

Why the inside is as important as the outside.

Explosion-protected network cameras from Axis



Quality isn't just skin deep.

It can be all too easy to lose sight of the fact that explosion-protected cameras are about more than explosion-protected outer housing. Containing sparks in order to avoid explosions is crucial, of course. But so is protecting

your premises, your property and your personnel. And there's a world of difference between the quality of just any explosion-protected camera and the quality of explosion-protected network cameras from Axis.



Protection inside and out

Explosion-protected network cameras from Axis are housed in rugged enclosures that prevent sparks from igniting vapors, gases, dust, or fibers in the environment. And they're certified worldwide for use in hazardous applications. But they're also part of a complete Axis network that offers protection from the perimeter to the core.

Effective, cost-efficient security

Axis network solutions are cost-effective because they're easy to integrate in existing surveillance solutions and because they're scalable, and future-proof. They also come with cables and other auxiliary equipment included to make installation faster and simpler. Furthermore, integrated analytics support effective, cost-efficient security operations and do double- and triple-duty helping you to monitor and improve productivity and the health and safety of your personnel.

Plus you get always-excellent image quality regardless of lighting conditions and the size and physical characteristics of your monitored areas, thanks to our proprietary technologies.

30+ years of experience

When explosion-protected cameras are what you need, you can't go wrong with Axis. We bring more than 30 years of experience, R&D muscle and exacting standards to the most advanced network cameras you'll find on the market.

Just turn the page to learn more.



Where do you use explosion-protected network cameras?

These are just a few examples of industries and applications where our explosion-protected network cameras play a role:

- > Oil & gas
- > Chemical processing
- > Mining
- > Paper and textiles
- > Agricultural process monitoring
- > Grain handling and storage
- > Industrial food production
- > Woodworking
- > Waste treatment
- > Metal surface grinding
- > Manufacturing
- > Refueling and storage
- > Fertilizer storage and transportation

Not all cameras are created equal.

Explosion-protected network cameras offer clear benefits over analog cameras. And cameras from Axis are the best of the best. You'll benefit from onboard intelligence and great image quality thanks to advanced Axis technologies. You'll be able to:

- > Detect, verify, deter, identify and track intruders and objects
- > Effectively handle alarms by visually assessing their validity
- > Manage multiple sites from a centralized control room

Sharp images - in any circumstances

Like all our cameras, Axis explosion-protected cameras provide superior image quality under just about any circumstances. Advanced, proprietary technologies let you see clearly even in challenging scenes and in spite of vibrations, poor weather and difficult light conditions, including complete darkness. And our explosion-protected thermal cameras accurately detect people, objects and incidents in complete darkness or other challenging conditions like smoke and dust.

Intelligence on your bottom line

With Axis explosion-protected network cameras, you benefit from intelligent on-board analytics. They turn our cameras into tools that can help you make smart decisions about operations and resource allocation. You can define triggers that activate warnings or alarms that can help keep people out of restricted areas, or alert personnel of their presence. Security staff can then visually verify the nature of every incident remotely, and act appropriately. Which means you can avoid the cost and wasted manpower of responding to false alarms.

Future-proof protection

Explosion-protected network cameras from Axis are open and support industry standards. They're scalable, and we have strict requirements for ourselves and our partners that help mitigate the risk of cybercrime. We also have the markets' most extensive program of software and hardware partners and a global network of integrators. So you can count on well-supported, future-proof network video surveillance, and solutions that always support your unique needs.



The Axis advantage

- > 30 years of experience with network video and devices
- > Remote monitoring, analytics and alerts for cost-effective operations
- > Focus on cybersecurity
- > Open platform and easy integration with other systems
- > Scalable, future-proof solutions
- Multiple connection possibilities, from PoE to fiber-optics for longdistance connection
- > Global partner network with support in local languages
- > Free firmware, and extended warranties
- > Audio and access control support

A win, win, win proposition for hazardous applications

- > Protect your hazardous areas from unauthorized individuals
- > Reduce process downtime and improve efficiency
- > Improve health and safety
- > Increase your return on investment
- > Share costs between departments





When is a camera more than a camera?

When it gives you much more than you would normally expect from a camera. Explosion-protected network cameras from Axis provide superior protection and help you make smart decisions about security operations and resource allocation. But they're also a valuable tool for protecting the reliability of your operations and the safety of your employees. Essentially, they let you double, or triple, your return on investment – even creating opportunities to share costs between departments.

Protecting your operations

Explosion-protected network cameras from Axis do double duty as an enhancement to your industrial control systems, helping you better understand precisely what's happening with your processes. They reduce process downtime and improve efficiency because you can easily integrate them with systems like SCADA and:

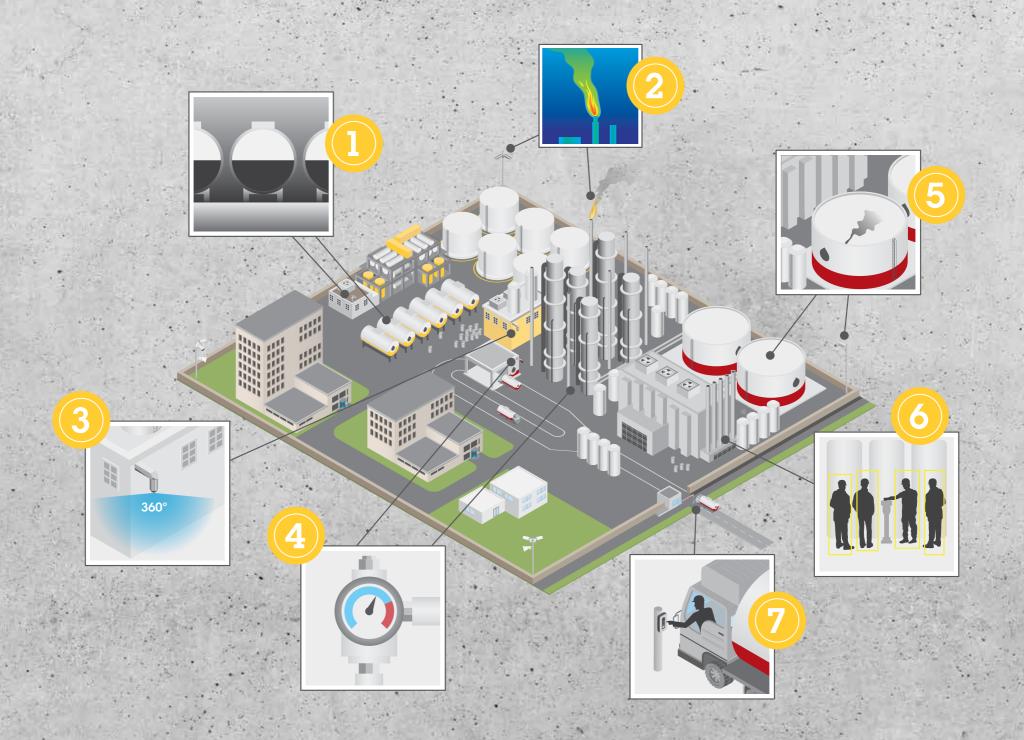
- > Visually verify production and temperature data
- > Verify processes are running correctly and assess reported failures
- > Facilitate predictive maintenance and trend monitoring
- > Monitor for temperature variance and leaks via temperature alarm cameras

Health, safety and environmental protection

The health and safety of your personnel is always top of mind, of course. And with explosion-protected network cameras from Axis, you can simultaneously safeguard your premises, support your operations and protect health, safety and the environment (HSE). In other words, your cameras, with their intelligent analytics, do triple duty. They let you:

- > Visually monitor policy adherence and evaluate risks in real time
- > Control access to restricted areas with integrated network access control
- > Keep track of the number of individuals in each area of a facility
- > Visually assess emergency situations
- > Track and support rescue teams and confirm evacuation

In many cases, all of this can be done at the same time for multiple locations even when they're far from each other.



Explosion-protected network cameras from Axis on the job.

The picture on the left shows explosion-protected network cameras from Axis together with other thermal cameras and network door stations from Axis being used to protect an oil refinery from perimeter to core. Here you can see how they all work together:

- 1 XP40-Q.1942 Explosion-Protected Thermal Network Camera is used to assess the amount of fuel in each tank before shortfalls slow down production. Like all our explosion-protected cameras, it's certified worldwide for use in explosion-prone applications.
- 2 XF40-Q2901 Explosion-Protected Temperature Alarm Camera
 Used to monitor the temperature of a flame. It sends an alarm to a centralized control room when the temperature goes beyond a set limit or increases too quickly.
- 3 Explosion-protected PTZ dome network camerα
 An explosion-protected PTZ dome network camera is placed in the middle of the refinery where it offers sweeping 360° views of the entire site. Its lightning fast pan, tilt, zoom action lets operators swiftly assess a situation in response to an alarm and then take appropriate action. The PTZ dome is also exceptionally light, which makes installation exceptionally easy and cost-effective.
- 4 Fixed box explosion-protected network camerα
 Used to monitor temperature gauges, sensors and/or valves in the refinery. The camera is engineered for light sensitivity that's second to none and delivers high-resolution video at full frame rate for crystal-clear images. As such, it gives operators reliable real-time information about the status of refinery processes.
- 5 Fixed box explosion-protected network camera with 32x optical zoom

 Monitors the tops of two cylindrical tanks. It lets operators visually verify safety information from the refinery sensor system. It's also suitable for monitoring long conveyor belts.
- 6 Onboard analytics on visual Axis cameras
 Helps you count people in safe, but restricted areas, for example.
- 7 Axis network door station
 Controls and grants axis to vehicles and individuals.



A complete portfolio of network-security solutions.

Explosion-protected thermal and visual cameras from Axis are part of a complete portfolio of products that protect your premises – hazardous and otherwise – from the inside out.

Our offering for safe areas includes standard visual and thermal network cameras, radar, door stations and audio equipment. They provide a cost effective replacement for traditional approaches to security, such as analog cameras, fences and guard patrols. Because they support intelligent analytics that let you protect your premises without the need for constant staff presence. In addition, open industry standards and interfaces make integration with your other systems simple, and adding to and upgrading your system is easy.

Axis network portfolio

We offer:

- > Standard and explosion-protected thermal cameras
- > Standard and explosion-protected visual cameras
- > Intelligent analytics
- > Radar equipment
- > Network access control
- > Audio equipment
- > System devices
- > Encoders and decoders



About Axis Communications

Axis enables a smarter and safer world by creating network solutions that provide insights for improving security and new ways of doing business. As the industry leader in network video, Axis offers products and services for video surveillance and analytics, access control, and audio systems. Axis has more than 3,000 dedicated employees in over 50 countries and collaborates with partners worldwide to deliver customer solutions. Founded in 1984, Axis is a Sweden-based company listed on the NASDAQ Stockholm under the ticker AXIS.

For more information about Axis, please visit our website www.axis.com.

