

## Monitoring of branch companies with IP cameras from Axis.

Deploying video surveillance system for multi-location company Turkuaz Machinery.



**Organization:**  
Turkuaz Machinery

**Location:**  
Almaty, Kazakhstan

**Industry segment:**  
Industrial

**Application:**  
Anti-theft surveillance,  
safety and security

**Axis partner:**  
Zhedel Information  
Systems, Netavis, RRC

### Mission

For over a decade Turkuaz Machinery, which is a part of Turkuaz Group, is involved in delivery and servicing of special-purpose machinery for the largest oil and gas, mining, building and agricultural enterprises of Central Asia. To ensure the efficient monitoring of branch network that spreads over the whole region, the company management decided to modernize the video surveillance system and integrate all the branches into one network providing an opportunity of centralized access to both live video and video archive.

### Solution

Before the project was launched, the branches of Turkuaz Machinery either had no video surveillance system at all or it comprised of analogue cameras that frequently failed and could not provide the desired image quality.

Since the very beginning Zhedel Information Systems recommended to the company management to use Axis IP cameras at the territory of the enterprises, as this was solution for image quality issues, long device operations without any failure and remote access from anywhere in the world.

### Result

Because of modernization, about 260 Axis network cameras were installed at the territory of Turkuaz Machinery branches. AXIS M10, AXIS M11, AXIS P13 and AXIS P14 Network Cameras were used along with AXIS M2014-E. The key advantages of this solution are cameras reliability of operations, high definition image and additional video analytics functionality together with advanced setting capabilities via web-interface.

**“Our goal in the project was to integrate all Turkuaz Machinery branches into one surveillance network enabling the company management to keep track of local workflow remotely both in real time and by watching videos from the archive. Since we needed the “fail-safe” cameras that would allow the remote access from anywhere globally and deliver high-quality image, we selected Axis IP cameras. We would like to thank our distributor company RRC, whose specialists helped us in the projecting phase and delivered products in shortest possible time.”**

**Aslan Manapov Adipovich, Zhedel Information System.**

### Axis cameras application features

Today every branch of Turkuaz Machinery has its own storage server. All storage servers and cameras are interconnected via VPN. Having Internet access and VPN-client data, classified user can connect from anywhere around the globe to a certain camera, server and its archive. The same data is available over enterprise network.

The enterprise video surveillance system is managed by software Netavis Observer. The VMS is based on open platform and allows all camera settings functionalities, such as setting via web-interface. Intelligent motion recording feature and data communication via FTP protocol save the storage space.

### Cameras involved in the project

Several Axis camera series and models are used for security control and workflow monitoring at Turkuaz Machinery branches.

Compact AXIS M10 Series cameras (AXIS M1011, AXIS M1025, AXIS M1054, AXIS M1013) are designed for indoor video surveillance at small area premises. In Turkuaz branches these cameras improve high standard of working processes and helping to investigate cases such as forgotten things or stealing. AXIS M1054 with built-in microphone and speaker supports the two-way audio and can be used for warnings.

The cameras in AXIS M11 Series (AXIS M1114, AXIS M1144, AXIS M1103) are cost-effective, high resolution fixed cameras for capturing people on entrances/exits and in the warehouses as well. IP-cameras support Power over Ethernet and also provide multiple video streams in H.264 and Motion JPEG formats.

Benefits of fixed AXIS P13 Series cameras including AXIS P1343-E, AXIS P1346-E, AXIS P1347-E, and AXIS P1353-E are: high light-sensitivity, maximum resolution from SVGA to 5 MP and the Lightfinder technology for better and more natural color rendering in challenging light conditions. Cameras are mounted in depots and stocks both outdoor and indoor for monitoring the goods, quantity (for example tires) and how they are moved during time.

Finally, AXIS P14 Series cameras (AXIS P1425-E, AXIS P1425-LE) are designed specifically for 24/7 outdoor video surveillance. These cameras have a built-in bracket for wall or ceiling mounting and offer the whole range of functionalities such as integrated IR light, remote zoom and focus, slots for microSD/SDHC/SDXC memory cards, inputs and outputs for peripheral devices. In Turkuaz, their task is to monitor parkings of vehicles, drivers capturing as well as wrong vehicle parking.

The Kazakhstan company is planning to extend the cooperation with Axis opening new branches in other cities and countries, all systems will be projected and technically supported by Zhedel Information Systems as their expertise brings best results.

