

# Axis network cameras for intelligent maternity care.

Implementing video surveillance in the Primorsky Regional Perinatal Center.



**Organization:**  
Primorsky Regional Perinatal Center (PRPC)

**Location:**  
Vladivostok, Russia

**Industry segment:**  
Healthcare

**Application:**  
Safety and security

**Axis partner:**  
Ekker Ltd., ISS

## Mission

The Primorsky Regional Perinatal Center is a leading healthcare facility located in Vladivostok, providing care services for women during pregnancy and child-birth. The Center is fitted out with cutting-edge treatment and diagnostic equipment and widely known for its professional approach even to high-risk patients. Security in such a facility is certainly one of the highest priorities that can be supported now by intelligent network cameras with analytic capabilities.

The implementation of the video surveillance solution in the PRPC was also challenged by severe climatic conditions in this region: outdoor cameras should withstand strong winds and snowfalls in the wintertime, high humidity in the summertime and the temperature range of -35 °C to +30 °C.

## Solution

The customer decided to install Axis IP cameras and midspans (power supply units for cameras with PoE) due to their numerous advantages, including sophisticated technologies and high reliability, high resolution, low maintenance costs, scalability and integration into a common Structured Cabling System (SCS) and LAN. Moreover, this Axis solution was selected due to its enhanced analytical capabilities, including motion detection, cross line detection, etc.

## Result

Today, the entire area of the Center and adjacent areas are securely monitored by the video surveillance system, both indoors (entrances, corridors and critical areas) and outdoors (perimeter and gatehouse). Also, Axis PTZ cameras are installed in all critical elevations. Video streams from all monitored areas are broadcast to security rooms, archived and may be promptly retrieved when necessary.

**“The executives of the Healthcare Department in the Primorsky Region have set high requirements for the video surveillance system in the PKPC, i.e. reliability and long lifetime, ease of use, adaptation to specific climatic conditions, and minimum maintenance costs. All these requirements were met at the design and installation stages, and today we negotiate with our Customer about further expansion of the existing system: how to increase the number of cameras and more intensively use their analytic capabilities.”**

**Alexey Sevostyanenko, Technical Director, Ekker Ltd.**

### Implementation features

Originally, the main reason for implementing a network surveillance system in the Center was to comply with inside and outside security and safety requirements. This high-performance system must operate continuously and trouble-free in severe climate conditions, which means both failure-free operation and sustained high video resolution.

Eventually, new advantages of the network devices with analytics capabilities became apparent. First, these are built-in camera functions, including Gatekeeper (the camera moves and tracks a moving object), Cross Line Detection, auto alarm in case of vandalism, etc. Also, the Axis open platform provides the ability to install numerous video applications. These functions are intended to apply in the future.

### System control

The SecurOS software package developed by ISS was selected as the system core since it is fully compatible with the Axis software and provides a flexible system expansion. This solution provides archiving, monitoring and centralized control of PTZ cameras from a single workstation.

All outdoor cameras are supplied via AXIS T8123 High PoE Midspan 1-port because of high power supply requirements and long cables. This is an innovative technology (Power over Ethernet) that requires no power cables and that supplies power to Ethernet devices using twisted pairs. Thus, time and money is saved on camera installation operations.

The Axis network cameras feature autofocus and back-light compensation functions, as well as automatic date and time settings over the DHCP protocol.

### Further development

According to the PKPC's representative, Ekker Ltd., a partner of Axis, paid attention to all the details during the design and installation of this new surveillance system. This is the reason why no incidents have occurred since the installation of the network cameras. Operators monitor the situation from the central security station while senior managers can retrieve any archived video records and view them in HD. After the available intelligent system functions are used more intensively, the Center's personnel will be able to focus on critical areas and entrust the Axis cameras with everything else.

The Primorsky Regional Perinatal Center in Vladivostok has gained an excellent reputation among its patients; the Center intends to go further and install additional Axis cameras.



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