ERANDO

Public Surveillance and Automatic License Plate Recognition Systems

ERANDO
Security Consulting and Trading Ltd.

The most important tool of public security and traffic is the surveillance camera. With the appearance of modern video surveillance systems, responsible security leaders recognized that although the cameras don't render the police unnecessary, but they provide great help in detecting and responding quicker, hence supporting crime prevention.

Public Security

The tranquility of the population, the defense of public property are the responsibility of the local governments, which try to improve the efficiency of the police and crime prevention by installing public surveillance systems. The legal usage of these video surveillance equipment Act LXIII of 1992 on the Protection of Personal Data and Act CXXXIII of 2005 on Personal and Property Security and Private Investigation Activities, doesn't violate the citizen's rights in any way, so the people quickly accept it, and realize the opportunity, that state of the art surveillance technology can help a lot to protect the possessions, wealth and personal safety of the law abiding citizens. ERANDO Ltd. has the professional experience and knowledge which gained during the construction of CCTV networks, and can meet to the demands of the public video surveillance systems. It is essential to realize highly reliable, industrial grade systems, because it is necessary to ensure a stable robust and continuous operation in extreme conditions and environmental impacts in case of outdoor city surveillance. Nowadays state of the art city surveillance systems are IP-based systems. IP technology is the main focus of the security industry. The transmission network of IP-based systems and therefore the surveillance systems are expandable with virtually no limits.

License Plate Recognition

Special, license plate capture cameras are able to capture the license plates of moving vehicles, without disturbing the traffic, even on highways. The special character recognition algorithms are able to recognize the license plate up to 99% accuracy. It is possible to find the vehicle in the recording based on some part or the whole of the license plate, the color of the car or the date. Based on government or police databases of incriminated vehicles, the stolen, wanted, deregistrated vehicles or the ones with expired MOT test could be automatically found.

Unified Emergency Call System

Our company was the integrator of the interconnection of the city surveillance systems in the Unified Emergency Call System (112). The officers of the national and county police-offices can access almost 1700 surveillance cameras, even control them, so they can respond quicker and more efficiently to people's emergency calls

Nature

A limitless possibility of the IP-based technology is characterized by the Kis-Balaton Nature Reserve where a bird monitoring system was implemented.

References

Budapest – District X, XIV, XVI, XX, XXI
Cities – Cegléd, Érd, Kis-Balaton, Miskolc, Monor, Ózd, Pilis, Paks, Pusztazámor, Törökbálint, Dunaújváros, Csömör, Tarnalelesz, Szentdomonkos
State Motorway Management Plc.
Unified Emergency Call System
Hungarian State Railways

Professional Displays

The IP-based CCTV systems get over the limitation of image displaying. Broadcast grade devices are used to provide real time experience for the security system operators. For SOHO applications normal LCD or plasma displays are used, while for professional applications 50-80" DLP displays are used, which can be build up 5-10 meters large monitor walls.

Technology

ERANDO Ltd. designs and installs systems for 15 years in the security market. Over the past decade, we have always used the latest and the most advanced surveillance devices. We built CCTV systems from small buildings to large industrial sites, even high-voltage areas, where special devices are required and strict regulations have to be complied.
ERANDO Ltd. has built a high-speed wireless network over Budapest, which is reliable and able to transmit high-speed video streams. Some links of the network backbone have 200 or 400 Mbps bandwidth.

Service

ERANDO Ltd. uniquely provides real-time monitoring for the installed video surveillance systems. This is similar to the so-called network management service, applied in state of the art IT systems. The central monitoring server running the monitoring software simultaneously collects and verifies data from all areas of the country. Thus all status information of each camera can be monitored. Any changes in the data are displayed in real-time, and the system immediately sends SMS and e-mail message to alert the service staff. Using this feature, we can ensure more than 96% availability of all IP-based surveillance systems.

Due to the architecture of the network new surveillance cameras or control centers can be added to the system. Modern IP encoders can transmit 4 Mbps bit rate MPEG4/H.264 compression video streams, which ensures DVD quality images to be displayed on the monitors. Using WAN or WLAN the camera images could be available from all over the world. Central NVRs can record each camera with 25 fps. In the control room we use large LCD screens to display images of the most important camera. The room is designed according to constructional and ergonomics safety regulations.

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