

Set up IP cameras

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Set up IP cameras



Main topics

- [The steps to install IP cameras](#)
- [Ethernet card setup](#)
- [Camera setup](#)
- [Select ONVIF cameras in MediaRecorder](#)
- [Select devices that do not support ONVIF in MediaRecorder](#)

The steps to install IP cameras

Prerequisites

- The network allows data transfer of at least 1 Gb per second.
- We recommend to use a dedicated network for the cameras.
- The cables must be suitable for Gigabit Ethernet. The minimum cable quality is CAT5e
https://en.wikipedia.org/wiki/Category_5_cable
- You have Axis IP cameras that are supported with MediaRecorder.
See [Supported IP cameras](#) in [Recording devices](#)

Which situation applies to you?

- You ordered computer, IP cameras and MediaRecorder at Noldus IT
The cameras are already installed. Also MediaRecorder has been set up to use with these cameras. You can connect your cameras and start recording.
See [Record video](#)
- You bought the cameras from Noldus IT and installed MediaRecorder on your computer
The camera IP address and settings have been created by Noldus IT. Carry out the steps in procedure below, except for steps 5,6,7, and 8.:
- You bought the computer and cameras somewhere else. Carry out the entire procedure below.

Procedure

1. [Install the Ethernet card](#)
2. [Set Ethernet card IP address](#)
3. [Connect IP cameras to the PC](#)
4. [Set camera IP address](#)
5. [Set camera password and select power line frequency](#)
6. [Create camera settings](#)
7. [Create audio settings](#)
8. [Select ONVIF cameras in MediaRecorder](#)
9. or
0. [Select devices that do not support ONVIF in MediaRecorder](#)

Notes

- The procedures apply to Axis IP cameras. If you bought cameras from a different brand, look for comparable settings in the camera manual.
- We recommend to use Axis IP cameras since these were tested with MediaRecorder.
- The Axis cameras sold by Noldus IT support ONVIF.

Ethernet card setup

Aim

To insert the 1 Gb Ethernet card into your computer and to configure it to work with MediaRecorder.



Prerequisites

- You have IP or GigE cameras.
- You have an Intel PRO/1000 GT or Intel Pro/ 1000 PT Ethernet card.
- You purchased the computer with MediaRecorder yourself, or you bought the cameras after you received the computer.

If you bought a complete system from Noldus IT, the card has been installed and set up. You can skip this topic.

Procedure

Carry out the following steps:

1. [Install the Ethernet card](#)
2. [Set Ethernet card IP address](#)

Install the Ethernet card

Aim

To place the Ethernet card into the computer with MediaRecorder.

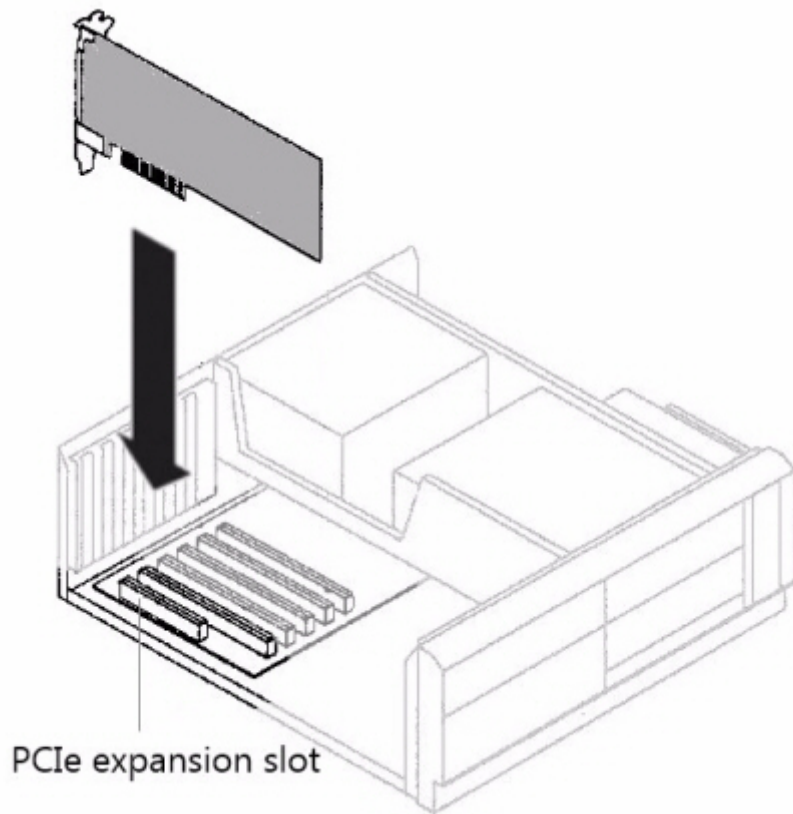


Prerequisites

- You have IP or GigE cameras.
- You have an Intel PRO/1000 GT or Intel Pro/ 1000 PT Ethernet card.
- You purchased the computer with MediaRecorder yourself, or you bought the cameras after you received the computer.

Procedure

1. Turn off your computer and all connected peripherals, such as the monitor and printer. Make sure that the computer is unplugged.
2. Remove the PC's case according to the instructions provided in the PC's user manual.
3. Select a free PCIe expansion slot, and remove the corresponding extension cover. See [PCIe slot properties](#) in [Set up analog cameras](#) for details in the slots in a Dell computer.
4. Unpack the Ethernet card, place it into the slot, and press it carefully into position. If the card does not fit into place easily, remove it and repeat the operation.



IMPORTANT When touching the board, its electronic components can be damaged by static electricity. To avoid any such risk, make sure that you are grounded. You can ground yourself by putting on an earthing wristlet, and attaching its clip to the metal frame of the computer. If an earthing wristlet is not available, you can hold the metal frame with one hand while holding the Ethernet in your other hand. Ensure also that your clothing does not touch any components while handling the card.

5. Fix the card to the chassis and re-fit the computer's cover.

Set Ethernet card IP address

Aim

To set the IP address of the Ethernet card to the same range as the cameras and the computer.

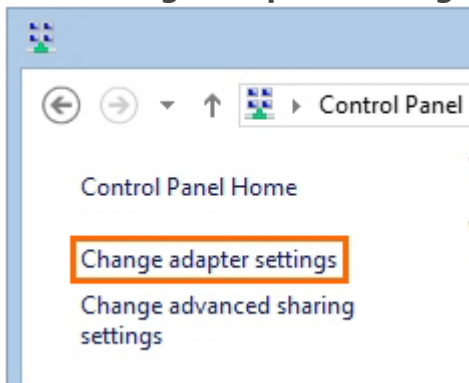
Prerequisites

- You have IP or GigE cameras.
- You purchased the computer with MediaRecorder yourself, or you bought the cameras after you received the computer.
- You installed the Ethernet card into the computer.

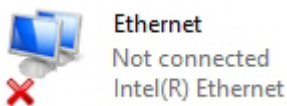
See [Install the Ethernet card](#)

Procedure

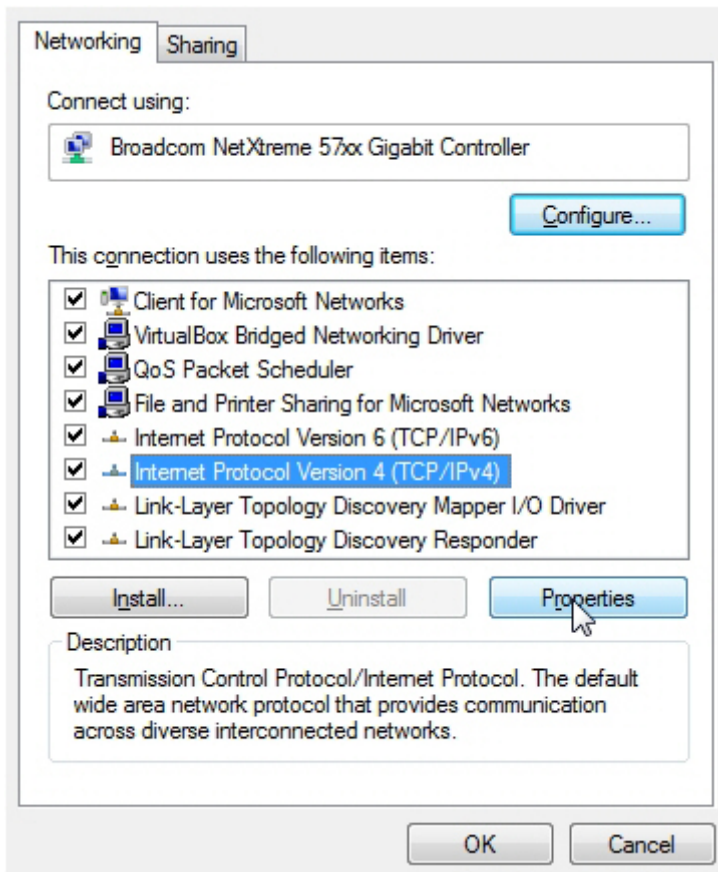
1. Open the Control Panel and select **Network and Sharing Center**.
2. Click **Change adapter settings** on the left side of your window.



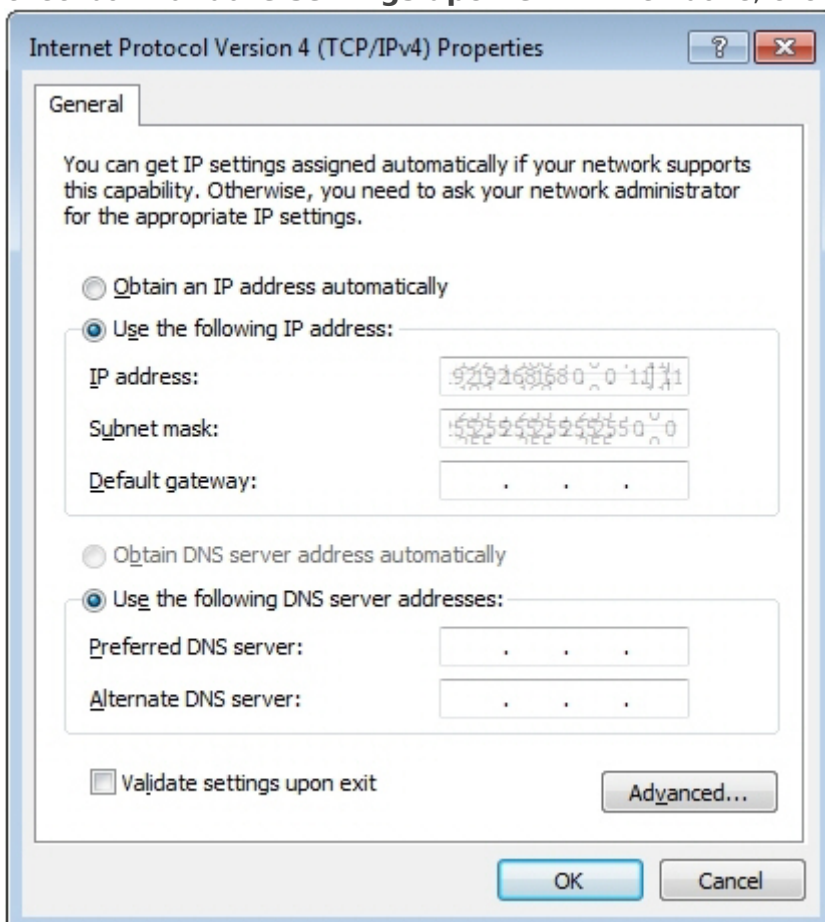
3. Right-click **Local Area Connection** and click **Properties**. If your computer has more than one Local Area Connection, choose the one used for the cameras. To check which one this is, remove the cable from this IP port on your computer. The LAN connection that has the **Intel(R) Ethernet** is the correct one.



4. Select **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties**.



5. Click **Use the following IP address** and enter the **IP address** and **Subnet mask** supplied by your system administrator. Leave the other fields empty. Also select the checkbox **Validate settings upon exit**. When done, click **OK** and then **Close**.



6. A **Windows Network Diagnostics** window appears. Click **Close** when the validation is finished. Then close all windows.

Connect IP cameras to the PC

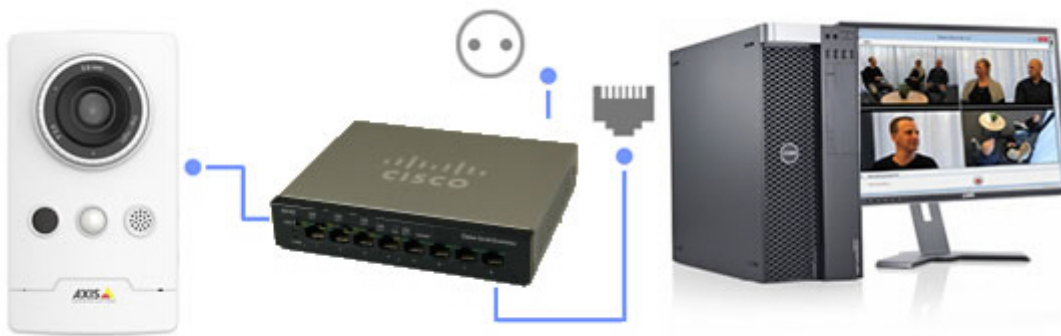
Prerequisite

You have followed the entire procedure in [Ethernet card setup](#)

Procedure

The procedure applies to a Cisco SG 100D 8 port Gigabit PoE-switch, which is supported with MediaRecorder. Using cross-network cables (cat-5e or newer), connect the Ethernet card on the PC to one of the four right ports of the PoE-switch.

1. Connect the camera to one of the four left ports of the PoE-switch. Do not use any of the four right ports for this purpose, since they do not supply your cameras with power.
2. Power up the PoE-switch.



Notes

- The Power over Ethernet (PoE) switch is a device that receives and sends data (in this case, video data from the camera) and passes power along on twisted-pair Ethernet cabling.
- If you use multiple IP cameras, connect them to separate ports on the PoE-switch. Make sure the capacity of the switch is high enough for the cameras.

See [Power over Ethernet](#) in [Recording devices](#)

Camera setup

Aim

To configure the cameras for use with MediaRecorder.

Prerequisites

- You have Axis IP cameras that are supported with MediaRecorder.
See [Supported IP cameras](#) in [Recording devices](#)
- You followed the procedure in [Ethernet card setup](#)
- You connected all cameras.

Procedure

You must carry out the following steps for each camera:

1. [Set camera IP address](#)
2. [Set camera password and select power line frequency](#)
3. [Create camera settings](#)
4. [Create audio settings](#)

Set camera IP address

Aim

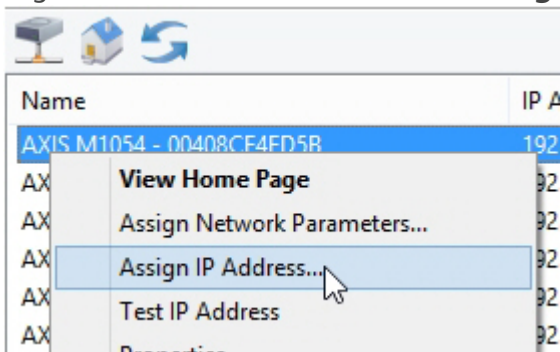
To set the IP address of the camera to the same range as the Ethernet card and the computer.

Prerequisites

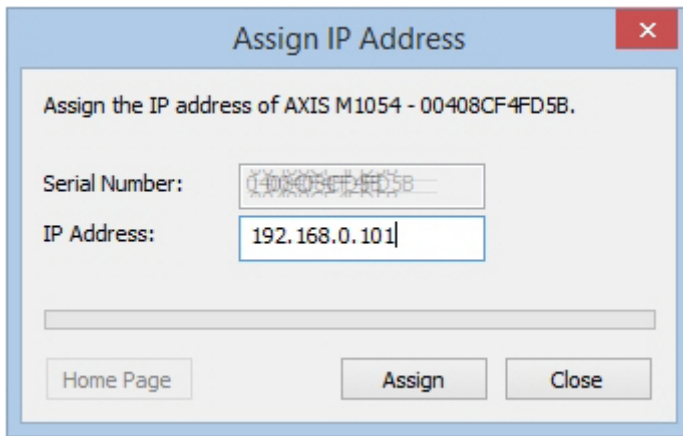
- You have Axis IP cameras that are supported with MediaRecorder.
See [Supported IP cameras](#) in [Recording devices](#)
- You installed the Ethernet card.
See [Install the Ethernet card](#)
- You gave the card a fixed IP address.
See [Set Ethernet card IP address](#)
- You connected all cameras.

Procedure

1. Insert the MediaRecorder installation USB stick into your computer and copy the file **IPUtility.exe** from the folder Drivers and Tools\Software\Axis Tools to your computer. Do not copy it to your desktop, the tool will then not work correctly.
2. Run **IPUtility.exe**. A window opens in which all the connected devices are listed.
3. Right-click the device and select **Assign IP address**.



4. Enter the IP address and choose **Assign**.



The image shows a software dialog box titled "Assign IP Address" with a red close button in the top right corner. The main text inside the dialog reads "Assign the IP address of AXIS M1054 - 00408CF4FD5B." Below this, there are two input fields. The first is labeled "Serial Number:" and contains the text "00408CF4FD5B". The second is labeled "IP Address:" and contains the text "192.168.0.101". At the bottom of the dialog, there are three buttons: "Home Page", "Assign", and "Close".

5. According to the message that appears, disconnect and reconnect the camera and click **Assign**. Wait until the IP address is set.
6. Right-click the camera and select **Test IP address**. When the details were entered correctly a message appears that the camera is accessible.
7. Repeat steps 3 to 6 for all cameras. Make sure you use different IP addresses for all cameras and computer and other network devices in the network.

Set camera password and select power line frequency

Aim

To give the camera a password, which is compulsory, and to select the power line frequency of your country.

Prerequisites

- You have Axis IP cameras that are supported with MediaRecorder.

See [Supported IP cameras](#) in [Recording devices](#)

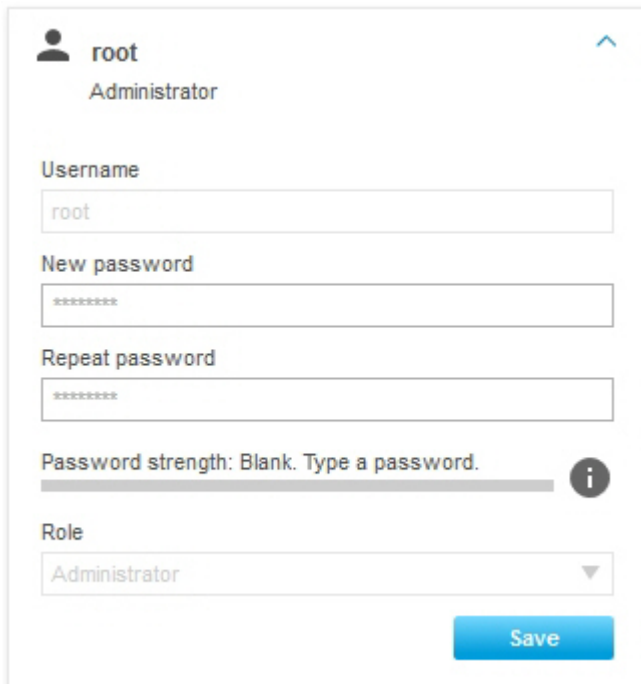
- You followed the procedure in [Ethernet card setup](#)
- You connected all cameras.
- You gave the cameras an IP address.

See [Set camera IP address](#)

Procedure

IP address

1. In the IPUtility tool, click the **Home Page** button. the camera now opens in a browser.

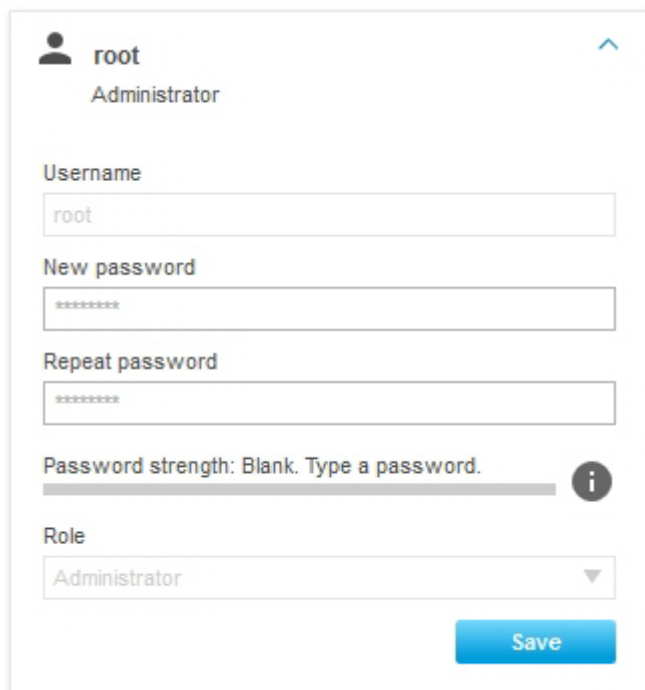


The screenshot shows a web interface for configuring a camera. At the top, it displays a user profile for 'root' with the role 'Administrator'. Below this, there are three input fields: 'Username' (containing 'root'), 'New password' (containing '*****'), and 'Repeat password' (containing '*****'). A password strength indicator shows 'Blank. Type a password.' with a progress bar and an information icon. Below the password fields is a 'Role' dropdown menu currently set to 'Administrator'. A blue 'Save' button is located at the bottom right of the form.

Alternatively, type the IP address in the address field of, for example, Internet Explorer.

2. The first time you open the camera in a browser, you must set a password. If you obtained cameras from Noldus IT, this password is Noldus. The user name root cannot be changed.

Do not use the characters @, space, or colon (:) for the password. These characters cannot be used in MediaRecorder.



The image shows a user configuration form for the 'root' administrator. At the top, there is a user icon and the text 'root Administrator'. Below this, there are three input fields: 'Username' with the value 'root', 'New password' with masked characters '*****', and 'Repeat password' also with '*****'. A 'Password strength' indicator shows a grey bar and the text 'Blank. Type a password.' with an information icon. Below the password fields is a 'Role' dropdown menu currently set to 'Administrator'. A blue 'Save' button is at the bottom right.

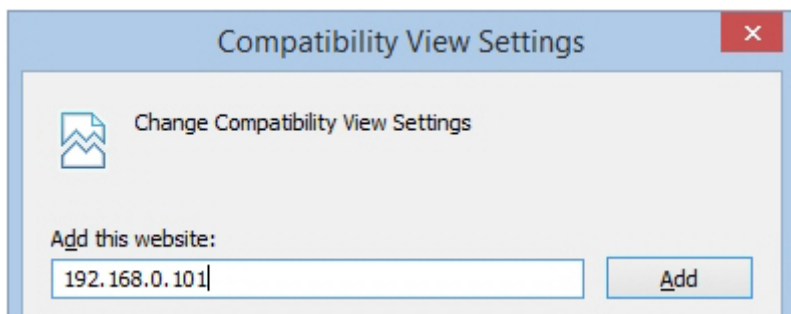
3. As soon as you set the password, you must log in to the camera with the password you just set.

Power line frequency

The first time you log in in the camera, you must select a power line frequency. Look up the correct power line frequency of your country on Internet.

Notes

- **IMPORTANT** Close the browser before you start recording. Leaving it open may cause recording problems in MediaRecorder.
- If you do not get a view in Internet Explorer, click the Settings wheel in the upper-right corner of your window and choose **Compatibility View Settings**. Enter the IP address of your camera and click **Add**. Other browsers may have a comparable setting.



Create camera settings

Aim

To configure the camera for optimal recording with MediaRecorder.

Prerequisites

- You have Axis IP cameras that are supported with MediaRecorder.
See [Supported IP cameras](#) in [Recording devices](#)
- You installed the Ethernet card.
See [Install the Ethernet card](#)
- You gave the card a fixed IP address.
See [Set Ethernet card IP address](#)
- You connected all cameras.
- You gave the cameras an IP address.
See [Set camera IP address](#)
- You gave the camera a password and selected the correct power line frequency.
See [Set camera password and select power line frequency](#)

Procedure

Carry out the following steps:

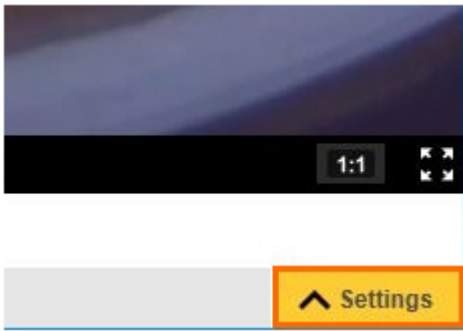
1. [Access camera settings](#)
2. [Create ONVIF User name and Password](#)
3. [Disable replay attack protection](#)
4. [Switch on IR cut filter](#)

Note

The procedure below describes the camera firmware version 7.20.1. For other firmware versions, search for comparable settings.

Access camera settings

1. Open the camera in a browser by clicking the **Home page** button in the IPUtility tool or typing the IP address in the address field of an Internet browser. Then enter the password.
2. Click the **Settings** button in the bottom-right corner of your window.



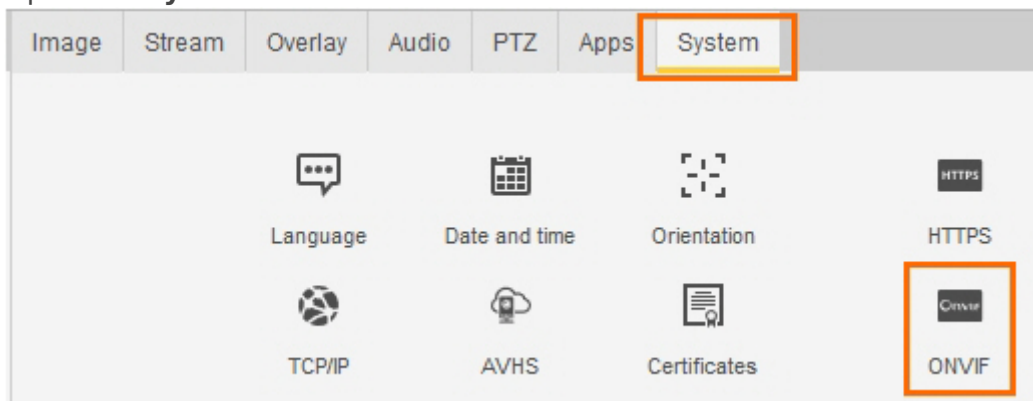
Create ONVIF User name and Password

Aim

To configure the camera so that pan, tilt, zoom, and audio recording is possible.

Procedure

1. Open the camera settings.
 1. See [Access camera settings](#)
2. Open the **System** tab and click **ONVIF**.



3. Click **Add** and enter the same **User name** and **Password** as set in [Set camera password and select power line frequency](#). Do not use the characters @, space, or colon (:) for the user name or password. These characters cannot be used in MediaRecorder.
4. Select **Administrator** as **User Group** and click **OK**.



Notes

- If the camera does not support ONVIF, pan, tilt, and zoom must be done with a browser and audio of the camera cannot be recorded. All IP cameras supported with MediaRecorder support ONVIF.
- **IMPORTANT** Always close the browser before you start recording with MediaRecorder.

Disable replay attack protection

Aim

To prevent that connection to the camera fails if the time of the MediaRecorder computer differs from the time in the camera.

Background

Replay attack protection is a camera security setting. Relevant for video recording with MediaRecorder is that replay attack protection causes the camera connection to fail if the timestamps of MediaRecorder and the camera are not exactly the same. Replay attack protection is necessary for security cameras, but not for IP cameras in a dedicated network.

Procedure

1. Open the camera settings.
See [Access camera settings](#)
2. Open the **System** tab and click **Plain config**.
3. From the list at the bottom, select **WebService** and click **Select Group**.
4. Under **WebService UsernameToken**:, make sure the checkbox **Enable replay attack protection** is not selected.

WebService

▼

Select group

WebService

WebService UsernameToken:

Enable replay attack protection:

☐

Wait for synchronized time from NTP server before allowing ONVIF user authorization:

☐

Save page changes:

Save

Reset

Note

If you do not want to disable this option, make sure that the clock times of the computer and camera are exactly the same.

Switch on IR cut filter

Aim

To make sure the cameras does not switch to black and white at low light levels.

Background

The IR cut filter removes infrared light during daylight. With the default camera settings, the IR cut filter is switched off at low light intensities. The camera then records in near-infrared, which gives a black and white camera image. If you do not want this, set the IR cut filter to On instead of Auto, so that it stays on, independent of the light level.

Procedure

1. Open the camera settings.
 1. See [Access camera settings](#)
2. Open the **Image** tab.
3. Check if there is an option **IR cut filter**. If so, set it to **On**.

White balance

Light environment

Automatic

▼

Day and night

IR-cut filter

Auto

▼

Off

On

Auto

Note

Not all IP cameras supported with MediaRecorder have an IR cut filter.

Create audio settings

Aim

To optimize the recording volume.

Prerequisites

- You have Axis IP cameras that are supported with MediaRecorder.
See [Supported IP cameras](#) in [Recording devices](#)
- You followed the procedure in [Ethernet card setup](#)
- You connected all cameras.
- You gave the cameras an IP address.
See [Set camera IP address](#)
- You gave the camera a password and selected the correct power line frequency.
See [Set camera password and select power line frequency](#)
- You followed the procedure in [Create camera settings](#)

Procedure

1. Open the camera settings,
See [Access camera settings](#)
2. Open the **Audio** tab.
3. Adjust the **Gain** slider and check in the **Input** section that the green field in the **Level** field is maximal with normal speech.



Note

You cannot record the audio of non-ONVIF devices in MediaRecorder. Optionally record audio from a separate microphone that is connected to the microphone input of the computer with MediaRecorder. The Axis cameras supported with MediaRecorder support ONVIF.

Select ONVIF cameras in MediaRecorder

Aim

To select a camera that supports ONVIF Profile S in MediaRecorder.

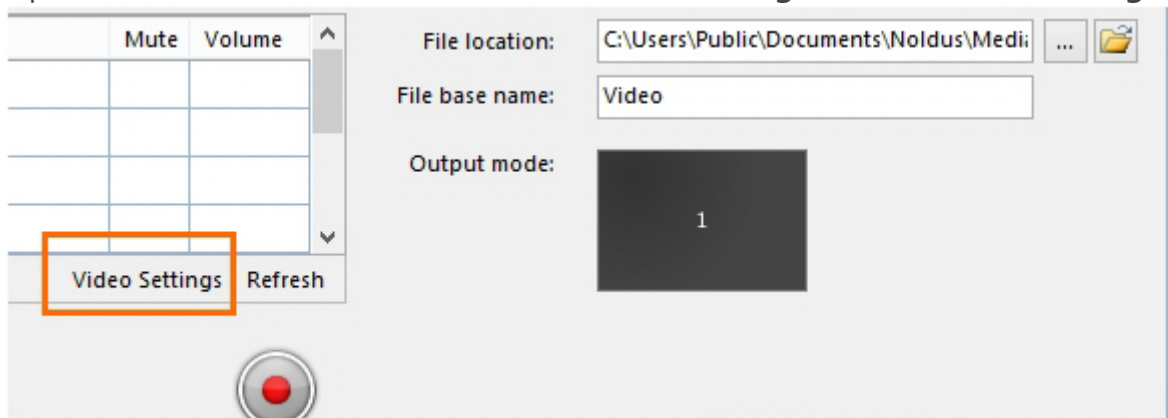
If your device does not support ONVIF, see [Select devices that do not support ONVIF in MediaRecorder](#) instead.

Prerequisites

- You have Axis IP cameras that are supported with MediaRecorder.
See [Supported IP cameras](#) in [Recording devices](#)
- You followed the procedure in [Ethernet card setup](#)
- You followed the procedure in [Camera setup](#)
- You installed MediaRecorder
See [Installation](#)
- You connected all cameras to the computer with MediaRecorder.

Procedure



1. Open MediaRecorder and choose **File > Video Settings** or click **Video Settings**.



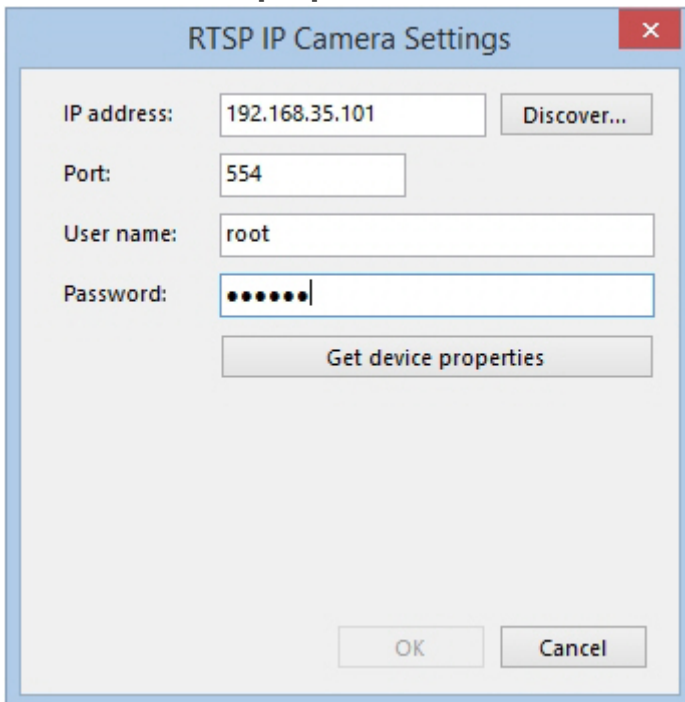
2. Select the checkbox in front of the video channel and choose **RTSP IP Camera (Noldus RTSP Source Filter)**.

	Use	Video name	Video device	Fra
1	<input checked="" type="checkbox"/>	Video 1	RTSP IP Camera (Noldus R	25.0
2	<input type="checkbox"/>	Video 2	USB Video Device	
3	<input type="checkbox"/>	Video 3	RTSP IP Camera (Noldus RTSP Source F	
			Select video device...	

3. Click the **Advanced Video Settings** button.

	Use	Video name	Video device	Frame rate
1	<input checked="" type="checkbox"/>	Video 1	RTSP IP Camera (Noldus RT..	
2	<input type="checkbox"/>	Video 2	Select video device...	
3	<input type="checkbox"/>	Video 3	Select video device...	

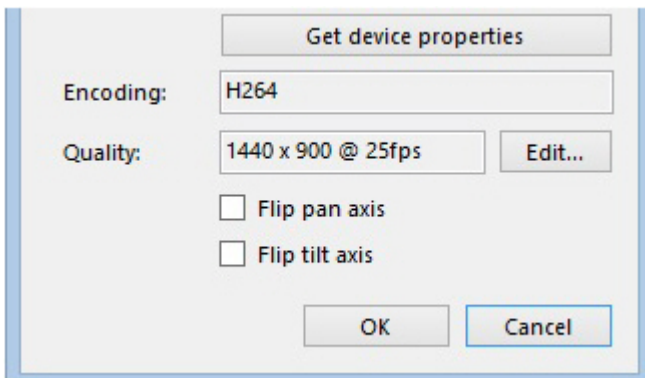
4. A list with ONVIF cameras in the network appears. Select the camera.
5. Enter the ONVIF **User name** and ONVIF **Password** for your camera. If you obtained cameras from Noldus IT, the ONVIF user name is *root* and the ONVIF password is *Noldus*.
TIP To select another camera, click the **Discover** button to display the list with ONVIF cameras in the network.
TIP If you have several cameras with the same ONVIF User name and ONVIF Password choose File > **Preferences > IP camera settings**. Select **Use default IP camera user name and password** and enter the credentials. You can now skip step 5 and 6, the camera is detected automatically.
6. Click **Get device properties**.



The dialog box titled "RTSP IP Camera Settings" contains the following fields and buttons:

- IP address:** 192.168.35.101
- Discover...** button
- Port:** 554
- User name:** root
- Password:** masked with dots
- Get device properties** button
- OK** and **Cancel** buttons at the bottom.

7. The **Encoding and Quality** fields appears with the default video format, frame rate and resolution of the camera.



The dialog box shows the following settings:

- Get device properties** button at the top.
- Encoding:** H264
- Quality:** 1440 x 900 @ 25fps
- Edit...** button next to the Quality field.
- ☐ Flip pan axis
- ☐ Flip tilt axis
- OK** and **Cancel** buttons at the bottom.

8. Optionally, click **Edit** and select another frame rate or resolution. Click **Update** when done.

Edit Onvif Profile

Encoding:

Resolution:

Frame rate (fps):

☒ Advanced settings

Encoding interval:

Bitrate (kbps 0 = unlimited):

H264 Gov length:

For low frame rate recordings, it is important to lower the **H264 Gov length** too on the same screen, under **Advanced settings**. For 5 fps, set the **Gov length** between 5 and 10, for 1 fps recording between 1 and 2. A lower **Gov length** will result in larger files but better image.

TIP It is also possible to change the frame rate and resolution in the table with selected video devices.

	Use	Video name	Video device		Frame rate	Resolution
1	<input checked="" type="checkbox"/>	Video 1	RTSP IP Camera (Noldus RT...		25.00	1280 x 720
2	<input checked="" type="checkbox"/>	Video 2	RTSP IP Camera (Noldus RT...		1.00	1280 x 720
3	<input checked="" type="checkbox"/>	Video 3	RTSP IP Camera (Noldus RT...		5.00	1280 x 720
4	<input type="checkbox"/>	Video 4	Select video device...		10.00	
5	<input type="checkbox"/>	Video 5	Select video device...		15.00	
6	<input type="checkbox"/>	Video 6	Select video device...		20.00	
					25.00	
					30.00	

You may still need to adjust the Gov length for optimal results.

- Optionally, adjust the video quality, for example to decrease the video file size, but we recommend to only do this when problems with video quality or data transfer over the network occur.

See [Adjust advanced video quality options](#)

- Click **Close** when done.
- You may want to reverse the direction the camera moves with Pan and Tilt). To do so, select the checkbox Flip pan axis (horizontal movement) or Flip tilt axis (vertical movement) or both.

☐ Flip pan axis

☐ Flip tilt axis

- Click **OK**.
- Select the microphone from the **Audio device** list. To select the microphone from the camera, or a microphone connected to it, select **RTSP IP camera (Noldus RTSP Source Filter)** from the Audio device list.
- Close the **Settings** window and tap on the microphone. Check the green bar next to the video device to see whether you selected the correct microphone.
- Continue with [Record video](#)

Notes

- If you bought cameras yourself, see [Create ONVIF User name and Password](#) for the procedure to create an ONVIF user name and ONVIF password.
- If the default Port 554 is already in use, ask your system administrator for help to select another one.
- See [Create audio settings](#) how to adjust the recording volume.

Adjust advanced video quality options

Aim

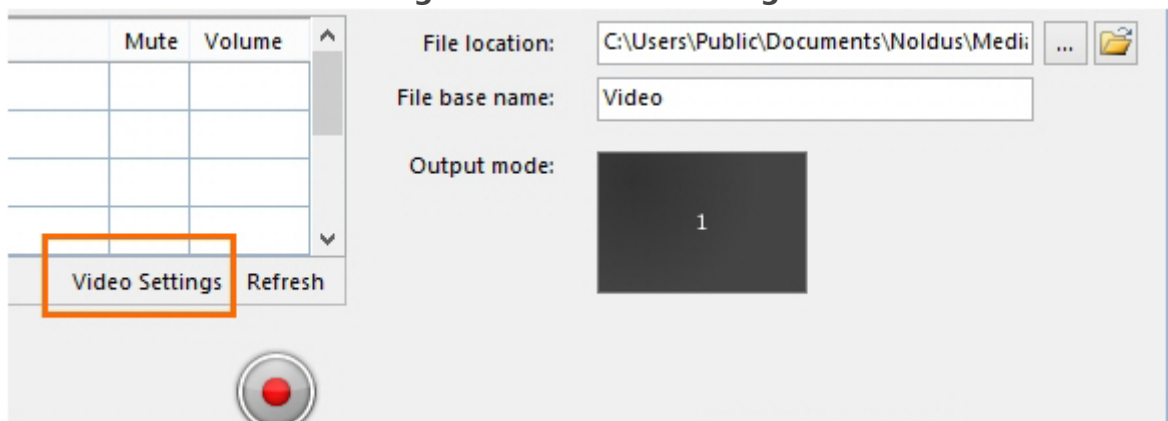
To change video quality, for example to reduce the video file size.

Prerequisite

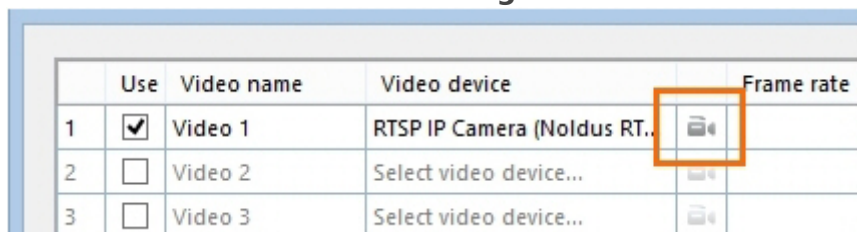
You experience problems with video quality or data transfer over the network. In all other cases, we recommend not to change the default settings.

Procedure

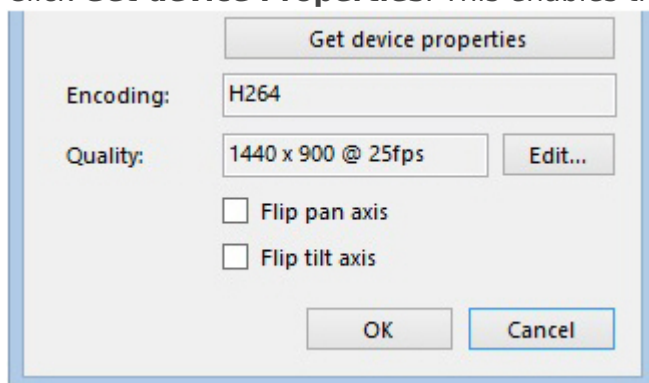
1. Choose **File > Video Settings** or click **Video settings**.



2. Click the **Advanced Video Settings** button.

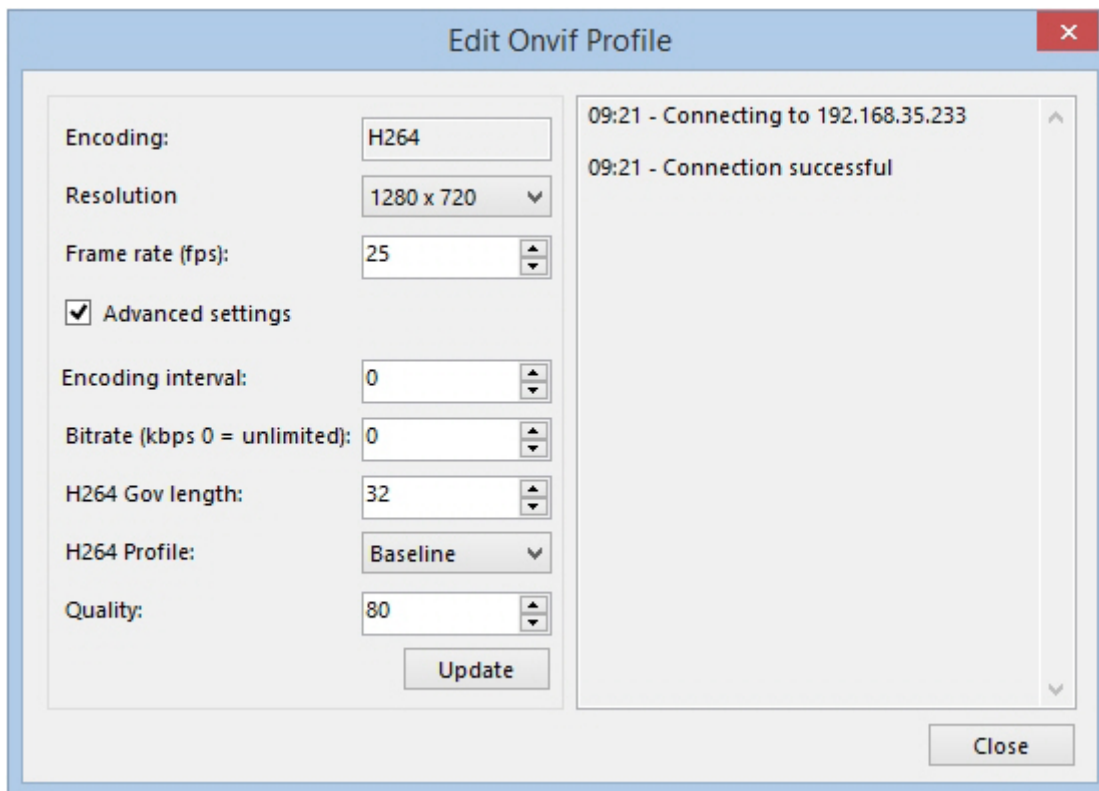


3. Click **Get device Properties**. This enables the **Edit** button. Click Edit.



4. Select **Advanced settings**.
5. Adjust the settings and click **Update > Close**.

6. See [Advanced video quality options](#) for a description of the options.



Advanced video quality options

If an option cannot be edited, your camera does not support other options, or the value is set by the chosen profile.

Encoding interval

This value cannot be edited and is set by the profile.

Bitrate

To set a limit to the data transfer. The default value 0 means unlimited. If you enter a value, data transfer is limited to this value in Kb per second.

H264 Gov length

The interval in which the I-Frames will be coded in the video file. A value of 1 means that every frame is an I-frame. A value of 2 means that every second frame is an I-frame. Decreasing the number increases the video quality, but also the data transfer. For a description of the frame types, see:

https://en.wikipedia.org/wiki/Video_compression_picture_types

H264 Profile

The encoding profile from the IP camera. MediaRecorder uses the Baseline profile and this option cannot be edited.

Quality

The quality of the encoded video file. Higher number gives higher encoding quality, but also more data transfer over the network.

Select devices that do not support ONVIF in MediaRecorder

Aim

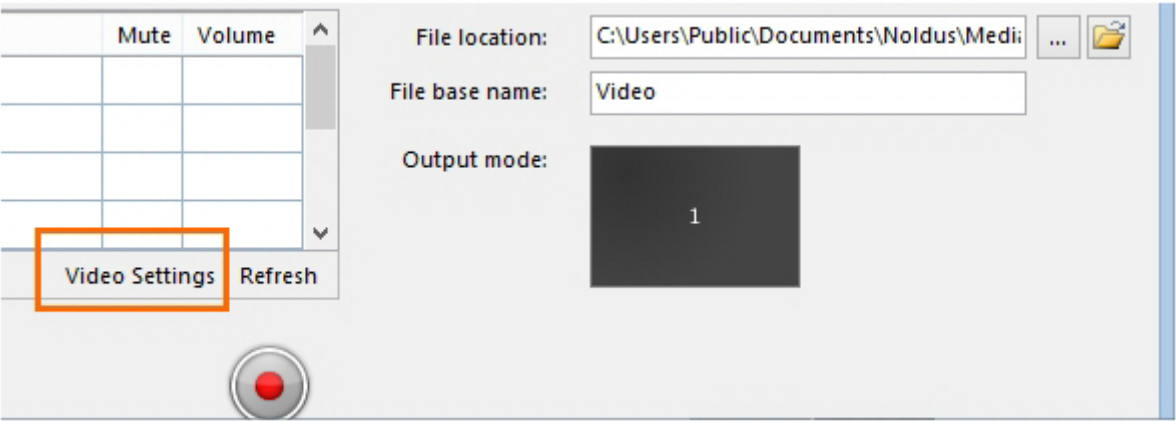
To select a device that does not support ONVIF Profile S in MediaRecorder.
If your device does support ONVIF, see [Select ONVIF cameras in MediaRecorder](#) instead.

Prerequisites

- Your device does not support ONVIF Profile S
- You followed the procedure in [Ethernet card setup](#)
- You created comparable settings for you device as described in [Camera setup](#)
- You installed MediaRecorder
See [Installation](#)
- You connected your video device to the computer with MediaRecorder.

Procedure

1. Open MediaRecorder and choose **File > Video settings** or click **Video settings**.



2. Select the checkbox in front of the video channel and choose **RTSP IP Camera (Noldus RTSP Source Filter)**.

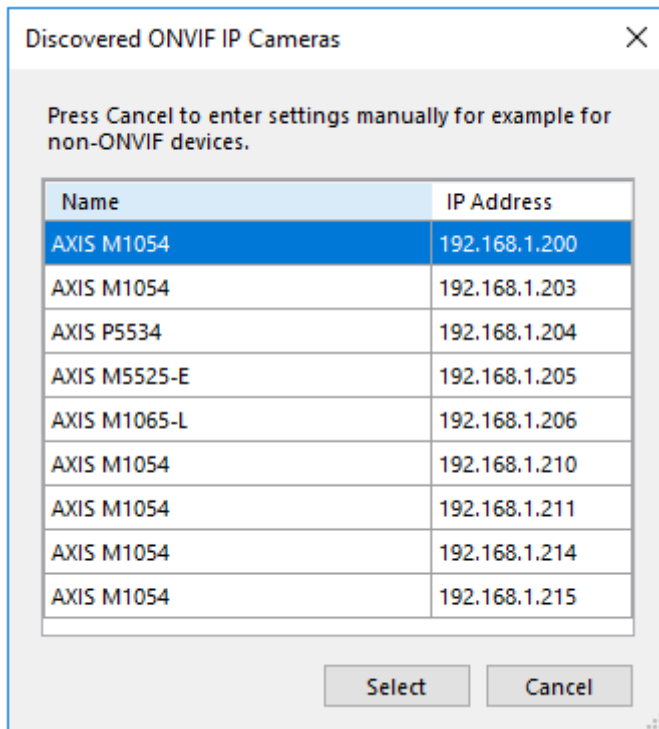
	Use	Video name	Video device	Fra
1	<input checked="" type="checkbox"/>	Video 1	RTSP IP Camera (Noldus R	25.0
2	<input type="checkbox"/>	Video 2	USB Video Device	
3	<input type="checkbox"/>	Video 3	RTSP IP Camera (Noldus RTSP Source F	
			Select video device...	

3. Click the **Advanced Video Settings** button.

	Use	Video name	Video device	Frame rate
1	<input checked="" type="checkbox"/>	Video 1	RTSP IP Camera (Noldus RT..	
2	<input type="checkbox"/>	Video 2	Select video device...	
3	<input type="checkbox"/>	Video 3	Select video device...	

4. A list with available ONVIF cameras in the network appears.

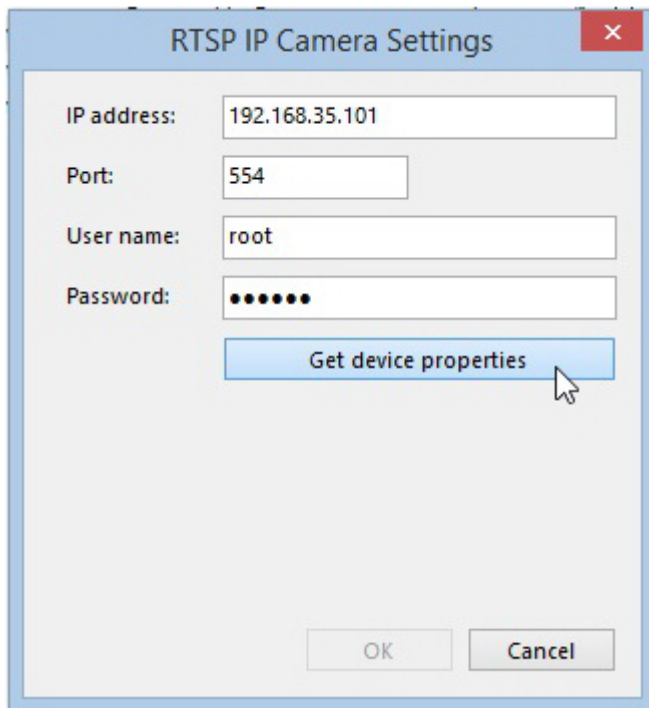
IMPORTANT If your device does not support ONVIF, it will not be on this list. Click **Cancel**.



5. Enter the **IP address**, **User name** and **Password** of the device. If you bought your device from Noldus IT, the **User name** is *root* and the **Password** is *Noldus*.

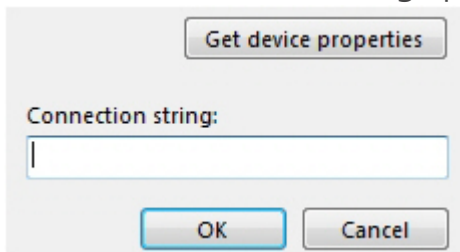
If the default Port 554 is already in use, ask your system administrator for help to select another one.

6. Click **Get device properties**.



The image shows a dialog box titled "RTSP IP Camera Settings". It contains four input fields: "IP address" with the value "192.168.35.101", "Port" with the value "554", "User name" with the value "root", and "Password" with seven dots. Below these fields is a blue button labeled "Get device properties". At the bottom of the dialog are "OK" and "Cancel" buttons. A mouse cursor is pointing at the "Get device properties" button.

7. The field **Connection string** appears.



The image shows a smaller dialog box with a button labeled "Get device properties" at the top. Below it is a label "Connection string:" followed by an empty text input field. At the bottom are "OK" and "Cancel" buttons.

8. Look up in the manual of your device where the video files can be accessed via the RTSP communication protocol. Enter the path from the slash after the connection information in the Connection string field. For example, /stream.sdp for an Epiphan Pearl Nano screen capture device/.

Connection string:

9. Click **OK**. Optionally, select another frame rate or resolution. However, make sure you select the same frame rate as is selected in the device itself when you opened the camera in a browser (see the next step).
0. Optionally, open the camera in a browser to pan, tilt, or zoom.
See [Access camera settings](#)

IMPORTANT Close the browser before starting recording with MediaRecorder.

1. Click OK and continue with [Record video](#)