

Installation of PCO cameras

pco.panda 4.2

First, check the install manual from PCO. There you find a detailed description of the installation procedure.

- <https://www.pco.de/support/manuals/scmos-cameras/pcopanda-42/>

Quick Install

tl;dr the manual

1. Download the latest USB interface driver from the PCO homepage
 - <https://www.pco.de/support/interface/scmos-cameras/pcopanda-42/>
2. Install the USB driver
3. Download the latest Camware software from the PCO homepage
 - <https://www.pco.de/support/software/scmos-cameras/pcopanda-42/>
4. Connect the camera via USB and check if Camware can find the sCMOS camera.

pco.pixelfly

First, check the install manual from PCO. There you find a detailed description of the installation procedure.

- <https://www.pco.de/support/manuals/specialized-cameras/pcopixelfly-usb/>

Quick Install

tl;dr the manual

1. Download the latest USB interface driver from the PCO homepage
 - <https://www.pco.de/support/interface/specialized-cameras/pcopixelfly-usb/>
2. Install the USB driver
3. Download the latest Camware software from the PCO homepage
 - <https://www.pco.de/support/software/specialized-cameras/pcopixelfly-usb/>
4. Connect the camera via USB and check if Camware can find the sCMOS camera.

Document version: 1.0

Auer, August 2018

Installation of Micro-Manager

Install Micro-Manager

Download the latest Micro-Manager 1.4 install file from the Micro-Manager homepage

https://micro-manager.org/wiki/Download%20Micro-Manager_Latest%20Release

Install the PCO adapters in Micro-Manager

First, check out the installation guide from PCO

https://www.pco.de/fileadmin/user_upload/pco-manuals/MA_MICROMANAGER_200.pdf

Quick Install

tl;dr the installation manual

Files (.dll) needed to be copied into the Micro-Manager home directory

- pco_conv.dll
- pco_cdlg.dll
- sc2_cam.dll

These files should be found on your computer under C:\Program files\Digital Camera Toolbox\Camware. In case your system is 64bit see C:\Program files (x86)\Digital Camera Toolbox\Camware for the 32bit dlls and C:\Program files\Digital Camera Toolbox\Camware for the 64bit dlls (32/64 depends on your installation).

Configure the PCO camera in Micro-Manager

Quick Install

tl;dr the installation manual

1. Open Micro-Manager with the configuration file "*none*"
2. Go to: Tools Hardware Configuration Wizard
3. Choose "*Create new configuration*"
4. Look for the folder "*PCO_Camera*" in Available Devices
5. Add "*pco_camera adapter*"
6. Click "*Next*" in Step 3, 4 and 5
7. In Step 6, save the configuration file (e.g. pco_panda)

Troubleshooting

If Micro-Manager does not find the PCO camera, try opening the PCO camware software and check if the camera can be found. If PCO camware connects to the camera, try Micro-Manager again. In some cases this solves connection problems.

Document version: 1.0

Auer, August 2018

Installation of Toptica's TOPAS software

1. Connect the USB stick provided from Toptica
2. Install TOPAS iBeam smart software
3. Connect the Laser via USB
4. Open TOPAS
5. Click Menu Connect
6. The laser should now be ready

Document version: 1.0

Auer, August 2018

Installation of Picasso

1. Go to the Jungmann lab homepage
 - <https://www.biochem.mpg.de/5608779/Software>
2. Download the Picasso Installer
3. Install Picasso

Document version: 1.0

Auer, August 2018