

AXIS TQ5901 Audio Ring

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Get started

About the device

When you connect your device to a supported Axis camera, settings for audio will appear on the camera's webpage. You can manage all of the settings described in this manual through the camera's webpage.

Note

The AXIS TQ5901 Audio Ring requires a camera with a firmware release of at least AXIS OS 12.10. To download the latest release, go to axis.com/support.

Configure your device

Audio

Enable audio input

1. Go to **Audio > Device settings**.
2. Click on the **TQ5901** tab.
3. Enable the internal microphone.

Add audio to your recording

Turn on audio:

1. Go to **Video > Stream > Audio** and include audio.
2. If the device has more than one input source, select the correct one in **Source**.
3. Go to **Audio > Device settings** and turn on the correct input source.

Edit the stream profile that is used for the recording:

4. Go to **System > Stream profiles** and select the stream profile.
5. Select **Include audio** and turn it on.
6. Click **Save**.

Enable IR light

1. Click on **Video > Image**.
2. Go to **Day-night mode**.
3. Select your IR settings:
 - **IR-cut filter**: Choose between **Off**, **On**, and **Auto**.
 - **Threshold**: Choose the intensity of the filter when **IR-cut filter** is set to **Auto**.
 - **Allow illumination**: Turn on IR lighting.

Set up rules for events

You can create rules to make your device perform actions when certain events occur. A rule consists of conditions and actions. The conditions can be used to trigger the actions. For example, the device can play an audio clip according to a schedule or when it receives a call, or send an email if the device changes IP address.

To learn more, see *Get started with rules for events*.

Trigger an action

1. Go to **System > Events** and click **+ Add a rule**. The rule defines when the device will perform certain actions. You can set up rules as scheduled, recurring, or manually triggered.
2. Enter a **Name**.
3. Select the **Condition** that must be met to trigger the action. If you specify more than one condition for the rule, all of the conditions must be met to trigger the action.
4. Select which **Action** to perform when the conditions are met.

Create a light profile

1. Go to **Light > Profiles**.
2. Create a new profile.

3. Name your profile. If you'll have multiple profiles, adding a description can help you quickly differentiate between them.
4. Choose a light pattern. Once you select a pattern, you will be able to choose a variety of elements, including:
 - Speed
 - Intensity
 - Color
 - Duration
5. Click **Save**.

Note

If multiple conditions are triggered, the light profile with the highest priority score will run.

Provide visual indication of an event

You can configure the LED lights to turn on or off when specific events occur. For example, you can turn the LED light on to let people know that video recording is in progress.

Required hardware

- AXIS TQ5901
- An Axis network video camera, such as the AXIS M5526-E PTZ Camera

The following example shows how to configure a rule that turns on the LED when the camera is recording.

1. Go to **System > Events**.
2. Create a new rule.
3. Choose a name for your rule.
4. Select the **Condition** that must be met to trigger the camera to record. It can, for example, be a time schedule or motion detection.
5. In the list of actions, select **Record video**.
 - Select a storage space.
 - Select a stream profile or create a new stream profile.
 - Set the **Prebuffer** and **Postbuffer**, as required.
6. Save the rule.
7. Create a second rule with a new name.
8. Select the same **Condition** as in the first rule.
9. In the list of actions, select **Run light profile** or **Run light profile while the rule is active**.
 - Choose a light profile.
 - Choose an action if prompted.
10. Save the rule.

Set the SIP audio

To set the AXIS TQ5901 Audio Ring as your audio device for SIP calls:

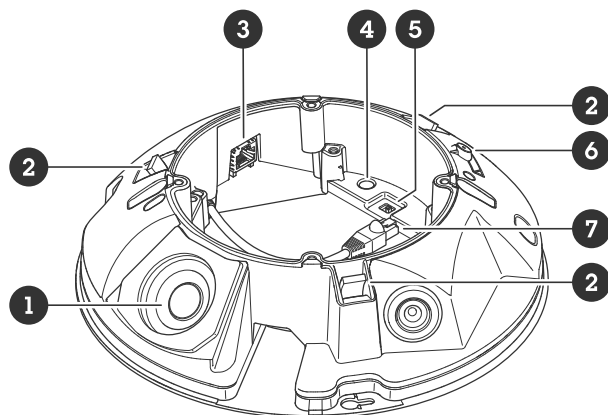
1. Go to **System > SIP**. If the **Set up SIP** screen appears, click **Close**.
2. Under the **Settings** tab, open **Audio and video**.
3. Set the **Audio input device** as **TQ5901**.
4. Set the **Audio output device** as **TQ5901**.
5. Click **Save**.

The web interface

To read about all the features and settings available in the web interface of devices with AXIS OS, go to *AXIS OS web interface help*.

Specifications

Product overview



- 1 Speaker
- 2 LED and IR light guides
- 3 Network connector (PoE)
- 4 LED
- 5 Microphone on/off switch
- 6 Microphone
- 7 Network cable (RJ45)

Buttons

Microphone switch

For location of the microphone switch, see *Product overview, on page 7*.

The microphone switch is used to mechanically turn the microphone **ON** or **OFF**. The factory default setting for this switch is **ON**.

Connectors

Network connector

RJ45 Ethernet connector with Power over Ethernet Plus (PoE+).

NOTICE

The device shall be connected using a shielded network cable (STP). All cables connecting the device to the network shall be intended for their specific use. Make sure that the network devices are installed in accordance with the manufacturer's instructions. For information about regulatory requirements, see the Installation Guide at www.axis.com.

Dome

The AXIS TQ5901 Audio Ring is equipped with a AXIS TM5805-E Dome Smoked. The dome can be interchanged with the AXIS TM5804-E Dome Clear that is included with the AXIS M5526-E PTZ Camera. Refer to the Installation Guide for information about installing the dome.

Clean your device

You can clean your device with lukewarm water and cleaning agents that contain any of the following chemicals:

- isopropanol 70% (IPA)
- hydrogen peroxide 3% (H₂O₂)
- sodium hypochlorite <5% (NaClO)
- acetic acid 10% (CH₃COOH)
- peracetic acid 0.12% (CH₃CO₃H)

⚠ CAUTION

Before you use a cleaning agent, read and adhere to the safety data sheet (SDS) provided by the cleaning agent manufacturer.

NOTICE

- Harsh chemicals can damage the device. Don't use chemicals such as acetone or gasoline to clean your device.
 - Don't spray cleaning agents directly on the device. Instead, apply the cleaning agent to a nonabrasive cloth and use it to clean the device.
 - Cleaning agents can cause permanent stains if they dry on the device. Use water and a soft cloth to wipe off any residue immediately.
 - Avoid cleaning in direct sunlight or elevated temperatures, since this can cause stains.
1. Use a can of compressed air to remove dust and loose dirt from the device.
 2. If necessary, clean the device with a soft microfiber cloth dampened with lukewarm water and a cleaning agent.
 3. To remove any residual cleaning agents, wipe the device with a soft microfiber cloth dampened with lukewarm water.
 4. To avoid stains, dry the device with a clean, nonabrasive cloth.

For more information about cleaning of Axis devices, see the white paper *Chemical resistance to common cleaning agents*.

Learn more

Overlays

Overlays are superimposed over the video stream. They are used to provide extra information during recordings, such as a timestamp, or during product installation and configuration. You can add either text or an image.

Note

Overlays are included in all video streams except SIP calls when the connection is over PoE class 3.

Light profiles and event rules

NOTICE

Don't edit the preconfigured profiles and rules so the device can work as designed.

There are preconfigured profiles and rules you can activate in **Light > Profiles** and preconfigured rules in **System > Events**. These configurations make it easier for you to implement the device's several use cases. If you need another configuration, create new profiles and rules instead.

Troubleshooting

Technical problems and possible solutions

Problems upgrading AXIS OS

AXIS OS upgrade failed

If the upgrade fails, the device reloads the previous version. The most common reason is that the wrong AXIS OS file has been uploaded. Check that the name of the AXIS OS file corresponds to your device and try again.

Problems after AXIS OS upgrade

If you experience problems after the upgrade, roll back to the previously installed version from the **Maintenance** page.

Problems accessing the device

Can't log in when accessing the device from a browser

When HTTPS is enabled, make sure that you use the correct protocol (HTTP or HTTPS) when you try to log in. You might need to manually type `http` or `https` in the browser's address field.

Certificate error when using IEEE 802.1X

For authentication to work properly, the date and time settings in the Axis device must be synchronized with an NTP server. Go to **System > Date and time**.

If you can't find what you're looking for here, try the troubleshooting section at axis.com/support.

Performance considerations

When you set up your system, it's important to consider how different settings and situations affect performance.

The most important factors to consider include:

- AXIS Object Analytics and AXIS Scene Metadata are disabled on the M5526-E.
- Heavy network utilization due to poor infrastructure affects the bandwidth.
- Running multiple AXIS Camera Application Platform (ACAP) applications simultaneously may affect the general performance.

Contact support

If you need more help, go to axis.com/support.

Cybersecurity

Cybersecurity supports a successful product lifecycle with minimized risks. You can find in-depth information and documentation about our cybersecurity approach at axis.com/about-axis/cybersecurity. Follow the cybersecurity guidelines below to receive product security notifications from Axis and to configure your product for a secure lifecycle and decommissioning.

At *Axis Trust Center*, you can find information about how Axis implements security compliance, transparency, data protection, and privacy.

Vulnerability management

Axis is a *Common Vulnerability and Exposures (CVE) Numbering Authority (CNA)*. To minimize your risk of exposure, we follow industry standards when identifying and resolving vulnerabilities in our devices, software, and services. Refer to axis.com/vulnerability-management for information about our vulnerability management policy or to report a vulnerability.

Security notifications

Subscribe to Axis security notification emails at axis.com/security-notification-service. We will send you information about vulnerabilities, corresponding security advisories, and other security-related matters for your Axis product.

Secure product lifecycle

Axis minimizes risks throughout the lifetime of our products through secure lifecycle management. Use our hardening guides at help.axis.com to more securely configure and operate your Axis products and to find information about:

Secure first-use – Axis products are pre-configured with high default protection to allow for secure initialization and encrypted communication from the very start.

Intended use and common configuration mistakes – Our guides provide information about the intended usage of Axis products, including common security-relevant misuse and configuration mistakes that should be avoided.

Managing vulnerabilities and supply chain transparency – A Software Bill of Material (SBOM) is published with every software release on axis.com to disclose vulnerabilities and improve supply chain transparency.

Decommissioning and the secure erasure of data – To securely decommission a product when it reaches the end of its lifecycle, reset it to factory default settings. This erases your configurations, stored data, and sensitive information.

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