

ReliSec AS

Dato: 06.04.2018



Att: Jonny Andersen

Solution and offer - Intelligent camera surveillance and perimeter defence -Alvdal.

6 units - Axis D2050-VE Radar Detector

2 units – IP PTZ, darkfighter, 23 x optical zoom, 200 M IR, vandal proof IK 10 HikVision

35 units – IP dome, varifocal, darkfighter kamera, IK10 vandal proof, 50m IR, 2 MP. HikVision

4 units – IP bullet, varifocal, darkfighter kamera, IK10 vandal proof, 50m IR, 2 MP. HikVision

3 units - IP Horn, to-way kommunikation – Axis

1 unit – Server 10 TB, local recording server

14 units - License MileStone XProtect Corporate

35 units – License MileStone XProtect Express

2 units – Switch 24 Ports Gigabit PoE+ Ernitec

2 units – Switch 8 Ports Gigabit PoE+ Ernitec

1 unit – Jablotron Alarm Sentral JA-106

14 units – Jablotron Fire detector , smoke and heat detection.

Perimeter defense:

For perimeter defense we have chosen to use Axis Radars to trigger alarms. These are superior for outdoor detection where camera/pixel analytics might fail or produce false alarms. They will be coupled with 4 fixed bullet cameras and two PTZ cameras. The cameras will be used for investigation of triggered alarms from the radar system.

The radar system will perimeter defend the administration building and the containers.

The objective is to trigger alarms if any person(s) or vehicle(s) enters the alarmed zones.

This is in our experience the most modern, high tech, reliable and best solution for outdoor perimeter defense outdoor available today. We can comfortably deliver this solution for high value objects. It is superior to optical and thermal camera analytics solutions.

See illustration

The area will be very clearly marked with signs informing that the area is surveillanced and alarms are in place.

First line action: Speaker horns will be used to deter and abort unwanted behaviour. In 99% of the cases, the speakers efficiently aborts any unwanted behaviour and makes the unauthorised person(s) leave the area.

Second line action if needed : Local security company will send security guard/ police will be sent to location.

Camera surveillance in containers and adm. building:

It will be installed 32 cameras, 4 in each of the 8 containers. These cameras will be recording when motion is detected in the containers. The cameras selected will deliver high quality pictures in low light conditions.

3 cameras will be installed in the Adm. building. Two cameras to cover entrances and one camera to cover the entrance of the storage room.

See illustration.

These cameras will record locally on a server with Milestone XProtect VMS. There will be 10 TB of available raw storage, half after RAID is configured for redundancy. This will be sufficient for 35 - 2 MP cameras recording on motion. Discs used will be Wester Digital Purple , designed for 24/7 video recording.

Fire detection:

A fire alarm system will be installed with 14 fire detectors. 1 detector in each container and 6 detectors in the adm. building. The alarm will be monitored by ReliSec Alarmstation. The fire detectors react to both heat and smoke (optical) abnormalities.

Key information:

Perimeter defense activation:	After working hours
Fire alarm detection:	24/7
Video recording:	7 days storage, 24/7 recording on motion.
Service:	6 month intervals.
Warranty:	3 years

Prerequisite:

- Access to site and necessary technical rooms in buildings.
- Internet access with a minimum of 50 Mbit/s upload speed, static IP-address and connection details.
- Perimeter defense is activated after working hours. Working hours must be provided. The activation of the perimeter defense system can be postponed by contacting ReliSec Alarmstation.

Pricing:

Cost of equipment and installation : 702.500 ,- NOK

Cost of fire alarm monitoring pr month : 720,- NOK/month

Offer is based on a binding agreement for 36 months.

Cost of perimeter defense monitoring pr month: 4730,- NOK/month

Offer is based on a binding agreement for 36 months.

The system is supplier independent and can be monitored by other security companies after the binding agreement period is over.

Service and maintenance:

6 month intervalls : 8000,- NOK/6 months

All prices are excluded VAT 25%.

References can be provided. We have solid references from major companies in Norway.

If any questions arise I can be contacted at **+47 46 74 94 74** between 08:00 and 23:00 CET or by email oen@relisec.com.

The offer is valid 90 days and the information is confidential.

Kind regards

Øystein Nagelgaard

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