**Increased safety for public transport organisation**

# Tram Depot Pilsen relies on Dallmeier video technology

**In Pilsen, the fourth largest city in the Czech Republic, the tram plays a vital role in public transport. With a 45% share, it is an important means of local transport within the city. The carriages are stored in a tram depot when not in use or for maintenance. In 2024, the completion of the new depot in Slovany marked a milestone, bolstered by advanced video security technology from Dallmeier, enhancing safety and security across the entire premises.**

**Meeting strict safety and security standards**

The project began with an extensive analysis of existing conditions and requirements for modernising the rolling stock to meet the latest safety and efficiency standards. This goes hand in hand with one of the main objectives, namely to increase the safety and security of the entire depot area plus the vehicle fleet, by using video surveillance technology. As part of the complete reconstruction of the Slovany depot, this requirement was met by the implementation of the patented [Panomera® technology](https://www.dallmeier.com/products/panomera-cameras) and the system's unique capabilities: Providing high image quality with the possibility to zoom in on details also at long distances, from a minimum number of installation points, which enables effective monitoring of large scale areas, like a tram depot.

**Precise planning eliminates blind spots**

In the past, PMDP, the public transport operator, tried to get a handle on the situation with a large number of conventional single-sensor cameras. However, the image quality was insufficient for recognising or even identifying people. Thus, the security managers looked for a new solution – and found it in Dallmeier's multifocal sensor technology. The implementation of the [Panomera® surveillance cameras](https://www.dallmeier.com/products/panomera-cameras) itself required careful preparation and coordination with many stakeholders. All parties involved, PMDP, the installer company Vegacom and Dallmeier, had to carry out a thorough analysis of the site, in the first phase of the project, in order to ensure optimal coverage of the entire depot area without blind spots. This included calculations of the optimal mounting height of the cameras, their distance and the setting of the viewing angles.

**3rd party integration**

Equally important was the focus on the technical aspects of the project, in particular the integration of the Panomera® system into the transport company's existing security infrastructure. It was essential that the new system was fully compatible with the technologies already in use, which required the development of specific software for managing and archiving records. New data networks and servers to process and store the huge amount of data generated by the cameras were also part of the project.

**Data protection and cybersecurity guaranteed**

As a public transport operator and therefore part of the critical infrastructure, particular attention was paid to protecting data, ensuring cybersecurity and securing the transmission network. For this reason, it was important to install a robust system that is resistant to unauthorised access to the recordings, for example. Under the motto [“Privacy and Security by Design”](https://www.dallmeier.com/products/privacy-security), the Dallmeier solutions offer a wide range of technical and software features to meet the requirements for data protection and cybersecurity.

**Immediate security incidents resolution**

The implementation of Panomera® technology also fundamentally changed the approach of PMDP, to monitoring the equipment and security of the area. Thanks to the wide viewing angle and high resolution of the cameras, it is now possible to monitor the entire area of the depot in great detail, while it is possible to immediately identify and solve almost any security incident or unusual activity.

**Added value for educational goals**

The project also included a training component for safety and technical maintenance staff. “The staff of PMDP needed to learn how to effectively use the new system to monitor and analyse data. This meant that one project focus was to use the video footage for training to identify potential risks and prevent potential safety hazards”, was the summary of Daniel Frous, Project Manager at Vegacom.

**Conclusion**

Although the project presented a number of technical and organisational challenges, thanks to the excellent teamwork and expertise of the specialists involved, it was successfully completed within the planned time frame. The result is a modern, safe and efficiently functioning depot, which is equipped with top technology for monitoring and securing the entire area.

The expected result from the company's management is both a reduction in the number of incidents and potential cost savings associated with better use of resources and damage prevention. “In conclusion, we can express full satisfaction with the progress and final result of the project”, summarises Jan Bajnar, Dallmeier Business Development Manager Czech Republic and Slovakia.

**+++ CAPTIONS +++**

**CaseStudy\_TramDepot\_Slovany\_Pilsen\_Building**

Panomera® cameras ensure security of the premises

*Photo credit: PMDP, a.s.*

**CaseStudy\_TramDepot\_Slovany\_Pilsen\_Depot**

The new tram depot in Slovany

*Photo credit: PMDP, a.s.*

**CaseStudy\_TramDepot\_Slovany\_Pilsen\_Depot\_inside**

A modern and secure tram depot

*Bildnachweis: PMDP, a.s.*

**Bajnar\_Jan**

#### Jan Banjar, Dallmeier Business Development Manager Czech Republic and Slovakia

*Photo credit: Dallmeier electronic*

**Panomera\_S\_Series**

Panomera® multifocal sensor technology for large scale areas

*Photo credit: Dallmeier electronic*

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In 1984, Dieter Dallmeier founded what is now Dallmeier electronic – not in the proverbial garage, but in a garden shed in Regensburg, Germany. Today, the company, which can justifiably call itself a hidden champion for video information technology “Made in Germany”, has several hundred employees worldwide, more than 250 of them at the company headquarters in the centre of Regensburg alone.

**Our customers: From commercial enterprises to World Cup stadiums**

Dallmeier's camera, recording, software, and analysis solutions optimise security and processes for B2B end customers in a wide range of industries in over 60 countries. The focus is on users from the casino, smart city, airports, logistics, stadiums, and industrial sectors. But also, banks, critical infrastructure facilities as well as medium-sized companies from all sectors.

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With pioneering innovations, Dallmeier has succeeded time and again in placing itself at the forefront of technology: From the world's first digital image storage system with motion analysis in 1992, the patented “multifocal sensor technology” Panomera® with its “Mountera®” mounting system, to the latest Domera® camera family, which allows up to 300 camera variants with only 18 components. These and many other innovations provide real, tangible customer benefits. And with a low Total Cost of Ownership (TCO) and a high Return on Investment (ROI) they can easily compete with systems produced and supplied from low-wage countries.

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