

# ZED Camera Install on Windows

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## Minimum requirements for ZED Camera

- 1) NVIDIA processor for pc
- 2) NVIDIA® CUDA® Toolkit of Compatibility Version for your pc need to be installed. If not installed install Compatibility Version from <https://developer.nvidia.com/cuda-toolkit-archive> full install guide of CUDA Toolkit by followed link <https://docs.nvidia.com/cuda/cuda-installation-guide-microsoft-windows/index.html>
- 3) **Connectivity** USB 3.0

## How to Install ZED SDK on Windows

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### Download the ZED SDK

**IMPORTANT** Download ZED SDK of Cuda version Installed

The [ZED SDK](#) for Windows contains all the drivers and libraries that power your camera along with tools that let you test its features and settings.

Download the [ZED SDK](#) for Windows. Multiple versions of CUDA are available,

### Install the ZED SDK

Run the download the zed sdk (.exe) file

**Restart your computer** At the end of the installation, a system restart is required to update the Windows environment variables.

# Install the ZED Python API

- 1) This section explains how to use the ZED SDK in Python 3 on Windows
- 2) Run the CMD as admin for full access
- 3) Then navigate to "C:\Program Files (x86)\ZED SDK"

Cmd by =>

```
cd "C:\Program Files (x86)\ZED SDK"  
python get_python_api.py
```

I ran the get\_python\_api.py script which results in the following output:

```
Administrator: Command Prompt  
  
C:\Windows\System32>cd "C:\Program Files (x86)\ZED SDK"  
  
C:\Program Files (x86)\ZED SDK>python get_python_api.py  
-> Downloading to 'C:\Program Files (x86)\ZED SDK'  
Detected platform:  
    win_amd64  
    Python 3.9  
    ZED SDK 4.0  
-> Checking if https://download.stereolabs.com/zedsdk/4.0/whl/win_amd64/pyzed-4.0-cp39-cp39-win_amd64.whl exists and is available  
-> Found ! Downloading python package into C:\Program Files (x86)\ZED SDK\pyzed-4.0-cp39-cp39-win_amd64.whl  
-> Installing necessary dependencies  
Requirement already satisfied: numpy in e:\softwareinstalls\python39\lib\site-packages (1.26.4)  
Processing c:\program files (x86)\zed sdk\pyzed-4.0-cp39-cp39-win_amd64.whl  
Collecting numpy>=1.13 (from pyzed==4.0)  
  Using cached numpy-1.26.4-cp39-cp39-win_amd64.whl.metadata (61 kB)  
Collecting cython>=3.0.0 (from pyzed==4.0)  
  Using cached Cython-3.0.10-cp39-cp39-win_amd64.whl.metadata (3.2 kB)  
Using cached Cython-3.0.10-cp39-cp39-win_amd64.whl (2.8 MB)  
Using cached numpy-1.26.4-cp39-cp39-win_amd64.whl (15.8 MB)  
Installing collected packages: numpy, cython, pyzed  
Successfully installed cython-3.0.10 numpy-1.26.4 pyzed-1.3.0  
Done  
Installing OpenGL dependencies required to run the samples  
-> Downloading PyOpenGL-3.1.5-cp39-cp39-win_amd64.whl  
Processing c:\program files (x86)\zed sdk\pyopengl-3.1.5-cp39-cp39-win_amd64.whl  
PyOpenGL is already installed with the same version as the provided wheel. Use --force-reinstall to force an installation of the wheel.  
-> Downloading PyOpenGL_accelerate-3.1.5-cp39-cp39-win_amd64.whl  
Processing c:\program files (x86)\zed sdk\pyopengl_accelerate-3.1.5-cp39-cp39-win_amd64.whl  
PyOpenGL_accelerate is already installed with the same version as the provided wheel. Use --force-reinstall to force an installation of the wheel.  
Pyzed directory is e:\softwareinstalls\python39\lib\site-packages  
  
C:\Program Files (x86)\ZED SDK>pip install PyOpenGL PyOpenGL_accelerate  
Requirement already satisfied: PyOpenGL in e:\softwareinstalls\python39\lib\site-packages (3.1.5)  
Requirement already satisfied: PyOpenGL_accelerate in e:\softwareinstalls\python39\lib\site-packages (3.1.5)
```

If I check the pyzed version i get the following output:

```
Administrator: Command Prompt - python  
  
C:\Program Files (x86)\ZED SDK>python -m pip show pyzed  
Name: pyzed  
Version: 1.3.0  
Summary: UNKNOWN  
Home-page: UNKNOWN  
Author:  
Author-email:  
License: UNKNOWN  
Location: e:\softwareinstalls\python39\lib\site-packages  
Requires: durationpy, python-dateutil, requests  
Required-by:  
  
C:\Program Files (x86)\ZED SDK>python  
Python 3.9.9 (tags/v3.9.9:ccb0e6a, Nov 15 2021, 18:08:50) [MSC v.1929 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license" for more information.  
>>> import pyzed.sl as sl  
>>>
```

That means you have installed Successfully

Now we can access the ZED Camera by python the sample code for zed will be at "C:\Program Files (x86)\ZED SDK\samples" or you can download by going to this website <https://github.com/stereolabs/zed-sdk>. Check out the ZED Python API [tutorials](#) and [examples](#) to get started with Python development using the different modules of the ZED SDK.

## Error:

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If run "import pyzed.sl as sl" if we get Error:

[No module named 'pyzed.sl' on Windows](#)

That means you have not install the pyzed package

Don't try:

"pip install pyzed" if you did Manelly then

uninstall by "pip uninstall pyzed"

Then follow the instructions from above [Install the ZED Python API](#)