

A worker in a blue hard hat and orange safety vest is shown in profile, looking at a tablet. The background is a blurred cityscape at night with bokeh lights. Overlaid on the left is a futuristic digital interface with a large circular gauge and various lines and nodes.

Optimize safety and operational efficiency in hazardous areas

EXPLOSION-PROTECTED
CAMERAS FROM AXIS

AXIS[®]
COMMUNICATIONS

Achieve more, safely, in hazardous areas



New efficiencies with advanced explosion-protected cameras

Regulatory requirements for hazardous areas apply mainly to the protection method of electrical equipment. Different explosion-protection techniques are permitted within the various zones and divisions. Axis explosion-protected cameras optimized for these allow you to choose technology that goes far beyond surveillance to provide added value to your business. The potential operational and safety benefits the technology empowers are up to you. Why settle for cameras that simply fulfill regulatory requirements, when the same installations could be capable of so much more?



Advanced decision-making support

Axis explosion-protected cameras both see and analyze, acting as advanced visual sensors. AI-enabled image processing differentiates between people and other moving objects, supporting safe operations and detecting operational patterns and trends. This can assist with predictive maintenance, process optimization and more. By processing data on the edge, Axis explosion-protected cameras filter and send only relevant data to your process control or video management system. The resulting speed and accuracy of data interpretation enables you to make fast and well-informed decisions around everything from productivity improvements to emergency response.

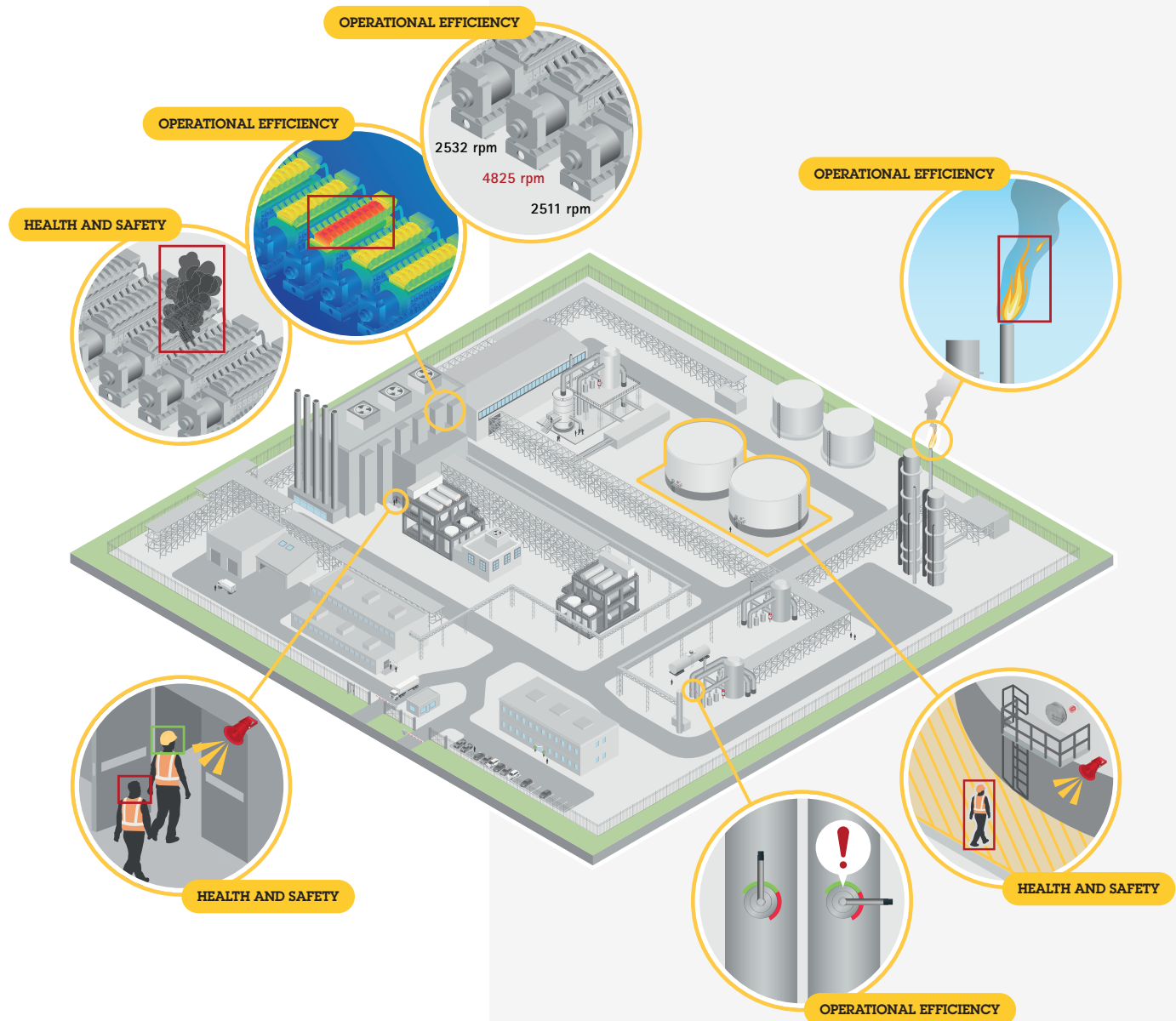
Multi-purpose technology

Axis explosion-protected cameras let you assign single or multiple safety or operational tasks to individual cameras. The same camera that monitors for productivity patterns and overall plant welfare can also support the safety and security protocols you already have in place. These multitasking capabilities could mean more flexibility in deployment of fewer cameras, ensuring a cost-effective investment.

Click on the circles over the map to see how Axis explosion-protected cameras can have an impact in your operations:

HEALTH AND SAFETY

OPERATIONAL EFFICIENCY

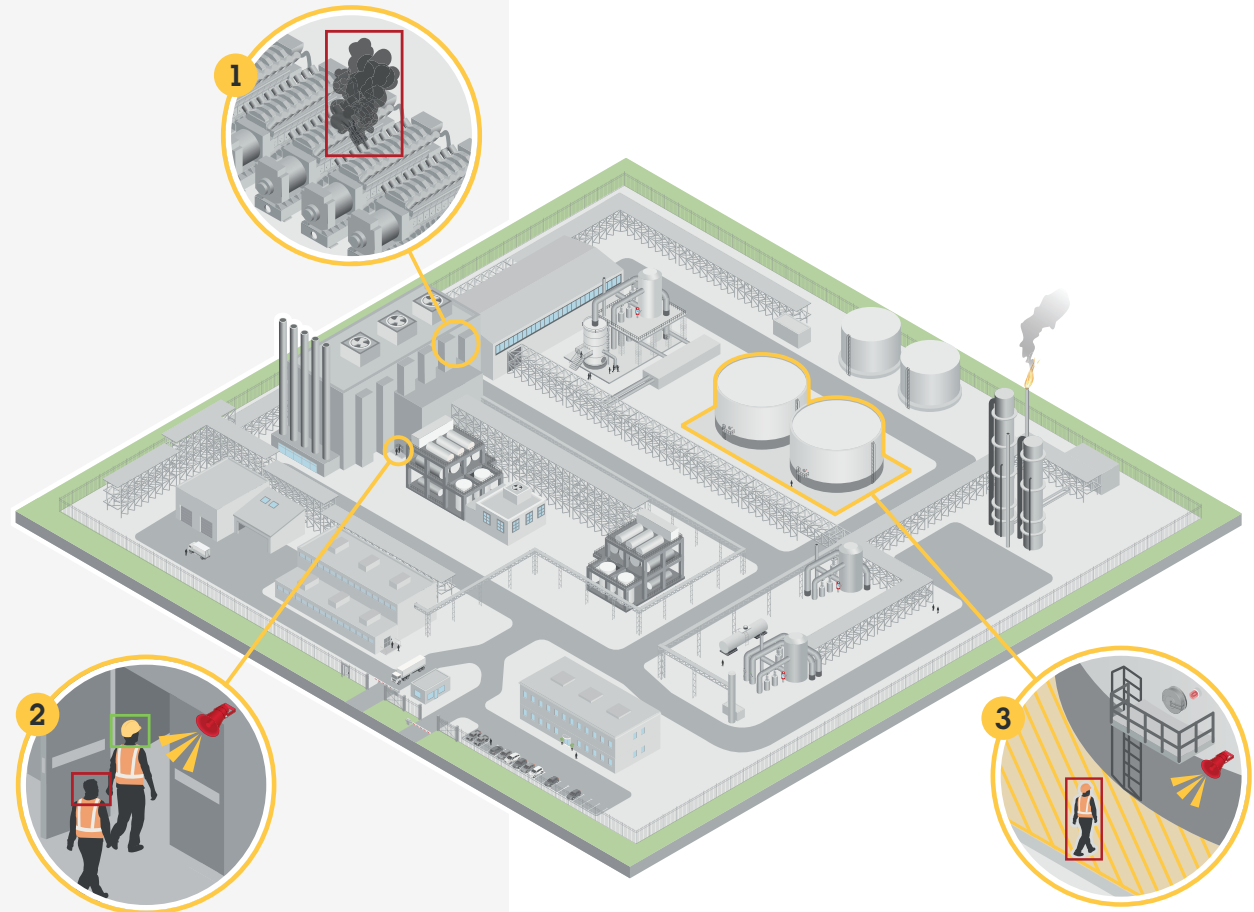


Protect personnel

Axis explosion-protected cameras provide added situational awareness and a layer of safety to personnel on site. Rather than replacing people, our cameras can be an effective way to minimize unnecessary human exposure to hazardous areas. They will also help maintain safer working conditions and processes by providing another protective layer to your existing safety systems.

HEALTH AND SAFETY

- 1 Enable fire prevention with early detection of smoke and fire, using embedded analytics in the camera. Immediate situational overview allows for prompt appropriate action.
- 2 Use personal protective equipment (PPE) detection for safety equipment alerts.
- 3 Monitor confined spaces and restricted areas to minimize staff exposure to high-risk situations.



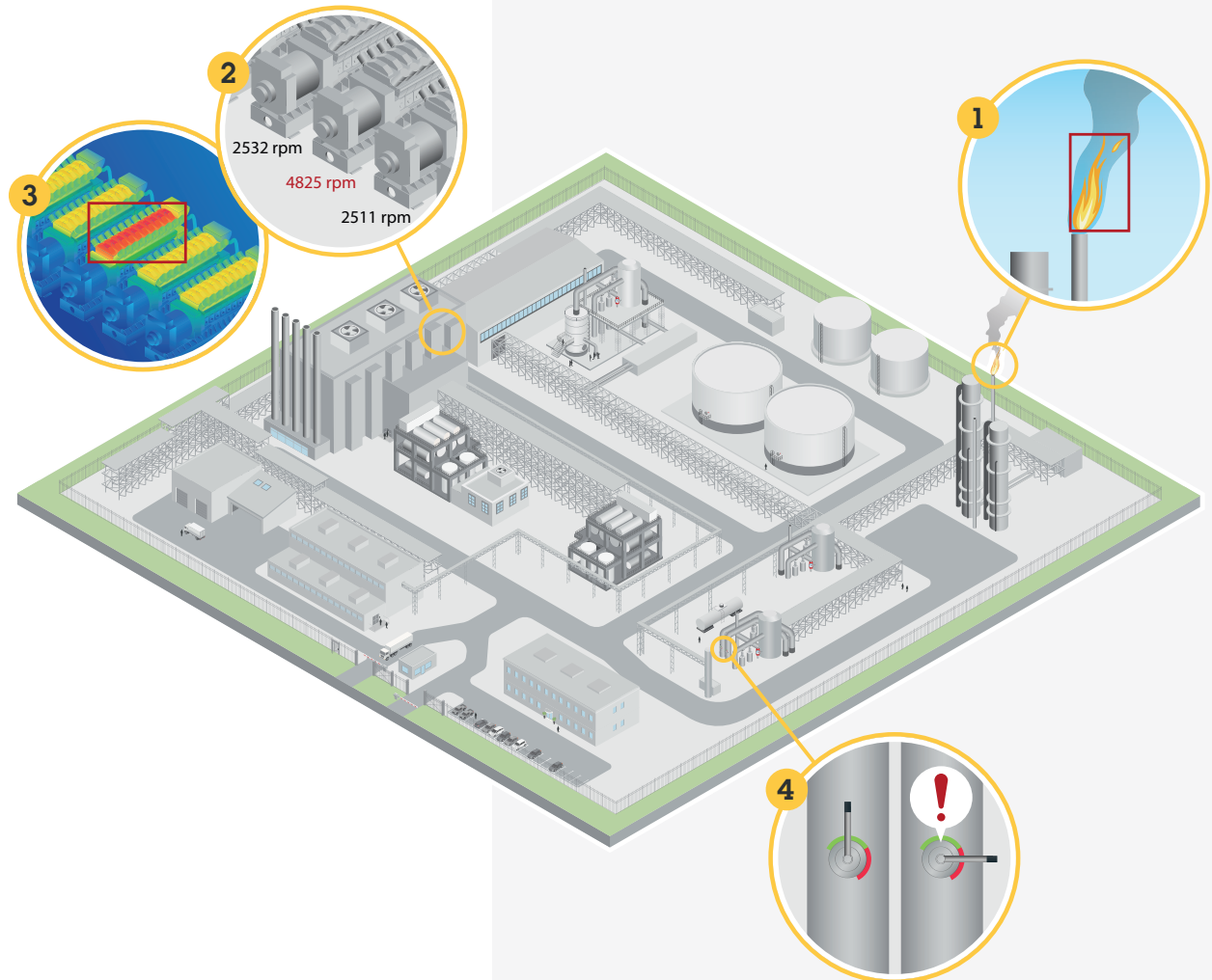
Suggested solutions may require additional integration with third-party hardware and software. The Axis unique combination of open platform and global partner network supports cross-functional collaboration and solution development to meet specific customer needs.

Optimize productivity

Axis explosion-protected cameras can help you maintain peak operability. By enabling more and better data collection, and deep learning-enabled analytics directly in the cameras, Axis and partner technologies help predict maintenance. This can enable an optimization of operational performance and contribute to maximum uptime of critical equipment and processes.

OPERATIONAL EFFICIENCY

- 1 Monitor flares with a visual camera for smoke, and a thermal camera for the flame, giving you oversight of waste gas disposal and an ongoing indication of overall plant performance.
- 2 Gain deeper understanding and awareness by creating an advanced data-driven sensory network with AI-powered cameras that can be integrated with existing sensors and systems.
- 3 Monitor piping and equipment overheating, and temperature changes, enabling predictive maintenance.
- 4 Use visual verification of incident alerts to avoid process or plant shutdowns, or unnecessary service personnel deployment.



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Explosion-protected cameras the Axis way

Axis explosion-protected cameras are designed, rigorously tested and approved for use in hazardous areas with harsh industrial conditions.

Designed to fit

Axis explosion-protected cameras separate themselves from others in their design. Our enclosures are developed to fit the cameras – not the other way around. This allows us to focus on providing the best camera possible for hazardous environments. The enclosure never limits what's possible with an Axis explosion-protected camera, which is always designed, from the CPU up to the final certified product, entirely by us.

Certified for all markets

Axis has a portfolio of explosion-protected cameras designed and certified to be used anywhere in the world, from arctic to desert climate, with a full range of power and network connectivity, all within a single part number. That simplicity enables short lead times and worldwide availability, for flexible deployment within multinational companies.

Cameras for every need

Axis has a broad portfolio of explosion-protected cameras and accessories to suit any environment and application. Fixed cameras are ideal for process monitoring. PTZ cameras allow unobstructed views in every direction. Multisensor cameras enable situational awareness. Thermal cameras provide the ability to see beyond the visual spectrum. All can be used with a wide range of analytics, and data-driven capabilities.



Cameras specifically designed for Zone/Division 2

The Axis portfolio consists not only of Zone/Division 1 cameras, but also of a camera specifically designed and certified for Zone/Division 2. These locations don't require the stainless-steel enclosure, which allows for a smaller, lighter design that still meets all requirements.



Why Axis for explosion-protected cameras?

Advanced features and technologies

- Built on open industry standards, Axis explosion-protected cameras are flexible, scalable and easy to integrate.
- Benefit from ACAP (AXIS Camera Application Platform) for third-party analytics, which expands the camera's capabilities to address the needs of your specific environment.
- Built-in deep learning capabilities on the edge, where the image is captured and raw data is processed in real time.
- Built-in cybersecurity features to counter different types of cyber-attacks, effectively battle vulnerabilities, and prevent unauthorized access to your system.
- Axis Zipstream technology preserves all the important forensic detail you need, while lowering bandwidth and storage requirements.
- Axis Lightfinder technology for high-resolution, full color video with a minimum of motion blur, even in near darkness or low-light conditions.
- Electronic image stabilization (EIS) for clear and precise images, even in hazardous areas where heavy machinery or processes can cause vibrations.
- Easy to install and use, and include all necessary power options and network connectivity, making external power supplies and junction boxes unnecessary.

Optimizing hazardous areas everywhere, all the time

Axis innovates for a smarter, safer world—a vision that naturally includes addressing the many challenges our customers with hazardous areas face in day-to-day operations.

That's why you'll notice many key differences in the Axis offer. All of our explosion-protected cameras are engineered chipset-to-enclosure, with cybersecurity built in from the start, by Axis—your assurance of high quality. Axis solutions are compatible with the most widely used video management systems. And we offer excellent support and education thanks to our global presence and an extensive partner network.



Cybersecurity

Axis explosion-protected cameras have a variety of built-in cybersecurity features to counter cyber-attacks and prevent unauthorized access. Beginning with signed firmware and secure boot, Axis is constantly adding additional layers of cybersecurity, identifying and addressing vulnerabilities. Our cybersecurity strategy is long-term and continuously improving to help reduce the risk of digital attacks on your operations.



Support

In high-investment hazardous areas with critical operations, you can rely on Axis for the highest quality products, service and support. We provide a five-year warranty, an advance replacement policy and industry-recognized training. Even after a product is discontinued, Axis will provide free firmware security updates for at least an additional six years, protecting your investment long-term.



Extensive partner network

Partnership is at our core and helps us define and shape new opportunities. Our commitment to partnership has made Axis the most integrated camera brand on the market. Collaborating with a vast, global network of partners, all with their own unique expertise, strengthens our overall offering and provides you with value, knowledge and solutions.

About Axis Communications

Axis enables a smarter and safer world by creating solutions for improving security and business performance. As a network technology company and industry leader, Axis offers solutions in video surveillance, access control, intercom, and audio systems. They are enhanced by intelligent analytics applications and supported by high-quality training.

Axis has around 4,000 dedicated employees in over 50 countries and collaborates with technology and system integration partners worldwide to deliver customer solutions. Axis was founded in 1984, and the headquarters are in Lund, Sweden.