

AXIS Camera Plug-in Configuration

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Support Note SN-IMC-1-015

Author(s) Vector Informatik GmbH
Restrictions Public Document

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1 Overview

From CANape 17, there is a plugin “Vector Axis Network Camera” available for AXIS camera to compress the video stream with h264 compressor. In this way the size of the video data is efficiently reduced. This document contains the instructions for how to configure the AXIS camera and how to apply the camera plug-in in CANape.

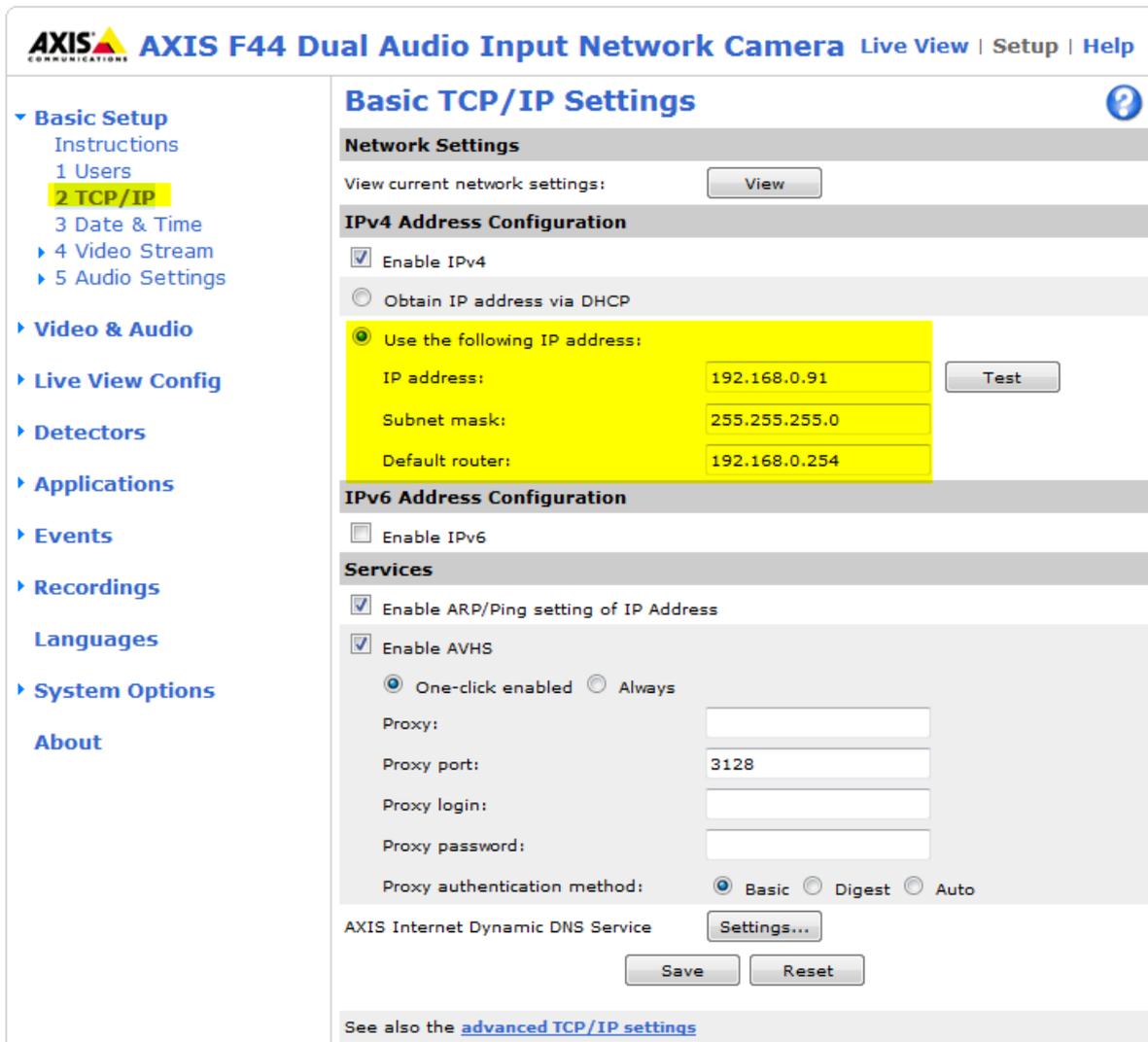
2 Preparation

2.1 Turn off firewall of the computer

2.2 Set the IP address of AXIS F44 main unit

The factory default IP address of AXIS F44 main unit is 192.168.0.90. You can open the IP address in your browser to configure the IP address as well as the cameras. The factory default user name and password are both “root”.

Go to **Basic Setup | 2 TCP/IP**. Here you can change the IP address for your cameras.



AXIS F44 Dual Audio Input Network Camera [Live View](#) | [Setup](#) | [Help](#)

- Basic Setup
 - Instructions
 - 1 Users
 - 2 TCP/IP**
 - 3 Date & Time
 - ▶ 4 Video Stream
 - ▶ 5 Audio Settings
- ▶ Video & Audio
- ▶ Live View Config
- ▶ Detectors
- ▶ Applications
- ▶ Events
- ▶ Recordings
- Languages
- ▶ System Options
- About

Basic TCP/IP Settings

Network Settings

View current network settings:

IPv4 Address Configuration

Enable IPv4

Obtain IP address via DHCP

Use the following IP address:

IP address:	192.168.0.91	<input type="button" value="Test"/>
Subnet mask:	255.255.255.0	
Default router:	192.168.0.254	

IPv6 Address Configuration

Enable IPv6

Services

Enable ARP/Ping setting of IP Address

Enable AVHS

One-click enabled Always

Proxy:

Proxy port:

Proxy login:

Proxy password:

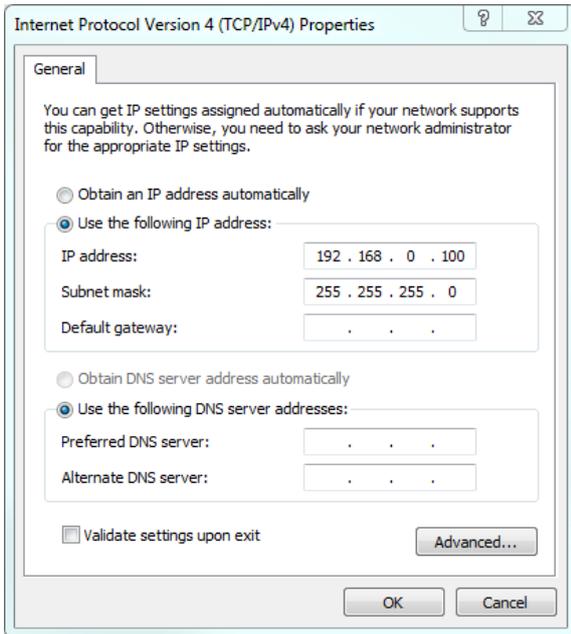
Proxy authentication method: Basic Digest Auto

AXIS Internet Dynamic DNS Service

See also the [advanced TCP/IP settings](#)

2.3 Change the IP address of network connection

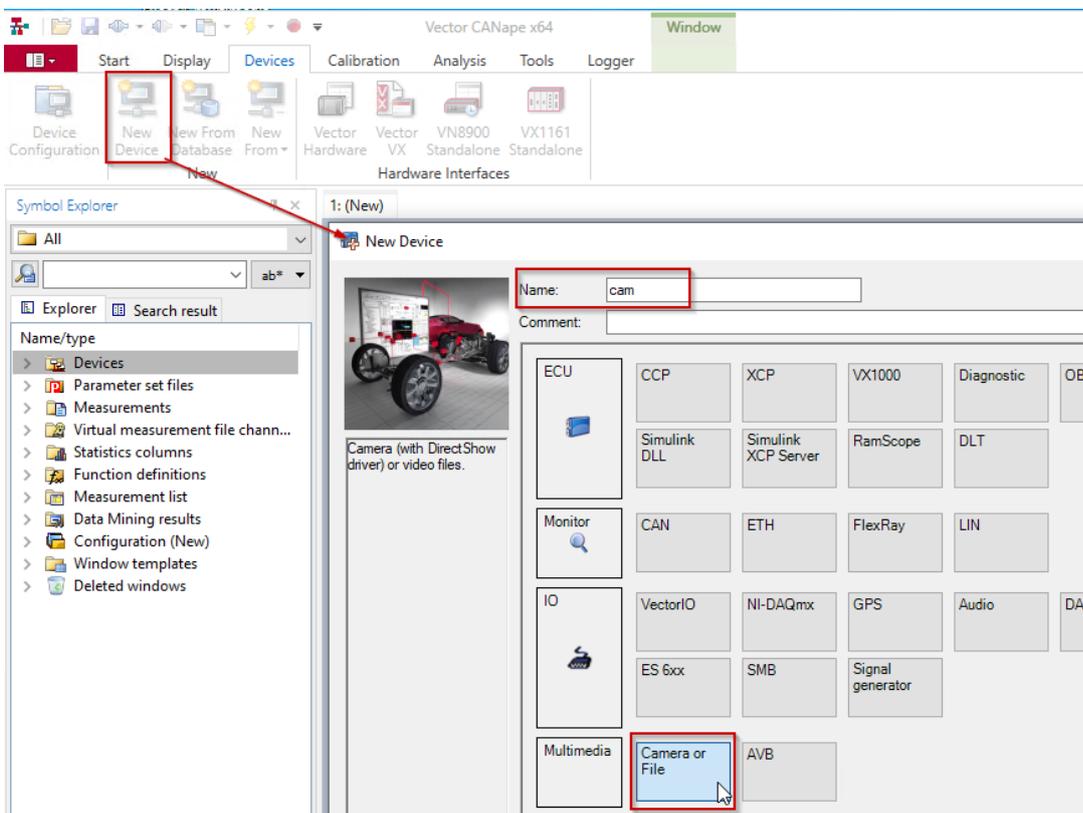
The Ethernet adapter of your computer needs to be changed according to the IP address of F44 main unit.



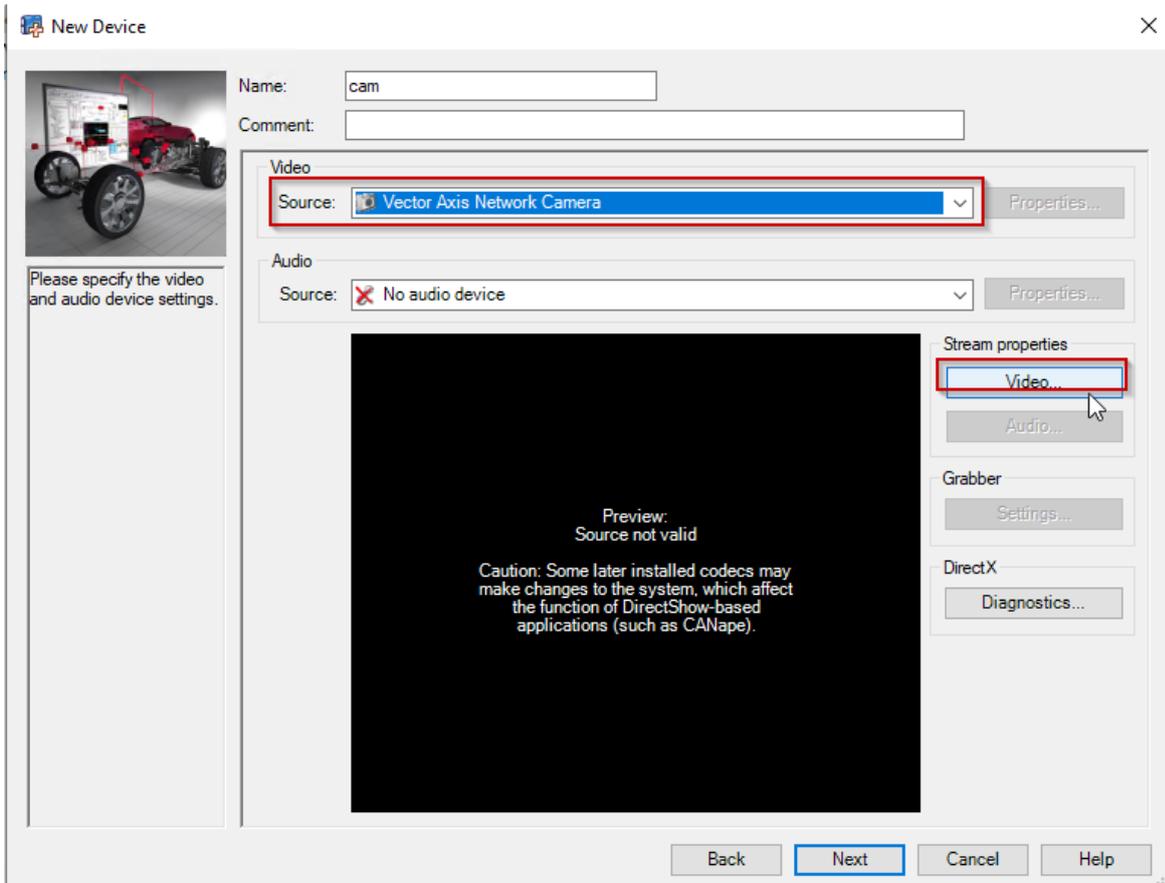
3 Configure camera plug-in in CANape

3.1 Open CANape

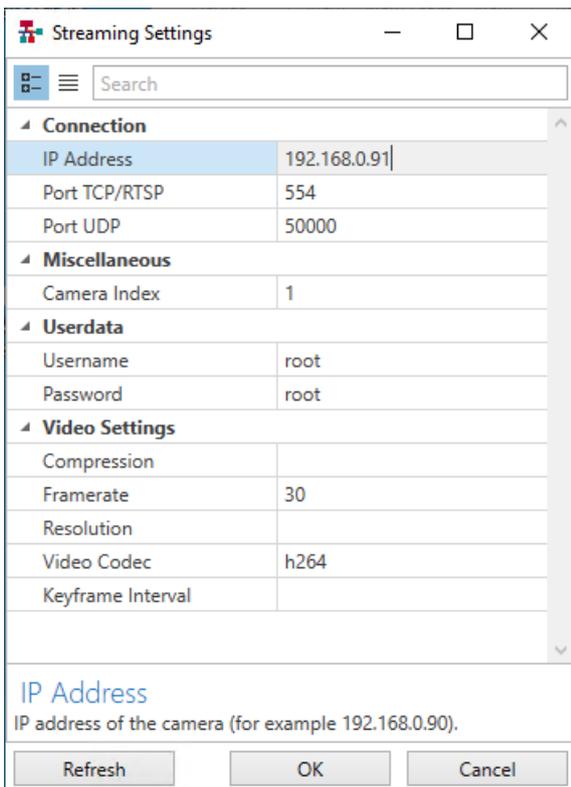
3.2 Add new device – camera



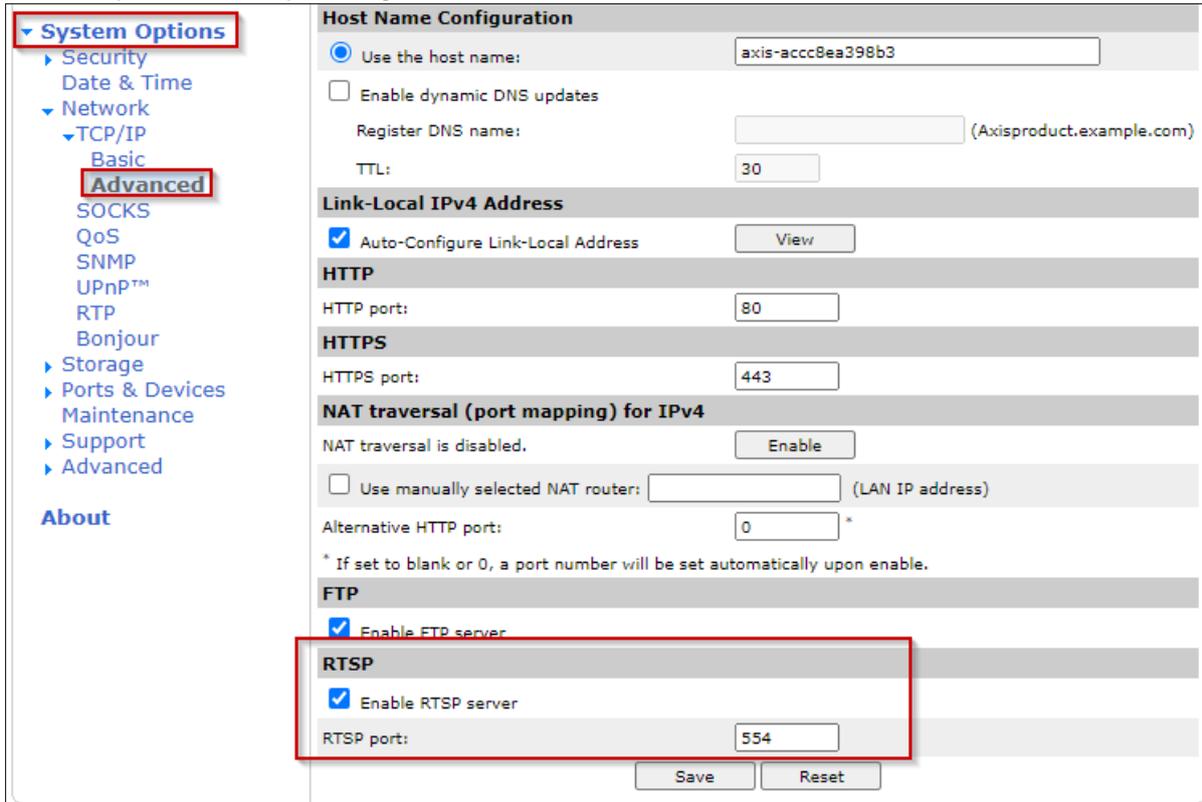
3.3 Choose the source “Vector Axis Network Camera”



3.4 Click the “Video” above to configure the plug-in



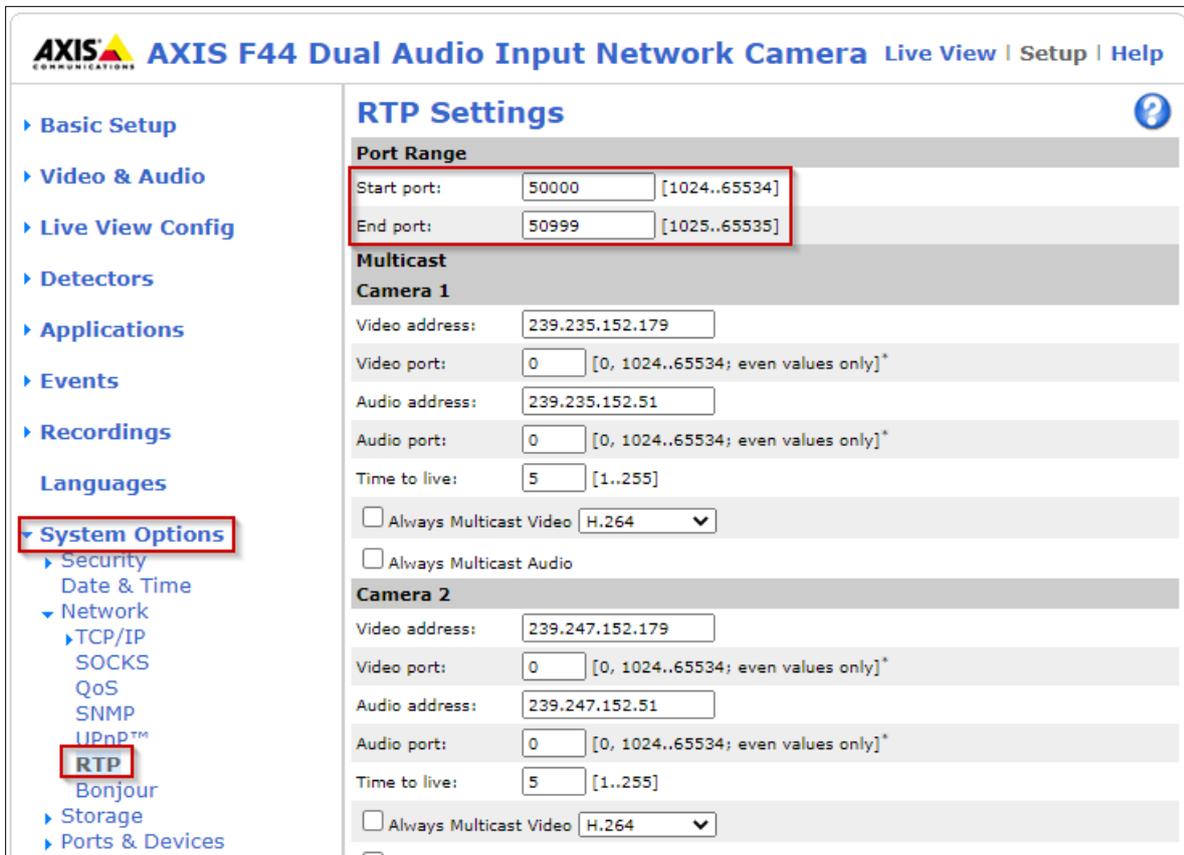
The TCP port and UDP port range can be found in the web interface:



The screenshot shows the 'System Options' menu on the left, with 'Advanced' selected. The main content area is titled 'Host Name Configuration' and includes several sections:

- Host Name Configuration:** 'Use the host name' is selected with the value 'axis-acc8ea398b3'. 'Enable dynamic DNS updates' is unchecked. 'Register DNS name' is empty, and 'TTL' is set to 30.
- Link-Local IPv4 Address:** 'Auto-Configure Link-Local Address' is checked, with a 'View' button.
- HTTP:** 'HTTP port' is set to 80.
- HTTPS:** 'HTTPS port' is set to 443.
- NAT traversal (port mapping) for IPv4:** 'NAT traversal is disabled' with an 'Enable' button. 'Use manually selected NAT router' is unchecked. 'Alternative HTTP port' is set to 0.
- FTP:** 'Enable FTP server' is checked.
- RTSP:** 'Enable RTSP server' is checked, and 'RTSP port' is set to 554. This section is highlighted with a red box.

Buttons for 'Save' and 'Reset' are located at the bottom right.



The screenshot shows the 'RTP Settings' page for an 'AXIS F44 Dual Audio Input Network Camera'. The left sidebar has 'System Options' selected, with 'RTP' highlighted in red. The main content area includes:

- Port Range:** 'Start port' is 50000 and 'End port' is 50999. Both are highlighted with a red box. The ranges are [1024..65534] and [1025..65535] respectively.
- Multicast:**
 - Camera 1:** Video address: 239.235.152.179; Video port: 0; Audio address: 239.235.152.51; Audio port: 0; Time to live: 5. 'Always Multicast Video' is unchecked.
 - Camera 2:** Video address: 239.247.152.179; Video port: 0; Audio address: 239.247.152.51; Audio port: 0; Time to live: 5. 'Always Multicast Video' is unchecked.

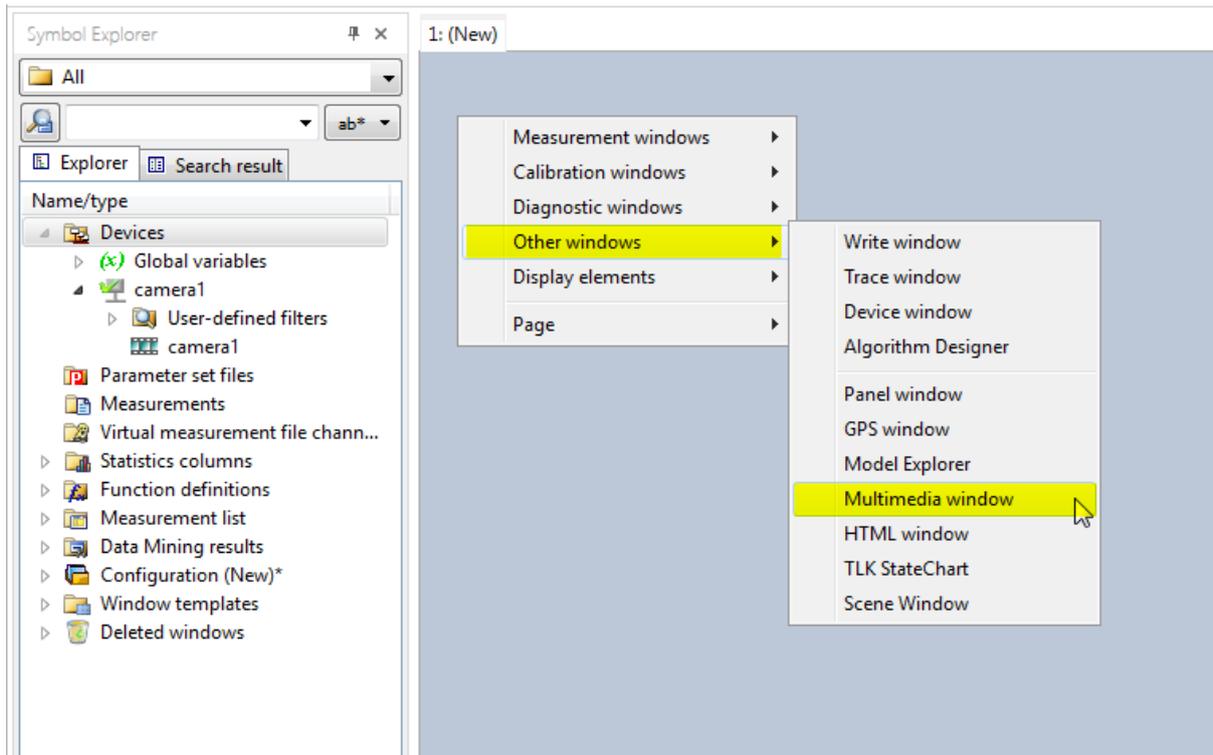
Please give every camera an unique UDP port. If you have more than one Axis main unit, please make sure every main unit has a unique IP address and for the cameras connected with different Axis main unit, they should also have different UDP ports.

For example, you have one Axis main unit with IP address 192.168.0.91, another Axis main unit with IP Address 192.168.1.91, the UDP port setting should be :

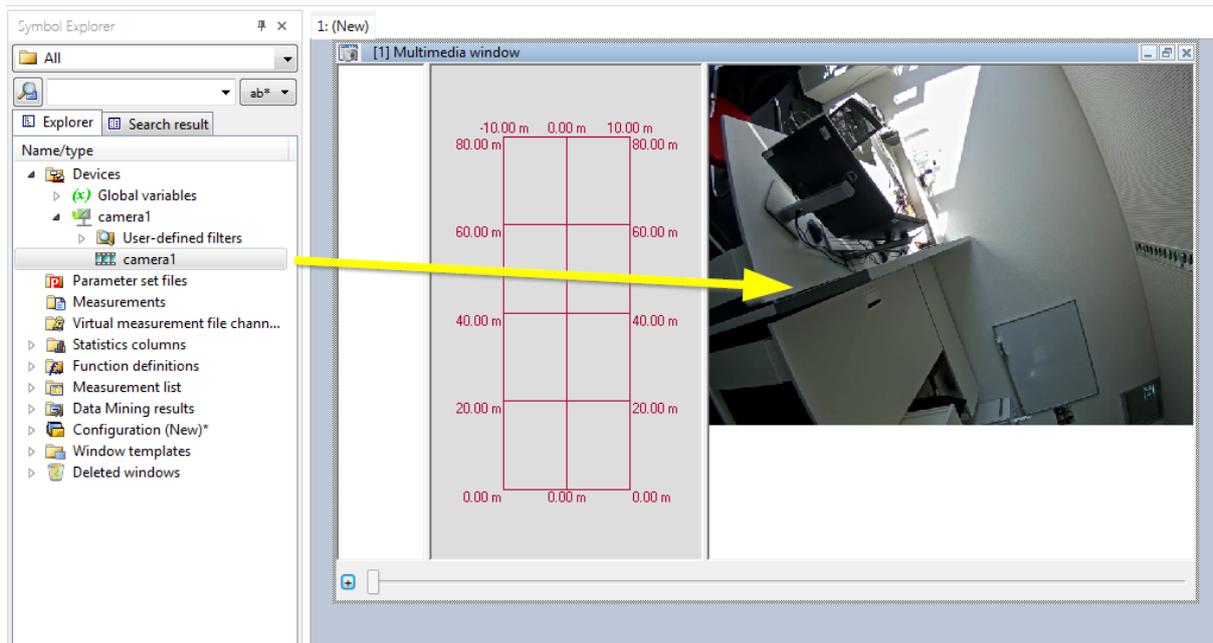
	<p>e.g. Camera1: IP 192.168.0.91 PortUDP: 50000 Camera: 1 Camera2: IP 192.168.0.91 PortUDP: 50001 Camera: 2 Camera3: IP 192.168.0.91 PortUDP: 50002 Camera: 3 Camera4: IP 192.168.0.91 PortUDP: 50003 Camera: 4 Camera5: IP 192.168.1.91 PortUDP: 50004 Camera: 1 ...</p>
	<p>Please do not use the same UDP port as other cameras, even though they have different IP addresses.</p>

After input of IP Address, Port TCP/RTSP, Port UDP, Camera Index, Username and Password, you can click **Refresh**. The the connection between CANape and Axis main unit should be established. The parameters under **Video Settings** should show up automatically. If there is no return value under **Video Setting**, it means there is no connection between CANape and the Axis main unit. Please check your firewall and network configuration again.

3.5 Create a multimedia window in CANape



3.6 Drag the camera1 from symbol explorer and drop it into the multimedia window

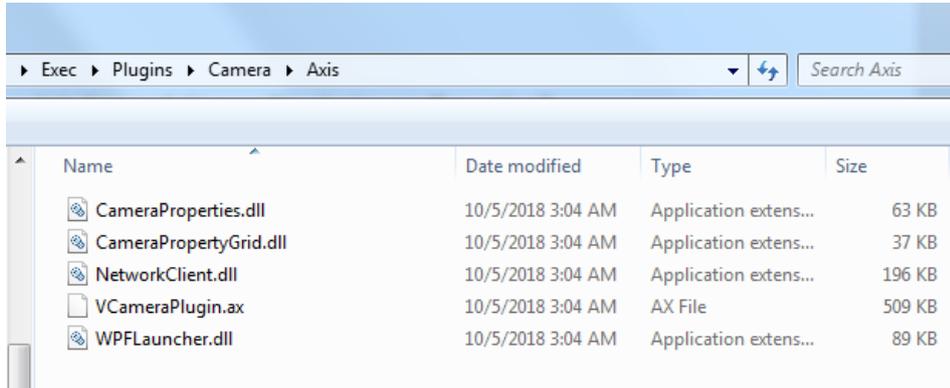


4 FAQ

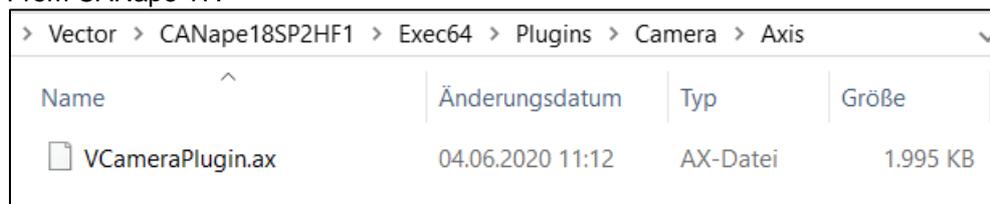
4.1 I cannot find the option “Vector Axis Network Camera” in device configuration

Did you install the CANape of the correct version? Can you find the following files in the folder: CANape\Exec\Plugins\Camera\Axis? If not, you need to upgrade your CANape to the correct version or copy these files into the corresponding folder.

CANape 16:

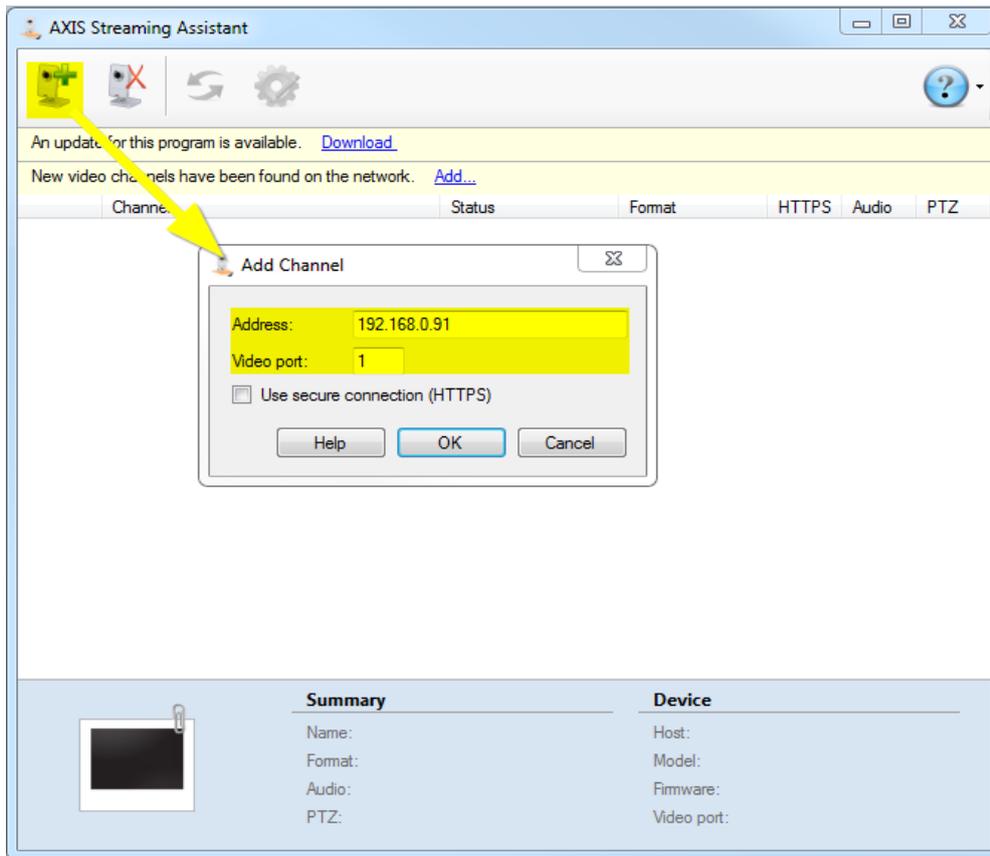


From CANape 17:

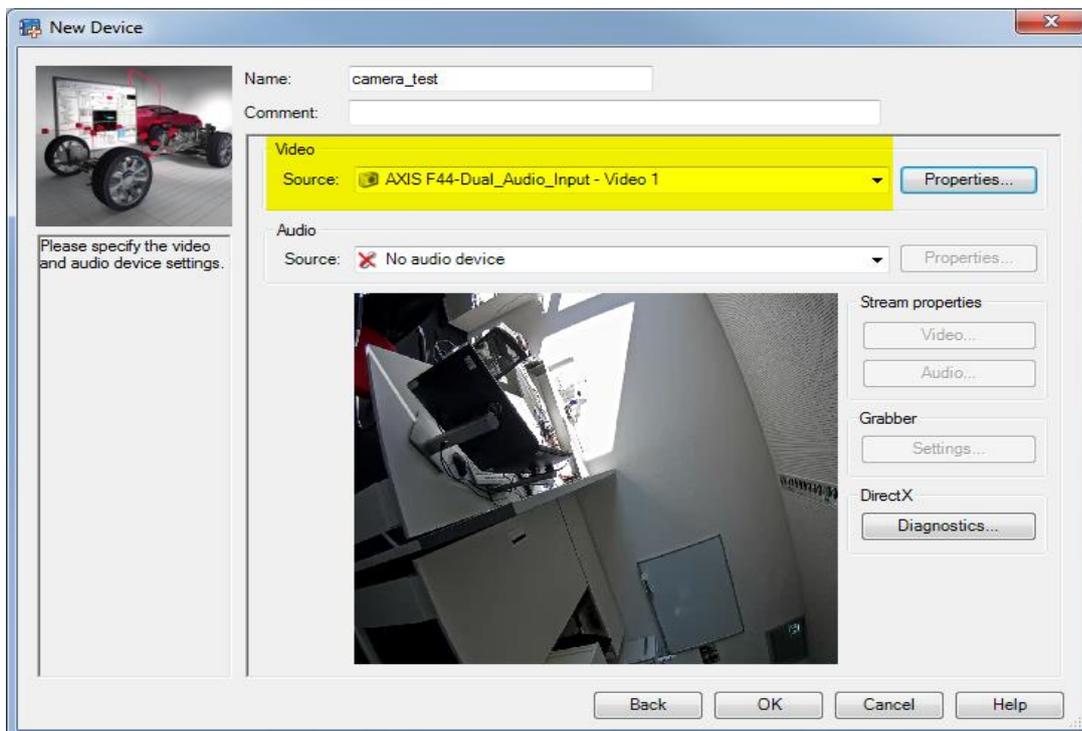


4.2 I cannot see the video image in CANape

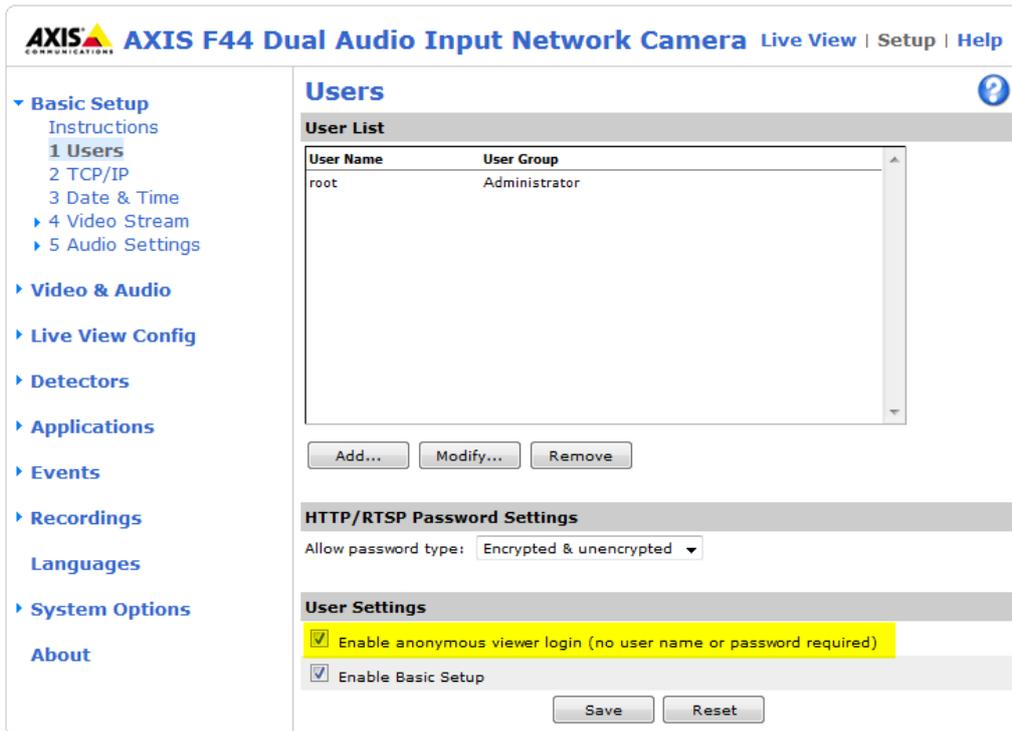
(1) You can use AXIS Streaming Assistant to check whether you can see the video or not. Click **add new channel** and input the address and video port of your camera.



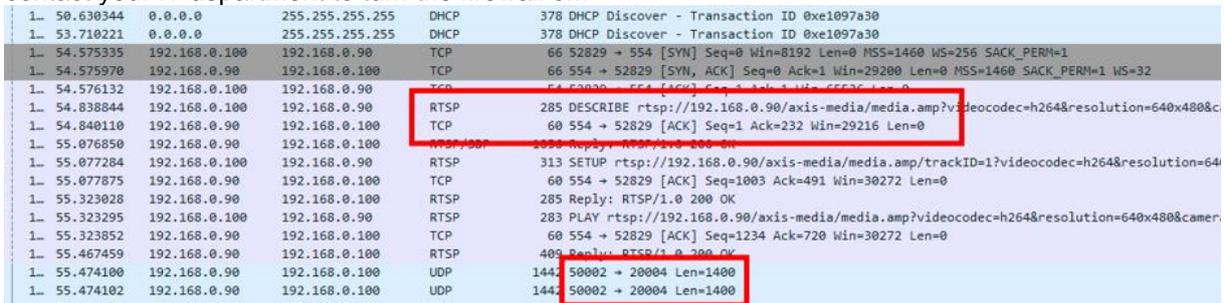
Then go back to CANape, choose the source “AXIS” for your camera.



(2) If you can see the video through AXIS Streaming Assistant but still no images in CANape through Vector plug-in, you can open the IP address in your browser, go to the **Basic Setup | Users** to check the configuration of your camera. Make sure that the option **Enable anonymous viewer login** is activated.



(3) Please check whether the firewall is off or not. After you connect the Axis camera in CANape and start a measurement, you can open Wireshark in parallel to check whether there are UDP packets coming. If you cannot see the UDP packets, it means the UDP might be blocked by a firewall. Please contact your IT department to turn the firewall off.



4.3 Axis FAQ

For specific questions related to the Axis cameras you can visit the Axis FAQ:
<https://www.axis.com/support/faq>

AXIS F44 Main Unit User Manual

https://www.axis.com/files/manuals/um_f44_1503728_en_1607.pdf

5 Contacts

For support related questions please address to the support contact for your country
<https://www.vector.com/int/en/company/contacts/support-contact/>.