

## Intelligent and reliable perimeter surveillance in any light, weather or distance.

Areas with high value assets like rail yards, bus depots, and station backyards are easy targets for perpetrators looking to steal and vandalize valuable property. As a result, there is an increasing demand for effective video surveillance to protect perimeters in varying conditions, and with automated detection of perimeter breach, operators can monitor incidents more efficiently. Axis' world-leading range of network video products has proven to be an efficient tool to detect, recognize, and identify perimeter breach anywhere and anytime.

### Automatic intrusion detection

Surveillance operators face a daunting task when it comes to detecting various incidents within rail yards, bus depots, backside stations, rail infrastructure, and more. In order to face the important issue of perimeter breach and address the challenge that operators face in manually monitoring incidents, automated solutions are a necessity for efficient detection in real time. Cameras with video intelligence are placed along the physical perimeter and can automatically detect and alarm a security center for movements that breach a virtual fence within the video image.

### Build on your existing surveillance system

Compared to alternative solutions for perimeter protection – such as short-distance radar, laser, and motion-sensitive fence wires – a network video system is more flexible and versatile since the cameras can be used for additional purposes, such as identifying perpetrators, deciding which actions to take, and deciding which response resources to send. Most importantly, a video-based system augments its alarms with high-quality video showing clearly what is happening.

In the case of motion-sensitive fences or lasers, a patrol would need to be sent to confirm that the breach is actually a threat, rather than an animal or other disturbance. A thermal camera is able to sustain an alarm trigger outside of the fence which means the alarm can come earlier, as opposed to a radar or laser system that is typically installed on the inside of a fence. If a video surveillance system is already in place, usage can be optimized with reliable video analytics automating perimeter breach detection.



Example of a virtual fence.



- > Automatic intrusion detection
- > High image quality
- > Scalable and future-proof
- > Long-distance thermal detection
- > Axis Lightfinder for low-light identification



### High quality images for all incidents

Access to high-quality video is key to finding out what actually happened on the perimeter. An Axis IP surveillance solution based on various camera types and technologies delivers high image quality in both live and recorded video. In addition, the images can be easily shared and accessed numerous times without losing any quality.

### Integration of thermal and low-light technology

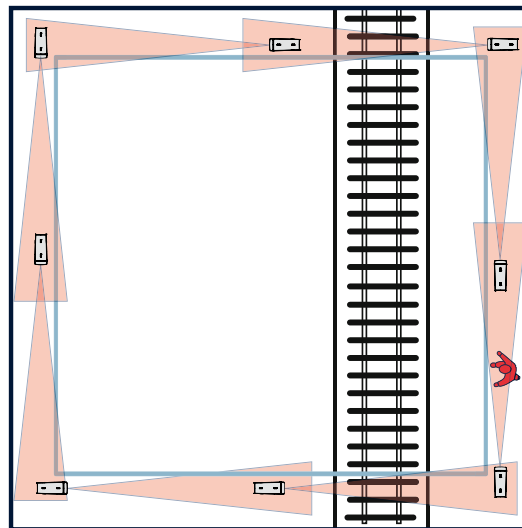
Axis thermal network cameras allow operators to detect and act on suspicious activity 24/7. By visualizing the heat emitting from people and objects, these cameras enable detection through complete darkness, fog, snow and other challenging conditions. Axis' low-light offering based on Lightfinder technology maintains colors even in very dark conditions to enable both recognition and identification.

### How it works

Integrated with intelligent video applications, such as video motion detection or tripwire, the cameras can automatically trigger an alert to the operator and at the same time activate a pan/tilt/zoom camera to supply additional video to the operator. All information is evaluated and the operator can decide about the correct action to take.

### Build on your existing cable investments

Reap the benefits of Axis' partner offerings of Ethernet extenders, to stretch beyond the normal limits of Ethernet. Partner technologies make it possible to reuse cabling and allow the existing system to work to its full potential without the added costs. Copper cables, for instance, may be used for powering the system. Normal power cables, for instance, may be used for powering the system and the SHDSL technology can further extend the network.



Overlapping camera coverage for entire perimeter.

### Why network video?

- > Superior image quality
- > Remote accessibility
- > Easy, future-proof integration
- > Scalability and flexibility
- > Cost-effectiveness
- > Distributed intelligence
- > Proven technology

### Why Axis?

- > Worldwide #1 in network video, the world's leading expert
- > Proven installations across all continents
- > Broadest product portfolio in the industry
- > The largest installed base of network video products
- > Over 30 years of networking excellence