

## Cluj Arena – the stadium with the most modern video surveillance system in Romania.

Axis network cameras watch over the safety of every participant during stadium events.



Organization:  
Cluj Arena S.A

Location:  
Cluj Napoca, Romania

Industry segment:  
Leisure

Application:  
Stadium safety and security

Axis partners:  
Starnet Consulting,  
ELKOTech, Aimetis

### Mission

Cluj Arena stadium is one of the most important infrastructure projects launched in the local market in recent years. The stadium is a public place and security is a paramount issue; the organizers have to assure the safety of all participants during events.

### Solution

To choose a video surveillance solution, Starnet Consulting, one of the most important partners of ELKOTech Romania, took into consideration a few specific factors: FIFA/UEFA legislation, a wide range of scenarios and a large number of points of interest which had to be monitored, as well as the demand to ensure the possibility to detect and identify banned people or to analyze the smallest details of an event.

The most appropriate solution was a digital video surveillance system composed of 102 Axis network cameras for the surveillance of stadium access of which 10 PTZ Axis cameras are used for the surveillance of the stadium seating areas. The solution also included 2 surveillance monitoring locations and video management software from Aimetis.

### Result

The system quickly proved its efficiency during events that took place in the stadium. Spectators who moved to a different seat after they caused an incident were identified with the aid of the auto-tracking features and high definition images were used by security staff in order to recognize possible disturbances before incidents occurred. All in all, the entire stadium was kept under control in real time. The system features advanced technical capabilities, very good scalability, easy and convenient operation and control.

"The modern video surveillance system is one of the elements that ensure the qualification of Cluj Arena in "Elite" stadium category, according UEFA classification. With a secure area and the possibility to identify any incident, the stadium is able to host sporting events of great importance, concerts or other kind of events."

Radu Ratiu- Chairman Councillor, Cluj Arena.

## In numbers

In numbers, Cluj Arena video surveillance system means: 102 Axis network cameras with PoE, 10 Axis megapixel HDTV PTZ network cameras with auto-tracking, 2 km of optical fiber, 12.2 km of UTP cable, 2 surveillance monitoring stations, with the possibility to create an unlimited number of stations.

## Major benefits of the application

The security system proved to be very helpful to the police, security companies and in the end, to all spectators in the stadium. The major benefits of the implemented solution are:

- > The system ensures the safety of all participants during the events within the stadium
- > Highly-detailed images can be used by security staff in order to recognize possible disturbances before incidents could occur and make the right decisions
- > High quality images ensure easy identification of banned individuals
- > Video images can be used in court
- > Reduced energy consumption
- > Cameras synchronized by NTP protocol connected with an atomic clock
- > Thanks to the intelligence and processing power inside the cameras, the amount of necessary storage equipment is very low

