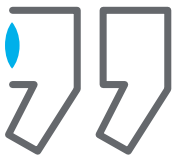


SECURITY AND DATA MANAGEMENT SOLUTIONS FOR  
**CITIES**



# DALLMEIER SECURITY AND DATA MANAGEMENT SOLUTIONS FOR **CITIES.**



EVEN AT DISTANCES OF 150 TO 200 METERS, INDIVIDUALS CAN STILL BE IDENTIFIED EASILY, INCLUDING AT NIGHT.

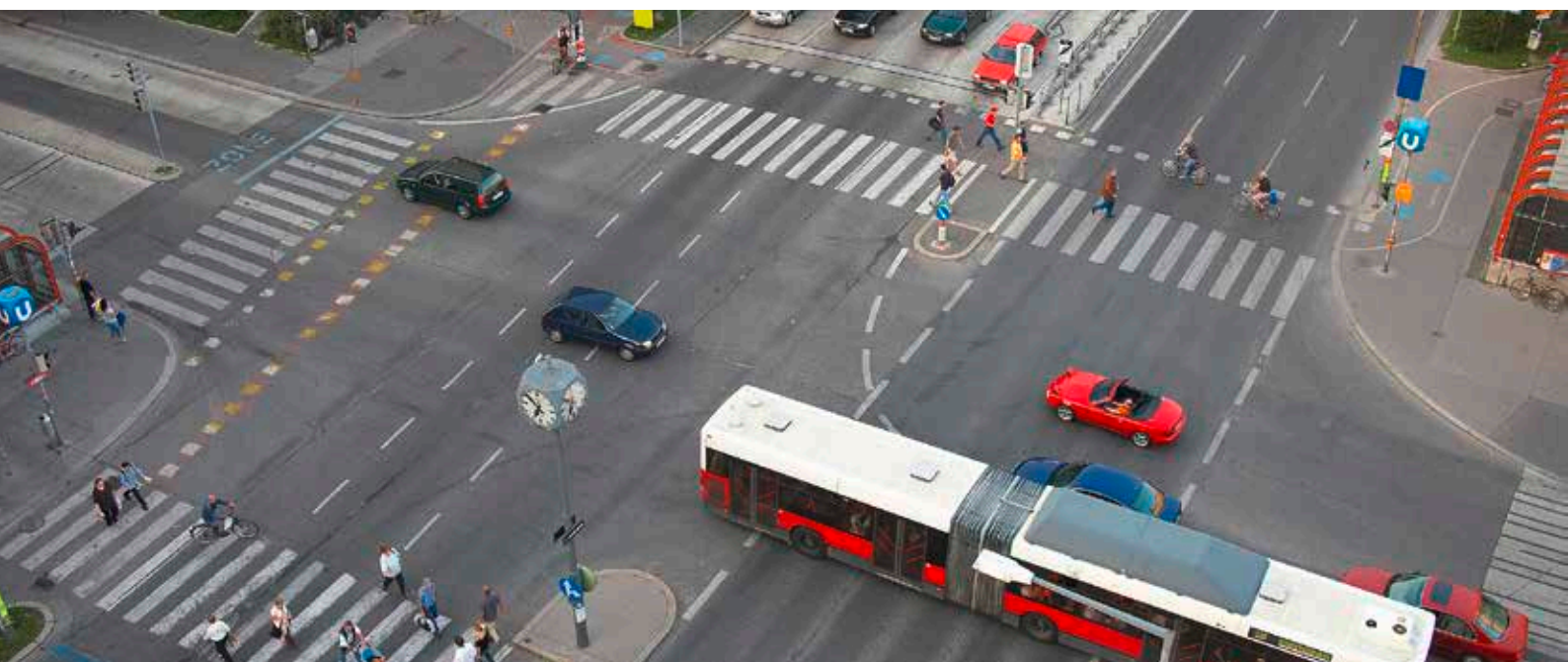
LARS LINDEMANN, SPOKESMAN OF THE ESSEN POLICE DEPARTMENT

## **FROM THE VIDEO IMAGE TO ANALYSIS AND DATA MANAGEMENT**

Technical development in the “Safe City” area is currently undergoing enormous change: Conventional video security technology is evolving inexorably into an all-round tool. Of course, the greatest attention has been concentrated on new analysis capabilities offered by the use of artificial intelligence (AI) and technologies such as facial recognition, but also imageless data collection for generating anonymised data. This has opened the way for entirely new options for using video technology as a data supplier for “Smart City” applications.

## **CAMERA TECHNOLOGY, RECORDING, ANALYSIS AND MODULAR MANAGEMENT SOFTWARE**

Dallmeier has enjoyed a worldwide reputation as an innovative solutions manufacturer in video security for over 35 years. The company combines its patented Panomera® camera technology with the most advanced AI-based video analysis methods. A modular system of software components enables the configuration of high-level security and data management systems for widely diverse tasks: in support of emergency personnel, for situation assessment or for automated incident management, to speed up processes and simplify work steps through digital investigation files and semi-automated further processing, for example.





[Link to video documentation](#)

Source/Photo: Der Westen, Peter Sieben

### **PANOMERA® FOR SEAMLESS CAPTURE OF LARGE SPATIAL CONTEXTS**

Panomera® is the patented multifocal sensor technology from Dallmeier and has been implemented in many airports, stadiums, cities, seaports and other critical infrastructures all over the world since 2011. The unique feature of Panomera® is its ability to capture large expanses in hitherto impossible resolution and in large spatial contexts. The system requires the use of far fewer cameras than comparable combinations consisting of megapixel and PTZ cameras. For the operating personnel, this means a significantly smaller number of monitors and greater operating comfort, while for the operating companies infrastructure expenses are reduced considerably, resulting in substantially lower total costs.

### **AI ENABLES "SMART" ASSISTANCE SYSTEMS**

The hype surrounding artificial intelligence engenders high expectations everywhere regarding the capabilities to which this technology gives access, precisely in the Safe City area as well. The need to provide decision makers with help in making a realistic evaluation is

therefore greater still: What resources are available for intervening in fact when suspicious movement patterns are observed on the video, for example? Do the necessary legal framework conditions even exist? What happens, for example, if an incident is not detected despite the presence of a AI system? What are the consequences for issues of data protection and data security? If these questions have been resolved, even today AI-based systems already offer a wide range of capabilities for supporting emergency response personnel with intelligent prior selection of situations, through people counting, with automatic object tracking or forensic evaluation.

### **DATA PROTECTION AND DATA SECURITY "MADE IN GERMANY"**

When video and data management technologies are used in public areas, of course particular importance is attached to questions of data protection and data security. In this context, Dallmeier relies on its extensive fund of experience as a German manufacturer and equips its technology components with the very latest data protection and data security functions. This in turn ensures that they

will conform to data protection and GDPR requirements when implemented in the most diverse scenarios, and that the subject of "cybersecurity" is still addressed with the very latest state of the art.

### **CONSULTING, 3D PLANNING AND SERVICES**

Every Dallmeier City project is preceded by an optional consulting process, in which our customers benefit from our many years of experience with municipal contracting authorities all over the world. A detailed planning process with individual 3D simulations guarantees that the customer's requirements are defined precisely in advance and fulfilled just as exactly upon completion. The system is not shipped until it has undergone a complete, uncompromising test run in the Dallmeier Factory Acceptance Test Centre. A customised Dallmeier service and support package ensures trouble-free operation after implementation as well.

# SECURITY AND DATA MANAGEMENT SOLUTIONS FOR CITIES.


**Interfaces to other areas of critical infrastructure:**



- Solutions for cultural institutions, energy suppliers, perimeter protection, stadiums, airports, public transport
- State-of-the-art interfaces (e.g. RESTful API)
- Web service-based for easiest integration into existing systems (e.g. control rooms)



**3D-Smart Viewing:**



- Capturing large expanses and spatial contexts
- Video surveillance with significantly less screens
- Modern, user-friendly and efficient operating concept
- Exactly definable pixel density across the entire area ensures usability in court and sufficient data quality for AI / analysis systems



**Safe City-Manager:**



- Deployment and management of emergency forces through software support
- Modules for data capture and data management to support control room systems
- Supporting investigation processes with digital incident files
- Use of camera systems as "smart optical data sensors" to support Smart City applications




**Data protection / data security:**



- Innovative 3D planning takes data protection concerns (e.g. GDPR) into account from the very beginning of the project
- Most comprehensive portfolio of data protection functions: From pixelation to the "four-eyes"-principle
- Highest standards in cybersecurity
- Anonymisation of data




**People Counting & Crowd Analysis:**



- Heat maps for public places, major events, railway stations, etc.
- Alerts for defined "density levels"
- Integration of data into control desk systems etc.
- "Predictive analytics" for shortened reaction times and operation support



**AI-based assistance systems:**



- Increased operator efficiency
- Forensic analysis
- AI-based object recognition and image analysis for pre-selection of alarms
- Automatic object tracking across multiple cameras
- Coordinated complete systems: from resolution density and image quality to the neural networks



See more.



Dedicated to quality. Driven by passion.

Dallmeier electronic GmbH & Co.KG  
Bahnhofstr. 16  
93047 Regensburg  
Germany

Tel: +49 (0)941 8700-0  
Fax: +49 (0)941 8700-180  
[info@dallmeier.com](mailto:info@dallmeier.com)  
[www.dallmeier.com](http://www.dallmeier.com)