



Virtual CoaterTM

Atomic scale film growth

simulation suite

Installation Manual for version 4.8

Prof. Stéphane Lucas	slu@incosol4u.com (+32 498 975 282

eha@incosol4u.com

Pavel Moskovkin	pmo@incosol4u.com

Jérôme Müller jmu@incosol4u.com

Emile Haye

- Valentin Lucas vlu@incosol4u.com
- Alexia Petit ape@incosol4u.com

Innovative Coating Solutions S.A.

www.incosol4u.com

Headquarters: 11, Place Saint Pierre, B-5380 Forville, Belgium Operations: 61, Rue de Bruxelles, B-5000 Namur, Belgium



Installation of Virtual Coater™

Unzip the software



- you have to unzip the zip archive in the folder that suits you best.
- we observed odd behaviour when unzipping the archive with 7zip. We suggest to use the internal tool of Windows (Winrar should work too).
- you may observe some difficulties to launch the software if you install it in your "Program Files" folder. In that case, move it or to launch it as administrator.



Launch the software (1/2)

INNOVATIVE COATING SOLUTIONS

- to launch the software, double click on "Run_VirtualCoater.exe" (1)*.
- a splash screen will popup. Just wait a few seconds (2).
- then the software main window will open. If it is your first launch, a license window will popup (3).



Launch the software (2/2)



- Note that Java is required (jre version 8, 64 bit, https://www.java.com/en/download/manual.jsp)
- Possible issues: if multiple versions of java are installed, you may observe crashto-desktop (CTD) issues, especially if you use version 17 and higher.
- Note : to check what version of java is installed, open a command prompt and type the command "java -version".

🖾 Command Prompt		×
Microsoft Windows [Version 10.0.19045.4291] (c) Microsoft Corporation. All rights reserved.		î
C:\Users\jermulle>java -version java version "1.8.0_351" Java(TM) SE Runtime Environment (build 1.8.0_351-b10) Java HotSpot(TM) 64-Bit Server VM (build 25.351-b10, mixed mode)		
C:\Users\jermulle>		
		~

Activate the Nascam license

- At your first launch, a license window will popup
 - 1: click on "Activate your license"
 - 2: copy/paste you Activation key
 - 3: click on Activate license key
 - 4: click on Finish





Activate the MakeProcess license



- For MakeProcess, you have to open the tool (1) and launch it a first time (2)
- Then, a license window will popup. Just do the same thing than for Nascam



Optional features - 3D visualisation



- Virtual-Coater[™] includes its own 3D visualisation tool Jmol.
- If you have to load heavy 3D structures (more than 1M atoms), we recommend to use the external software Ovito (free version) instead. Ovito will use your GPU, instead of your CPU. If you're interested, you can download it here : https://www.ovito.org/#download.





Known possible issues



- you may observe low computation speed, computation failure or CTD while using on-line synchronization with cloud storage like googledrive, onedrive,... It should be deactivated for better performance.
- you may observe issues due to your antivirus. You may have to exclude certain folders (exe folder and/or project folder) from scanning.





www.incosol4u.com