

EN

# Multifocal sensor system **PANOMERA®**



## Latest technology for stadium security

With the patented Panomera® multifocal sensor system, the German manufacturer Dallmeier, located in Regensburg, presents a completely new kind of camera technology. Panomera® enables the surveillance of large areas of the spectator stands from a single installation site and in an insofar unchallenged resolution.



### ALLIANZ ARENA MÜNCHEN

Date opened: 2005  
Capacity: 71,137 spectators  
Club: FC Bayern München  
TSV 1860 München

More information about  
the project:



#### Jürgen Muth, Managing Director Allianz Arena München Stadion GmbH:

*"The extremely high detail resolution, the capability of integrating our existing system, and particularly the intuitive operation of the system were the decisive factors for us in choosing Dallmeier. We are more than satisfied, both with the system and with the consulting support we have received from Dallmeier."*

Source: Arena München Stadion GmbH 07.08.2013



See more.



## OLYMPIASTADION BERLIN

More information about the project:

Date opened: 1936  
Capacity: 74,244 spectators  
Club: Hertha BSC



**Frank Neubauer, Technical Operation Management  
Olympiastadion Berlin GmbH:**

*“Due to the unusual long distances of up to 230 m in the Olympiastadion Berlin, the challenge was very great, even for such an innovative camera technology as Panomera. Yet, the Dallmeier technicians worked hard and finally created a solution for us which goes far beyond what would have been possible with conventional camera technology.”*

Source: Olympiastadion Berlin GmbH 31.01.2013

## RHEINENERGIESTADION KÖLN

More information about the project:

Date opened: 2004  
Capacity: 50,000 spectators  
Club: 1. FC Köln



**Ralf Remmert, Task Force Leader:**

*“Surveillance covers an entire section. We see a situation developing and then go in afterwards and we can see who committed a specific action. Then we zoom in closer.”*

Source: wdr.de 02.09.2012

**Hans Rütten, Managing Director of Kölner Sportstätten GmbH:**

*“We can now produce clear images with which we can prosecute incidents in court.”*

Source: ksta.de 08.12.2012

**Thomas Schönig, Judge and  
Head of the “Fan culture working group”:**

*“The new system helps us give criminal acts a face. We no longer have to penalise entire groups, punishments can be meted out to individuals.”*

Source: ksta.de 08.12.2012



**Christoph Seiler, Head of Building Services:**

*“We can zoom in from 280 to 360 pixels. A six times better resolution than before. The operation of the system is the responsibility of the police. The system can enormously zoom in on individual segments in the visitors’ and the home fans’ areas through the ball net.”*

Source: express.de 11.12.2012



## SIGNAL IDUNA PARK DORTMUND

Date opened: 1974  
Capacity: 80,645 spectators  
Club: Borussia Dortmund

**Andreas Wien, Chief of Police:**

*“This is a quantum leap! Now, we can identify individuals at a distance of 60 m using face recognition.”*

Source: bild.de 21.08.2012

*“BVB’s new video equipment has proven its worth impressively from the very first time it was used”, says Chief of Police Andreas Wien. “Both the equipment and good cooperation between the BVB and the police enabled us to investigate a suspect very quickly.”*

Source: reviersport.de 28.08.2012

**Hans-Joachim Watzke, Managing Director of BVB Borussia Dortmund:**

*“Our new camera is worth every cent.”*

Source: bild.de 28.08.2012

**Robert Grosch, Chief Inspector:**

*“We have also been using three high-resolution Panomera cameras since the beginning of the season [...] And the resolution of the new cameras is so high that we have obtained very good mug shots.”*

Source: derwesten.de 05.12.2012

## BORUSSIA-PARK MÖNCHENGLADBACH

Date opened: 2004  
Capacity: 54,010 spectators  
Club: Borussia Mönchengladbach

More information about  
the project:



### Stephan Schippers, Managing Director Borussia:

*"The feeling that you are no longer safe inside the football stadium must not be allowed to even arise here."*

*"This enables us to carry out full-coverage, legally admissible investigations."*

### Bernhard Nießen, Head of Stadium Operations:

*"This enables us to cover a broader spectrum and trace offenders more effectively."*

Source: [borussia.de](http://borussia.de) 12.07.2012

*"The new equipment provides us with the capability of detecting an incident faster and transmit the processed video recordings to the investigating offices of the police only a few seconds later. In some cases, offenders can be convicted or witnesses can be questioned, even while they*



*are still in the stadium. Initial tests carried out with these new cameras delivered outstanding results. Because of the high resolution, we are able to take a passport photograph of the offender, even from a hundred metres away."*

Source: [sicherheit.info](http://sicherheit.info) 07.08.2012



## BAYARENA LEVERKUSEN

Date opened: 1956  
Capacity: 30,210 spectators  
Club: Bayer 04 Leverkusen

More information about  
the project:



### Wolfgang Holzhäuser, Managing Director of Bayer Leverkusen:

*"Our video system enabled us to identify the troublemaker and remove him from the section."*

Source: [bild.de](http://bild.de) 15.12.2012

*"It is simply not acceptable that the majority of spectators have to pay for the annoyance caused by a very small number of violence-prone rowdies. This way, orderly football fans become part of collective punishment ('kin liability'). That is not fair. We are not going to stand for it."*

Source: [mopo.de](http://mopo.de) 30.08.2012

### Axel Hellmann, Member of the Executive Board Eintracht Frankfurt:

After the fireworks riots in the Eintracht block at the time of the 2-0 goal in Leverkusen, the police were able to identify 15 offenders. *"Thanks to the new high-resolution camera technology Panomera"*, states member of the Eintracht Executive Board Axel Hellmann. The new camera technology allows for *"razor-sharp images"*, according to Hellmann. Therefore, more offenders have been identified in Leverkusen than ever before.

Source: [Bild](http://Bild) 13.02.2013

## PETROVSKI STADIUM SAINT PETERSBURG

Date opened: 1925  
Capacity: 21,500 spectators  
Club: FK Zenit Saint Petersburg

### Yuri Fedotov, Deputy Head of Security of the FK "Zenit":

*"We are very satisfied with the cooperation with the company Dallmeier. The new system Panomera, which was put into operation in the 'Petrovski' stadium, has perfectly stood the test of time. Our football club is planning on installing this technology in the new Zenit stadium in St. Petersburg, as well. Thanks to our new video system, we have made a quantum leap in the battle against perpetrators in the stadium."*

Source: [FK "Zenit" St. Petersburg](http://FK 'Zenit' St. Petersburg) 18.02.2013





## JAHNSTADION REGENSBURG

Date opened: 1926  
Capacity: 12,500 spectators  
Club: SSV Jahn Regensburg

**Johannes Baumeister, Managing Director of SSV Jahn Regensburg:**  
"Being a team recently promoted to the Bundesliga Division II, we have a relatively small budget and are always striving for maximum efficiency. With the Panomera technology, we can provide surveillance of our entire visiting fans area with just a single camera, which enables us to unmistakably and quickly identify individual offenders if a serious incident occurs."

Source: SSV Jahn Regensburg 28.01.2013

## GOODISON PARK LIVERPOOL

Date opened: 1892  
Capacity: 40,221 spectators  
Club: Everton F.C.

More information about the project:



**Alan Bowen, Stadium Manager:**

"We are very confident that the complete solution inclusive of the Panomera multifocal sensor system being supplied by Dallmeier is the best we could find in the market at this time. The product gives us the maximum opportunity to identify those committing offences inside the stadium and will greatly assist in reducing crime and anti-social behaviour inside Goodison Park."

Source: Goodison Park in Liverpool 12.06.2013



## EINTRACHT-STADION BRAUNSCHWEIG

Date opened: 1923  
Capacity: 25,540 spectators  
Club: Eintracht Braunschweig

# PANOMERA®

Video surveillance without limits – unprecedented resolution in minute detail



- Zoom right down to the smallest details even at large distances
- Constant recording of the entire scene
- Real-time up to 30 fps
- Frame by frame playback
- Lower costs for infrastructure and maintenance



See the unique

**PANOMERA®**  
EFFECT

Further information to all of our products can be found at:

[www.dallmeier.com](http://www.dallmeier.com)

