

## Axis network cameras monitor flight safety.

Axis cameras ensure aviation safety at Sheremetyevo International Airport.



Organization:  
Sheremetyevo Airport

Location:  
Moscow, Russia

Industry segment:  
Transportation

Application:  
Airport safety and security

Axis partner:  
LANIT

### Mission

Ensuring the safety of passengers and visitors is Sheremetyevo Airport's number one priority, which is why it devotes significant energy and resources to developing a video surveillance security system. In doing so, it is essential to be able to integrate new equipment into the existing infrastructure.

In addition to enhancing security functions, the airport is also developing an integrated surveillance system for monitoring passengers and operational processes aboard aircraft.

### Solution

The existence of a sophisticated network infrastructure makes it essential to develop a video surveillance security system. The most important features required are integration capabilities, image quality, simplicity of servicing the equipment, and further scalability. Based on these requirements, Axis cameras were chosen in conjunction with the system integrators.

Currently, there are approximately 200 Axis cameras installed at the airport terminals, namely consisting of the following models: AXIS 209FD, AXIS 211, AXIS 215 PTZ, AXIS 216FD, AXIS P1343, AXIS M3203, AXIS M3204 and AXIS Q6032.

### Result

To meet the security requirements of a modern airport, a reliable system that operates 24/7 was installed and is used both in security systems and operational process control systems. In essence, currently there are two independent systems operating at the airport, a security and an operations processing system, which operate simultaneously using a single camera system.

"We believe the main advantage of using Axis equipment is that it is very reliable. In fact, all the video cameras we use are durable. It is important to me, as the IT systems department manager, that the Axis cameras operate without breaking down, that they are user-friendly and not overly complicated to operate or require frequent servicing."

Dmitry Yevgenievich Rybtsov, department manager on the Information Technology Managerial Board of Sheremetyevo International Airport.

Sheremetyevo International Airport is Russia's largest and busiest airport based on the number of regular international flights operating there. Sheremetyevo is recognized as the best airport in Europe, in terms of the quality of passenger service, based on 2012 results of the reputable ASQ (Airport Service Quality) program run by Airports Council International (ACI).

Sheremetyevo Airport is the country's largest aviation transport complex in terms of area (six passenger terminals covering a total area of approximately 124 acres). More than 26 million passengers use the airport each year.

Sheremetyevo closely monitors the level of security to ensure that the airport is run efficiently. There are now more than one hundred modern systems installed at the airport to provide security and manage business processes, and to monitor quality assurance, operations and human resources. To this end, the video surveillance system plays a significant role since, used in conjunction with a multilevel automatic luggage inspection system, it enables programming the settings in order to detect potentially dangerous items.

### Video surveillance, security and more

Sheremetyevo is developing a single transport network infrastructure with the capacity to accommodate large volumes of traffic and the possibility of further upgrading its video systems. To achieve this aim, the airport has carefully selected the specific IP solutions it requires for its video surveillance infrastructure.

Ever since the airport first began using video surveillance, it has served not only as a security system, but also as a means for controlling operations such as check-in, boarding, luggage loading control, etc., at all stages of aircraft servicing.

In this way, a comprehensive infrastructure has been created: IP cameras generate a single video stream, which is then processed by two systems (security and operational) according to required tasks and algorithms.

A large archive with a rapid search functions, video analysis capabilities, and integration of the video system with other elements of the security infrastructure is important.

The ability to monitor the various technical processes relating to passengers and aircraft services, in real time and using various mobile platforms, is a very valuable feature of the surveillance system.

Axis equipment has proven to be a reliable, flexible and functional solution in meeting this objective.

