

Enter >

HIGHER EDUCATION



Network solutions

What do you think of?

For many people, "network solutions" brings up ideas of surveillance – network video and audio, usually paired with intelligent analytics. And while an IP-based camera certainly can be a tool to let you see what's happening, that's only the beginning of the story.

Today's network solutions are springboards.

Network cameras, paired with the right analytics, can efficiently collect and analyze vast amounts of the data you want. That means faster, smarter responses to real-time events and ongoing challenges, plus insights that can help shape practices and optimize processes for the long term. That combination is a clear benefit for security, but it also has enormous potential to improve your campus in other ways.

Think stronger

Network solutions go far beyond what analog cameras or physical protection can contribute to security – and to the bigger picture. Flexible, scalable **network** solutions give you a foundation that grows with you, so you can continue to respond effectively to shifting conditions and new challenges.



Think safer
Safety and security



Think smarter
Operational efficiency



Think holistically
The student experience

Expanding your thinking about the role of an Axis solution can benefit diverse stakeholders across campus – and yield bigger returns.

Read more >



INTRODUCTION NETWORK SOLUTIONS SAFETY AND SECURITY OPERATIONAL EFFICIENCY STUDENT EXPERIENCE

Think collaboration

Meeting unique needs...

College campuses are complex ecosystems with a wide range of people, facilities, services, and events. Stakeholders across campus will have different needs, depending on their roles, but a single network solution can be equipped with a variety of intelligent analytics to address those needs.

...with a single solution

Multiple analytics can be stacked on one Axis device and configured to run according to time or day. As a result, you can share devices, split costs, and reap rewards across departments. For example, the same camera and speaker that help you monitor and redirect foot traffic for efficiency during a sporting event can be put to work outside event times to detect and warn off intruders.

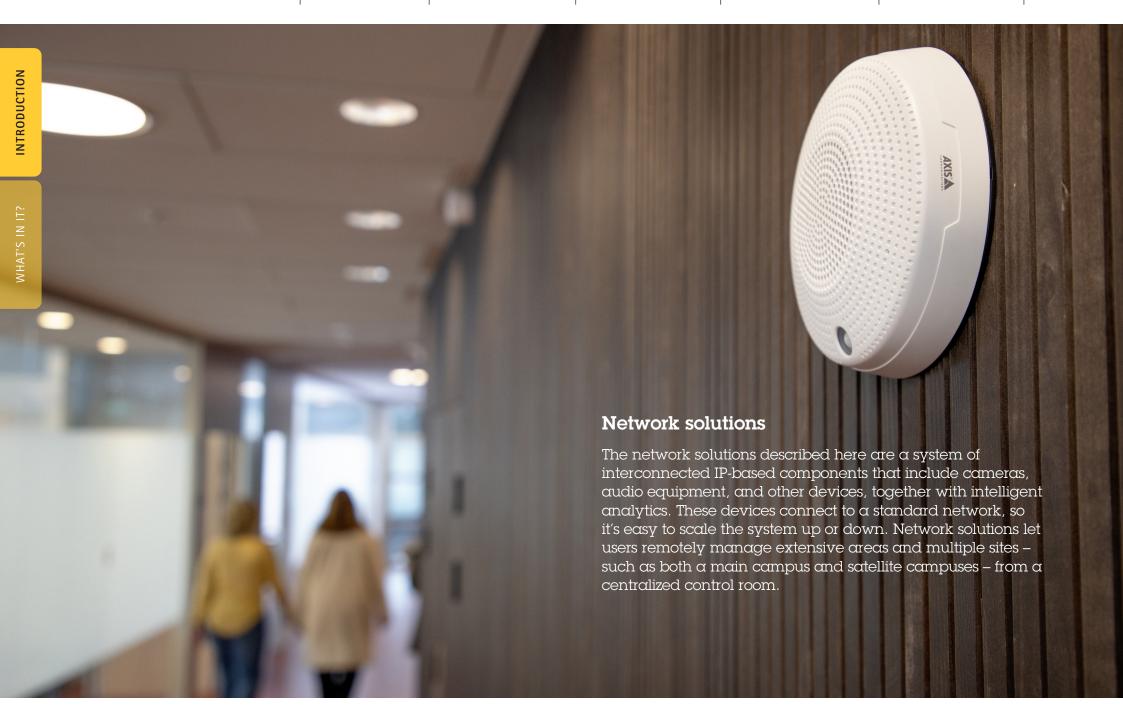
The challenges that first led you to a network solution aren't all it can help with.

Who else on your campus needs to know?





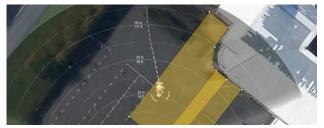
WHY AXIS?





Visual cameras

There are visual cameras to suit a wide range of use cases and mounting needs, including pan, tilt, zoom (PTZ), fixed box and dome, and modular cameras. Sophisticated algorithms and technologies support reliable image quality 24/7, and vandal-proof options allow for flexible placement.



Thermal technology and radar

Thermal cameras and radar accurately detect people, objects, and incidents even in complete darkness, strong sunlight, fog, smoke, or dust. And when it comes to safety, thermometric cameras in your power plant help assess temperature variations that can indicate failing equipment or risk of fire.



Intelligent analytics

Network cameras can do a lot more than just look. Analytics can turn cameras into sensors that can detect, identify, and track specific objects; monitor crowd size or signs of aggression; identify falls during a fitness center's unstaffed hours; and much more. Thanks to intelligent features and direct notifications, analytics-equipped cameras make it possible to automate responses and alert personnel, on-site or off, to take further action.



Audio

Audio equipment such as speakers can be integrated with video so that relevant messages are triggered by specific events. For example, you can warn off intruders or deliver automated instructions to the campus community in the event of a shelter-in-place order. The same system can be used to manage live messages, including paging, severe weather alerts, and other public address needs.



Network access control

Access control solutions help ensure people and vehicles only gain entrance where they're authorized to be, whether that's the front gates, a specific parking lot, a residence hall, or a particular server cabinet. These solutions can be integrated with other systems and network devices. For example, a camera with analytics for vehicle access control could trigger a strobe siren alarm and a warning from a nearby speaker when it detects a vehicle attempting to tailgate into a restricted parking area.



And your existing or preferred tools

Axis builds on open standards, so you can integrate our technology with the systems you already have in place. That also means you can choose from the widest possible selection of third-party analytics, as well as all major video management software platforms. And because we offer video encoders and audio bridges that let you access many of the benefits of an IP solution, you can protect your legacy analog investment while you build a more flexible, futureproof solution.



Think safer

Campuses come in many configurations, from gated institutions to constellations of buildings scattered throughout a bustling city center. They're often home to many students and host businesses like bookstores, cafes, and more. No matter the size or complexity of your campus, network solutions can help keep your people and your property safer.

The advantage of network solutions

For many campuses, guarding against intrusion using only physical barriers, analog cameras, and on-the-spot manpower is challenging and costly. Network video, audio, and access control present a cost-effective alternative that can generate significant returns – especially because this same set of network devices can often do double or triple duty when it comes to creating a safe place to live, study, and work.

At a glance

- Maintain powerful situational awareness, even across large campuses with extensive or open perimeters
- Save money with fewer false alarms and physical patrols, thanks to intelligent analytics operating on the edge
- Verify the validity of a security threat or safety incident, assess its nature and then act swiftly and appropriately
- Control access to a campus or multiple campuses, as well as restricted areas within them
- Leverage high-quality video footage for trainings, forensic purposes, and policy or procedural reviews

Spotlight on intrusion protection

analytics zooms in, capturing identifying information

and enabling a remote operator to track the intruder

what - if any - additional interventions are needed.

while they make an informed and speedy decision about

deterrence measures – without wasting resources on false alarms.

Layer 1: Perimeter protection

and a signal is sent via the network.

Imagine this scenario: Under cover of night, a thermal

camera at the fence line detects a suspected intruder.

Analytics in the camera verify and classify the alarm,

That signal alerts a remote operator and triggers a strobe siren alarm and prerecorded warning message

Simultaneously, a PTZ camera with autotracking

real-time information about speed, distance, and angle of movement.

from a network speaker.

Layer 2: Protection of low-traffic areas

Because campuses typically experience lots of movement from students, faculty, staff, and authorized visitors, effective intrusion protection takes a layered approach that focuses on unusual or unwanted presence and specific areas of risk. This approach enables you to monitor the perimeter for potential intruders, track suspicious people and vehicles on campus property, and safeguard your sensitive or high-value assets. At each and every layer, network solutions support early threat detection, accurate verification, and swift, proportional

> The campus community, and sometimes city traffic, often has significant freedom of movement within a campus. That makes monitoring presence at times or places where traffic should be limited – for example, records offices after hours, or power plants - key to preventing intrusion, theft, and vandalism.

Identify suspicious people with loitering analytics on a visual camera. Multidirectional cameras with 360° coverage let you cover wide areas with a single camera, and PTZ cameras let you track persons of interest.

Live or prerecorded audio warnings help deter suspects or encourage loiterers to move on. When an in-person security presence is required, body worn cameras provide forensic-quality documentation.

Layer 3: Access control

A smart approach to security doesn't just address bad actors.

It also enables authorized people and vehicles to get where they need to be, so security staff can focus on unwanted activity.

Network access control links cameras, analytics, credential readers, intercoms, door controllers, and access management systems to support automated entry options for pre-authorized vehicles and credentialed individuals.

Access control can be added wherever it's needed to secure high-value or sensitive areas, from a specific building all the way down to a particular office or server cabinet. And in the event of an active assailant, security managers can remotely lock rooms or areas on campus in seconds, without faculty or staff needing to step into a hallway or fumble with a physical key.

Read more

Spotlight on safety

A key part of attracting – and retaining – outstanding students and faculty is cultivating a safe environment for living, working, and studying. Protecting a campus from intrusion is only the first piece of that puzzle. A smart and proactive approach to general safety and security is the next.

The ability to remotely investigate and rapidly respond to developing situations increases the immediate impact of your safety and security teams. But network solutions also enable you to better understand future risk, so you can invest your resources intelligently. A smart, proactive approach to general safety and security helps you protect both human life and the future of your institution.

Thinking fast...and thinking ahead

Real-time responses

Sometimes, the unexpected happens – no matter how proactive you are. In those cases, a fast, well-informed response can save lives. Network cameras coupled with analytics provide the awareness you need to react quickly and effectively, whether that means identifying smoke and fire in its earliest stages, knowing that a student has collapsed in the fitness center during unstaffed hours, or tracking evacuation progress across campus. Meanwhile, network audio enables you to deliver critical information right where it's needed.

Near-future risk management

Network solutions can also alert staff to acute health and safety risks, so they can step in to prevent or mitigate a potential incident in the near future. For example, when speakers or cameras with talk-back capability and audio detection analytics detect aggressive voices, a signal sent through the network can trigger an audio warning and also alert security or law enforcement officers. Or if your access control management system detects that a door has been propped open, it can trigger an alert to the right personnel.

Long-term safety improvements

Because they provide both situational awareness and trend monitoring, network solutions help you better understand risk and build safer campuses. By reviewing recorded material and logged alerts, you can identify when or where certain kinds of incidents are most likely. Using that information, you can take preventative action, such as installing better lighting, redirecting traffic flows, or increasing event security. Similarly, footage of evacuation drills or interactions with security officers can reveal opportunities to improve trainings or help you revise policies or procedures.



INTRODUCTION NETWORK SOLUTIONS

Perimeter protection

Deter intrusion, theft, and sabotage with a combined fenceline solution. Thermal cameras with analytics detect and classify potential intruders, while analytics on complementary PTZ cameras track their movement. Meanwhile, alarms and warning messages from horn speakers or can act as deterrents. A **strobe siren** can provide a combined visual and audible alert.





Lockdowns

In the event of an active assailant, mitigate risk to the campus community by using access control to instantly lock down the affected area. Strobe sirens provide a combined visual and audible alert, and network speakers can broadcast prerecorded or live instructions where they're needed. Visual cameras enable you to track the assailant's movements in real time, while access control lets you remotely monitor and manage the status of each door, supporting an effective response and safe evacuation.

Protection of limited traffic areas

Stay alert to suspicious activity in restricted or low-traffic areas using visual cameras paired with loitering analytics. Alarms and warning messages from horn speakers can act as deterrents, while strobe sirens provide a combined visual and audible alert.



Use case examples



Vehicle access control

Manage and automate vehicle access. Cameras equipped with license plate recognition analytics support approved vehicle access, help monitor time spent on campus, and maintain a record of visitors. A video intercom completes the solution, and a strobe siren can provide a combined visual and audible alert in the event of tailgating or piggybacking attempts.

Access control

Control campus and building access and maintain a visual record of people entering using a **network intercom** with a built-in **credential reader and camera**. Students, faculty and staff, and credentialed visitors can identify themselves to gain access. Unknown visitors, or campus community members seeking access to areas they don't hold credentials for, can use the intercom to call security and request access.





Deter unwanted behaviors

Detect and analyze loud noises to identify aggression, breaking glass, or gunshots using speakers or audioequipped cameras with sound-detection analytics. Network speakers and access control can be configured to automatically issue deterrent messages or initiate lockdowns, respectively, in response to specific types of incidents. Meanwhile, security personnel receive an alert to view relevant video feeds to mount an appropriate response.

Read more >

Document incidents on patrolDeter bad behavior, protect property, and docu

Deter bad behavior, protect property, and document incidents by equipping security guards with **body worn cameras**. The camera captures audio and video from the wearer's point of view, and recordings can be used for forensic purposes or internal trainings.





Public address including schedule announcements

Inform relevant areas of the campus community of urgent issues, such as chemical spills or severe weather. Give also relevant instructions and scheduled announcements with a **public address system**. A **strobe siren** can be added for a visual alert.

Early fire prevention

Support fire prevention with early recognition of smoke and fire in power plants by using a thermal camera or analytics in a visual camera to complement your certified fire detection system. An immediate situational overview allows for prompt, appropriate action.



Use case examples

Emergency calls

informed response.

Rapidly connect the campus community to a security dispatcher for urgent issues using emergency call stations that integrate a vandal-proof video intercom with an outdoor-ready speaker for public address. When someone calls in to report a medical emergency, suspicious or threatening behavior, or other form of distress, the dispatcher can both see and speak to the scene, providing instructions and gaining crucial information for an

Crowd management

Avoid overcrowding in common areas such as cafeterias, libraries, training centers, and sport complexes by using **visual cameras with analytics**. Efficiently redirect people to less crowded areas with **speakers**. Monitor demonstrations for aggression with **visual cameras and sound detection analytics**.





Man down

Mitigate risks to the campus community during lowstaff and unstaffed hours in relevant environments, such as a fitness center. Respond swiftly to slips, falls, or collapses using a **visual camera** with **intelligent analytics** to help monitor the environment.



Think smarter.

A campus is an ecosystem of people that work, learn, and often live on site. Those people benefit from well-designed systems that function smoothly. Here, network solutions help you work smarter, not harder. Improving situational awareness. Helping you intelligently allocate personnel. And automating tasks like access control. All these benefits combine to improve operational efficiency and make a more seamless experience for students, faculty, staff, and visitors.

Network technologies add transparency and control to processes all across campus. They also make it possible to act remotely, allowing an operator in a central location to address, for example, a visitor requesting entry to a specific building – even on a networked satellite campus. Whether you're the security or facilities manager dealing with these visitor access requests, a concessions manager struggling to serve everyone in a line during halftime, or a graduate student seeking an open study area, IP-based devices and intelligent analytics provide crucial information and yield concrete benefits. In many cases, you can use the same cameras – with different analytics – for operational efficiency and after-hours security. Not only does that make it possible to split costs across departments, but it also opens the door to a higher return on your collective investment.

At a glance

• Automate access control, freeing up staff and providing smoother service for credentialed staff, faculty, students, and visitors

WHY AXIS?

- Improve situational awareness and increase profits with always-current operational data
- Catch and assess potential bottlenecks or problems early and act swiftly to get things running smoothly again
- Minimize disruptions and improve communication by broadcasting announcements only to relevant areas



Spotlight on operational efficiency

At night, cameras and other network devices are typically busy monitoring for and keeping out intruders. But during the day, many of them can be put to work facilitating the flow of authorized traffic and gathering actionable insights to help campus operations run more smoothly. Scalable, flexible network solutions provide a powerful platform for improving efficiency.

Think convenient

Network devices help a small staff operate more effectively by automating tasks like access control. The campus community and pre-approved visitors simply scan their access cards or credential-enabled smartphones to get where they're authorized to be - without needing to wait for staff to come let them in. Intuitive user management software makes it easy to assign, revise, and remove permissions as needed. Meanwhile, uncredentialed visitors can use a network intercom with built-in video to request access. The system is also cost-effective: In the event of a lost or compromised credential, simply cancel the credential rather than re-keying.

Think focused

Network audio lets you target messages to specific speakers, buildings, or zones so that visitors, faculty, staff, and students get the information they need when they need it, without disrupting others. For example, you might notify a specific building of an internet outage and expected downtime so they can plan accordingly. You might also redirect foot traffic if a delivery van is blocking an entrance or notify the entire campus of an urgent situation. And it's easy to send updates from anywhere, since audio messages can be sent from a microphone, SIP-enabled telephone, smartphone, or - with the addition of a ROIP gateway a handheld radio.

Think - inside the box

There's a lot happening inside an Axis camera, thanks to analytics. People-counting analytics can provide students with real-time information on study room availability or which dining area has the shortest line. They can also help on the business end of things - for example, by triggering an announcement to concessions staff in the stadium to open another counter in order to move customers through before the game resumes. And because Axis builds on open standards, you can always select third-party analytics targeted to your unique goals and challenges.





NETWORK SOLUTIONS INTRODUCTION

SAFFTY AND SECURITY

Public address

Keep the campus community informed of situations such as temporarily closed facilities or entrances and give relevant instructions using a public address system. Messages can be targeted to specific zones or speakers and sent from a microphone, SIP-enabled telephone, smartphone, or - with the addition of a ROIP gateway - handheld radio.



examples

Queue management

Monitor queues in common areas such as cafeterias and restaurants, concession counters, libraries, and more, using a visual camera with analytics. In the event of long queues, the system can alert staff to open an additional check-out or trigger a speaker announcement redirecting people in line to another location.

Access control

Secure equipment, assets, and restricted areas from unauthorized individuals and automate entry for credentialed students, faculty, and staff using a network RFID reader with keypad. Staff members can remotely lock or unlock doors, or check door status, and credentialed campus community members can gain entry during approved hours with access cards or entry codes.



Visitor management

Manage visitor access remotely and maintain a record of people entering the campus with a network intercom with a built-in camera and credential reader. Alternatively, a visitor QR code can be sent to the visitor in advance, which they can use to gain access to specific areas without going to a reception area first.





Many institutions offer outstanding educations. When students must choose between good schools, they typically also consider the overall experience each one can offer, and how satisfied current students are. Network solutions increase satisfaction in direct ways – by supporting safe campuses and easier access to campus resources – and indirect ways. For example, when student satisfaction ratings are high, it's easier to attract and retain top students and faculty. That then becomes its own positive feedback loop.

But the benefits to the student experience don't stop there. These next pages highlight h ow network solutions can set students up to achieve more, engage in richer learning, optimize their schedules – even reach a global audience.

The advantage of network solutions

Network solutions open the doors for students to make use of campus resources when it fits their needs, while mitigating the security and safety risks of easy access. They also open doors to the broader world, with live streaming of academic symposia, conferences, performances, sporting events, and lectures. Finally, they create pathways for powerful new approaches to hands-on learning.

At a glance

- Reach a global audience by streaming performances and events
- Improve hands-on training while making the most of instructor resources
- Maintain security while enabling greater student access to campus facilities
- Comply with privacy regulations and cybersecurity practices



Spotlight on the student experience

Because a network solution can be leveraged in multiple ways to address a wide variety of challenges, there's no set limit on the return you can get on your investment. In addition to supporting safety, security, and efficiency across campus, multipurpose network solutions provide students with increased flexibility and opportunity, which influences campus culture and overall satisfaction.

Flexibility

The same access control that secures restricted or high-value areas from unwanted visitors can be repurposed to grant students personalized access to relevant campus resources like labs, fitness centers, libraries, and computer labs 24 hours a day, seven days a week. Access to specific rooms and even server cabinets within those spaces can remain restricted, mitigating risk to your assets while giving students freedom to manage their time in the way it best suits them. Elsewhere on campus, the possibility to live-stream lessons or demonstrations allows remote attendance for students who are ill, injured, or unable to commute due to severe weather.

Opportunity

Excellent higher education prepares and positions students for their future. Network solutions can help. Students can showcase their accomplishments to global audiences using live streaming cameras with autotracking of moving people and objects for performances, concerts, sporting events, and more. That same broadcasting camera can also be used to extend lectures, symposia, and conferences to campuses around the world, boosting your students' profiles – and your university's – on the world stage.

For hands-on trainings, teachers can remotely monitor and guide multiple students throughout the process using visual cameras with two-way audio installed at student stations, rather than physically moving to spot-check them at different stages. Working more independently prepares students for real-world scenarios, and students can review the footage later to analyze and learn from their performance.



Privacy and cybersecurity

An essential part of a good student experience is confidence that personal data is secure and that personal privacy is being upheld. Because regulations vary around the world, Axis has multiple tools in place to ensure campuses can comply with local legislation and best practices.

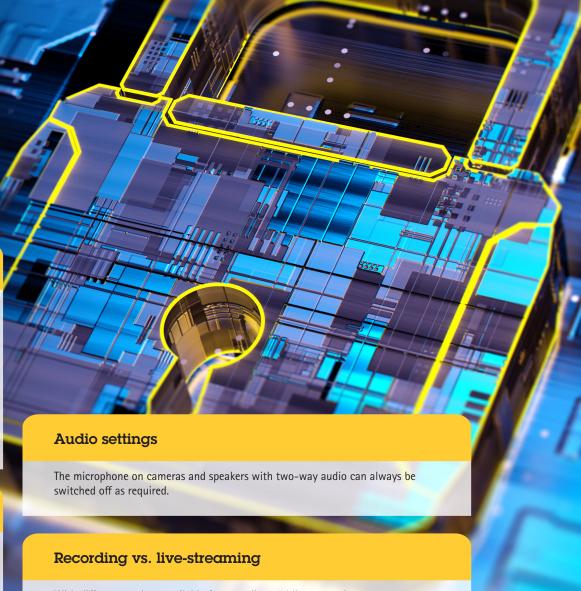
Video masking

Safeguard against physical identification – and avoid capturing off-campus areas you aren't allowed to film – using Axis solutions that enable partial or total privacy in a variety of environments. Masking allows you to see movements and activities while ensuring compliance with laws or regulations, such as GDPR.

Axis solutions operate on the edge, before data ever leaves the camera. They're also flexible, so you can easily define areas with no masking – for example, to clearly show a lecturer on a stage, but mask the surrounding audience members. When needed, you can even maintain both a masked and unmasked feed from a single camera, with the unmasked feed available only to authorized individuals for post-incident forensic purposes.

Cybersecurity

Axis follows industry best practices to minimize your exposure to cybersecurity risks. Axis Edge Vault is a hardware-based platform that include cryptographic computing modules to guarantee and protect the identity and integrity of Axis devices from unauthorized access. The platform supports features such as secure key storage, Axis device ID, secure boot, and signed firmware. Additionally, signed video makes it possible to check if the exported video has been tampered with.



With different settings available for recording and live streaming, you can ensure broadcasting from your campus complies with both event contracts and local regulations.

Remote learning

Support students unable to attend a lecture due to illness or extreme weather by capturing and broadcasting lessons with live streaming cameras. When permitted by local legislation, recorded lessons can also be made available on demand for students who would like to review lectures.



Live broadcasting

Extend the audience for your campus activities with **live streaming cameras** to broadcast performances, announcements, lectures, conferences and symposia, and sporting events.



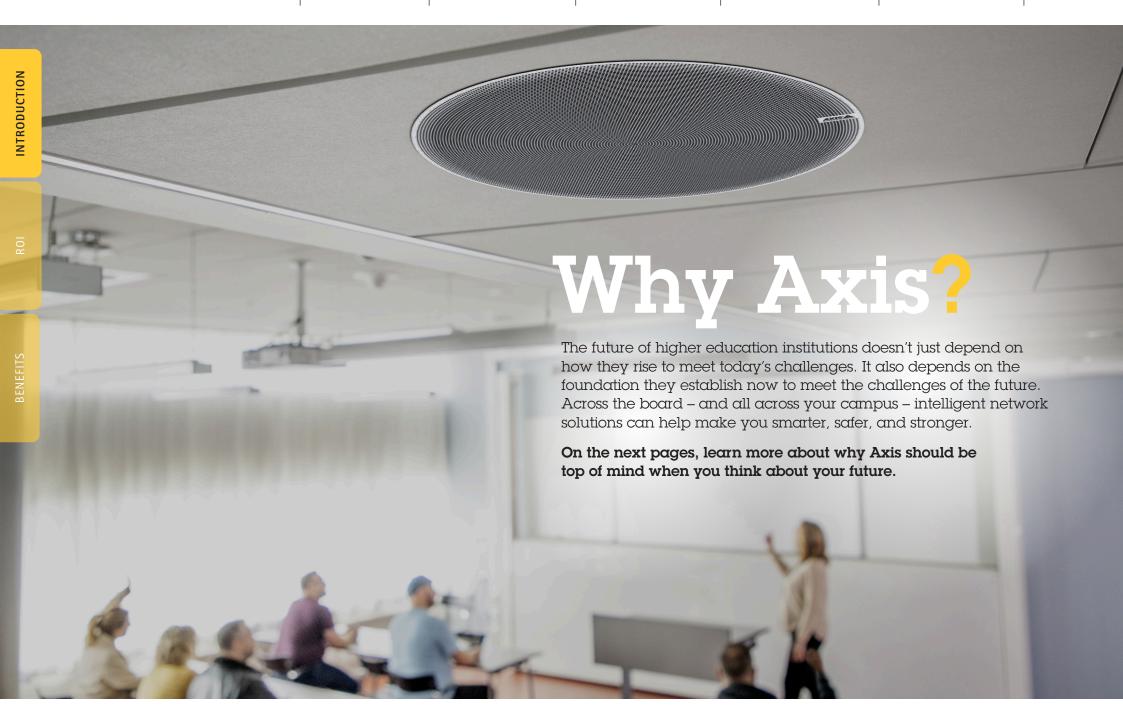
Hands-on training

Provide real-time, individualized guidance from one instructor to many students, while letting them work more independently, using visual cameras, speakers, and video management software. Body worn cameras can capture a hands-on process from the student's point of view and be used afterwards in additional trainings.

Access control

Make valuable resources such as labs, libraries, fitness centers, and media centers available to students up to 24/7 using network intercoms with built-in credential readers and video. In the event of an incident, video and access records help fast-track investigations, and compromised credentials can be quickly deactivated.







The number one reason

Return on your investment

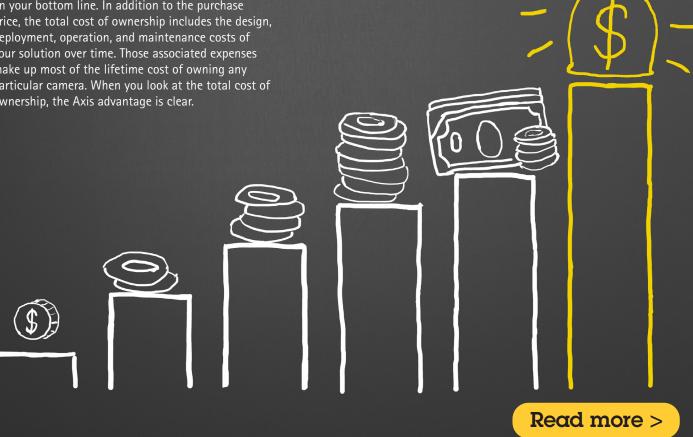
When you invest in an Axis network solution, you get a world-class security system, but you also get a flexible, scalable platform that supports viable solutions for safer campuses, more efficient operations, and a better student experience. Axis products deliver, thanks to their outstanding image quality, powerful processors, robust construction, and open platform. And because they reliably keep on delivering, year after year, they are revenuegenerating assets over the long term.

The potential return on your investment is a significant factor when it comes to choosing a network solution provider. Just as significant is the true cost of the solution you choose.

Think long-term

When it comes the cost of a network solution, the cost of the hardware is just the tip of the iceberg.

It's in the total cost of ownership – not the sale price of the camera you pick – that has the biggest impact on your bottom line. In addition to the purchase price, the total cost of ownership includes the design, deployment, operation, and maintenance costs of your solution over time. Those associated expenses make up most of the lifetime cost of owning any particular camera. When you look at the total cost of ownership, the Axis advantage is clear.





Design and deployment

We offer several free tools to save you time and hassle during product selection and site design, even helping ensure that you have your preferred mounts and accessories from day one. Additionally, Axis multidirectional and panoramic cameras let you cover more area with just one camera, reducing the number of devices and licenses you need to purchase, operate, and maintain. And thanks to power over ethernet (PoE), our speakers don't require you to invest time or money installing specialized audio cabling.

WHY AXIS?

Operation

Axis technologies that lower bandwidth, storage, and energy consumption further cut operating costs. For example, Axis Lightfinder delivers high-resolution, full-color video with a minimum of motion blur even in near darkness, so you don't have to install or power external light sources. Axis Zipstream preserves crucial forensic detail while significantly lowering bandwidth and storage requirements. And because our powerful processors support sophisticated analytics on the edge, your access to actionable insights comes with a reduced demand on servers or cloud services.

Maintenance and performance

Axis designs high-quality products that last, with options that stand up to nearly every environment, including extreme temperatures, harsh weather, and vandal-prone areas. As a result, you save money on maintenance, repair, and replacement. Just as important, your system spends more time up and running, generating more value for you.

More reasons to choose Axis







Openness

The philosophy of openness sits at the heart of Axis. By building our technology on open standards, we ensure flexibility and scalability as well as the ability to integrate our products with your existing systems and legacy devices. A network solution based on open standards offers you more freedom – because your needs and priorities can change, we never lock you into a proprietary system or force you to purchase all your functionality up front. We provide solutions that fit your current needs and can evolve along with you.

Support all the way

You can always rely on Axis for the highest quality products, service, and support. We work with our global network to provide you with tools and resources every step of the way, starting with hardware selection and installation design. We'll help you identify the analytics that will get the most out of your solution, and we'll connect you to our partner network when needed. But our services don't stop after installation – we keep you up and running. We offer online support, product warranties, an advanced replacement policy, and industry-recognized training. With Axis, you can rest assured that you'll receive assistance wherever you are, whenever you need it.

Cybersecurity

To mitigate cybersecurity risks, Axis implements best practices in our information security management system, supply chain, software development, and vulnerability management. And because cybersecurity is a shared responsibility, we also offer ongoing customer guidance, technologies, tools, and services. For example, hardening guides are available for AXIS OS, and we provide a security notification service and free firmware updates with security patches. Finally, tools like AXIS Device Manager make it easy to efficiently configure, manage, and maintain Axis devices and their security throughout their lifecycle.

Two heads are better than one

While schools the world over share many of the same challenges and goals, no two are exactly alike. Our experienced partner network and innovative technology can help you design the right solution for your situation...and figure out the best way to leverage your chosen solution to do double and triple duty.

We don't just help secure compuses. We help you secure your future.

Contact us today.

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.

For more information, please contact your Axis sales representative.

