

AXIS Camera Station Edge

Introduction

This document is based on the latest release. For more information, see:

- *AXIS Camera Station Edge release notes*
- *AXIS Camera Station Edge product page*

AXIS Camera Station Edge is an easy-to-install, easy-to-use, packaged video management system. It's a cloud-first solution, so most functions need an internet connection to work. In this guide, you'll find a summary of the main features and functions.

The complete solution includes:

- **AXIS Camera Station Edge desktop client:** The client you use to install and configure devices.
- **Mobile app for AXIS Camera Station Edge:** Provides access to recordings and live video across multiple sites. Available for Android and iOS devices.
- **Cloud web application:** AXIS Camera Station Edge lets you connect to cloud services to view video and manage devices, as well as use optional cloud storage, from an internet browser.
- **Axis Secure Remote Access (SRA):** An Axis technology that lets you securely access Axis cameras and surveillance systems from anywhere, with no need to configure port forwarding, VPNs, or firewall rules. It's automatically configured during installation.

General client features

Functionality	Description
Camera view pane	A workspace that gives you instant access to your views and cameras. You can pin the view pane to the left side.
Invitations	Shows a notification in this menu when you receive an invitation to a site.
Switch site	Switch between the sites you have access to.
Online help	Get updated help information when you need it. The content reflects the page you're viewing, so you can find what you need quickly.
What's new	Gives you an overview of new features added in an update.
Events list	Lists notifications for quick access to alarm events.
Operator-selectable video stream profiles (low and high)	Useful for low-bandwidth connections and for a better operator experience.
Stream information for diagnostics (F12 on your keyboard)	Shows live-view performance information instantly, such as communication mode (TURN or peer-to-peer), bandwidth, frame rate, and resolution.
Secure Remote Access	Uses encryption (AES-256, TLS 1.2) and multi-level authentication to keep data transfer secure.
Data-saving mode	Lowers video quality on all streams to "low" when video streams over TURN servers and you've been inactive for more than 5 minutes. It also stops all active video streams automatically if you minimize the client.
Offline mode	Lets you use AXIS Camera Station Edge without an internet connection. You're limited to live view and recordings in this mode.

Software customization

Functionality	Description
Adapting the user interface	Choose from color themes (light and dark) to suit your environment and preferences.
Languages	Choose from several supported languages to localize the user interface.
Ringtone for incoming calls	Choose your preferred ringtone for incoming intercom calls.
Notification sound	Choose a custom sound file, or use the default notification sound for events.
Auto-start in full screen	Starts the application in full screen, whether Windows starts it automatically at login or you start it manually.
Action buttons	Add action buttons in live view to control device functionality, such as illumination, audio messages, or I/O. Action buttons trigger action rules from a virtual input, which you define in the camera's event configuration.

Viewing and video

Functionality	Description
Synchronized live video from Axis devices	Get the full overview by viewing live video from different cameras at once.
UltraHD 4K	Supports high-resolution cameras for clear identification of incidents (requires an appropriate client and display).
360° dewarping in live view and replay	Gives operators a complete scene overview without blind spots.
Axis Corridor Format (9:16)	Optimizes monitoring of tall, narrow scenes such as aisles and corridors.
PTZ control, including preset positions and autofocus	Follow and track moving objects and focus on details of interest. Use preset positions to automatically view an area of interest when an alarm is triggered.
Split views	Design views with predefined split-view layouts, up to 6 x 6 (36). Performance depends on your hardware.
Custom dewarped views for 360° cameras	Add digital preset positions for areas of interest and use them within split views.
Multi-window	Open multiple instances of your views. Ideal for ultra-wide monitors, so you can keep live view and replay open in different windows.
User-defined video sequences	Create virtual guard tours to automatically overview your site.
Overlays	Enable overlays, such as the camera's current time and date.
Snapshot still images from live view	Save and share still images from cameras with others.
Full-screen camera view	Displays the selected camera view in full-screen mode, hiding menus and controls to maximize the video area.

Audio

Functionality	Description
Live audio from a microphone connected to a camera or other audio-enabled device	Listen to live view scenes and get both video and audio recordings.
Live talk to a speaker	Speak live to deter intruders or communicate with staff and customers.
Action buttons to trigger stored messages	Play pre-recorded messages using action buttons to deter intruders or inform staff and customers.
Push-to-talk audio	Available for all Axis cameras that support half-duplex audio.
Listen to this source only	Mute all other sources with one click while monitoring multiple video and audio channels.

Recording playback

Functionality	Description
Multiview synchronized playback	Get the full overview of an incident by investigating multiple cameras at once.
Video scrubbing	Quickly investigate recorded video by dragging the timeline forward and backward, on a single camera or several.
Fast play (up to 8x)	Quickly analyze video to find the section you're interested in.
Frame advance (investigation mode)	Investigate details frame by frame.
Snapshot still images from replay	Easily share images with others.
Color-coded timeline with filter	Clear color coding for different types of recordings and events, with filters to quickly locate the incident you need.
Calendar selection	Search within specific times and dates to quickly find the video you need.

Recordings and events

Functionality	Description
Continuous and motion-based recording	Set the recording mode for each camera, including alarm-triggered recording.
Pre-buffer for motion detection recordings	A 5-second pre-alarm buffer records video from just before a detected event, so you get the full picture.
Configurable include and exclude areas for motion detection	Define a free-shape include area and multiple exclude areas to improve motion detection performance and reduce false alarms.
Configurable object categories	Detect objects such as humans and vehicles.
Motion detection filters	Filter out short-lived, small, and swaying objects to reduce false alarm triggers.
Scheduling	Use predefined schedules to record only during certain hours, or edit and create your own. Schedule changes apply only to the camera you're editing.

Active alarm handling

Functionality	Description
Alarm alerts and notifications	Sends alarms to users connected to the site.
Alarm view	Automatically switches to the video view associated with the alarm.

Video export

Functionality	Description
Right-click to select video for export	Right-click an event and select Export.
Markers to select video for export	Set the start and end of an export using markers. Drag a marker to preview the video without needing to know the exact time the event occurred.
Add multiple cameras and recorded sequences to an export	Combine different cameras and recordings from different times into one export for a complete overview of the incident.
Digital signature	Increases the evidential value of exported material. Use the digital signature to verify that a video export hasn't been tampered with since export.
Integrated signed video	Axis video streams include information that the file player uses to verify the authenticity of exported video.
Exported video formats	Export video as MKV or MP4.
Axis File Player	Included by default so third parties can play exported video without installing extra software.

User management and permissions

Functionality	Description
My Axis account	A personal account from Axis that gives you access to a range of services and resources tied to Axis products. It's required for cloud services and is secured with multi-factor authentication (MFA), supporting authenticator app and email methods.
User access levels	Choose from these access levels: • Administrator: Full access to the system, including system configuration and live and recorded video from all cameras. • Operator: Access to live and recorded video from cameras on the site. • Viewer: Access to live video from cameras on the site.
Permissions	Restrict the ability to save recordings and take snapshots on a per-client basis.

Scalability

Functionality	Description
Site scalability	A site is a single point of entry to a surveillance solution, for example, all the cameras in a store. Keep track of several sites through a single My Axis account. Each site supports up to 150 devices; staying within this limit helps maintain reliable operation. For larger deployments, we recommend splitting devices across multiple sites.

Storage

Functionality	Description
Per-camera retention times	Set individual retention times for each camera to manage storage and comply with regulations.
Local storage options	Supports the AXIS S30 and S40 Recorder Series and AXIS Surveillance Cards.
Cloud storage	Available as an optional subscription service.

Integration with other Axis products

Functionality	Description
AXIS Camera Station Edge is the perfect match for your Axis devices	Fully supports Axis cameras and encoders running AXIS OS 11.11 or later. For older devices running AXIS OS 8.40 or 9.80, use an AXIS S30 Series Recorder as a bridge to integrate them with your AXIS Camera Station Edge solution.
360° dewarping in live view and playback	Gives operators a complete scene overview without blind spots.
Axis multi-sensor stitching	Presents multiple camera sensors and streams as one joined view.
Axis multidirectional cameras with PTZ	The fixed cameras provide a complete scene overview while the PTZ captures more detail. Click within the fixed camera's view to move the PTZ to that position.
Axis thermal cameras	Reliable detection in all environmental conditions.
Axis intercoms	Answer, decline, or ignore calls; communicate by audio and video; and open the door remotely. Features include: • A preview window showing live video of the caller. • Support for multiple stacked calls. • Calls still show even if AXIS Camera Station Edge is minimized. • Answer calls and open doors from the Axis mobile app. • Enable "Speak" to communicate with the door station when a call starts.
Combined siren and light	Trigger manually from action buttons.
Audio speakers	Enhance your surveillance system with audio: • Associate speakers with a camera to view and talk live to the site. • Trigger pre-recorded messages, such as "wrong direction" or "intruder detected," manually from action buttons.
Axis decoders	Display video and split views on network monitors without needing a client, for example, in customer areas or manufacturing spaces.
AXIS Object Analytics	Select which objects to detect, such as humans, vehicles, or specific vehicle types like cars, trucks, buses, and bikes. Then define behavioral conditions, such as time in area or cross line, to trigger an event.

Mobile app for iOS and Android

Note

Functionality can vary slightly between operating systems.

Functionality	Description
View live and recorded video	Connect to a selected site and view video from anywhere.
Picture-in-picture	Display a live view image while reviewing recordings. This is useful for checking both the alarm trigger and live status at the same time.
Video scrubbing	Quickly investigate recorded video by dragging the timeline forward and backward.
Fast play (up to 8x) and slow play (0.25x)	Quickly analyze video to find the section you're interested in.
Frame advance	Investigate details frame by frame, forward and backward.
Color-coded timeline with filter	Clear color coding for different types of recordings and events, with filters to quickly locate the incident you need.
Calendar selection	Search within specific times and dates to quickly find the video you need.
Video encoding	Supports H.264 and H.265 video encoding.
Multi-view of live video from a single site	View multiple cameras to overview a site.
Export video	Share video with third parties instantly.
Snapshot stills	Share still images with third parties instantly.
PTZ control, including presets	Control PTZ to follow moving objects.
360° panoramic dewarp	Dewarp 360° panoramic video in both live view and replay.
Audio (listen)	Listen in on live view scenes.
Audio (talk)	Talk to a speaker associated with a camera.
Axis intercom integration	Two-way audio communication and a live video image of the caller. You can also open a door connected to the door station from the app.
Mobile alarm notifications	Receive alarm notifications on your mobile device. Configure alarm notification schedules in the AXIS Camera Station Edge desktop client.
Notification list	Lists notifications in the app so you can quickly jump to alarm events.
Action button	Control external equipment from the app, such as illumination, audio messages, or opening and closing shutters and barriers.

Web applications in AXIS Camera Station Edge

Note

Use the AXIS Camera Station Edge web client to connect to your site. You don't need to install any software on your PC or Mac. The availability of some features below depends on your camera's capabilities.

Video operation

Functionality	Description
View live and recorded video	Connect to a site and view live and recorded video, including local and cloud-stored recordings.
Manage split views	Display multiple camera views in the same window to monitor different areas at the same time. Use split views created on your AXIS Camera Station Edge site, or create new ones directly in video operations.
Select playback quality	Choose a stream profile (high or low) to suit your network bandwidth.
Share video and export	Share links to a specific point in a recording and export sections of video. Exports include recordings from all storage locations in the selected time period, including both local and cloud storage if cloud storage is enabled.
Snapshot still images from live view	Take a snapshot of recordings or live video.
Control PTZ cameras	Control PTZ cameras, including PTZ presets.
360° panoramic dewarp	Dewarp 360° panoramic video in both live view and replay.
Audio	Two-way audio: transmit live audio to speakers and listen to audio from your microphones.
Keyboard controls	Use keyboard shortcuts to control your recordings in the web client.
PC and Mac compatibility	Works in a wide range of browsers, including Chrome, Edge, and Safari.

Additional capabilities

AXIS Camera Station Edge also offers these capabilities as web applications:

Functionality	Description
Device management	View device status and update firmware.
License management	Manage the licenses in your system.
User management	Invite cloud users by their My Axis email address. Assign roles so users can view video or manage your systems.
Cloud storage	Save your recordings securely in the cloud, in the region of your choice. A single license stores recordings at 15 fps and 720p for 30 days. Add licenses to increase resolution to 1080p or extend the storage duration.

Integrator functionality

Management of software

Functionality	Description
Client software updates	Pushed automatically to your desktop client. New updates download and install automatically when you restart the client.

Device configuration

Functionality	Description
Design a solution with AXIS Site Designer	The tool includes camera, accessory, and recorder selectors and a built-in storage calculator. It also provides a bill of materials, installation notes, and a price quotation.
Configuration sheet	Create a site configuration document.
Automatic device discovery	Discovers devices on the network automatically, even without IP address configuration.
HTTPS by default	Selects HTTPS communication by default when you add a device, and falls back to HTTP for devices that don't support it.
Automatic view creation	The Windows client generates default views automatically. These views are always available, even offline, to all users, and always include every available camera. When you add or remove a camera, the views update automatically.
Image configuration	Adjust camera image settings, including brightness, color, WDR, rotation, and privacy mask.
PTZ presets	Add and save PTZ presets so you can quickly move and zoom to an area of interest, such as a garage entrance, to capture a license plate.
Support for additional Axis devices	Add devices such as audio, I/O, and intercoms to expand your system and meet customer requirements.
Remote access to a device's web page	Access all of a connected device's features through its web interface, for advanced functionality and efficient remote configuration.

Management of devices

Functionality	Description
AXIS OS upgrades	AXIS Camera Station Edge updates your devices automatically. New updates download and install automatically when available, but you can also schedule them.
Device properties	Shows an overview of the device model, MAC address, AXIS OS version, and IP address.
Set time and date	Synchronizes your Axis devices automatically with an NTP (Network Time Protocol) source, the Axis internet time server by default. You can also set the time manually by syncing with your local computer's time.
Install a camera application (ACAP)	A camera application adds functionality to Axis network video products, such as detection, recognition, tracking, or counting. Install an ACAP

	directly from the AXIS Camera Station Edge client, or download it from the Axis or vendor's website.
Restart device	An administrator can restart a device from the client, without needing to be on-site.
Remove device	Removes the device from the site and resets it to factory defaults, unless factory reset is off.
Refresh all	Reloads the configuration workspace and refreshes the status of all devices on the site.
Device status	View the status of your devices.

Reporting and verification

Functionality	Description
System report	Contains all system logs and configuration settings. Use it with technical support to simplify troubleshooting.
Status of Axis services	A direct link to status.axis.com for real-time operational status, disruptions, and planned maintenance on Axis online services. Check for outages and subscribe to email alerts.

Cloud security and compliance

Functionality	Description
Data encryption	AXIS Camera Station Edge uses strong encryption protocols, both in transit and at rest. All communication between devices and the cloud is encrypted for data integrity and confidentiality, using TLS 1.2 in transit and AES-256 at rest.
Secure authentication	Multi-factor authentication (MFA) adds an extra layer of security for user access to cloud services. Role-based access control lets administrators define and manage user permissions, so only authorized personnel can access sensitive data.
Data residency (cloud storage)	Choose the geographic region where your video is stored, to comply with local data residency requirements and regulations.
Automatic updates	Devices and the system receive regular security updates and patches to protect against the latest threats and vulnerabilities.

Additional information

- *AXIS Camera Station Edge compatible products page*: Compatible devices and models
- *AXIS Camera Station Edge Help Center*: Online user manual
- *AXIS S30 Recorder Series*: Recorders with a powerful PoE switch
- *AXIS Surveillance Cards*: Secure, durable, and cost-efficient SD cards for surveillance
- *AXIS Camera Station Cloud Storage*: Safeguard your video in the cloud
- *Axis Trust Center*: How Axis implements security compliance, transparency, data protection, and privacy
- *License agreements*: Declarations and statements
- *Axis vulnerability management*: Security through transparency
- *Axis Security Notification Service*: A notification service for vulnerabilities and other security-related matters for Axis products

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