

AXIS M3077-PLVE Network Camera

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AXIS M3077-PLVE Network Camera -

Get started

Get started

Installation

Installation tutorial AXIS M3077-PLVE and AXIS M3057-PLVE Mk II

Installation

Find the device on the network

Find the device on the network

How to access the device

To find Axis devices on the network and assign them IP addresses in Windows®, use
AXIS IP

Utility or

AXIS Device

Manager. Both applications are free and can be downloaded from
axis.com/support

For more information about how to find and assign IP addresses, go to
How to assign an IP address and access your device

Browser support

You can use the device with the following browsers:

	Chrome TM	Firefox ®	Edge ®	Safari ®
Windows ®	recommended	x	x	
macOS ®	recommended			x
Other operating systems		x		

If you need more information about recommended browsers, go to
axis.com/browser-support

Browser support

Access the device

Access the device

Access from a Browser

Open a browser and enter the IP address or host name of the Axis device.

If you do not know the IP address, use

AXIS IP

Utility or

AXIS Device

Manager to find the device on the network.

Enter the username and password. If you access the device for the first time, you must set the root password.

Set a new password for the root account

.

The live view page opens in your browser.

Verify that no one has tampered with the firmware

To make sure that the device has its original Axis firmware, or to take full control of the device after a security incident.

Reset to factory default settings. See

Reset to factory default settings

.

After the reset, secure boot guarantees the state of the device.

Configure and install the device.

Verify that no one has tampered with the firmware

Set a new password for the root account

The default administrator username is

root

.

If the password for root is lost, reset the device to factory default settings.

Support tip: Password security confirmation check

Type a password. Follow the instructions about secure passwords. See

Secure passwords

.

Retype the password to confirm the spelling.

Click

Create login

. The password has now been configured.

Set a new password for the root account

Secure passwords

Axis devices send the initially set password in clear text over the network. To protect your device after the factory reset.

The device password is the primary protection for your data and services. Axis devices do not impose a password policy.

To protect your data we strongly recommend that you:

Use a password with at least 8 characters, preferably created by a password generator.

Don't expose the password.

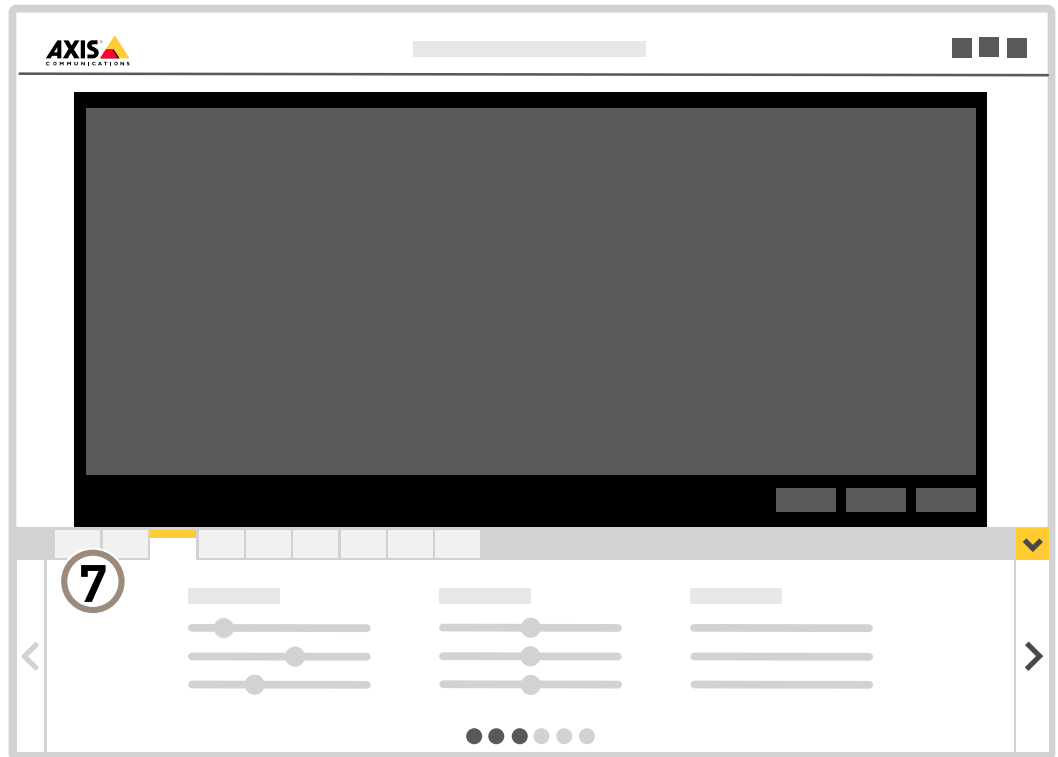
Change the password at a recurring interval, at least once a year.

Secure passwords

Webpage overview



- 1
Live view control bar
- 2
Live view
- 3
Product name
- 4
User information, color themes, and help
- 5
Video control bar
- 6
Settings toggle



7

Settings tabs

Webpage overview

Additional settings

Additional settings

Adjust the image

This section includes instructions about how to configure your device. If you want to learn more about how c

Learn more

Adjust the image

Rotate the image with digital roll

If you rotate the image, all views will be affected.

To rotate the 360° view, go to

System > Orientation

and use the slider.

You can also use the text field to change the roll angle.

Rotate the image with digital roll

Configure the quad view

Quad view is available in these mounting positions:

Desk

Ceiling

Select

Quad view

among the live feed sources.

Go to

Settings > System > Orientation

and click



To change the view order, drag and drop the yellow boxes.

Configure the quad view



About capture modes

About capture modes

About capture modes

A capture mode is one of the possible views for this product and can be accessed from the drop-down list in t

View	Symbol	Aspect ratio	Resolutions AXIS M3077-PLVE
Overview		1:1	2016x2016 to 160x160
Panorama		8:3 16:9 32:9	2560x960 to 192x72 2560x1440 to 256x144 2560x720 to 1280x360
Double Panorama		4:3 16:9	2560x1920 to 384x288 2560x1440 to 512x288
Quad View		4:3 16:9	2560x1920 to 384x288 2560x1440 to 512x288
View Areas 1-4		4:3 16:9	1920x1440 to 320x240 1920x1080 to 256x144
Corner Left/Right		8:3 2:1	2304x864 to 192x72 2368x1184

Double Corner		4:3 1:1	1920x1440 to 384x288 2016x2016 to 480x480
Corridor		4:3 16:9	2560x1920 to 320x240 2560x1440 to 256x144

Level the camera

To adjust the view in relation to a reference area or object, use the leveling guide in combination with the digital roll.

Go to

Settings > System >

Orientation

and click



Adjust the camera by using

Digital roll

until the position of the reference area or object, is aligned with the leveling guide.

Level the camera

Select exposure mode

There are different exposure mode options in the camera that adjusts aperture, shutter speed, and gain to improve image quality.

Settings > Image > Exposure

and select between the following exposure modes:

For most use cases, select

Automatic

exposure.

For environments with certain artificial lighting, for example fluorescent lighting, select

Flicker-free

Select the same frequency as the power line frequency.

For environments with certain artificial light and bright light, for example outdoors with fluorescent lighting, select

Flicker-reduced

Select the same frequency as the power line frequency.

To lock the current exposure settings, select

Hold current

Select exposure mode

Optimize IR illumination

In most cases, the exposure of the image is automatically adjusted to obtain optimal image quality. If the camera is used in low light conditions, the exposure is automatically adjusted to obtain optimal image quality.

Depending on the installation environment and the conditions around the camera, for example external lighting, the exposure is automatically adjusted to obtain optimal image quality.

Go to
Settings > Image > Day and night
, and turn on
Allow illumination

Turn on
Live view control

Minimize
Settings

In the live view control bar, click the
Illumination
button, turn on
IR light
and select
Manual

Adjust the intensity.

Optimize IR illumination

Benefit from IR light in low-light conditions using night mode

Your camera uses visible light to deliver color images during the day. As the available light diminishes, you

Go to
Settings > Image > Day and night
, and make sure that the
IR cut filter
is set to
Auto

Benefit from IR light in low-light conditions using night mode

Reduce noise in low-light conditions

To reduce noise in low-light conditions, you can adjust one or more of the following settings:

Adjust the trade-off between noise and motion blur. Go to
Settings > Image > Exposure
and move the
Blur-noise trade-off
slider toward
Low noise

Set the exposure mode to automatic.

A high max shutter value can result in motion blur.

To slow down the shutter speed, set max shutter to the highest possible value.

Reduce sharpness in the image.

Reduce noise in low-light conditions

Reduce motion blur in low-light conditions

To reduce motion blur in low-light conditions, adjust one or more of the following settings in

Settings > Image > Exposure

:

Move the

Blur-noise trade-off

slider toward

Low motion blur

.

When you increase the gain, image noise also increases.

Set

Max shutter

to a shorter time, and

Max gain

to a higher value.

If you still have problems with motion blur:

Increase the light level in the scene.

Mount the camera so that objects move toward it or away from it rather than sideways.

Reduce motion blur in low-light conditions

Maximize the details in an image

Maximize the details in an image

How to maximize details in an image

If you maximize the details in an image, the bitrate will probably increase and you might get a reduced frame rate.

Set the compression as low as possible.

Select MJPEG streaming.

Turn off Zipstream functionality.

Handle scenes with strong backlight

Dynamic range is the difference in light levels in an image. In some cases the difference between the darkest and the brightest parts of the image can be very large.



Image without WDR.



Image with WDR.

WDR can cause artifacts in the image.

WDR may not be available for all capture modes.

Go to

Settings > Image > Wide dynamic range

.

Turn on WDR.

If you still have problems, go to

Exposure

and adjust the

Exposure zone

to cover the area of interest.

Find out more about WDR and how to use it at

axis.com/web-articles/wdr

.

Handle scenes with strong backlight

Hide parts of the image with privacy masks

You can create one or several privacy masks to hide parts of the image.

How to create a privacy mask

Go to

Settings > Privacy mask

.

Click

New

.

Adjust the size, color, and name of the privacy mask according to your needs.

How to change the appearance of the mask

Hide parts of the image with privacy masks

Show an image overlay

You can add an image as an overlay in the video stream.

Go to

Settings > Overlay

.
Click

Image list

.
Upload an image and click

Done

.
Click

Create overlay

.
Select

Image
and click
Create

.
Select the image from the drop-down list.

To position the image overlay, choose

Custom

or one of the presets.

Click

Create

.
Show an image overlay

Show a text overlay in the video stream when the device detects motion

This example explains how to display the text “Motion detected” when the device detects motion.

How to show text overlay when the camera detects motion

Make sure that AXIS Video Motion Detection is running:

Go to

Settings > Apps

>

AXIS Video Motion Detection

.
Start the application if it is not already running.

Make sure you have set up the application according to your needs.

Add the overlay text:

Go to

Settings > Overlay

.
Select

Create overlay

and select

Text

overlay.

Enter

#D

in the text field.

Choose text size and appearance.

To position the text overlay, choose

Custom

or one of the presets.

Create a rule:

Go to

System > Events > Rules

and add a rule.

Type a name for the rule.

In the list of conditions, select AXIS Video Motion Detection.

In the list of actions, select

Use overlay text

.

Select a view area.

Type "Motion detected".

Set the duration.

Click

Save

.

If you update the overlay text it will be automatically updated on all video streams dynamically.

Show a text overlay in the video stream when the device detects motion

Show the pan or tilt position as a text overlay

You can show the pan or tilt position as an overlay in the image.

Go to

Settings > Overlay

and click

Create overlay

.

Select

Text

and click

Create

.

In the text field, type

#x

to show the pan position.

Type

#y

to show the tilt position.

Choose appearance, text size, and alignment.

Include

the text overlay.

The current pan and tilt positions show up in the live view image and in the recording.

Show the pan or tilt position as a text overlay

To learn more about different pan, tilt, and zoom settings, see

View and record video

This section includes instructions about how to configure your device. To learn more about how streaming and

Streaming and storage

View and record video

Reduce bandwidth and storage

Reduce bandwidth and storage

How to reduce bandwidth and storage

If you reduce the bandwidth it can result in loss of details in the picture.

Go to live view and select

H.264

Go to

Settings > Stream

Do one or more of the following:

The zipstream settings are used for both H.264 and H.265.

Turn on dynamic GOP and set a high GOP length value.

Increase the compression.

Turn on dynamic FPS.

Web browsers do not support H.265 decoding. Use a video management system or application supporting H.265.

Set up network storage

To store recordings on the network, you need to set up your network storage.

Go to

Settings > System

>

Storage

.
Click

Setup

under

Network storage

.
Enter the IP address of the host server.

Enter the name of the shared location on the host server.

Move the switch if the share requires a login, and enter username and password.

Click

Connect

.
Set up network storage

Record and watch video

To record video you must first set up network storage, see

Set up network storage

, or have an SD card installed.

Record video

Go to the live view.

To start a recording, click

Record

. Click again to stop the recording.

Watch video

Click

Storage > Go to recordings

.
Select your recording in the list and it will play automatically.

Record and watch video

Set up rules and alerts

Set up rules and alerts

Set up rules and alerts

You can create rules to make your device perform an action when certain events occur. A rule consists of con

Trigger an action

Go to

Settings > System > Events

to set up a rule. The rule defines when the device will perform certain actions. Rules can be setup as sched

Select the

Condition

that must be met to trigger the action. If you specify more than one condition for the rule, all of the conditi

Select which

Action

the device should perform when the conditions are met.

If you make changes to an active rule, you have to restart the rule for the changes to take effect.

Trigger an action

Save power when no motion is detected

This example explains how to turn on power saving mode when no motion is detected in the scene.

When you turn on power saving mode, the IR illumination range is reduced.

Make sure that AXIS Video Motion Detection is running:

Go to

Settings > Apps

>

AXIS Video Motion Detection

.

Start the application if it is not already running.

Make sure you have set up the application according to your needs.

Create a rule:

Go to

Settings > System > Events

and add a rule.

Type a name for the rule.

In the list of conditions, under

Application

, select

AXIS Video Motion Detection (VMD)

.

Select

Invert this condition

.

In the list of actions, under

Power saving mode

, select

Use power saving mode while the rule is active

.

Click

Save

.

Save power when no motion is detected

Record video when the camera detects motion

This example explains how to set up the camera to start recording to the SD card five seconds before it detects motion.

How to record a video stream when the camera detects motion

Make sure that AXIS Video Motion Detection is running:

Go to

Settings > Apps

>

AXIS Video Motion Detection

.

Start the application if it is not already running.

Make sure you have set up the application according to your needs. If you need help, see the user manual for AXIS Video Motion Detection 4

.

Create a rule:

Go to

Settings > System > Events

and add a rule.

Type a name for the rule.

In the list of conditions, under

Application

, select

AXIS Video Motion Detection (VMD)

.

In the list of actions, under

Recordings

, select

Record video while the rule is active

.

Select an existing stream profile or create a new one.

Set the prebuffer time to

5 seconds

.

Set the postbuffer time to

60 seconds

.

In the list of storage options, select

SD card

.

Click

Save

.

Record video when the camera detects motion

Record video when the camera detects loud noises

This example explains how to set up the camera to start recording to the SD card five seconds before it detects

Turn on audio:

Set up the stream profile to include audio, see

Add audio to your recording

.

Turn on audio detection:

Go to

Settings > System > Detectors > Audio detection

.

Adjust the alarm level according to your needs.

Create a rule:

Go to

Settings > System > Events

and add a rule.

Type a name for the rule.

In the list of conditions, under

Audio

, select

Audio Detection

.

In the list of actions, under

Recordings

, select

Record video

.

Select the stream profile where audio has been turned on.

Set the prebuffer time to

5 seconds

.

Set the postbuffer time to

60 seconds

.

In the list of storage options, select

SD card

.

Click

Save

.

Record video when the camera detects loud noises

Provide visual indication of an ongoing event

You have the option to connect the AXIS I/O Indication LED to your network camera. This LED can be con

Required hardware

- AXIS I/O Indication LED

- An Axis network video camera

- AXIS I/O Indication LED should be connected to an output port.

- For instructions on how to connect the AXIS I/O Indication LED, see the installation guide provided with

The following example shows how to configure a rule that turns on the AXIS I/O Indication LED to indicate

- Go to

- Settings > System > I/O Ports

- .

- Make sure that the port you connected the AXIS I/O Indication LED to is set to

- Output

- . Set the normal state to

- Open circuit (NO)

- .

- Go to

- Settings > System > Events

- .

- Create a new rule.

- Select the

- Condition

- that must be met to trigger the camera to start recording. It can, for example, be a time schedule or motion

- In the list of actions, select

- Record video

- . Select a stream profile or create a new. Also set the

- Prebuffer

- and

- Postbuffer

- as required.

- Save the rule.

- Create a second rule and select the same

- Condition

- as in the first rule.

- In the list of actions, select

- Toggle I/O while the rule is active

- , and then select the port the AXIS I/O Indication LED is connected to. Set the state to

- Active

- .

- Save the rule.

Other scenarios where AXIS I/O Indication LED can be used are for example:

Configure the LED to turn on when the camera starts, to indicate the presence of the camera. Select

System ready

as a condition.

Configure the LED to turn on when live stream is active to indicate that a person or a program is accessing

Live stream accessed

as a condition.

Provide visual indication of an ongoing event

Set up the intrusion alarm

Use the intrusion alarm switch to, for example, send a notification if someone opens the camera housing.

Before you start

Connect the intrusion alarm switch to pin 1 (ground) and pin 3 (digital input) of the camera's I/O connector

Configure the input port

Go to

Settings > System > I/O ports

.

For

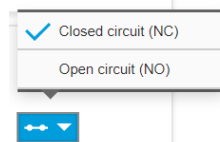
Port 1

:

Select

Closed circuit (NC)

in the drop-down menu



.

Create a rule

Go to

Settings > System > Events

and add a rule.

Type a name for the rule.

In the list of conditions, under

I/O

, select

Digital input

.

In the list of ports, select

Input 1

.

In the list of actions, under

Notifications

, select

Send notification to email

Select a recipient from the list or go to

Recipients

to create a new recipient.

To create a new recipient, click



. To copy an existing recipient, click



Type a subject and a message for the email.

Click

Save

Set up the intrusion alarm

Detect tampering with input signal

This example explains how to trigger an alarm when the input signal has been cut or short-circuited. For more information, see

I/O connector

About I/O connector

How to send an email notification when someone tampers with the input signal

Go to

Settings > System > I/O Ports

and turn on

Supervised I/O

Create a rule:

Go to

Settings > System > Events

and add a rule.

Type a name for the rule.

In the list of conditions, select

Digital input

and then select a port.

In the list of actions, select

Send notification to email

and then select a recipient from the list. Go to

Recipients

to create a new recipient.

To create a new recipient, click



. To copy an existing recipient, click



Type a subject and a message for the email.

Click

Save

Detect tampering with input signal

Send an email automatically if someone spray paints the lens

Send an email automatically if someone spray paints the lens

How to automatically send an email if someone spray paints the lens

How to send an email notification if someone spray paint the lens

Go to

Settings > System > Detectors

Turn on

Trigger on dark images

. This will trigger an alarm if the lens is sprayed, covered, or rendered severely out of focus.

Set a duration for

Trigger after

. The value indicates the time that must pass before an email is sent.

Create a rule:

Go to

Settings > System > Events > Rules

and add a rule.

Type a name for the rule.

In the list of conditions, select

Tampering

In the list of actions, select

Send notification to email

Select a recipient from the list or go to

Recipients

to create a new recipient.

To create a new recipient, click



. To copy an existing recipient, click



. Type a subject and a message for the email.

Click

Save

. Add audio to your recording

Turn on audio:

Go to

Settings > Audio

and turn on

Allow audio

. Go to

Input > Type

and select your audio source.

Edit the stream profile which is used for the recording:

Go to

Settings > Stream

and click

Stream profiles

. Select the stream profile and click

Audio

. Select the checkbox and select

Include

. Click

Save

. Click

Close

. Add audio to your recording

Cleaning recommendations

Never use harsh detergent, for example gasoline, benzene, or acetone.

Use a can of compressed air to remove any dust or loose dirt from the device.

If necessary, clean the lens with a soft cloth dampened with lukewarm water.

Avoid cleaning in direct sunlight or at elevated temperatures, as this may cause stains when the water droplets dry.

Cleaning recommendations

[Learn more](#)

[Learn more](#)

[View area](#)

A view area is a cropped part of the full view. You can stream and store view areas instead of the full view to monitor a specific area of interest.

[View area](#)

[Capture modes](#)

[Capture modes](#)

[About capture modes](#)

Which capture mode to choose depends on the requirements of frame rate and resolution for the specific surveillance application. For more information, see [axis.com](#).

[Privacy masks](#)

A privacy mask is a user-defined area that covers a part of the monitored area. In the video stream, privacy masks are used to redact sensitive information. You'll see the privacy mask on all snapshots, recorded video, and live streams.

You can use the VAPIX® application programming interface (API) to turn off the privacy masks.

If you use multiple privacy masks it may affect the product's performance.

Privacy masks may appear warped in some view modes.

[Privacy masks](#)

[Overlays](#)

[Overlays](#)

Overlays are superimposed over the video stream. They are used to provide extra information during recording and playback.

[Streaming and storage](#)

[Streaming and storage](#)

[Video compression formats](#)

Decide which compression method to use based on your viewing requirements, and on the properties of your network and storage.

[Motion JPEG](#)

Motion JPEG, or MJPEG, is a digital video sequence that is made up of a series of individual JPEG images.

[16 image](#)

frames per second. Full motion video is perceived at 30 (NTSC) or 25 (PAL) frames per second.

The Motion JPEG stream uses considerable amounts of bandwidth, but provides excellent image quality and low latency.

[H.264 or MPEG-4 Part 10/AVC](#)

H.264 is a licensed technology. The Axis product includes one H.264 viewing client license. To install additional licenses, see [axis.com](#).

H.264 can, without compromising image quality, reduce the size of a digital video file by more than 80% compared to Motion JPEG.

[H.265 or MPEG-H Part 2/HEVC](#)

H.265 is licensed technology. The Axis product includes one H.265 viewing client license. To install additional licenses, see [axis.com](#).

Video compression formats

How do Image, Stream, and Stream profile settings relate to each other?

The

Image

tab contains camera settings that affect all video streams from the product. If you change something in this tab,

The

Stream

tab contains settings for video streams. You get these settings if you request a video stream from the product.

Stream

tab, it doesn't affect ongoing streams, but it will take effect when you start a new stream.

The

Stream profiles

settings override the settings from the

Stream

tab. If you request a stream with a specific stream profile, the stream contains the settings of that profile. If you

Stream

tab.

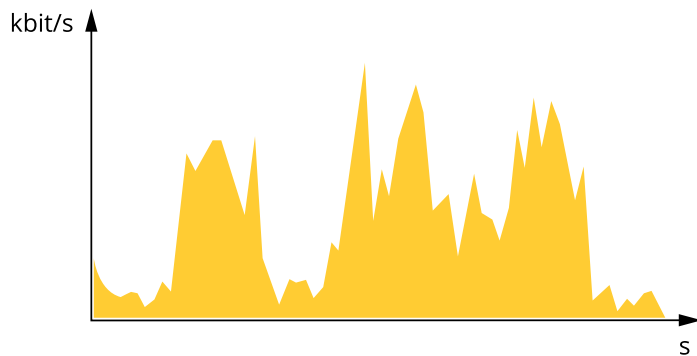
How do Image, Stream, and Stream profile settings relate to each other?

Bitrate control

With bitrate control, you can manage the bandwidth consumption of your video stream.

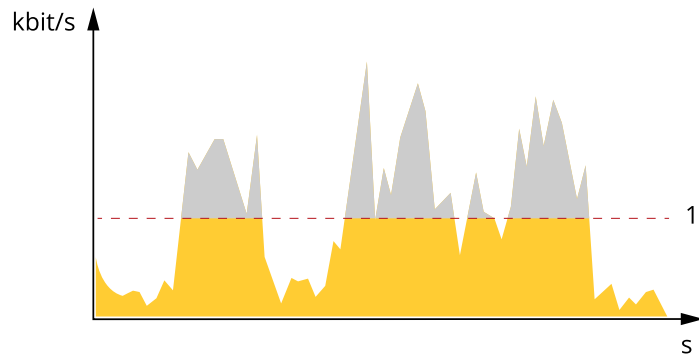
Variable bitrate (VBR)

With variable bitrate, the bandwidth consumption varies based on the level of activity in the scene. The more



Maximum bitrate (MBR)

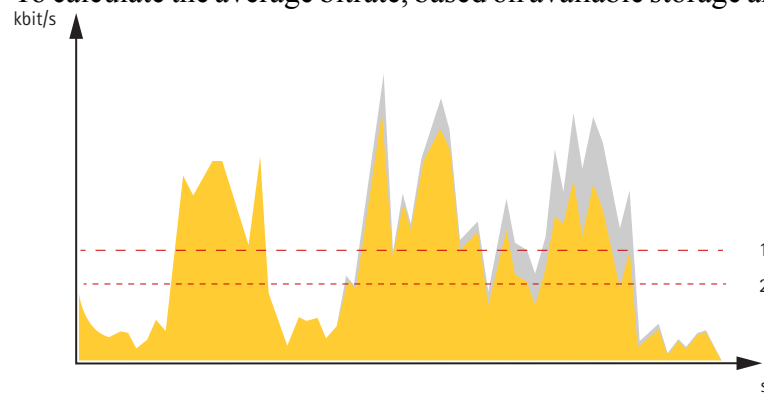
With maximum bitrate, you can set a target bitrate to handle bitrate limitations in your system. You may see



1
Target bitrate
Average bitrate (ABR)

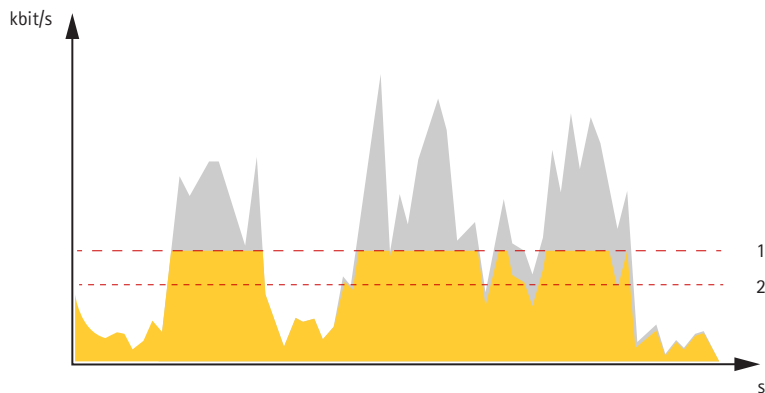
With average bitrate, the bitrate is automatically adjusted over a longer timescale. This is so you can meet the target. To calculate the estimated storage need, set the target bitrate and the retention time.

To calculate the average bitrate, based on available storage and required retention time, use the target bitrate.



1
Target bitrate
2
Actual average bitrate

You can also turn on maximum bitrate and specify a target bitrate within the average bitrate option.



1

Target bitrate

2

Actual average bitrate

Bitrate control

Applications

Applications

About applications

AXIS Camera

Application Platform (ACAP) is an open platform that enables third parties to develop analytics and other ap

axis.com/applications

.

To find the user manuals for Axis applications, go to

axis.com

.

Several applications can run at the same time but some applications might not be compatible with each oth

How to download and install an application

AXIS People Counter

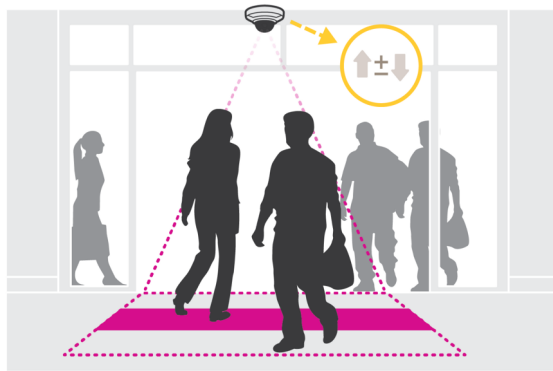
AXIS People

Counter is an analytic application that can be installed on a network camera.

The counter is embedded in the camera which means you do not need a dedicated computer to run the applic

AXIS People

Counter is intended for retail environments, like stores or shopping malls, or other environments where you



AXIS People Counter

Troubleshooting

Troubleshooting

Troubleshooting

Reset to factory default settings

Reset to factory default settings

Reset to factory default should be used with caution. A reset to factory default resets all settings, including

To reset the product to the factory default settings:

Disconnect power from the product.

Press and hold the control button while reconnecting power. See
Product overview

Keep the control button pressed for 15–30 seconds until the status LED indicator flashes amber.

Release the control button. The process is complete when the status LED indicator turns green. The product
192.168.0.90

Use the installation and management software tools to assign an IP address, set the password, and access the
The installation and management software tools are available from the support pages on
axis.com/support

It is also possible to reset parameters to factory default through the web interface. Go to
Settings > System > Maintenance
and click
Default

Firmware options

Axis offers product firmware management according to either the active track or the long-term support (LTS).
Using firmware from the active track is recommended if you want to access the newest features, or if you use
axis.com/support/firmware

Firmware options

Check the current firmware

Firmware is the software that determines the functionality of network devices. One of your first actions when

To check the current firmware:

Go to the product's webpage.

Click on the help menu



Click

About

Check the current firmware

Upgrade the firmware

Preconfigured and customized settings are saved when the firmware is upgraded (provided that the features

Make sure the product remains connected to the power source throughout the upgrade process.

When you upgrade the product with the latest firmware in the active track, the product receives the latest fun

axis.com/support/firmware

AXIS Device

Manager can be used for multiple upgrades. Find out more at

axis.com/products/axis-device-manager

How to upgrade the firmware

Download the firmware file to your computer, available free of charge at

axis.com/support/firmware

Log in to the product as an administrator.

Go to

Settings > System > Maintenance

. Follow the instructions on the page. When the upgrade has finished, the product restarts automatically.

Upgrade the firmware

Technical issues, clues and solutions

If you can't find what you're looking for here, try the troubleshooting section at

axis.com/support

Problems upgrading the firmware

Firmware upgrade fails If the firmware upgrade fails, the device reloads the previous firmware. The most com

Problems setting the IP address

The device is located on a different subnet than the IP address intended for the device and the IP address of the computer used to access the device.

The IP address is being used by another device from the network. Run the ping command (in a Command Prompt window) to test the connectivity of the IP address and the IP address of the device):

If you receive:

Reply from <IP address>: bytes=32; time=10...

this means that the IP address may already be in use by another device on the network.

If you receive:

Request timed out

, this means that the IP address is available for use with the Axis device. Check all other devices on the network for the same IP address.

Possible IP address conflict with IP address already on the device is used before the DHCP server sets a dynamic IP address.

The device cannot be accessed from a browser

Cannot log in When HTTPS is enabled, ensure that the correct protocol (HTTP or HTTPS) is used to access the device.
http
or
https
in the browser's address field.
If the password for the user root is lost, the device must be reset to the factory default settings.
Reset to factory default settings
.

The IP address has been changed by DHCP IP addresses assigned from a DHCP server are dynamic and may change. If the IP address has changed, use the AXIS IP Utility or AXIS Device Manager to locate the device on the network. Identify the device using its model or serial number.
If required, a static IP address can be assigned manually. For instructions, go to axis.com/support
.

Certificate error when using IEEE 802.1X To work properly, the date and time settings in the Axis device must be correct.
Settings > System > Date and time
.

The device is accessible locally but not externally

To access the device externally, we recommend using one of the following applications for Windows

®

:

AXIS Companion

: free of charge, ideal for small systems with basic surveillance needs.

AXIS Camera

Station: 30-day trial version free of charge, ideal for small to mid-size systems.

For instructions and download, go to

axis.com/vms

Problems with streaming

Multicast H.264 only Check if your router supports multicasting, or if the router settings between the client

No multicast H.264 displayed in the client network administrator that the multicast addresses used by the Axis

Check with your network administrator to see if there is a firewall preventing viewing

Poor rendering of H.264 images Check if your graphics card is using the latest driver. The latest drivers can usually

Color saturation is different Modify the 264 image Motion JPEG graphics adapter. Go to the adapter's documentation for

Lower frame rate than expected

Performance considerations

Performance Considerations

Reduce the number of applications running on the client computer.

Limit the number of simultaneous viewers.

Check with the network administrator that there is enough bandwidth available.

Lower the image resolution.

The maximum frames per second is dependent on the utility frequency (60/50 Hz)

Can't select H.265 encoding in the client video management system or not support H.265 decoding. Use a video management system or ap

Technical issues, clues and solutions

Issues with audio

There is no sound in my recordings Make sure the top cover is mounted correctly. The microphones are located in the

Performance considerations

Performance considerations

Performance Considerations

When setting up your system, it is important to consider how various settings and situations affect the perform

The following factors are the most important to consider:

High image resolution or lower compression levels result in images containing more data which in turn affects the frame rate.

Rotating the image in the GUI will increase the product's CPU load.

Access by large numbers of Motion JPEG or unicast H.264 clients affects the bandwidth.

Simultaneous viewing of different streams (resolution, compression) by different clients affects both frame rate and bandwidth.

Use identical streams wherever possible to maintain a high frame rate. Stream profiles can be used to ensure that the frame rate is maintained.

Accessing Motion JPEG and H.264 video streams simultaneously affects both frame rate and bandwidth.

Heavy usage of event settings affects the product's CPU load which in turn affects the frame rate.

Using HTTPS may reduce frame rate, in particular if streaming Motion JPEG.

Heavy network utilization due to poor infrastructure affects the bandwidth.

Viewing on poorly performing client computers lowers perceived performance and affects frame rate.

Running multiple

AXIS Camera

Application Platform (ACAP) applications simultaneously may affect the frame rate and the general performance of the system.

Contact support

Contact support at

axis.com/support

.

Contact support

Specifications

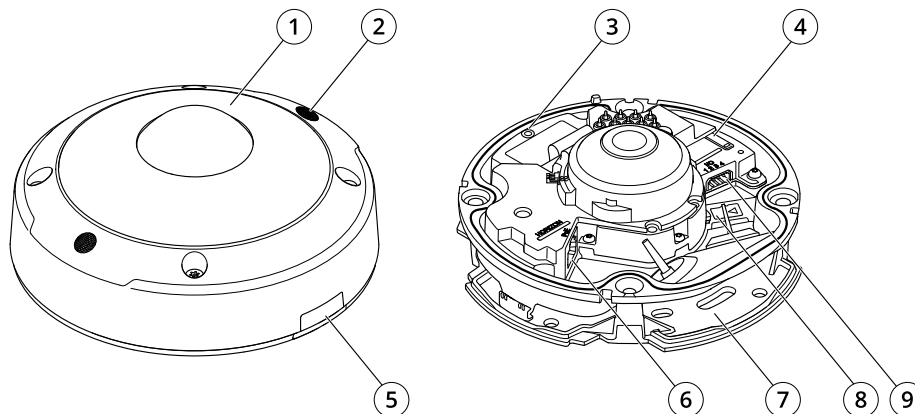
Specifications

Specifications

Product overview

Product overview

Product overview



1

IR illumination

2

- Microphone
- 3
- Status LED indicator
- 4
- Control button
- 5
- Lid
- 6
- Network connector (PoE)
- 7
- Mounting bracket
- 8
- SD card slot
- 9
- I/O connector

Product overview

LED indicators

The Status LED can be configured to flash while an event is active.

Status LED	Indication
Unlit	Connection and normal operation.
Green	Shows steady green for 10 seconds for normal operation after startup completed.
Amber	Steady during startup. Flashes during firmware upgrade or reset to factory default.
Amber/Red	Flashes amber/red if network connection is unavailable or lost.
Red	Firmware upgrade failure.

LED indicators

SD card slot

SD card slot

SD card slot

Risk of damage to SD card. Do not use sharp tools, metal objects, or excessive force when inserting or removing the SD card.

Risk of data loss and corrupted recordings. Do not remove the SD card while the product is running. Unmount the SD card before removing it.

This product supports microSD/microSDHC/microSDXC cards.

For SD card recommendations, see

axis.com



microSD, microSDHC, and microSDXC Logos are trademarks of SD-3C LLC. microSD, microSDHC, microSDXC

Buttons

Buttons

Control button

The control button is used for:

- Resetting the product to factory default settings. See
Reset to factory default settings

Control button

Intrusion alarm switch

Use the intrusion alarm switch to get a notification when someone opens the device's housing. Set up an action

- Set up the intrusion alarm

Intrusion alarm switch

Connectors

Connectors

Connectors

Network connector

Network connector

Network Connector

RJ45 Ethernet connector with Power over Ethernet (PoE).

I/O connector

I/O connector

About I/O connector

Use the I/O connector with external devices in combination with, for example, motion detection, event trigger

0 V DC

reference point and power (DC output), the I/O connector provides the interface to:

Digital input

For connecting devices that can toggle between an open and closed circuit, for example PIR sensors, door

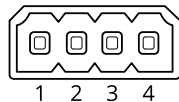
Supervised input

Enables possibility to detect tampering on a digital input.

Digital output

For connecting external devices such as relays and LEDs. Connected devices can be activated by the VAP

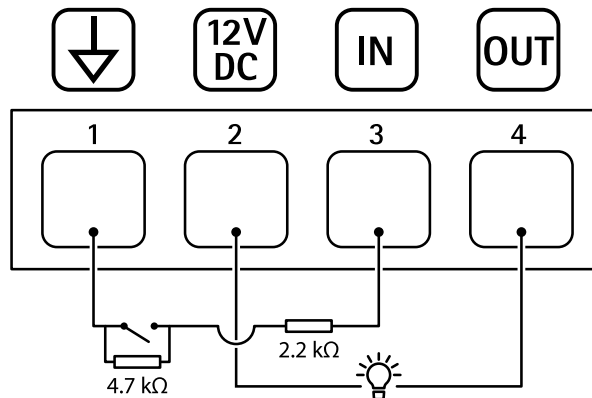
4-pin terminal block



I/O connector tables

Function	Pin	Notes	Specifications
DC ground	1		0 V DC
DC output	2	Can be used to power auxiliary equipment. Note: This pin can only be used as power out.	12 V DC Max load = 25 mA
Digital Input or Supervised Input	3	Connect to pin 1 to activate, or leave floating (unconnected) to deactivate. To use supervised input, install end-of-line resistors. See connection diagram for information about how to connect the resistors.	0 to max 30 V DC
Digital Output	4	Internally connected to pin 1 (DC ground) when active, and floating (unconnected) when inactive. If used with an inductive load, e.g., a relay, connect a diode in parallel with the load, to protect against voltage transients.	0 to max 30 V DC, open drain, 100 mA

I/O Connector diagram — Supervised I/O



- 1
- DC ground
- 2
- DC output
- 12 V, max 25 mA
- 3
- Supervised input
- 4

Digital output

AXIS M3077-PLVE Network Camera

2019

2021

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