



# Echem ToolkitPy™ Installation

## QUICK-START GUIDE



# Gamry Software Suite Installation

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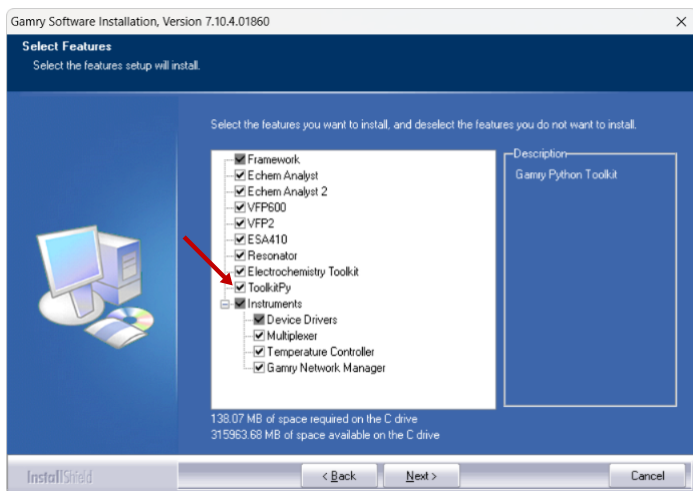
The installation process requires several steps to get the complete ToolkitPy software package. Gamry's **Software Suite Installer** does not install Python or any required site-packages but provides all necessary files for the installation of the ToolkitPy software development tool.

For the installation process, you will require Gamry's software **Version 7.10.4** or higher. If you have not installed Version 7.10.4 yet, but own one of our instruments, download the latest installation file on Gamry's [Client Portal](#).



The Installer includes ToolkitPy, a Python Installer for a curated version of **Python 3.7.9 (32-bit)**, and site-package libraries such as NumPy 1.21.6 or Pyside2 5.15.2.

After launching Gamry's Software Suite Installer, you can add your preferred software features. Programs such as the Echem Analyst 2 or Framework are already pre-selected by default. **ToolkitPy** may not be automatically selected. Click on the checkbox next to ToolkitPy to add it to the installation process. Press **Next** to continue and follow the subsequent steps.



After selecting the ToolkitPy feature and the installation has been completed, the following file directories will be installed:

Description	Directory
Python components	C:\ProgramData\Gamry Instruments\Python
Sample scripts	C:\ProgramData\Gamry Instruments\Python\Scripts
Source code for VFP2	C:\ProgramData\Gamry Instruments\VFP2

You are now ready to install the complete ToolkitPy software package.

## PowerShell ExecutionPolicy Configuration

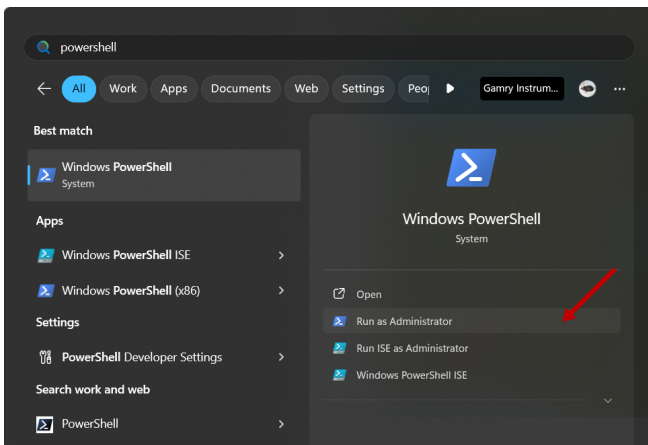
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Make sure that you have **administrator rights** on your host computer. If you are unsure of your privileges on the device, please contact your IT Department.

Before starting the installation, you must verify that the computer has the proper `ExecutionPolicy` to ensure that **PowerShell** can execute the installation script.

Launch Windows® PowerShell by right clicking the program and selecting **Run as administrator**. Select **Yes** to allow changes when prompted.



In PowerShell, get the ExecutionPolicy list to see what is currently allowed. First execute:

```
Get-ExecutionPolicy -List
```

Then, execute:

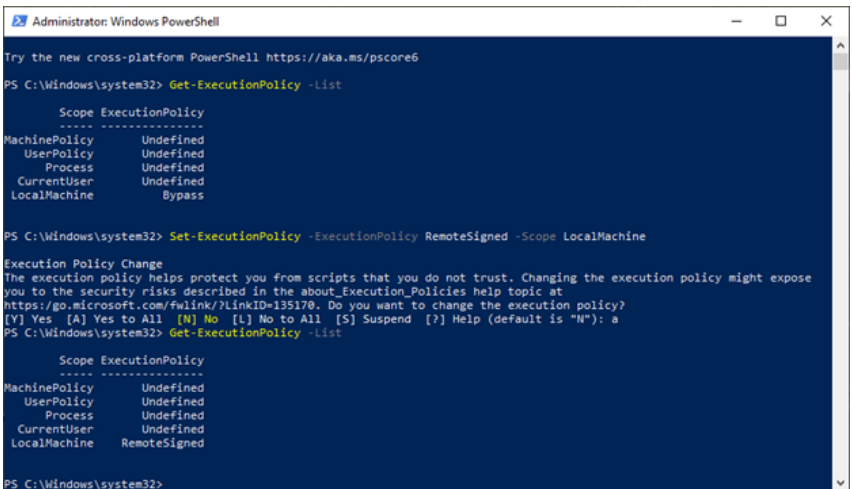
```
Set-ExecutionPolicy -ExecutionPolicy RemoteSigned  
-Scope LocalMachine
```

This will allow PowerShell to run the script. The policy change will ask you to apply the change to a portion, all, or none of the current policies. Use **a** for **Yes to All**.

Finally, execute:

```
Get-ExecutionPolicy -List
```

The last step is repeated to verify the changes. Close PowerShell once the change is confirmed. See the figure below for the fully executed sequence.



```
Administrator: Windows PowerShell
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Windows\system32> Get-ExecutionPolicy -List

Scope ExecutionPolicy
-----
MachinePolicy          Undefined
UserPolicy             Undefined
Process               Undefined
CurrentUser            Undefined
LocalMachine           Bypass

PS C:\Windows\system32> Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope LocalMachine

Execution Policy Change
The execution policy helps protect you from scripts that you do not trust. Changing the execution policy might expose
you to the security risks described in the about_Execution_Policies help topic at
https://go.microsoft.com/fwlink/?linkid=135170. Do you want to change the execution policy?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): a
PS C:\Windows\system32> Get-ExecutionPolicy -List

Scope ExecutionPolicy
-----
MachinePolicy          Undefined
UserPolicy             Undefined
Process               Undefined
CurrentUser            Undefined
LocalMachine           RemoteSigned

PS C:\Windows\system32>
```

## Python 3.7.9 Installation

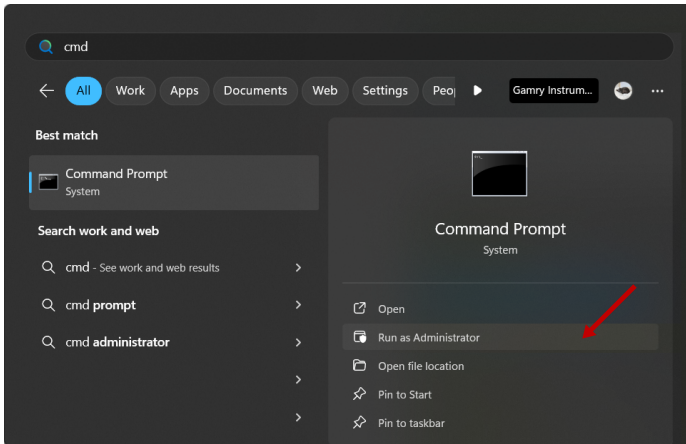
# 3



If you have an existing installation for **Python 3.7 (32-bit)**, you **must uninstall** it using the control panel **Apps > Installed Apps** utility.

Proper installation of Python 3.7.9 will not occur if an existing copy is stored anywhere on your computer, including other users' folders.

Open a Command Prompt by searching in the Windows Start menu for **cmd** and selecting **Run as administrator**. Select **Yes** to allow changes.



The Command Prompt window header will be labeled **Administrator Command Prompt** if it has been opened properly.

In the Command Prompt, change the directory by typing:

```
cd C:\ProgramData\Gamry Instruments\Python\Python37-32
```

Press **Enter** to confirm and then type:

```
powershell .\install_32bit.ps1
```

Enter **y** to proceed with the installation.

First, **Python 3.7.9** will be installed at `C:\Program Files (x86)\Gamry Instruments\Python\Python37-32`. Afterwards all required site-packages will be installed. If the installation was successful, you will see a message that the installation was completed.

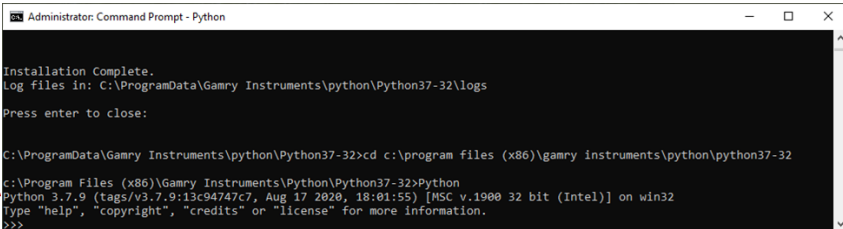
Continue and test the installation. Change the directory by typing:

```
cd C:\program files (x86)\gamry instruments\python\python37-32
```

In this directory, type:

```
Python
```

Press **Enter**. The first line under the command should list Python 3.7.9, as shown in the image below.



```
Administrator: Command Prompt - Python
Installation Complete.
Log files in: C:\ProgramData\Gamry Instruments\python\Python37-32\logs
Press enter to close:
C:\ProgramData\Gamry Instruments\python\Python37-32>cd c:\program files (x86)\gamry instruments\python\python37-32
C:\Program Files (x86)\Gamry Instruments\Python\Python37-32>Python
Python 3.7.9 (tags/v3.7.9:13c9474c7, Aug 17 2020, 18:01:55) [MSC v.1900 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

Close the Command Prompt.

You are now ready to use the **Echem ToolkitPy** software package.



You can find the **ToolkitPy Help Manual** by searching **ToolkitPy Help** in your Windows Start Menu.

The extensive Help contains all the information you need to start developing scripts with ToolkitPy, including sample scripts.

Contact your local Gamry representative or Gamry's technical support if you experience any problems.

Phone: +1 215-682-9330

Web: <https://www.gamry.com/support-2/>

Email: [techsupport@gamry.com](mailto:techsupport@gamry.com)





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