

## City surveillance in high resolution.

The video surveillance of Novi Sad with 1000 Axis network cameras and HDTV resolution has successfully decreased criminal activity and enhanced traffic logistics.



Organization:  
City Novi Sad

Location:  
Novi Sad, Serbia

Industry segment:  
City surveillance

Application:  
Public safety and security

Axis partners:  
JKP Informatika,  
IP WAY d.o.o., Aimetis

### Mission

City development and urban planning require a high level of commitment and simultaneous deployment of all available resources. The City of Novi Sad requested a proposal for the procurement of an IP video surveillance solution that would be flexible enough to efficiently perform precise video monitoring of public places both day and night.

The main objectives of the Novi Sad City surveillance system were to increase the common citizen's security by monitoring educational institutions (pre-school, school and university campus), as well as surveillance of the most important city infrastructures. Not only was a centralized event management software solution with real-time information alerts and on-demand reports required, but the provision of HDTV quality network cameras was of equal importance.

### Solution

In order to provide this solution the City of Novi Sad was equipped with Axis network cameras and Aimetis software for advanced video management and analytics.

Due to innovative, leading technology and the widest camera model portfolio, Axis was chosen as the only network camera manufacturer which completely covered all the requirements and specifications of this city surveillance project. Based on its seamless platform of video management and market-leading analytics, innovative licensing and easy-to-use interface, Aimetis Symphony was used for central management of the IP video surveillance system and video analytics. This state-of-the-art intelligent software along with Axis HDTV network cameras made the IP video surveillance system much easier to use.

### Result

Novi Sad made it clear that the safety of citizens right down to the youngest child was top priority. The implementation of IP video surveillance in the city of Novi Sad rationalized the use of existing resources, improved city traffic logistics and enhanced the safety of the citizens.

"Over the past few years we have been very busy with the realization of ICT infrastructure for the City. Now that this vast job is finished we have an optical network infrastructure right across Novi Sad. IP video surveillance with Axis network cameras was the next step in exploiting the full possibilities of this existing network. It is a huge benefit that the city of Novi Sad now has a centralized video data center which is able to effectively conduct traffic and citizen safety everywhere."

Vladimir Knežević, Chief Technical Officer, JKP Informatika Novi Sad.

### New challenges

For the first time in the history of city urban planning in Novi Sad, IP video surveillance was introduced as an infrastructural and integral planning component.

Video surveillance of large, open places such as major traffic intersections, university campuses and city squares, requires a superior camera. The cameras need to provide HDTV megapixel resolution, 16:9 aspect ratio and day/night functionality.

### System scalability

JKP INFORMATIKA installed approximately 1000 Axis network cameras across the town's optical network ring. The city surveillance system was designed from the very beginning to be extremely flexible and scalable. Due to different location specifics, and variety of outdoor lighting conditions a very special solution was deployed.

The wide Axis product portfolio demonstrated the full potential that IP technology could offer. The IP video surveillance system based on Axis network cameras was the perfect solution for securing city areas where greater image detail is essential.

With HDTV resolution and individually configurable camera frame rates, the City of Novi Sad has achieved a precise and well optimized video surveillance system, with the possibility to scale upwards in the coming years.

With the Aimetis licensing model, by being able to mix and match the use of both Enterprise and Professional licenses and to add required number of licenses when needed, City of Novi Sad definitely invested in well optimized and smart-scalable IP video surveillance system.

### Data and video monitoring center

For the purpose of storing video data, centralized event management and faster onsite response, Novi Sad constructed a data and video monitoring center based on the latest technology standards.

The use of Aimetis software, the market leader in IP video software solutions, insured that the video analysis was successfully integrated as an important part of the data and video monitoring platform.

Along with the centralized management, Aimetis provided real-time information alerts based on multiple applications such as: motion tracking, object classification, people/vehicle counting, virtual fencing, left/removed objects, dwell time, and auto-PTZ tracking.

Close cooperation with the Novi Sad police department lead to forming another data and video monitoring center in police headquarters. This way the police can always oversee important city areas and can intervene more efficiently.

"Axis network cameras with HDTV resolution were definitely a justified investment. Today Novi Sad has a significantly high level of public safety and improved city logistics. The state of the art technology that we have implemented is now a representative example of good city surveillance for all the cities in the region," says Vladimir Knežević, JKP Informatika

The city video surveillance of Novi Sad with approximately 1000 Axis cameras represents a milestone in the safety of citizens and a vast improvement of city logistics matters.

This successful city surveillance project with Axis network cameras will be an exemplary model for other city governments who are striving towards better city development and growth in the future.

