

BEFORE INSTALLING THE AX-PECO APPLICATION

- A. Before you install the AX-PeCo application the AXIS camera has to be configured to be accessible through the network (use the [Axis IPUtility](#) or go to "Basic Setup/TCP/IP" to configure the network connection). For further information, please consult the AX-PeCo manual.
- B. The following camera features must be configured for the correct operation of the AX-PeCo application.
 - **HTDV** capture in M-3006 camera model.
 - **50 Hz** frequency, you can set it on the start-up.
 - Date and time through NTP server, Setup/BasicSetup/Date&Time. There are public servers available such as **pool.ntp.org**.
 - Internet access router; required to access the NTP server.
 - **DNS**, e.g. 8.8.8.8 and 8.8.4.4
- C. The AX-PeCo application can be installed in the following AXIS cameras.
 - M3006 model: ARTPEC 4 processor
 - M3014 model: ARTPEC 3 processor
 - M3204 model: ARTPEC 3 processor
 - M3203 model: ARTPEC 3 processor
 - M3004 y M3005 AMBARELLA A5S processor

Note that the camera processor is important to select the right AX-Peco application file. Download the right application file either for ARTPEC-3 or for ARTPEC-4 processors from our web page www.visual-tools.com.

The file has the following format:

AX-PeCo_version_processor.eap (e.g. AX-PeCo_1_512_ARTPEC-3.eap)

- D. A camera must be powered through its Ethernet connector using **PoE (IEE 802.3af)**. You must use a PoE midspan or ensure that your network switch provides PoE.
- E. Finally, you will need a file with the license key (AX-PeCo_serialnumber.key) or the license code as explained in section *Licences for AX-PeCo*.

How to install the AX-PeCo application

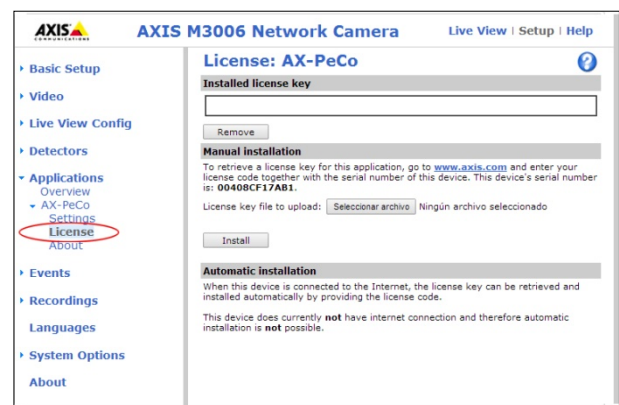
To install the AX-Peco application you must select **Setup** in the camera top-right menu and then select **Applications** in the left menu.

Click the **Browse** button to select the appropriate application file depending on your camera processor and then the **Upload Package** button to send it to the camera. This will install the AX-Peco application in the camera. Now, you must activate it with your license key.

Licenses for AX-PeCo

To activate the AX-Peco application you must purchase a license from your distributor or get a temporary trial license as follows.

- A. **Buy a license:** contact your distributor, remember that each license is specific of single camera. The distributor will provide a specific license code for each camera you wanted to use with AX-Peco.
- B. **Activate the AX-PeCo license in the camera.** Select **Setup** in the top-right menu, select **Applications** in the left menu, select the **AX-Peco** option, in the drop-down menu and click on **License**.



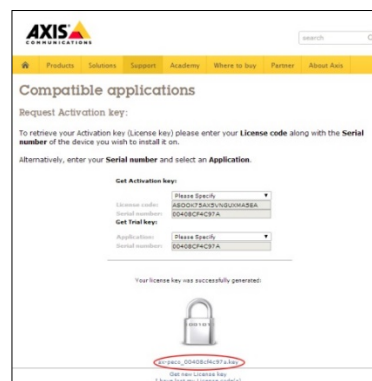
If you have already your .key file, click **Browse** to select the key file and **Install** to install it in the camera. Otherwise, click on the www.axis.com link, to connect to the Axis license service

(http://www.axis.com/techsup/compatible_applications/).

This page will supply a license key by inserting the **License Code** provided by your distributor and your camera **Serial Number**.

(You can find the serial number in the product label and in the **Basic Setup** screen as **MAC address**)

When clicking **Confirm** you will be informed of the successful generation of your license key. Download the license key file by clicking **the link under the lock icon**, see figure below.



Note that the license key filename identifies the application and the camera serial number, for example: **ax-peco_00408cdc0533.key**.

Trial Key. You can also request a **Trial License** which will allow you to **test the application for 30 days**. After this period it will stop working. To get a trial license select the option *Get Trial Key* in the Axis page mentioned above. You only need to specify the camera **Serial Number** to obtain a *Trial Key*.

License key installation. Go to the camera and select the menu **Setup/Applications/AX-Peco/License**. Click the **Browse** button to select your license key file and then press the **Install** button to install the license.

Final check. Click again on the **Applications** menu, select the AX-Peco application in the list and check that it is running and that the license is installed (if the application is stopped, click on the **Start** button to make it run)

Mounting the Camera

Please keep in mind that:

- The camera must be placed in an **overhead** position, over the counting area.
- The **Count Line** is the imaginary line set to count people crossing in both directions.
- The camera must be oriented to ensure that the **Count Line** will be horizontal with respect to the camera view, i.e. people crossing vertically.

For further information please consult the technical note with the camera selection table based on the passage width and the available height in our web site www.visual-tools.com

Counter configuration

You will configure the AX-Peco application in this last step. Select **Live view** in the camera menu and click on the link **Visual Tools People Counter** at the bottom left corner.

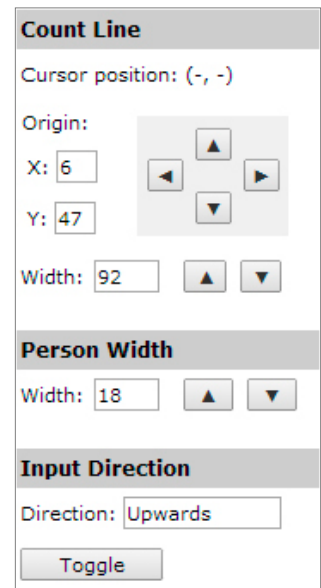
The application has several tabs. Select the **Configuration Tab**. Click on the **Refresh** button when a person is under the camera and centred in the field of view. This will help estimating the person size as viewed by the camera as explained here after.

Count Line Configuration. On the left menu, use the arrows in the **Count Line** section to set up the people traffic line in the image. To define the **counting zone** use the arrows at the **Width** option.

Person Size Configuration. Use the arrows in the **Person width** section to match the **pink silhouette** to the actual person image.

Input/Output Configuration. Choose the **passing direction** in **Input Direction**, press the **Toggle** button to change the selection.

Finally, don't forget to **save** the configuration.



Setup up a timetable

Select the **Counting Schedule tab** to set up a timetable. You can specify up to five different periods per weekday. Don't forget to **save the changes** before you leave the screen.

Check the counter

Go to the **Live tab** to check that the AX-Peco is counting properly. Press the **Start** button and check that the counts are updated when people cross the counting line. Press **Stop** to end the test.

Data download and management

To download and aggregate the people counting data coming from different cameras and to display sophisticated graphic representations you can [download the free software PeCo-Graph](http://www.visual-tools.com), available at our web site, www.visual-tools.com.