

XIMEA Linux Software Package

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XIMEA Linux Software Package is a tarred installer of xiAPI with examples.

It is designed to run on most common Linux distribution that includes the usual tools and libraries like:

Ubuntu, Red Hat, Arch, Gentoo etc.

Please note: Even though cameras and API can work with such systems, XIMEA does not guarantee reliable functionality on the ones which are NOT included in the list of tested versions mentioned below.

Supported platforms

xiAPI supports the following CPU families:

Intel x86 - tested OK with:

Ubuntu **20.04, 22.04**

RedHat **9.x**

SUSE **15.4**

ARM - tested OK with Linux for Tegra on NVIDIA:

NVIDIA Jetson TX1

NVIDIA Jetson TX2

NVIDIA Jetson TX2i

NVIDIA Jetson TX2 NX

NVIDIA Jetson Nano

NVIDIA Jetson Xavier AGX support

NVIDIA Jetson Xavier NX

NVIDIA Jetson Orin AGX

NVIDIA Jetson Orin NX

Raspberry Pi 4

Under development:

NVIDIA Jetson Orin Nano

See also additional helpful materials:

[Jetson TX2 vs AGX Xavier comparison](#),
[Jetson Nano, TX2 and AGX Xavier comparison](#),
[Jetson Image Processing](#),
[Jetson Zero Copy for Embedded applications](#),
[Realtime image processing on NVIDIA GeForce RTX 2080ti](#),
[Multimedia User Guide](#)

Contents

The Package contains:

Driver for XIMEA **USB 2.0** and **USB 3.0** cameras

[Read more about Linux USB2.0 Support](#)

[Read more about Linux USB3.0 Support](#)

Driver for XIMEA PCIe Cameras

Driver for XIMEA Firewire cameras

[Read more about Linux Firewire Support](#)

CamTool - interactive viewer

xiAPI - SDK for camera control by your software

Python

OpenCV

DNG Store

Examples:

xiSample - sample showing basic image acquisition in xiAPI

streamViewer - camera live image viewer for picture check

streamViewer is based on gstreamer. It must be installed before
streamViewer is started. Please read more in README file.

Installation

Download for Intel x86 CPU architecture

[Download XIMEA Linux x86 Software Package - Beta](#)

```
wget https://www.ximea.com/downloads/recent/XIMEA_Linux_SP.tgz
```

Untar

```
tar xzf XIMEA_Linux_SP.tgz
```

```
cd package
```

Download for ARM CPU architecture

[Download XIMEA Linux ARM Software Package - Beta](#)

```
wget https://www.ximea.com/downloads/recent/XIMEA_Linux_ARM_SP.tgz
```

Untar

```
tar xzf XIMEA_Linux_ARM_SP.tgz
```

```
cd package
```

Installation for all architectures

Start installation script

[For PCIe Cameras - please start script with option -pcie.](#)

```
./install -pcie
```

If it fails, make sure that you have the necessary tools installed, e.g. run the following command on Ubuntu:

```
sudo apt-get update  
sudo apt-get install build-essential linux-headers-"$(uname -r)"  
sudo apt-get install libtiff5
```

or this one on Red Hat:

```
sudo yum install gcc make kernel-devel  
sudo yum install libtiff
```

In some cases, it helps to disable "secure boot" in the bios
For other cameras (i.e. USB3 cameras)

```
./install
```

If logged-in user is not root, you will be asked for your password to get root access because the installation runs with the root account using sudo.
If xiCamTool fails to start on your system, please check that all required dependencies of Qt for X11 are installed:
<https://doc.qt.io/qt-6/linux-requirements.html>
E.g. on Ubuntu, you may need to run this command:

```
sudo apt install libxcb-cursor0
```

Uninstallation

Run uninstall script:

```
/opt/XIMEA/uninstall
```

If logged in user is not root, you will be asked for your password to get root access same as with install script.

Troubleshooting

If you should run into any issues during installing XIMEA API, before submitting a Support request, please read our troubleshooting pages:

- [USB 2.0 Support](#),
- [USB 3.0 Support](#),
- [Firewire Support](#),
- [ARM Support](#),
- [Nvidia Jetson TX1/TX2/Nano/AGX Xavier Support](#),

Supported Vision Libraries

- [OpenCV](#)

Knowledge Base

You can find a solution for known issues in our [Linux SP Knowledge Base](#).