



Check Monitor Python Script User Guide

December 20, 2024

Restricted Distribution: Not to be distributed to anyone who is not an employee of either WISTRON corporation. or its affiliated companies without the express approval of WISTRON Configuration Management. Distribution to anyone who is not an employee of either WISTRON Incorporated or its affiliated companies is subject to applicable confidentiality agreements.

Not to be used, copied, reproduced, or modified in whole or in part, nor its contents revealed in any manner to others without the express written permission of WISTRON corporation.

Copyright ©2024 WISTRON Corporation. All Rights Reserved.

Revision history

Revision	Date	Description
A	December 2024	Initial release

Contents

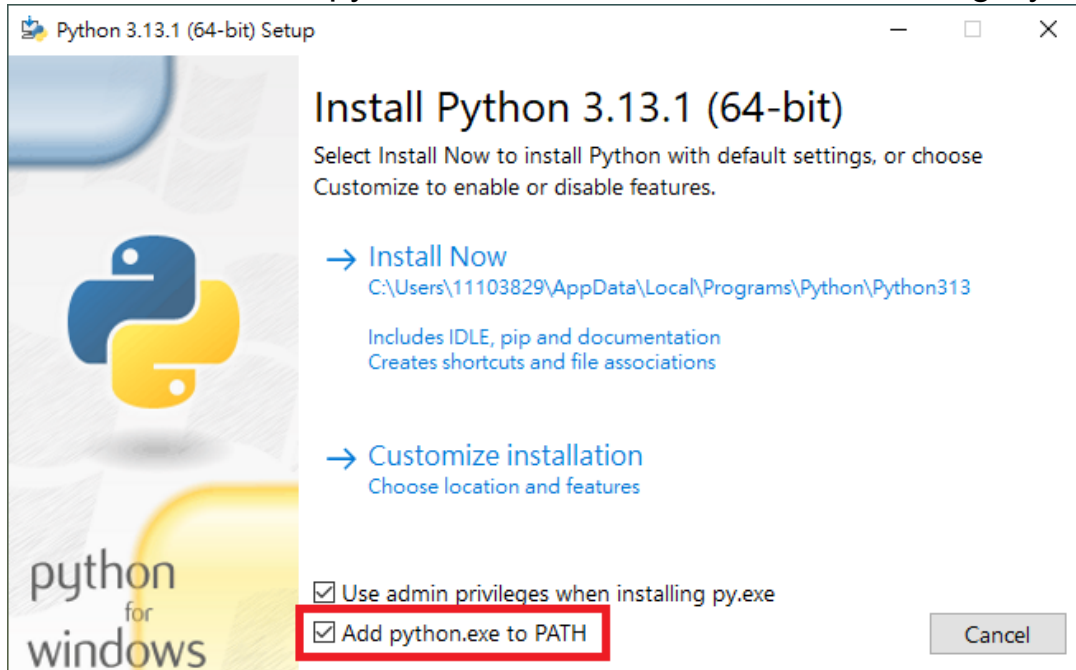
1. Build Environment	4
1.1 Install Python	4
1.2 Install OpenCV	5
2. Usage.....	6
2.1 Running CheckMonitor.py	6
2.2 File structure	6
3. Check Test Result.....	7
3.1 Check Logs	7
3.2 Check fail_img_analysis Folder	7

1. Build Environment

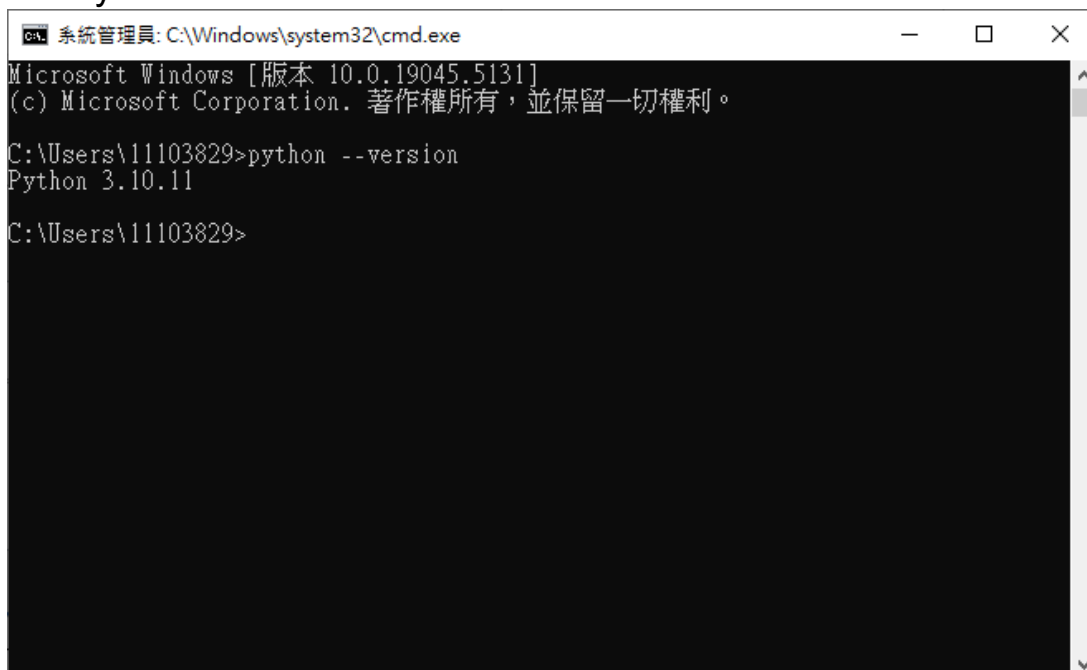
1.1 Install Python

Please download Python from official Python website and install it on your PC.
Download Link: <https://www.python.org/downloads/>

Please check “Add python.exe to PATH” box while installing Python.



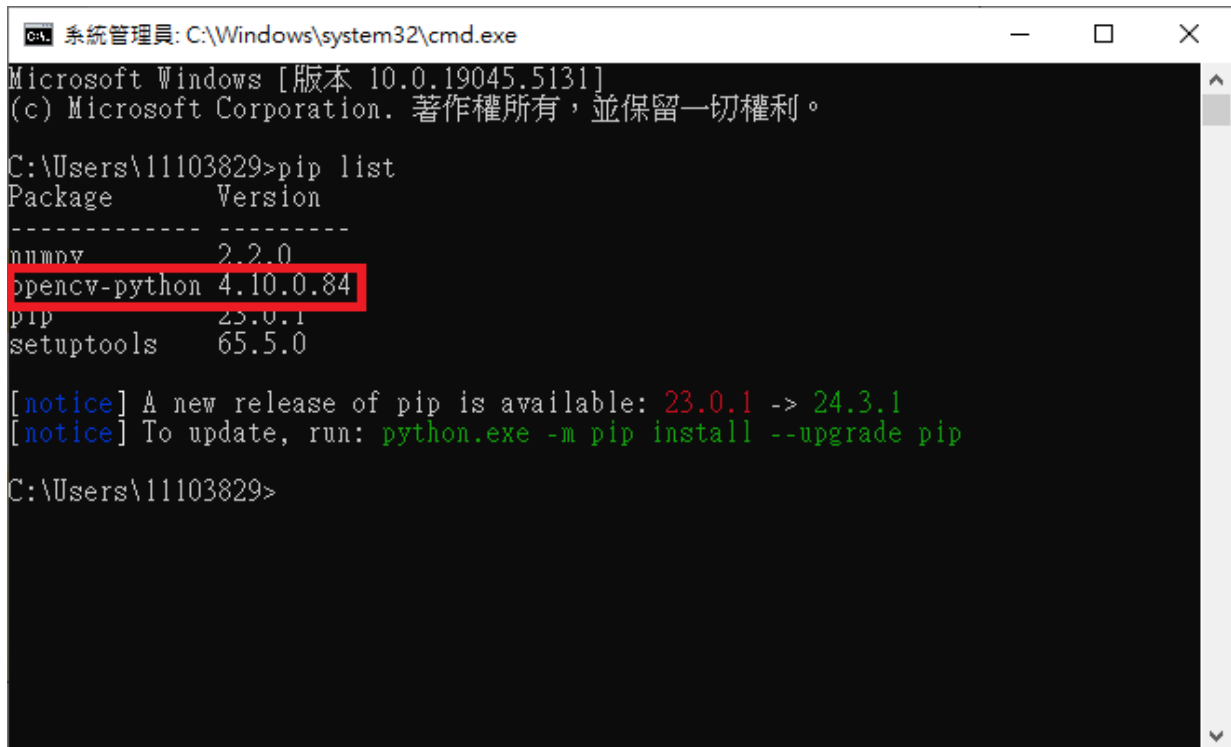
After installation, you can check whether Python is been installed properly by opening PowerShell or cmd and input “**python --version**”. You should get the Python version.



1.2 Install OpenCV

Open PowerShell or cmd and input “**pip install opencv-python**” and it will start to download and install OpenCV automatically.

After installation, you can find the installed OpenCV version via “**pip list**”



```
ca 系統管理員: C:\Windows\system32\cmd.exe
Microsoft Windows [版本 10.0.19045.5131]
(c) Microsoft Corporation. 著作權所有，並保留一切權利。

C:\Users\11103829>pip list
Package          Version
-----
numpy            2.2.0
opencv-python    4.10.0.84
pip              23.0.1
setuptools       65.5.0

[notice] A new release of pip is available: 23.0.1 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\11103829>
```

2. Usage

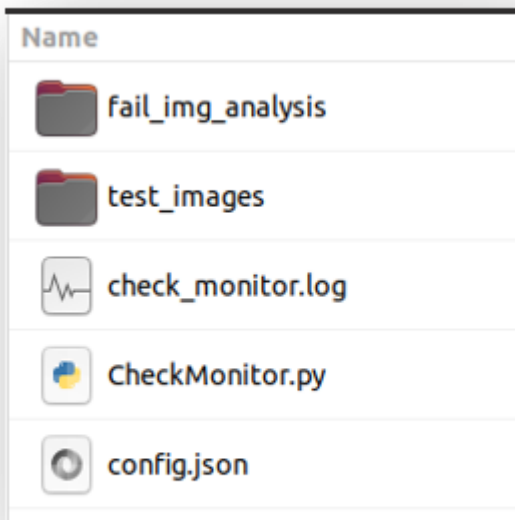
2.1 Running CheckMonitor.py

Open PowerShell or cmd and switch path to the place where CheckMonitor.py is.

Input Command:

```
python CheckMonitor.py <test_image_folder_path>
```

2.2 File structure



<CheckMonitor>

- |
- | - <fail_img_analysis> → Folder to save images for debugging.
- | - check_monitor.log → The output log will be saved in this file.
- | - CheckMonitor.py → Main python script for checking monitor.
- | - config.json → The config file which is use by CheckMonitor.py

3. Check Test Result

3.1 Check Logs

The logs will print file name and test result. You can check the test result from here.

Pass case:

```
2024-12-20 15:45:20,382 - INFO - Test image: blue.jpg
2024-12-20 15:45:20,455 - INFO - Test result: Pass
```

Failed case:

```
2024-12-20 15:45:20,455 - INFO - Test image: master.jpg
2024-12-20 15:45:20,525 - INFO - Test result: Failed
2024-12-20 15:45:20,526 - DEBUG - Dump stats:
2024-12-20 15:45:20,526 - DEBUG - [    0    0 1280   720 636480] 0.6906
2024-12-20 15:45:20,526 - DEBUG - [   56    8 1189   680 284258] 0.3084
2024-12-20 15:45:20,526 - DEBUG - [623  50  20   9 149] 0.0002
2024-12-20 15:45:20,526 - DEBUG - [660  50  20   9 145] 0.0002
2024-12-20 15:45:20,526 - DEBUG - [610  51  12   8  67] 0.0001
2024-12-20 15:45:20,526 - DEBUG - [647  50  12   9  60] 0.0001
2024-12-20 15:45:20,527 - DEBUG - [1180 716   5   4  18] 0.0000
2024-12-20 15:45:20,527 - DEBUG - [ 84 682  13   1  13] 0.0000
2024-12-20 15:45:20,527 - DEBUG - [219  17  12   1  12] 0.0000
```

If testing is failed, some debug logs will be printed.

3.2 Check fail_img_analysis Folder

If there is no image under fail_img_analysis folder, it means all testing results are pass. You can check the testing result quickly by this method.