

## Building an intelligent airport in Donetsk, together with Axis. Axis IP cameras help make A Class airport security system more effective and safe.



Organization:  
Donetsk S. S. Prokofiev  
International Airport

Location:  
Donetsk, Ukraine

Industry segment:  
Transportation

Application:  
Airport safety and  
security

Axis partner:  
DICS, IQTrading,  
Milestone

### Mission

At the turn of the 21<sup>st</sup> century, Donetsk, Ukraine, faced the question of building a strategic aviation facility in the Eastern Europe able to accept all types of aircrafts and to provide high quality service. The local authorities made the decision to realize large-scale reconstruction of Donetsk Airport which became an object of strategic importance within the frame of preparation to UEFA EURO-2012 in the Donetsk region. Main objectives set before the modern system of monitoring were as follows: operative surveillance over protected area, buildings and premises, use of access control with the system, possibility of video feed from cameras to computer monitors of the authorized employees via local network as well as Internet, and full personal identification under ISO/IEC 19794-5:2005 Standard.

### Solution

Installation of the video surveillance system was entrusted to the system integrator, DICS. After thorough investigation of the security video surveillance market, DICS specialists decided to realize this system based on Axis cameras meeting all requirements of the project and efficiently interacting with the Milestone XProtect® software. About 600 Axis network cameras were installed to cover the airport, as well as around the perimeter.

### Result

The installation of the security system based on Axis cameras provided Donetsk Airport with a modern and qualitative system satisfying all requirements of the A Class airport. Donetsk Airport can easily set up the security system depending on its current needs, getting access to more and more detailed information, which allows control and answers to questions as they arise.

“Thanks to the video surveillance system based on Axis cameras, Donetsk International Airport can duly and to a good quality satisfy needs of its passengers and employees. Now reliability and efficiency indicators exceed similar indicators of the leading airport terminal complexes.”

V. M. Shinkarenko, Deputy Director General on Aviation Security, Donetsk S. S. Prokofiev International Airport.

### Solution for the airport terminal complex

In April 2012, before hosting UEFA EURO 2012 in the Donetsk region, the A Class aviation complex was opened, able to process up to 3100 passengers per hour and freight storage per 300 tons. It is natural that a high-quality security system was required for such a large-scale complex.

Axis megapixel cameras are being used in the main areas of the airport terminal complex and operators of the system can promptly react to any incidents and, if necessary, additionally use PTZ functions of the Axis cameras to obtain more detailed images.

Two systems of video surveillance were installed in the airport terminal complex: one for the Aviation Security Service and the other for the Border Control Service. The systems are independent, but at the same time they are integrated to control general areas and to solve similar issues.

A video wall of 10 monitors was installed during the project as well, and surveillance operators can promptly react to any incidents and identify violations involving both passengers and employees. 10 working places are distributed throughout the airport terminal complex.

### Integration with other systems

First, it was decided to integrate the video surveillance system and access control system from Dorma using software from WinGuard.

Integration of the video surveillance system and access control system provides passive monitoring of the protected areas, as well as properly preventing unauthorized persons activating automatic doors, turn gates and other equipment of the access control system. It is also possible to pinpoint all events on video, and then store images in the data archive and, if necessary, produce them quickly at any time.

Integration of the video surveillance system with the fire and security alarm is also in progress. Operation of the fire fighting system sensors is securely duplicated due to Axis cameras capable of recognition of smoke, fire and other risk factors. It is possible to realize evacuation of people and provide quick response from emergency. In addition, the system allows vehicle license plate recognition to ensure traffic control and integration with the parking system.

