



Alsancak Stadium in Türkiye relies on Panomera® cameras after comparative test

CLOSED SPECTATOR AREAS AND FINES ARE ALMOST COMPLETELY A THING OF THE PAST



Requirement

- Detect vandalism and riots promptly
- Prevent danger to players and spectators
- Prevent closed spectator areas
- Avoid fines



only 10

Panomera® systems



200 px/m

Min. resolution



15,000

Seats

Solution

- 10 Panomera® multifocal sensor cameras
- 200 px/ m minimum resolution
- 140 single sensor cameras for corridors, outdoor areas & entrances

Result

- Reduced total cost of ownership
- Less infrastructure
- Security situation always 100 % under control
- High-resolution and detailed camera images
- Reliable perpetrator detection



“Dallmeier’s sincere and collaborative approach, as well as the high-tech products were very impressive.”

Serkan Atalar, CEO von RESA Construction Electromechanical Inc. CO.





Like most stadiums worldwide, the Alsancak Mustafa Denizli Stadium suffers from vandalism and riots by individual fans. To be able to better identify and track perpetrators and thus reduce financial and non-material damage, the operator opted for a video security solution from the German manufacturer Dallmeier.

The Alsancak Mustafa Denizli Stadium in Izmir – named after former Turkish football player and current football coach Mustafa Denizli – is a multipurpose stadium that mainly hosts football matches. With over 15,000 seats, it is one of the medium-sized stadiums in Türkiye. Originally built in 1929, it was demolished in 2015 and reopened after reconstruction in November 2021.

Up to 15 % fewer spectators due to riots

In Türkiye, stadiums are usually owned by the Ministry of Sport, which then grants the rights of use to an operator. In the case of the Alsancak stadium, the operator is “Altay Izmir”, an Izmir-based football club that currently plays in Türkiye’s top professional league. The club, like so many other football stadiums, has had its fair share of repeated incidents and threats to spectators and players. These have included verbal abuse and even



Panomera® multifocal sensor camera

the throwing of objects onto the pitch. In addition to the intangible damage to the image, the consequences have been painful, ranging from traditional fines to the closure of an entire block of spectators – a loss of 1,000 to 2,000 spectators per home game, and that on a regular basis.

How is image quality defined to recognise perpetrators?

Under these conditions, the operators were looking for a solution that would allow them to reliably detect and track potential offenders. The tender specified a minimum resolution density of 144 pixels per metre (px/m), which



Each of the 15,000 seats in the Alsancak Stadium in Izmir had to be covered with a resolution density of at least 144 pixels per metre. With the Dallmeier solution it is almost 40 per cent more.



is also required by law. This means that there must be at least 144 pixels in the camera image to represent every metre of “reality” in the stands. This value is between the “recognition” (125 px/m) and “identification” (250 px/m) qualities specified in the IEC EN 62676-4 standard for video surveillance systems.

Only ten cameras to monitor the stands

To find the most suitable solution for the Alsancak Stadium, the Ministry of Sports decided to invite various manufacturers to a comparative test. After receiving the proofs of concept (PoCs) of several companies, the owner chose a solution from the German manufacturer Dallmeier electronic. In addition to around 140 single-sensor cameras for corridors, outdoor areas and entrances, only ten “Panomera®” multifocal sensor systems are required for the particularly critical grandstand surveillance.

39 % more resolution than required

The low number of camera systems required for grandstand surveillance is due to the patented multifocal sensor technology: Panomera® cameras combine the images from up to seven detail sensors and one overview sensor in a single camera system. This provides the user with a high-resolution overview of the entire area to be monitored, which acts as a single image of a vast environment. Within this overall picture, system operators can now open any number of detail views at the same

“The solution always gives them 100 % control of the security situation.”



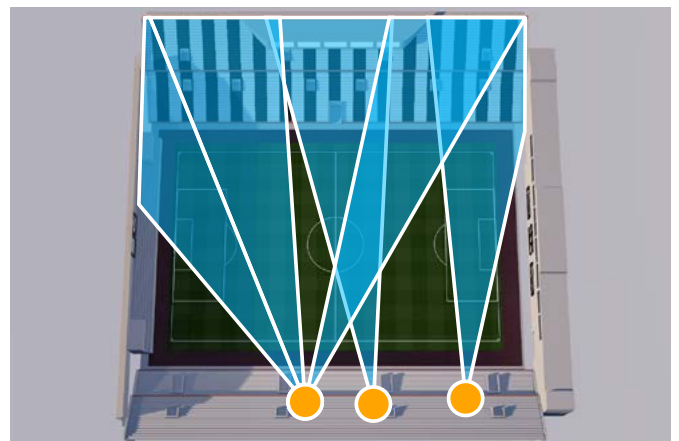
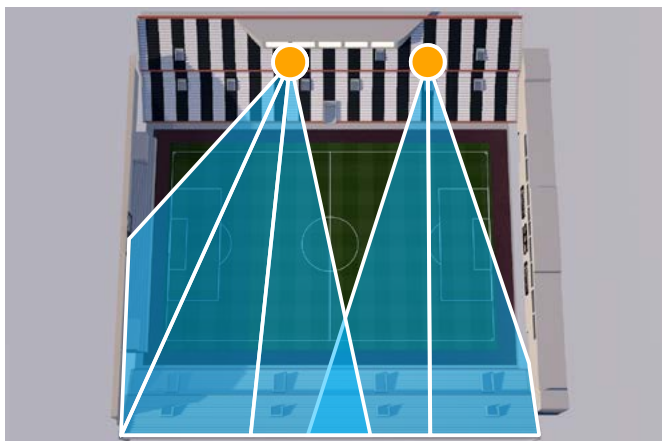
Serkan Atalar,
CEO von RESA Construction Electromechanical Inc. CO.

time, while the overall scene is always available in high resolution – even during recording, which is essential for possible prosecution. This provides an optimal overview of the situation and ensures that all events can be followed in real time, in high resolution and in detail. Thanks to this technology, a minimum of 200 px/m is now available throughout the Alsancak stadium instead of the required 144 px/m – 39 per cent more than originally required.

No surprises:

Remote “FAT” and training from Dallmeier Türkiye

Due to the COVID-19 pandemic, the stadium’s technicians were unable to travel to Dallmeier’s headquarters in Regensburg, Germany, to commission the system and attend classroom training. For this reason, the so-called Dallmeier Factory Acceptance Test (FAT) took place online. The entire system was set up, configured and remotely accepted in the FAT centre in Regensburg.



10 cameras in 5 locations are sufficient to cover the entire stadium with 200 px/m.



The Dallmeier Panomera® grandstand monitoring system combines any number of detailed views with an enormously large overall picture.

Test setup of operator workstations. Only three operators are required to monitor the entire grandstand.

The training of the technicians and operators was carried out by Dallmeier Türkiye experts on site. Serkan Atalar, CEO of RESA Construction Electromechanical Inc. CO, the installer company that implemented the project, is very pleased: “Dallmeier’s sincere and collaborative approach, as well as the high-tech products and after sale support they offered were very impressive. We thank Dallmeier Türkiye for the great cooperation.”

system operators with one monitor each. They also have two workstations for the police and management. The solution always gives them 100 % control of the security situation in the stadium, allowing them to react immediately and reliably track down perpetrators. And all this at a low total cost of ownership and with minimal manpower thanks to the unique multifocal sensor technology.”

“The customer is very satisfied with the Panomera® systems. The benefits are equivalent to combining a powerful megapixel camera with any number of high-resolution ‘virtual’ PTZ cameras. At the same time, the systems reduce the total cost of ownership for infrastructure, cables, masts, screens, workstations, etc.,” Serkan Atalar summarises “Alsancak Stadium only needs three



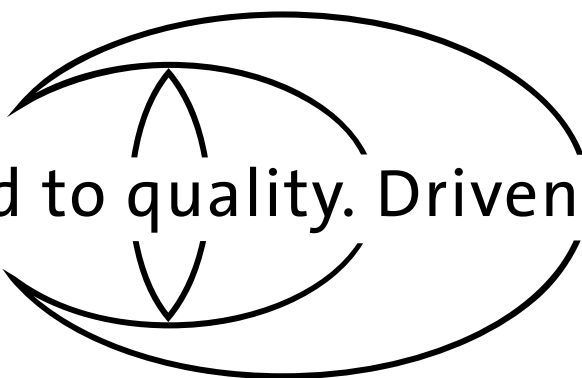
- [Case Study on Youtube](#)
- [Dallmeier stadium solutions](#)



Let's talk about your project!

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A large, stylized graphic of an eye, composed of two curved lines forming the upper and lower eyelids, with a central vertical line and two curved lines forming the iris and pupil.

Dedicated to quality. Driven by passion.

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