

## Setting football records with Axis.

Axis network cameras form backbone of security video surveillance system at Vazgen Sargsyan Republican Stadium in Armenia.



**Organization:**  
Football Federation of Armenia

**Location:**  
Yerevan, Armenia

**Industry segment:**  
Stadiums/Venues

**Application:**  
Safety and security

**Axis partner:**  
IU Networks,  
Abris Distribution, Inc

### Mission

Vazgen Sargsyan Republican Stadium was built in the capital of Armenia in 1937. Modernization of the stadium started in the late 2000s with the goal of bringing it up to UEFA standards to host the national football team. In particular, the stadium had to be equipped inside and outside with fixed color cameras with pan/tilt motors, allowing for highly detailed images that could be controlled from the stadium management center.

### Solution

When designing the security video surveillance system for Vazgen Sargsyan Stadium, the Football Federation of Armenia decided to go for Axis products. Such criteria as image quality, high durability of cameras, and the altogether top-of-the-line quality of the products were taken into account.

IU Networks installed AXIS Q6045-E, AXIS P5414-E, and AXIS P5534-E PTZ Network Cameras as well as AXIS P1354-E Fixed Network Cameras and AXIS Camera Station software for video surveillance.

### Result

Currently, the Republican Stadium is equipped with 56 Axis IP cameras arranged in such a way as to cover every square meter of the territory, from the main entrance to the terrace, and identify people and objects inside the viewing angle. Such a video surveillance system ensures security and efficient monitoring at every entrance and exit, prevents possible accidents, and continuously operates in any climatic conditions.

**“To host the UEFA games everything at Vazgen Sargsyan Stadium had to comply with the required standards, including the video surveillance system. Now, thanks to the Axis equipment, we can monitor every square meter of the stadium and recognize people and objects in detail in order to prevent any potential accidents.”**

**Arthur Azaryan, head of licensing, Football Federation of Armenia.**

## Project features

According to UEFA standards, a video surveillance system at a modern stadium should consist of outdoor and indoor, color, fixed cameras with pan/tilt motors, stand-alone power supply, and a separate data transmission channel. These cameras monitor all the stadium entrances and common areas and send the images to the monitors at the stadium management center.

Keeping this in mind, the installers decided to use AXIS Q6045-E PTZ Network Cameras for the stadium video surveillance system. Such cameras feature pan-tilt-zoom functions, offering highly detailed images.

AXIS Camera Station software for video surveillance simplified the installation and configuration of IP cameras due to its function that automatically detects the connected cameras, its ability to apply common configurations to several cameras, and its efficient event configuration wizard. Simple operation and an intuitive interface that is helpful for video content analysis and high-resolution identification are the major advantages for stadium application. These features enable any user to successfully manage any incidents and quickly export video evidence in high resolution.

Apart from network cameras, the Football Federation of Armenia also purchased two remote-control panels and an optional application that allows video surveillance directly from the stadium director's office and the security office. This equipment and software are also produced by Axis.

## Functionality of cameras

The Axis cameras installed at Vazgen Sargsyan Stadium support remote PTZ control technology. In particular, these AXIS Q6045-E cameras have HDTV 1080p resolution and 20x zoom capability. These dust/rain/snow-proof cameras are equipped with impact sensors that offer vandalism and surge protection. Additionally, these cameras support 256 automatic, preset positions, high light compensation, zoom capabilities, fence sensors, people counters, and entrance/exit detection capabilities. Tilting 20° above the horizon line expands the viewing angle beyond the installation position and offers the best overview of the upper terrace.

The cameras support High Power over Ethernet technology via High PoE midspan. This means that the same cable is used for power supply, sending image and PTZ commands, which simplifies the installation, operation, and maintenance of all Axis equipment.

## Evolution

IU Networks has implemented Axis equipment in Armenia for several years. During this period, the company has executed a number of successful projects installing Axis network cameras (for example, at the Armenian Board of Treasury, the Football Federation of Armenia, the IU Networks offices, and the main office of Ucom, the country's biggest broadband Internet provider).

Since the Axis video surveillance system installed at Vazgen Sargsyan Stadium showed good results, the next step can be the installation of the same system at Hrazdan, the country's largest stadium.

