KAYA VISION

Vision Point II Software
Installation Guide

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Rev 2026.1.0

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Revision History

Version	Date	Notes
2025.2.0	06.2025	Initial release
2025.2.1	07.2025	Added support for Ubuntu 24.04 with Kernel 6.8
2025.2.2-2026.1.0	07.2025 – 12.2025	The same document without changes

Table 1 – Revision History

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1 Figures and Tables

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2 Introduction

2.1 Safety precautions

Please take the time to read through the precautions listed below to prevent preventable and unnecessary injuries and damage to you, other personnel, or property. Read these safety instructions carefully before your first use of the product, as these precautions contain safety instructions that must be observed. Be sure to follow this manual to prevent misuse of the product.

⚠ Caution! Read Carefully and do not disregard these instructions.
In case of a failure, disconnect the power supply Disconnect the power supply immediately and contact our sales personnel for repair. Continuing to use the product in this state may result in a fire or electric shock.
If an unpleasant smell or smoking occurs, disconnect the power supply. Disconnect the power supply immediately! Continuing to use the product in this state may result in a fire or electric shock. After verifying that no smoking is observed, contact our sales personnel for repair.
Do not disassemble, repair or modify the product. It may result in a fire or electric shock due to a circuit shortage or heat generation. Contact our sales personnel before inspection, modification, or repair.
Do not place the product on unstable surfaces. Otherwise, it may drop or fall, resulting in injury to persons or the camera.
Do not use the product if dropped or damaged. Otherwise, a fire or electric shock may occur.
Do not touch the product with metallic objects. Otherwise, a fire or electric shock may occur.
Do not place the product in dusty or humid environments, nor where water may splash. Otherwise, a fire or electric shock may occur.
Do not wet the product or touch it with wet hands. Otherwise, the product may fail or cause a fire, smoking, or electric shock.
Do not touch the gold-plated sections of the connectors on the product. Otherwise, the surface of the connector may be contaminated by sweat or skin oil, resulting in contact failure of a connector, malfunction, fire, or electric shock due to static electricity discharge.
Do not use or place the product in the following locations. ▪ Unventilated areas such as closets or bookshelves. ▪ Near oils, smoke, or steam. ▪ Next to heat sources. ▪ A closed (and not running) car where the temperature becomes high. ▪ Static electricity replete locations ▪ Near water or chemicals. Otherwise, a fire, electric shock, accident, or deformation may occur due to a short circuit or heat generation.
Do not place heavy objects on the product. Otherwise, the product may be damaged.
Be sure to discharge static electricity from the body before touching any sensitive electronic components. The electronic circuits in your computer and the circuits on the ***Iron*** camera and the ***Predator II*** board are sensitive to static electricity and surges. Improper handling may seriously damage the circuits. In addition, do not let your clothing come in contact with the circuit boards or components. Otherwise, the product may be damaged.

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2.2 Disclaimer

KAYA Vision assumes no responsibility for any damage that may ensue by using this product for any purpose other than intended, as previously stated. Without detracting from what was previously written, the company takes no responsibility for any damages caused by:

- Earthquake, thunder strike, natural disasters, a fire caused by use beyond our control, willful and/or accidental misuse and/or use under other abnormal and/or unreasonable conditions.
- Secondary damages caused by the use of this product or its unusable state (business interruption or others).
- Use of this product in any manner that contradicts this manual or malfunctions due to connection to other devices. Damage to this product that is out of our control or failure due to modification
- Accidents and/or third parties that may be involved.

Additionally, KAYA Vision assumes no responsibility or liability for:

- Erasure or corruption of data caused by the use of this product.
- Any consequences or other abnormalities following the use of this product

2.3 Important Notes

Important notes

1. Vision Point II application requires **administrator** privileges. Please make sure this requirement is met prior to installation execution.

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3 Installation Procedure for Windows

3.1 System Requirements

Before installing, please, make sure your system meets the following requirements:

- Intel or AMD 64-bit (x86-64) compatible CPU
- At least 4 GB of system memory
- Windows 10 64-bit, Windows 11-64 bit operating systems
- 1 GB available disk space
- At least one of KAYA PCIe devices installed

IMPORTANT NOTES:

1. For Windows OS to support the latest version of Vision Point II, please make sure your Windows is up to date, and all the latest updates and hotfixes are installed.
2. Vision Point II currently comes as a bundled software package with the Vision Point legacy version, ensuring compatibility with all KAYA frame grabber models.
3. Vision Point II supports only second and third generation KAYA frame grabbers.
4. Vision Point II requires the latest firmware update for the KAYA frame grabber.
5. KAYA drivers are digitally signed according to the latest Microsoft driver signing policy and procedure. The digital signatures certificate can be found in KAYAKERN.sys driver properties. For a successful driver signature verification, please ensure your Windows is up to date and all the latest updates and hotfixes are installed.

3.2 Installation Procedure

1. Start the installation executable with administrator privileges.
2. On the Welcome screen, click “Next”.

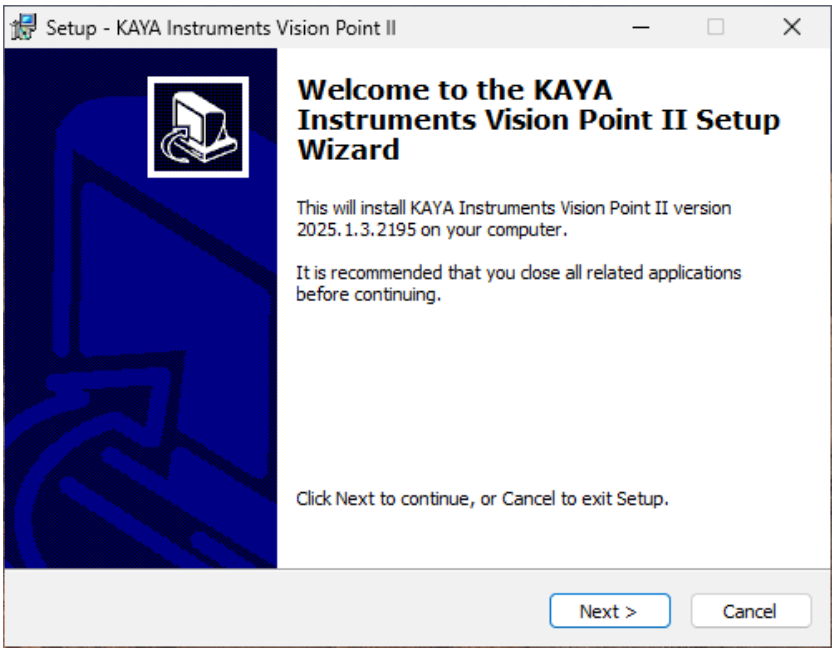

Figure 1 – Vision Point II Welcome screen

3. Define the target folder for the installation. It is recommended to keep the default folder. After selecting the installation folder, click the “Next” button.

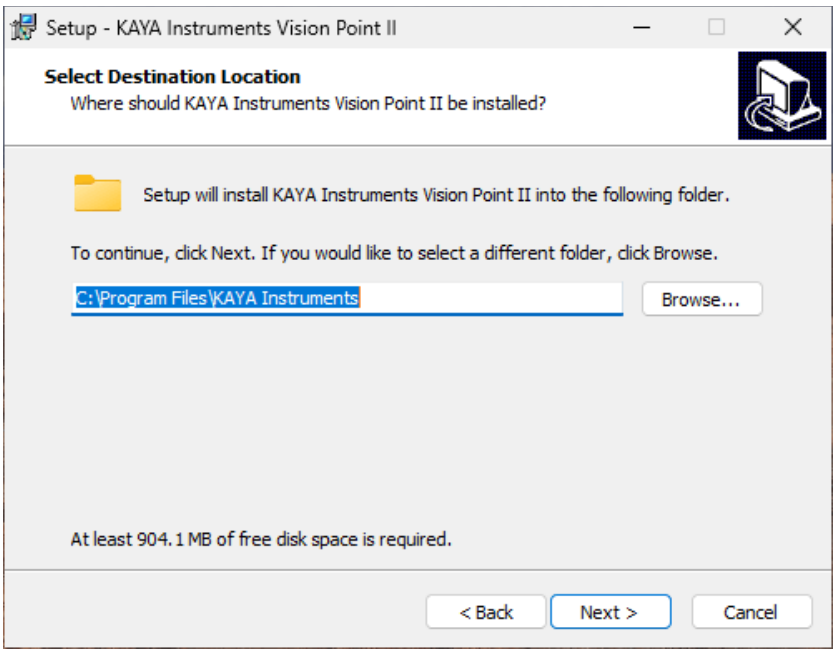

Figure 2 – Vision Point II installation location

4. At “Select Components” step check “Virtual COM port for serial communication” if it is required for CLHS frame grabber communication with the camera.

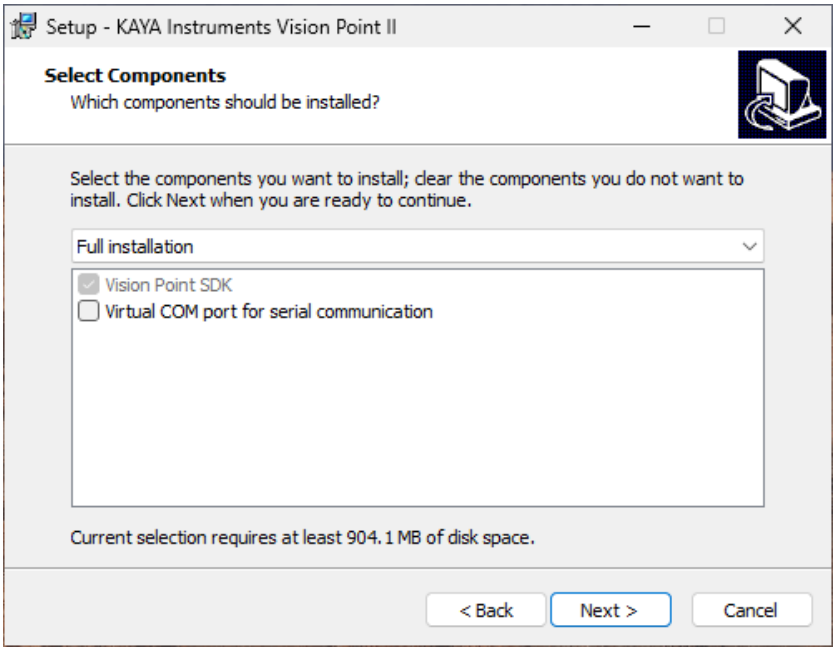

Figure 3 – Installation components checkbox

5. It is recommended to keep the default location. Click the “Next” button to proceed.

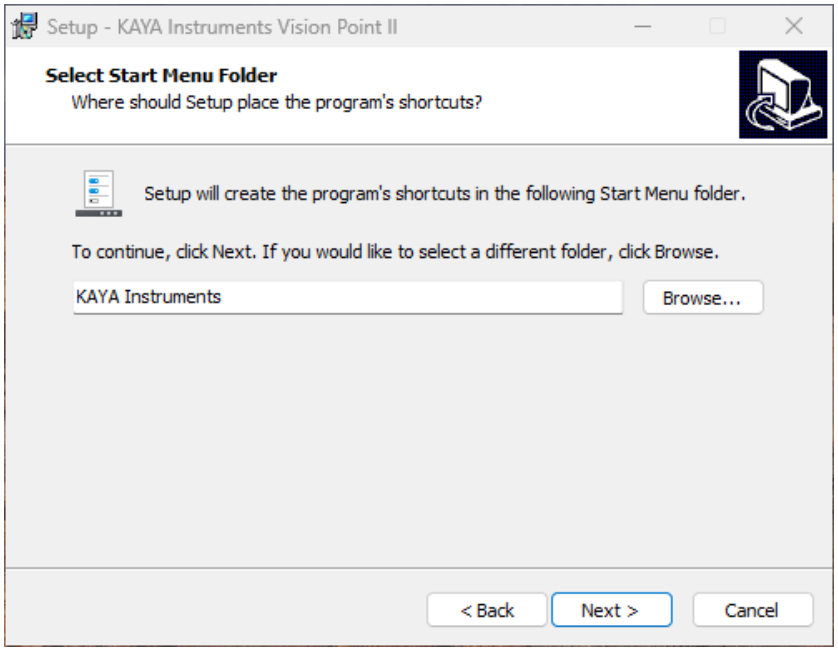

Figure 4 – Start Menu shortcut folder

6. Review the settings before actual software installation. After clicking “Install”, the installation procedure will start. It will take a few minutes for the installation to complete.

7. During the installation procedure, a few popup windows may appear. Please follow the instructions listed in the next installation steps.

8. Please back up your work and example modifications if the Vision Point II application was previously installed on your computer.

9. When the Device Driver Installation Wizard appears, click “Next” to proceed with the driver installation.

10. Click “Finish” to finalize the device driver installation wizard.

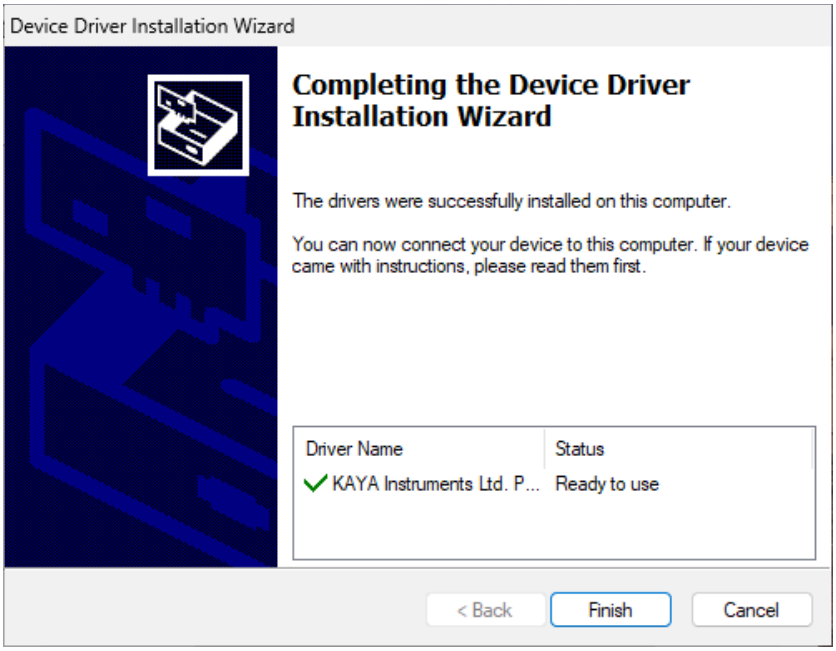

Figure 5 – Completing the device driver installation wizard for Windows OS

11. Reboot the PC to complete the installation.

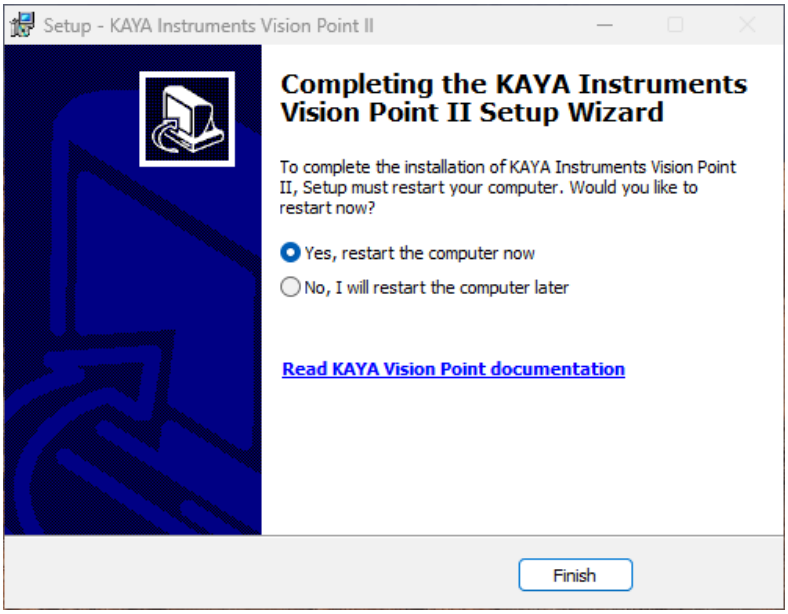

Figure 6 – Completing the installation

Installation log:

The Vision Point II application installation log files folder can be found under user’s main driver: C:\Program Files\KAYA Instruments\Log\Installer folder.

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4 Installation Procedure for Linux

4.1 System Requirements

Before installing, please make sure your system meets the following requirements:

Ubuntu 20.04 with Kernel 5.15.0, Ubuntu 22.04 with Kernel 6.5.0 and Ubuntu 24.04 with Kernel 6.8.0

1. Intel or AMD 64-bit (x86-64) compatible CPU
2. At least 4 GB of RAM
3. Ubuntu 20.04 / 22.04 64-bit operating System
4. 1 GB available disk space
5. At least one of KAYA PCI devices installed

IMPORTANT NOTES:

In case of using secure boot please read section 4.4 before continuing to installation procedure.

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4.2 Installation Procedure

1. Extract the provided .tar.gz file using the following terminal command:

```
tar -zxvf VisionPointII_2025.1.0_Ubuntu_20.04_x64.tar.gz
```

NOTE: *Installation archive name may vary: may contain a suffix specifying OS name, version, architecture, etc.*

2. Enter the extracted archive's folder and run the installation script with the following command:

```
sudo ./install.sh
```

This will install Vision Point legacy and Vision Point II software with all required components and drivers.

NOTE: *The installation package includes hardware drivers for several different Linux Kernel versions and will try to select one that corresponds to your currently running Kernel. If a version for your current Kernel is not yet included in the package, a message will appear: "No suitable pre-built driver was found for your current Kernel …" Please refer to the section 4.5 "Building hardware driver".*

The following installation flags are available:

flag	Description
-s or -silent	Silent installation, no user input required
-n or -no_dkms	Use regular driver (without DKMS) installation methode
-d or -dkms	Use DKMS driver installation methode (avoid DKMS question)
-a or -no_alerts	Suppress all alerts and messages
--keep_driver	Keep current Kernel driver. By default Kernel driver is reinstalled by this script
--keep_daemon	Keep current service (daemon). By default service executable is replaced
--keep_tray	Keep current tray configuration. By default tray executable is replaced and added to autostart
--keep_conf	Keep current internal configuration. By default only public conf is retained and internal one is cleared
--help	Display the list of available flags

NOTE: *Type "—help" at the beginning of the installation to view the list of available flags.*

3. Reboot the system.
4. A link to the applications can be found using search or run directly from the installation directory:
    a. Vision Point II – "/opt/KAYA_Instruments/VisionPointII/bin/VisionPointii.sh"
    b. Vision Point legacy – "/opt/KAYA_Instruments/bin/VisionPoint.sh"
5. API usage samples are located here:
    a. Vision Point II – "/opt/KAYA_Instruments/VisionPointII/Examples"
    b. Vision Point legacy – "/opt/KAYA_Instruments/Examples"

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4.3 Uninstallation Procedure

1. Enter the uninstallation folder from the terminal using:

```
cd /opt/KAYA_Instruments/lib
```

2. Run the installation script with the following command:

```
sudo uninstall.sh
```

The following installation flags are available:

flag	Description
-s or --silent	Silent uninstallation, no user input required

4.4 Signing hardware driver using DKMS

In Linux operating systems a secure boot process allows only approved drivers to run and requires hardware driver signature. To support this feature, the driver installation method has been changed, allowing the user to choose to add KAYA driver to DKMS. The following steps explain the process of DKMS driver signing.

1. User may check whether a secure boot is activated and enabled for the OS using the following utility command:

```
mokutil --sb-state
```

NOTE: *In case the secure boot was not initially installed, this utility will not be present.*

2. Initiate the installation procedure, described in section 4.2.
3. During the installation procedure user input is required for choosing between default driver installation and signed driver installation using DKMS.

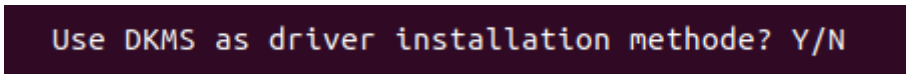


Figure 7 – DKMS user input

4. If secure boot is enabled, DKMS will try to sign the driver and the following message will pop up, in case systems MOK (Machine Owner Key) is NOT enrolled.

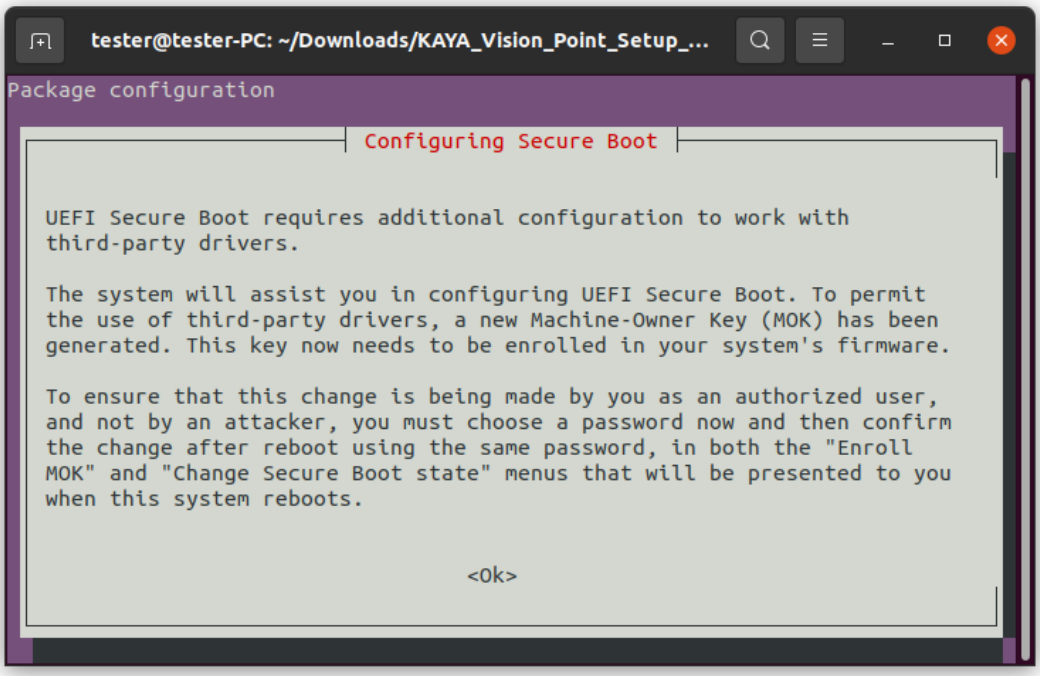


Figure 8 – Secure boot configuration message

5. Read the message and press “Ok”.
6. Create the password. This is a one-time password, meaning it will be required later.

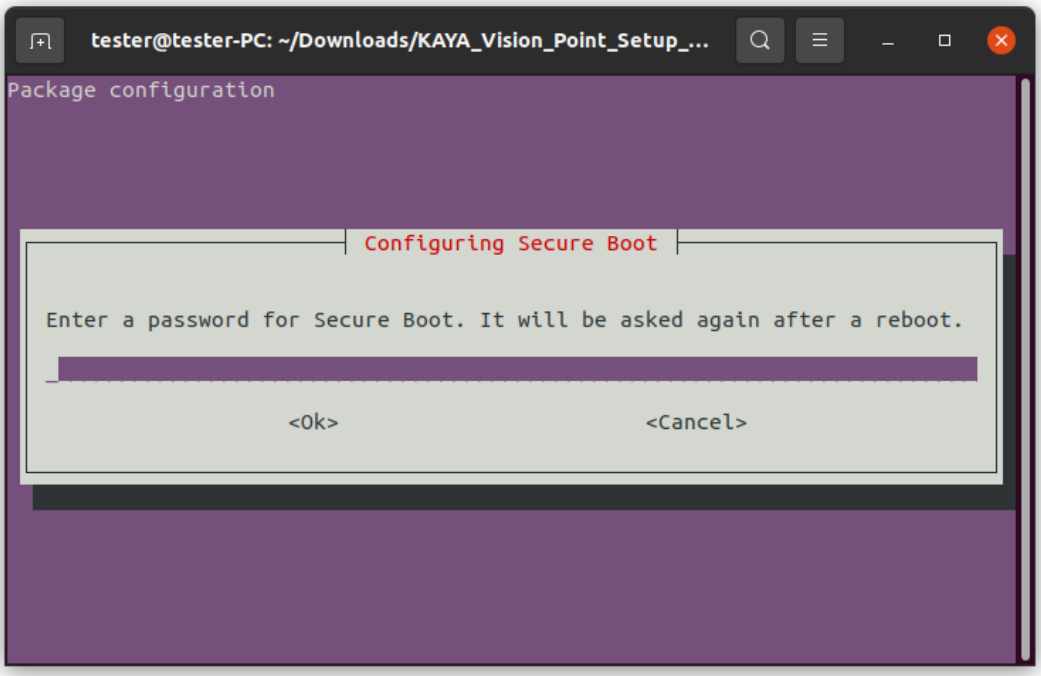
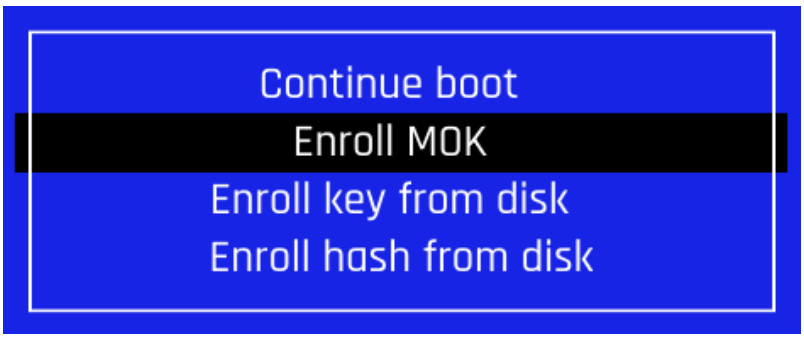
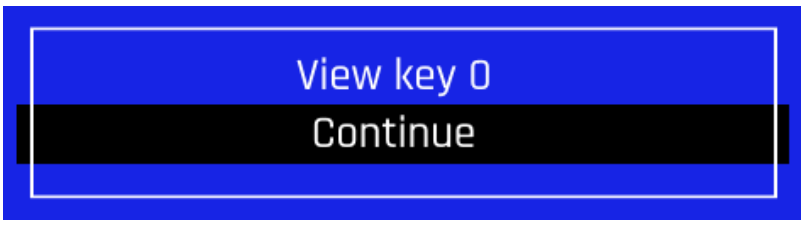
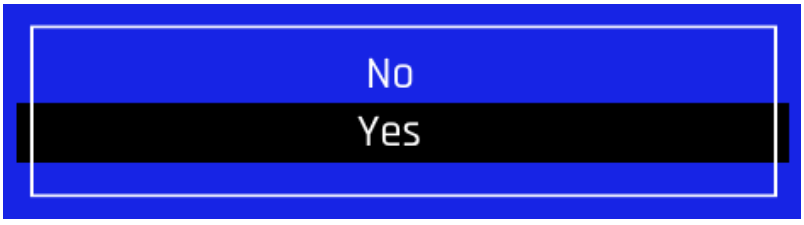


Figure 9 – Secure boot configuration password

7. After the installation is completed, reboot the system.
8. After computer reboot, the following dialog might be displayed on the screen. Choose “Enroll MOK” and follow the instructions shown below:

a. 

b. 

c. 

d. 

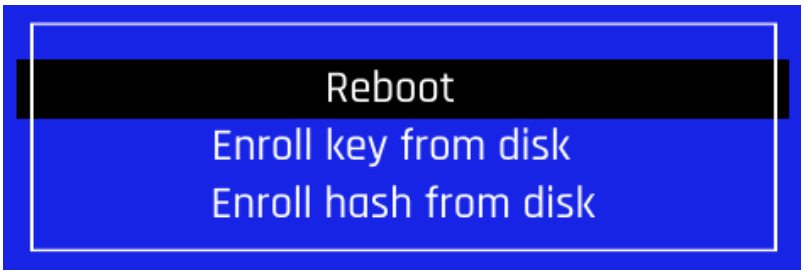
e. 

Figure 10 – Images ‘a’ to ‘e’: Enrolling MOK instructions

9. Check the status of the driver using the following command:

```
systemctl status kaya_driver.service
```

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4.5 Building hardware driver

This section explains how to build KAYA hardware driver manually in case of a Kernel update.
NOTE: This step is not a part of the installation process and should be disregarded in case the driver was added to DKMS.

1. Enter subfolder “PCI_drv_Linux” folder in the installation directory and run:

```
sh make_all.sh
```

   NOTE: This step should produce a new driver file named “predator_driver.ko”

2. Install newly built driver with the following command:

```
sudo ./kaya_driver_install.sh
```

3. Reboot the system.

REFERENCES

Supported vision standards:

CoaXPress GEN<i>CAM

Vision Point documentation:

Vision Point

TECHNICAL SUPPORT AND PROFESSIONAL SERVICE

If you searched the documents and could not find the answers you need, contact KAYA Vision support service:

- Create a support request on the web: support.kaya.vision
- Our knowledge base is available on: kb.kaya.vision

Visit us at www.kaya.vision for comprehensive information.

SUBMITTING A SUPPORT REQUEST

When opening a support request, please provide the following information when applicable:

For Frame Grabbers:	For Camera:	For Range Extender:
• Vision Point Diagnostic Info* • Serial number of Frame Grabber • Camera model • SFP+ module model • CoaXPress/Fiber cable model and length • External power or PoCXP • PC motherboard model *In the Vision Point app, use menu option Help > Collect diagnostic info.	• Vision Point Diagnostic Info (or frame grabber being utilized) • Serial Number of Camera • XML dump and/or description of how the camera is being utilized • Description of issue • SFP+ module model • CoaXPress/Fiber cable model and length • External power or PoCXP	• Range Extender Model • Serial Number of Range Extender • SFP+ module model • CoaXPress/Fiber Cable model and length • PC configuration • Operating System • Software Revision • Camera and Frame Grabber Manufacturer and Model

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