

installation manual

pco.kaya frame grabber



1288 
EMVA Standard Compliant

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**PCO asks you to carefully read and follow the instructions in this document.
For any questions or comments, please feel free to contact us at any time.**



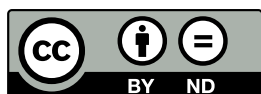
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1 Introduction

KAYA KOMODO (II) FRAME GRABBER INSTALLATION

This manual describes the installation of the **Kaya Komodo CLHS Frame Grabber** and **Kaya Komodo II CLHS Frame Grabber** for PCO cameras with CLHS FOL interface. For further description of the Kaya Frame Grabbers and Software see also the Kaya manuals. During PCO Software installation, CLHS FOL must be selected to access PCO cameras via Kaya Frame Grabbers.

Availability Available for these camera models:

- pco.edge 4.2/5.5 with CLHS FOL interface
- pco.dicam C1
- pco.dicam C4 (4x CLHS FOL)
- pco.dicam C8 (max. 8x CLHS FOL)

Support In case of errors please contact us at PCO:

- [Contact support](#)
- tel +49 9441 2005 0

System requirements Please consider the following system requirements:

- PCIe Slot x8 or x16
- Recommended: Gen 3 and 8 lanes (see chapter 4)
- Windows 10 (64 bit)

2 Safety Instructions

CLASS 1 LASER PRODUCT

Risk of injury due to laser beam.

- Do not look into the laser beam or at direct reflexes.
- Do not point the laser beam at persons.
- Manipulations of the laser device are not allowed.



ELECTRIC SHOCK WARNING DUE TO VOLTAGE PARTS INSIDE

Risk of injury due to electric shock.

- Always pull the main plug before opening the computer.



3 Frame Grabber Installation

Instructions for installing and testing the **Kaya Komodo (II) CLHS Frame Grabber** card. This card is required to be able to use a PCO camera with CLHS FOL interface. Installation must be performed by a technician, because high voltages can occur on the device.

ELECTRIC SHOCK WARNING DUE TO VOLTAGE PARTS INSIDE

Risk of injury due to electric shock.



WARNING

→ Always pull the main plug before opening the computer.

Install the latest Kaya Komodo package.
([Download](#) approved version from our website)
Only 64-bit computer systems are supported.

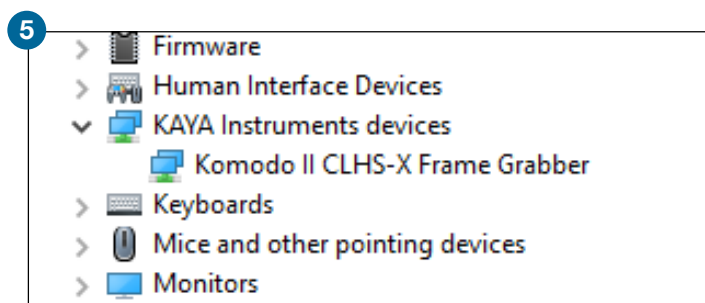
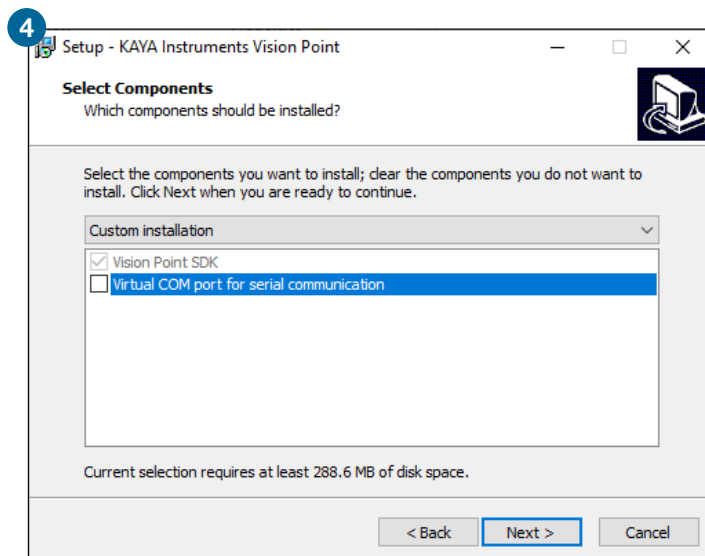
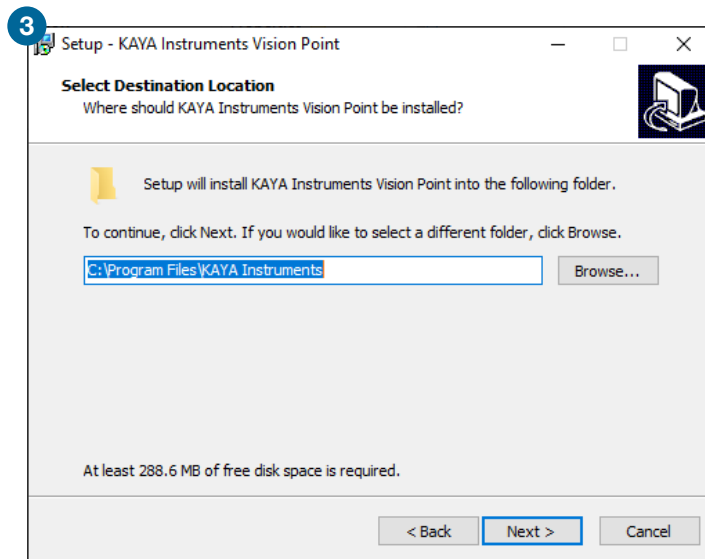
- 1 Shutdown your computer, open the computer case and install the frame grabber card
- 2 Start the Installation Executable: KAYA_Vision_Point_Setup_(version)_Windows_64.exe
You can start a silent installation by calling the installation exe with command line parameters:

KAYA_Vision_Point_Setup_2021.1_SP_1_Windows_64.exe /SILENT /NORESTART /COMPONENTS="*,!virtual_com_port

- 3 Select the proper folder on your computer
- 4 Deselect **Virtual COM port for serial communication**
- 5 The frame grabber card should be displayed within the device manager. If the device is not shown this way, reinstall the driver
- 6 Check the system requirements (chapter 4)

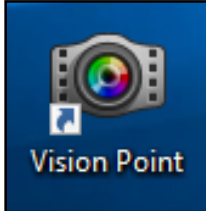
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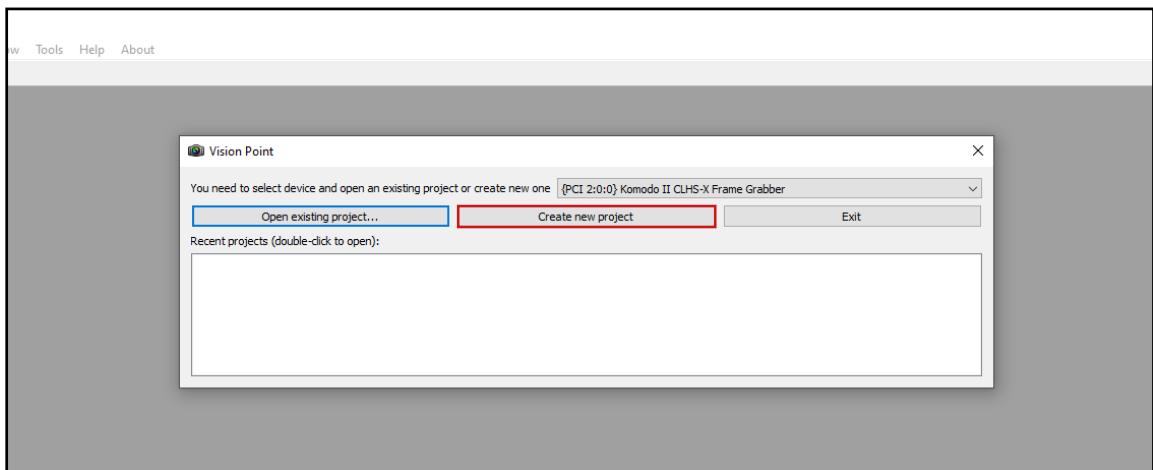


4 Vision Point Software

Start the **Vision Point** application.



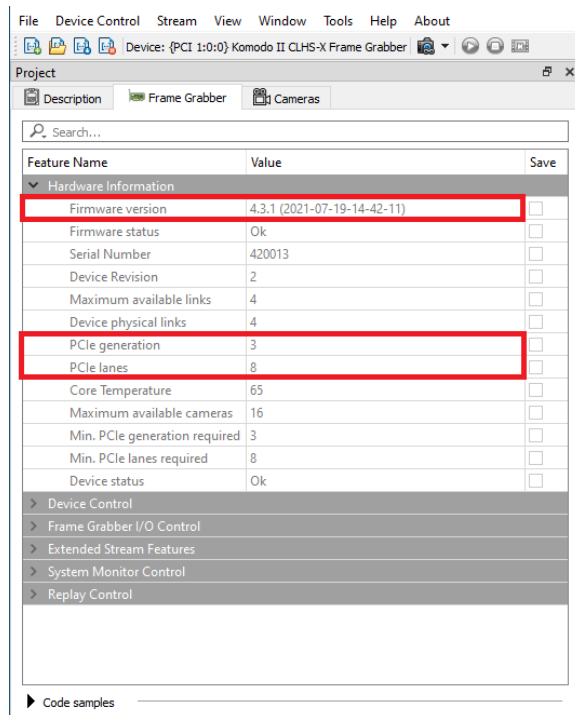
After the installation is finished, open the Vision Point software and check the hardware information. First click **Create new project**



Take a look at the **Project** tab.
Click **Frame Grabber - Hardware Information**

Check the following values:

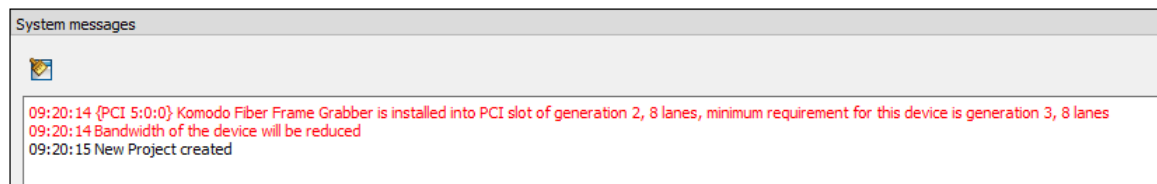
- Firmware version:
 - Komodo II : 4.3.1 or higher
 - Komodo : 4.21.9 or higher
- PCIe generation: 3 (see **PCI Express Generation 2/3**)
- PCIe lanes: 8



For proper operation, the Frame Grabber firmware must be updated to the versions listed above, see chapter 5

PCI Express Generation 2/3

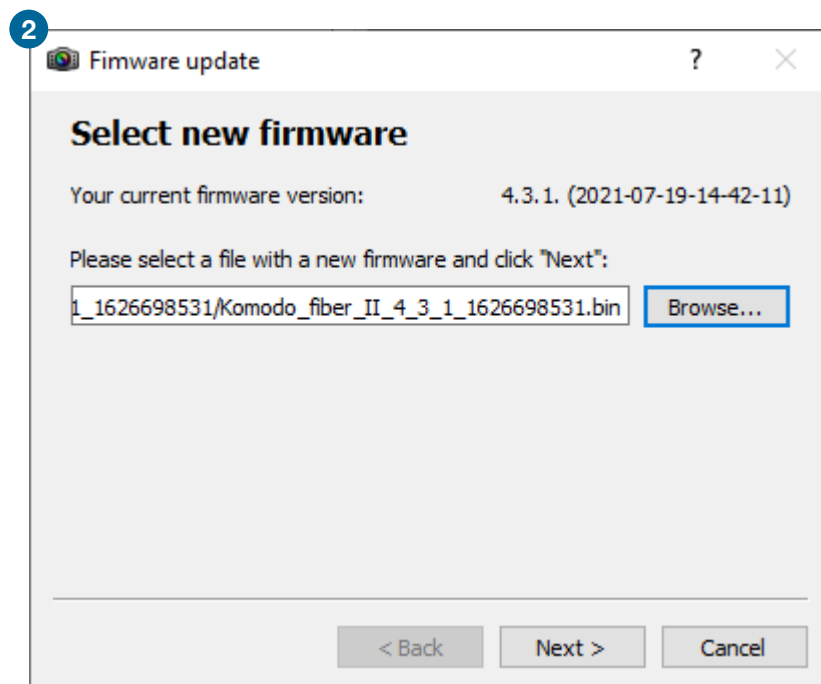
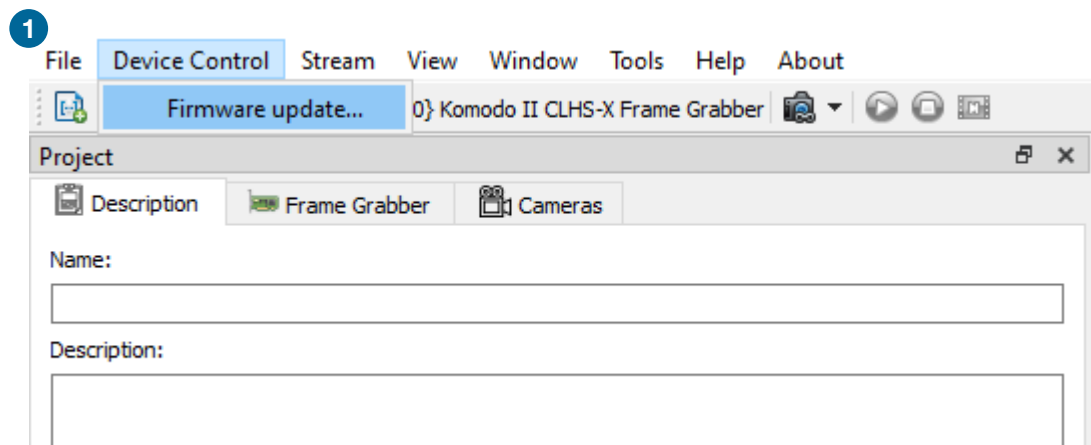
If the Frame Grabber is installed in a PCIe slot with only Gen2 capability and/or with only 4 PCIe lanes, memory bandwidth for image transfers is limited and images might be lost. Vision Point software will inform you if your system has limitations:

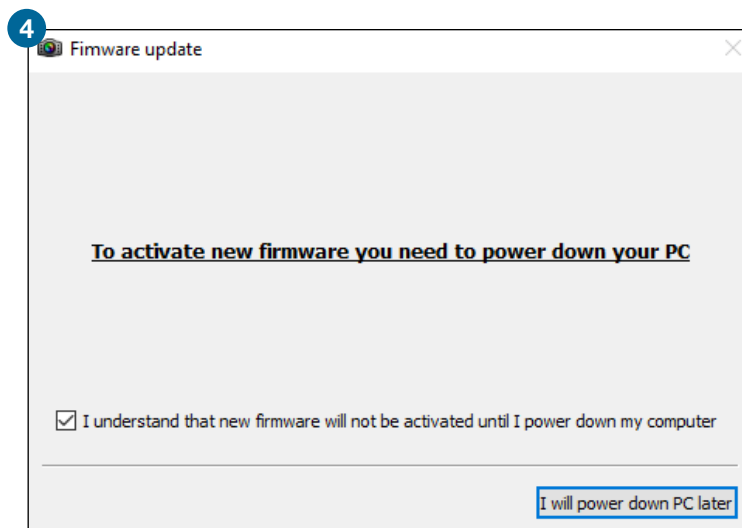
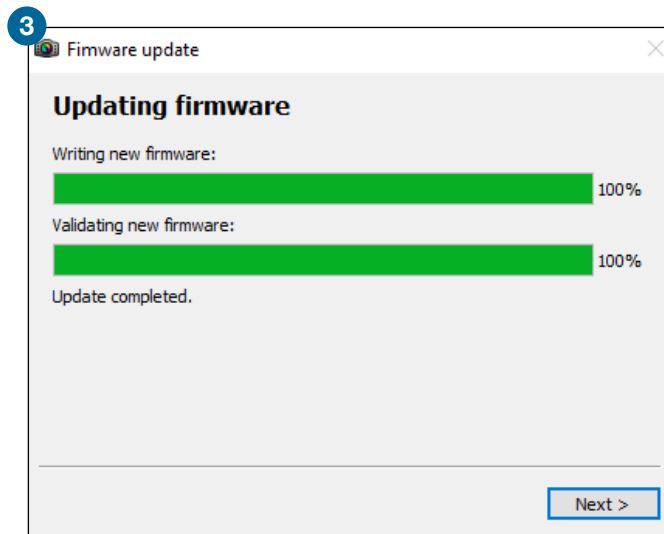


5 Update Firmware of the Grabber

How to update the firmware of a the Kaya Komodo (II) CLHS Frame Grabber card.

- 1 Select **Device Control - Firmware update...**
- 2 Select proper firmware update file
- 3 Click **Next** and wait until the update process is finished
Do not unplug and/or switch off your computer during the update.
- 4 Power down your computer. A restart is not sufficient





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