying between students have always existed, they seem to have taken on greater importance in recent years due to what is known as disruption in the classroom. This phenomenon has a direct impact on the work and motivation of teachers, the classroom atmosphere and relations with their students, and requires specific intervention strategies.

### Solution

Mindful of the impact that this situation could have on its center, the senior staff of the Cuatro Caminos Institute of Secondary Education decided to install a video surveillance system based on Axis PTZ network cameras that will have a deterrent effect on behavior and actions that have a negative impact on social interaction. The system, which meets the center's budget, also serves as a successful part of learning.

### Result

Based on a suggestion by a teacher, students installed a video surveillance system that effectively helps to capture audiovisual information about what is going on in areas outside the center. Thanks to this solution, when incidents occur, the most appropriate corrective measures can be taken.

"I suggested that the senior staff should install Axis network video products. Since their implementation, the monitoring of recess and activities in outside areas in general is much more effective, and we're very pleased with the quality of the cameras, the performance they offer and their optimal suitability."

Pedro Rodríguez Santos, Teacher at Cuatro Caminos Institute of Secondary Education.

## Importance of security in education centers

Education centers are obligated to guarantee and take care of the well-deserved enjoyment of students during their recess periods, as well as preventing, as far as possible, any attempted vandalism that could originate from outside. The school board of Cuatro Caminos Institute of Secondary Education was also concerned with guaranteeing effective compliance with the existing provisions of the "Regulations on Organization and Internal Procedure" and the principles laid down in the "Community and Participation Area", giving priority to its relation to education.

The center includes extensive recreation areas that accommodate a soccer field. Their size complicates the work of teachers on duty during recess and makes it difficult to be able to monitor all areas simultaneously.

## A flexible solution

The senior staff, the Central Studies Office and the school board, paid attention to the recommendation of the teacher of Electronic Systems, Mr. Pedro Rodríguez, and, with the aim of extending the level of security of the center and reducing costs to the maximum, decided that the installation of the video surveillance system would form part of the teaching activities, as a further study unit for vocational training students (Advanced Course in Electronics: Development of Electronic Products).

To perform this installation, it was necessary for students to first complete a course on the operation of lifting platforms required for positioning the cameras. Since the center had a pre-existing Local Area Network infrastructure, it was decided that the video surveillance system would consist of IP cameras.

Under the supervision of the teacher in charge of the project, it was decided that the camera best suited to the specific needs of the system would be the AXIS 215 PTZ-E – a perfect camera for outdoors, with day/night vision, horizontal and vertical movement, and 12x optical zoom that provides detailed views of wide areas.

The solution consists of 5 cameras covering the main outdoor areas adjacent to the center's buildings, namely: the parking lot, the rear of the workshops for the training courses and the rear of the high school classrooms.

The system includes a control center housed in the Central Studies Office, from which the recess periods are viewed personally. It allows storage of images in accordance with the provisions of the "Data Protection Law," thanks to the AXIS Camera Station video management software. In order to comply with these regulations, information posters announcing the presence of the cameras were placed throughout the center.

## Possible future expansion

Ever since the installation of the video surveillance system, no incidents have occurred and the level of satisfaction of the senior staff, teachers, parents and students of the center is very high. This solution has been studied by other education centers in the region, and the installation of similar systems is planned in order to safeguard students and teachers during school hours.

The Cuatro Caminos Institute of Secondary Education is undergoing an expansion with new buildings and extending the surveillance system to also cover the new areas is being considered.

