Axis solutions for oil and gas.

Optimize productivity. Protect people. Secure sites.

There's no better way to protect upstream, midstream, and downstream oil and gas activities – from drilling rigs and oil wells, to tank farms and processing plants through pipelines, and refineries – than with intelligent Axis network solutions. They combine superior surveillance capabilities with the ability to act as advanced sensors, support trend monitoring, notify you if something goes wrong, and provide visual verification of data from sensors and production monitoring systems remotely. Axis solutions do triple duty because they help you secure your sites, improve operations, and protect your workforce, often with the same device playing multiple roles. In other words, they address every aspect of protecting oil and gas activities with a single system.

Protecting your production

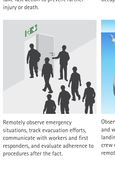
Axis network solutions with intelligent analytics support timely repairs and predictive maintenance while reducing downtime and the need for costly on-site spot checks at remote locations. They also help you determine the levels and composition of oil and gas in storage facilities, pipes, and pipelines from afar.

Monitor the levels and composition of oil, gases, and other components in tank batteries and pumper trucks, and cut back on costly on-site spot checks.

Monitor flares remotely 24/7 to ensure they remain lit and are burning at the correct levels.

Detect corrosion and inadequate insulation of tanks, pipes, pipelines, and other storage and transport equipment to allow predictive maintenance and timely repairs.

Receive real-time alerts on temperature variations in overheating equipment to avoid damage and downtime caused by fires or blowouts.



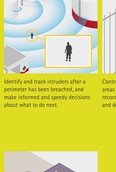
Visually verify the validity of alerts from Axis cameras, other sensors, and your SCADA system remotely before responding.

Provide guidance during planned maintenance and repairs remotely via Axis horn speakers or microphones and speakers built into devices.

Protecting health, safety and the environment

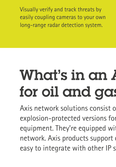
Protect the health and safety of your personnel and adhere to environmental regulations with Axis network solutions and intelligent analytics. They let you visually verify and quickly address dangerous situations and effectively analyze incidents after they happen.

Receive alerts and act proactively to avoid accidents if workers fail to use proper protective equipment such as hardhats and fall-safety devices.



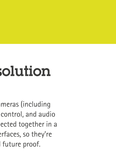
Receive immediate alerts if a worker falls and fails to get up, gets caught in equipment or falls overboard, and take fast action to prevent further injury or death.

Monitor the number of people in hazardous areas and confined spaces, and issue audio warnings if safe occupancy limits aren't adhered to.



Warn workers away from dangerous or restricted areas before boundaries are breached.

Remotely observe emergency situations, track evacuation efforts, communicate with workers and first responders, and evaluate adherence to procedures after the fact.

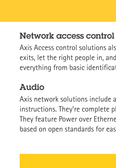


Observe onsite activity, assess weather and water conditions, and monitor landing pads and the transportation of crew on and of offshore platforms at remote sites any time.

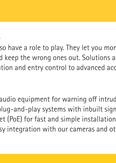
Detect oil spills and illegal emissions in good time before a minor concern becomes a major compliance issue.

Protecting your premises and property

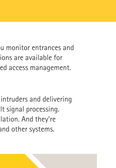
Axis network surveillance solutions with intelligent analytics are an effective and cost-efficient way to protect the perimeter of sites and important areas within them as well as sensitive infrastructure. They help you detect, verify, identify, track, and deter intruders in real-time.



Detect individuals, vehicles or vessels at, or approaching, the perimeters of your site, sensitive areas, or important infrastructure remotely. Then assess the validity of alarms, and act swiftly by warning off intruders with pre-recorded or live audio messages and/or sending security personnel.



Identify and track intruders after a perimeter has been breached, and make informed and speedy decisions about what to do next.



Control access to a site and restricted areas within it, and maintain a visual record of access at security booths and door stations.

Visually verify and track threats by easily coupling cameras to your own long-range radar detection system.

Investigate incidents after the fact and gather evidence for criminal prosecutions using cameras with excellent video quality.

What's in an Axis network solution for oil and gas?

Axis network solutions consist of IP-based visual and thermal cameras (including explosion-protected versions for hazardous areas), radar, access control, and audio equipment. They're equipped with intelligent analytics and connected together in a network. Axis products support open industry standards and interfaces, so they're easy to integrate with other IP systems, and they're scalable and future proof.

Intelligent analytics

Intelligent video analytics provide additional functionality to Axis cameras by analyzing video in real-time when detecting, classifying, verifying, and identifying people and objects.

Thermal cameras and radar

Thermal cameras and radar are a powerful, cost-effective alternative to radiofrequency intruder detection, electrical fences, floodlights, long-range sensors, and microwave and infrared barriers. They accurately detect people, objects, and incidents in complete darkness or other challenging conditions.

Visual cameras

There are many kinds of Axis IP-based visual cameras, including pan, tilt, zoom (PTZ), fixed box, and dome. Axis visual cameras provide excellent image quality and include Zipstream technology to lower bandwidth and storage requirements.

Network access control

Axis Access control solutions also have a role to play. They let you monitor entrances and exits, let the right people in, and keep the wrong ones out. Solutions are available for everything from basic identification and entry control to advanced access management.

Audio

Axis network solutions include audio equipment for warning off intruders and delivering instructions. They're complete plug-and-play systems with inbuilt signal processing. They feature Power over Ethernet (PoE) for fast and simple installation. And they're based on open standards for easy integration with our cameras and other systems.

The Axis advantage

- Remote control and monitoring of multiple sites from a central location
- Explosion protected devices with worldwide certifications
- Devices designed for harsh conditions
- Powerful edge-based processing enabling artificial intelligence
- Cost-effective solutions for difficult light conditions
- Axis Zipstream technology for low bandwidth and storage requirements
- Focus on cybersecurity in design, development, and testing
- Specially designed chips with enhanced security features
- Scalable, future-proof solutions
- Multiple connection possibilities from PoE to fiber optics for long-distance connection