

## **Monitoring system in the city of Poznań**

In modern times we are dealing with many vision systems. Vision systems specialty is conducted by the Division of Signal Processing and Electronic Systems, managed by Professor Adam Dąbrowski. Considering the location of the Division in the city of Poznań, it is worth describing the city's video monitoring system. The information below comes from the city's official website available at the link: <http://www.poznan.pl/mim/main/system-monitoringu-wizyjnego-miasta-poznania,p,1443,1743,1744.html>.

Video monitoring was considered to constitute, among others a tool that increases the chance of detecting crimes and offenses as soon as they are committed, and a preventive tool. In 2000, the Poznań city together with the Police took an initiative to improve public security, consisting in building a video monitoring system in the city.

According to the adopted concept, video monitoring gradually covers areas considered dangerous, with particular emphasis on pedestrian routes, intersections with heavy traffic, viaducts and public transport stops. These places are selected by way of common arrangements of the city authorities with representatives of services responsible for public safety and order as well as representatives of auxiliary governments. The expansion, reconstruction, modernization and ongoing maintenance of the video monitoring system owned by the city of Poznań, are financed from the city's budget.

Currently, there are more than 700 cameras operating within the Poznań video monitoring system. There are three types of cameras installed in the system. PTZ cameras with control and fixed cameras without control enable identification of people both during the day and at night. Additionally, since 2016 panoramic cameras (360-degree view) have been installed to ensure full-space observation in order to record the road events (cameras, however, present a small amount of detail).

The images from cameras are viewed and analyzed by employees of special points - Supervision Centers. They can control all PTZ cameras from any Center. There are 6 Supervision Centers established in the police stations, in which monitoring is monitored by employees of the Municipal Police. In addition, the images from the cameras reach: Municipal Police Headquarters, ZDM Traffic Control Center, MPK Traffic Control Center, Crisis Management Center and the headquarters of the City Guard. Image transfer to any center is possible thanks to the use of the Technical Security Systems and Public Order Infrastructure and Video Monitoring of the City of Poznań. Video footage from cameras is archived for 33 days in the system by the Poznań City Hall.

The measurable effect of the already implemented system is, among others: decrease in crime, general decline in vandalism in all monitored areas, frustrating attempted fraud insurance claims, decrease in pickpocketing, the opportunity to obtain evidence in the event of a crime, and increased sense of security among residents. The city video monitoring system is an effective tool in the fight against crime and brings satisfactory results.

Therefore, the city's video monitoring system is an example of a video system that allows to increase the overall security of citizens. It can be stated that the vision systems are of great importance in the modern world.