



spark
UltraHD technology

SUCCESS STORY: MAPEI STADIUM

The “**Mapei Stadium Città del Tricolore**” is the sporting center of Reggio Emilia, a city in Northern Italy. It was established to host sport events and it is mainly used by the football team U.S. Sassuolo, a top half team in Italian “Serie A”. It is a modern stadium with a capacity of up to 25.000 seats.

Spark has designed and installed a modern video surveillance system fulfilling requests from both the stadium and Public security officers, and, in the end, contributing to make the stadium a place suited for families and sport enthusiasts.

CLIENT

MAPEI STADIUM
Città del Tricolore

LOCATION: **REGGIO EMILIA, ITALY**

EQUIPMENT





SPARK APPROACH

Spark's video surveillance systems are designed by first listening and talking to the client to understand the ultimate goals he or she has in mind and then propose a solution that meets all of these explicit and hidden needs.



The **“Mapei project”** involved several players among which there are: the Company owning the Stadium, the public security officers and, of course, Spark's engineers. The targets aimed to replace some older analog devices with modern IP cameras, yet reusing the existing infrastructure, add **Ultra HD** cameras to watch over the two stands where most active supporters seat and, finally, expand the areas being guarded and that was not covered by the previous installation.

The **“Mapei project”** did not end with the deployment of the whole system, rather it continues with post sales support and consultancy services even during the occurrence of sport events.

DEPLOYMENT

Improved security also means being able to watch more and better. Since entire areas inside and outside the stadium were not covered by the old installation, Spark has setup new cameras to fill these gaps. The new surveillance system covers both grandstands and the two supporters stands, that are now being watched over by **Spark's Nitida 12000**. Areas outside the stadium are monitored using a number of PTZ cameras, while, at sensible places like turnstiles, Spark has integrated third party subsystems that allow to match the supporter's snapshot entering the stadium with the seat he or she will take.

SURVEILLANCE SYSTEM

- Fixed FullHD Cameras: **37**
- PTZ (30x) FullHD: **11**
- Nitida UHD 12MP @ 30FPS: **16**
- Network Video Recorders: **3**
- Storage capacity (TB): **24**
- Devices to adapt IP cameras to the existing infrastructure: **41**
- Gigabit Ethernet Switch : **4**
- Outdoor Radio Link: **2**
- Monitor for control room in the Stadium: **4**
- Monitor for control room at Italian Police office : **2**

The core of the surveillance system are the Ultra HD cameras.

Thanks to the installation of the **NITIDA 12000**, Spark has fulfilled the request to have very high resolution images and frame rate, allowing the identification of the faces and actions of each individual viewer and providing images that greatly exceed the threshold of 200 pixels / meter.





RESULTS

Today the Mapei Stadium features a modern and complete video-surveillance system. The project took into account explicit and hidden requirements from both the Stadium and the Safety officers, thanks to the ever going talks between them and Spark's technicians. This approach allowed the deployment of the system in a few weeks, right in time for the beginning of the "Serie A" championship where U.S. Sassuolo is for sure a main player.

RESULTS AND BENEFITS

- ▶ State of the art surveillance system in place
Very low costs due to limited infrastructural changes
- ▶ Widening of surveilled areas Opportunity for both the client and the Publis security officers to watch over areas outside the Stadium
- ▶ Strict control on red zone areas (access to the stadium, areas between ticket counters and turnstiles)
- ▶ Coverage of grandstands and stands (N/S/E/W)
- ▶ Budget in line with forecasts for both the installation and its maintenance
- ▶ Integration of a third party system linking the supporter's ticket to his/her picture taken at turnstiles



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