

City surveillance

Dallmeier CCTV/IP solutions for urban areas



Protecting and safeguarding citizens is an increasing issue for towns and cities. Many communities round the world are already using modern CCTV/IP solutions from Dallmeier. Their requirements are varied but are always aimed at achieving an extensive, tailor-made all-round solution to meet the highest quality and security requirements. Besides excellent picture quality and easy operation, the number one demand is for compatible and flexible system architecture to enable easy integration into existing security management systems.

Situation



Deterring crime and vandalism as well as protecting against terrorism are the catch words which are becoming more and more important for town and community leaders. For monitoring public places analogue systems are increasingly being replaced by digital ones. This is in order to make the monitoring and evaluation of events and the necessary responses more reliable, faster and more efficient.

Virtual Matrix

Dallmeier's product range includes the latest solutions for almost every requirement in the field of CCTV monitoring. To ensure maximum security individual solutions are produced using the Virtual Matrix with multiple Intelligent Video Analysis Systems (e.g. NPR, object recognition, etc.). Dallmeier's Virtual Matrix enables the transmission and recording of video and audio signals in broadcast quality via an Ethernet/IP network. Using this technology in DIS units an unlimited number of cameras can monitor public places with their pictures recorded and if necessary sent via IP network. Owing to the MPEG-2/MPEG-4 compression used, the camera pictures are transmitted in real time, top quality and full picture rate. The system architecture also allows an easy control of PTZ cameras.



Pictures are recorded in a ring memory which is automatically over-written after a defined period (e.g. 14 days). Event analysis is very quick and efficient because of the use of customer-specific user interfaces, which are complemented with the most appropriate operating devices such as keyboards (e.g. PTZ control) or jog-shuttles (e.g. replay control).

Intelligent Video Analysis Systems support the monitoring tasks in various fields. These can classify objects and respond appropriately, triggering events when necessary (e.g. switching cameras, raising the alarm). With the help of NPR vehicles can be identified and the appropriate data be further processed (e.g. entry/exit authorisation in car parks).

Integration in higher level management systems

The pictures are analysed in specially equipped security and control rooms. How alarms are dealt with is carefully regulated between the control centre and the police to ensure that they are handled punctually and in a coordinated way. This requires flexible system design, so that the system can be expanded at any time and so that it is possible to add further alarm systems or integrate it into a higher level management system.

Hybrid solutions also possible

Thanks to Dallmeier's flexible system architecture, any existing analogue system can be replaced by digital on a step by step basis. This kind of hybrid solution enables the digital upgrading project to be carried out in several stages as determined by need and budget.



Positive resonance

Dallmeier systems have already proved themselves in many cities where the number of recorded offences in the monitored areas has been reduced significantly.

Areas of use:

Road and traffic monitoring:

- Crossings
- Tunnels
- Bridges
- Access roads

Public building protection:

- Perimeter monitoring
- Interior monitoring

- Access monitoring

Car parks, car park buildings:

- Access control (NPR)
- Parking floor surveillance
- Counting (occupied/vacant)
- Camera sabotage recognition

Public transport:

- Stations, underground railways (platform monitoring, object detection)
- Train/tram stops
- Passenger/footfall counting

Shopping centres, arcades, promenades, pedestrian precincts