

## Security takes the field.

The Rigamonti stadium in Brescia deploys Axis network cameras to monitor entrance turnstiles.



Organization:  
Brescia Calcio S.p.A.

Location:  
Brescia, Italy

Industry segment:  
Leisure

Application:  
Stadium security, access  
monitoring

Axis partners:  
P.A. Sistemi Integrati Srl,  
Mirasys

### Mission

Brescia Calcio, established in 1911, is the main soccer club of this town in Lombardy. During the soccer season 2009-2010, in the return leg of the playoff final, the club returned to Series A (premier league) after five years in Series B. The soccer club, in order to achieve the certification of the town stadium and to comply with the strict security requirements of Federcalcio for the premier league, needed to quickly fit their video surveillance system to the high standards required.

### Solution

The Municipality of Brescia, owner of the premises, and Brescia Calcio sought the experience of P.A. Sistemi Integrati, a security services company that invests a significant portion of their resources in research for video surveillance systems improvement, providing IT consultancy and software solutions as well.

P.A. Sistemi Integrati, an Axis partner, proposed to reinforce the existing analog video surveillance system with 15 new AXIS Q1755-E Network Cameras, to monitor the stadium access paths, specifically the entry turnstiles. The system is managed with Mirasys software.

### Result

The system fully satisfied the new security demands of the Rigamonti stadium. Thanks to the efficient monitoring of the entry turnstiles, the faces of incoming spectators can be recognized, with the possibility of preventing access of suspect people to the stadium.

"The Gos representatives declare themselves satisfied with the system implemented by Brescia Calcio. The timely intervention, the reliability and the quality of the installed cameras and the entire system, allow the Brescia team to start the championship in a stadium that complies with all the security requests. The availability of a secure and reliable access monitoring system, allows us to check the people entering the stadium and prevent possible unauthorized access."

Gos representative and Chairman of Brescia Calcio, Comm. Luigi Corioni.

### When details make the difference

After the return of Brescia Calcio to the premier league, the modernization of the town stadium was started. In 2 months, a new video surveillance solution was integrated in the existing system in order to monitor access, specifically the entry turnstiles.

P.A. Sistemi Integrati, based in Brescia and operating in northern and central Italy, after having deployed a gigabit optic fiber LAN, installed 15 AXIS Q1755-E HDTV Network Cameras for outside mounting, supplementing the existing analog dome cameras. The new cameras have been positioned to monitor access to the stadium, specifically the 15 turnstiles that receive the influx of the public.

"One of the new system's requirements was to offer clear images to identify the incoming spectators," explains Michele Marinoni, Technical director of P.A. Sistemi Integrati, "with the possibility of capturing wider areas as well. I considered strategic the choice of AXIS Q1755-E Network Cameras as capturing devices, because they fulfill our requirement for clear images, thanks to the progressive scan feature and high definition support. AXIS Q1755-E features a 10x optical zoom, a 12x digital zoom and an autofocus feature that allows setting up the desired visual field with perfect focusing. The Axis cameras feature a motor-driven auto-iris lens, driving the attention on any detail of the captured image, and offering the security operators an excellent tool to monitor evolving scenarios."

Another requirement was the need to review the recorded footage in real time. The operative specifications of the installed Mirasys software platform leave no doubts about the complete achievement of the required task. In fact Mirasys, one of the world-leading providers of open video surveillance solutions and an Axis partner, developed a system that can fulfill the desired requirements, while considering its usability. The software allows examination in a playback window of the stream of data coming from each camera. The operation is made simple using a computer mouse. Moreover, the capacity of the Mirasys software allows automatic adjustment of the bitrate for a remote viewing of the live video. This way, the video can be adjusted according to the bandwidth of the remote channel, without any user intervention.

An operating center was arranged inside the stadium for the operative security group (GOS) of the police headquarters, which coordinates all security-related aspects of the soccer matches. The system test, that according to law was conducted by the police headquarters, included a simulation of capture in critical, as well as in standard, conditions. The cameras were able to provide sharp images, day and night, even in case of possible blackout.



P.A. SISTEMI INTEGRATI