

How to upgrade from STEM Meister to STEM Meister G2

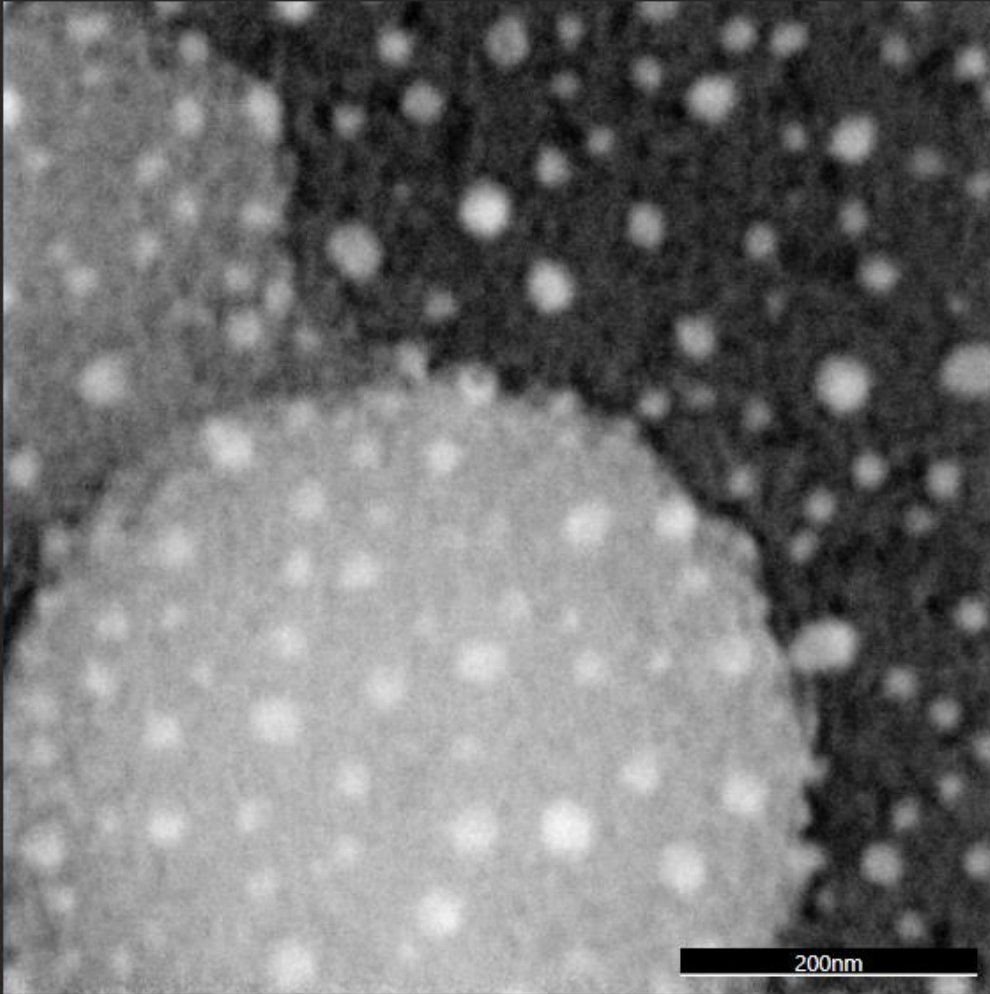
About STEM Meister G2

STEM Meister

Images LLP Tools Setting About

Image Folder: C:\Users\summit\Pictures\StemMeister\ShotImages\2024-06\2024-06-13_20_29_12

Live image



Filter OFF

AutoScale avg. $\pm 3\sigma$

Gamma 1.00

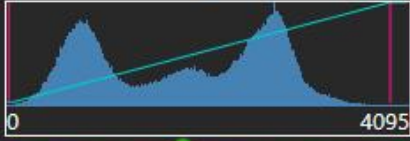


Image Size 512 x 512
Type signed int 16 bit
Pixel avg. 1796.351
Pixel min. 23
Pixel max. 3916
SD 892.4482
MAG X300k
Binning 1
Date 6/13/2024
Time 20:44:58.62
Exposure 1.750 [us/pix/frame]

Circle Sight Scale Bar
 3x3 Division 1:1 pix mapping

200nm

Detector

DFI_U External Scanning...

External Scanning... NONE

Live

Exposure [us/pix] 1.75
short middle long

Scan Size 512 x 512

Area 1

FFT

Beam blanking

Blank Unblank

Auto control ?

Auto focus **Screen**

Start Up Down

Magnification

STEM MAG

X300k

Shooting

Exposure [us/pix] 26.75
short middle long

Frame Division 1

Integration site STEM Meister

Scan Size 512 x 512

Area 1

Features of STEM Meister G2

- STEM Meister G2 is the next generation of STEM Meister, with a sophisticated interface and higher stability.
- Upgrading from the current STEM Meister can be done in just a few steps.
- The dongle(HASP) for STEM Meister is also valid for STEM Meister G2.
- STEM Meister G2 can coexist with the existing STEM Meister. There is no risk in trying it out.

Installation requirements of STEM Meister G2

The OS must be one of the following.

- Windows 10
- Windows 11

STEP 1: Check version of existing TEM External

The image shows a Windows File Explorer window displaying the contents of the folder `C:\Program Files\JEOL\TemExternal64`. The file `TemExt64.dll` is selected and highlighted in blue. A red box is drawn around the file name, and a red arrow points from the text "Show property" to the file icon. To the right, the "TemExt64.dll Properties" dialog box is open, showing the "Details" tab. A red box is drawn around the "Product version" field, which displays "6.16.0.0", and a red arrow points from the text "Check product version" to this field.

Property	Value
Description	
File description	TemExt Module
Type	Application extension
File version	2.8.0.0
Product name	External interface module
Product version	6.16.0.0
Copyright	Copyright 2001-2020 JEOL Ltd.
Size	546 KB
Date modified	5/31/2023 9:59 AM
Language	Japanese (Japan)
Original filename	TemExt64.DLL

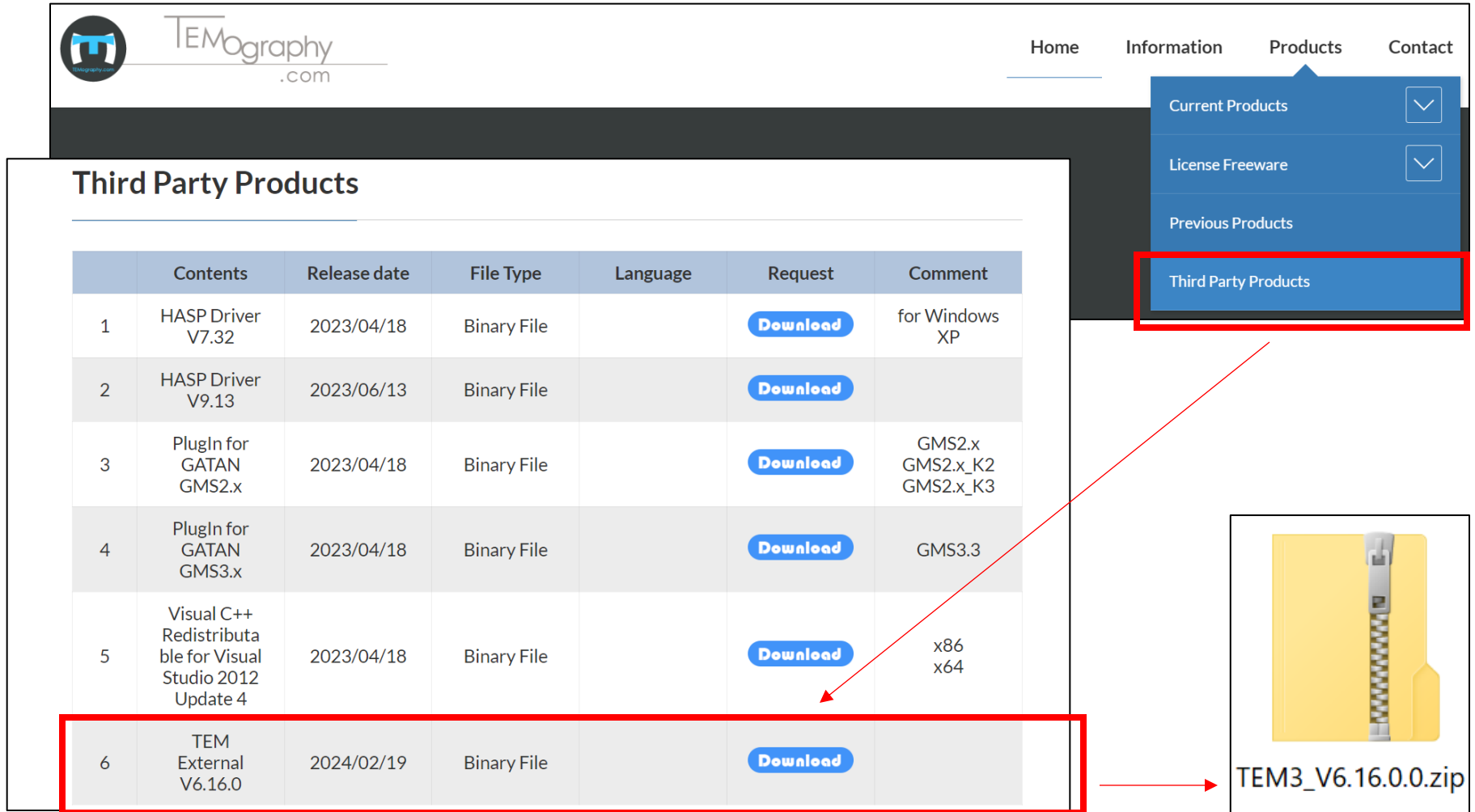
Show property

Check product version

Check product version of
C:\Program Files\JEOL\TemExternal\TemExt64.dll
on the PC in which existing STEM Meister is installed.

If version 6.16.0.0 or later has been already installed, skip STEP 2 and STEP 3.

STEP 2: Download TEM External V6.16.0.0 Installer



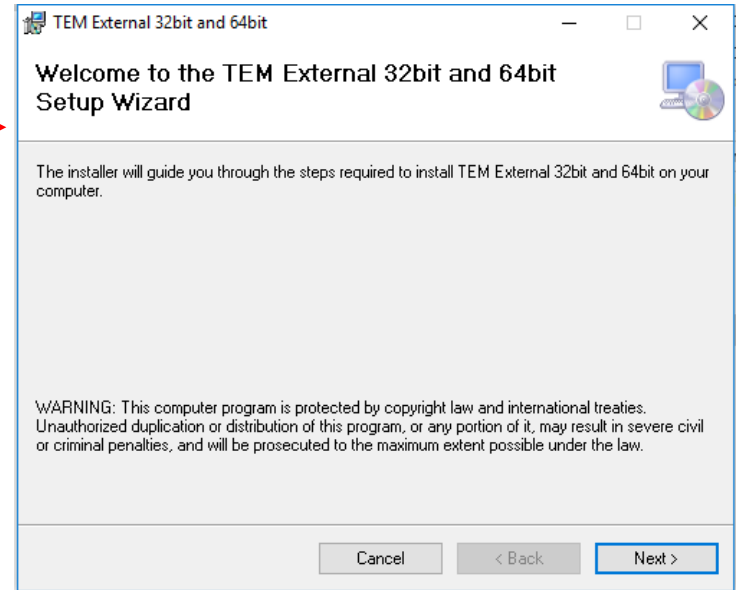
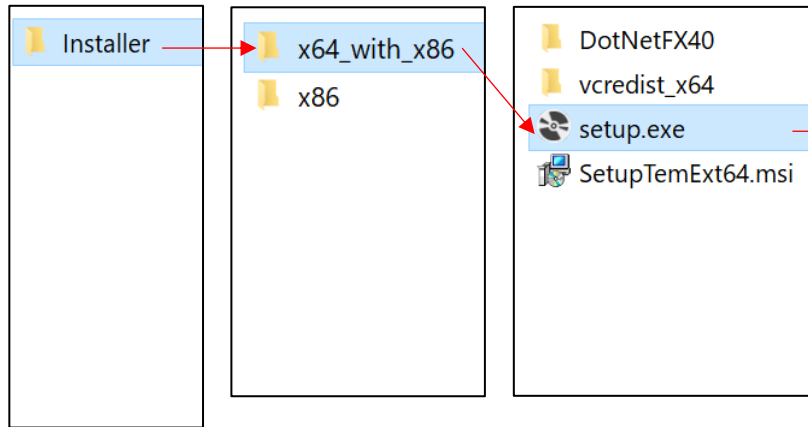
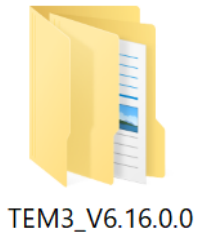
The screenshot displays the TEMography.com website interface. The navigation menu includes Home, Information, Products, and Contact. The 'Products' dropdown menu is open, showing options for Current Products, License Freeware, Previous Products, and Third Party Products. The 'Third Party Products' section is highlighted with a red box. Below this, a table lists various software products. The table has columns for Contents, Release date, File Type, Language, Request, and Comment. The product 'TEM External V6.16.0' is highlighted in a red box, and its 'Download' button is also highlighted. A red arrow points from the 'Download' button to a separate image of a yellow zip file labeled 'TEM3_V6.16.0.0.zip'.

	Contents	Release date	File Type	Language	Request	Comment
1	HASP Driver V7.32	2023/04/18	Binary File		Download	for Windows XP
2	HASP Driver V9.13	2023/06/13	Binary File		Download	
3	PlugIn for GATAN GMS2.x	2023/04/18	Binary File		Download	GMS2.x GMS2.x_K2 GMS2.x_K3
4	PlugIn for GATAN GMS3.x	2023/04/18	Binary File		Download	GMS3.3
5	Visual C++ Redistributable for Visual Studio 2012 Update 4	2023/04/18	Binary File		Download	x86 x64
6	TEM External V6.16.0	2024/02/19	Binary File		Download	

TEM3_V6.16.0.0.zip

Visit TEMography.com web site to download TEM External V6.16.0.0 (TEM3_V6.16.0.0.zip).

STEP 3: Install TEM External V6.16.0.0



Unzip the zip file downloaded from TEMography.com. Then find setup.exe and execute it on the PC in which existing Shot Meister is installed.



If higher version has been already installed, the installer should NOT be run.

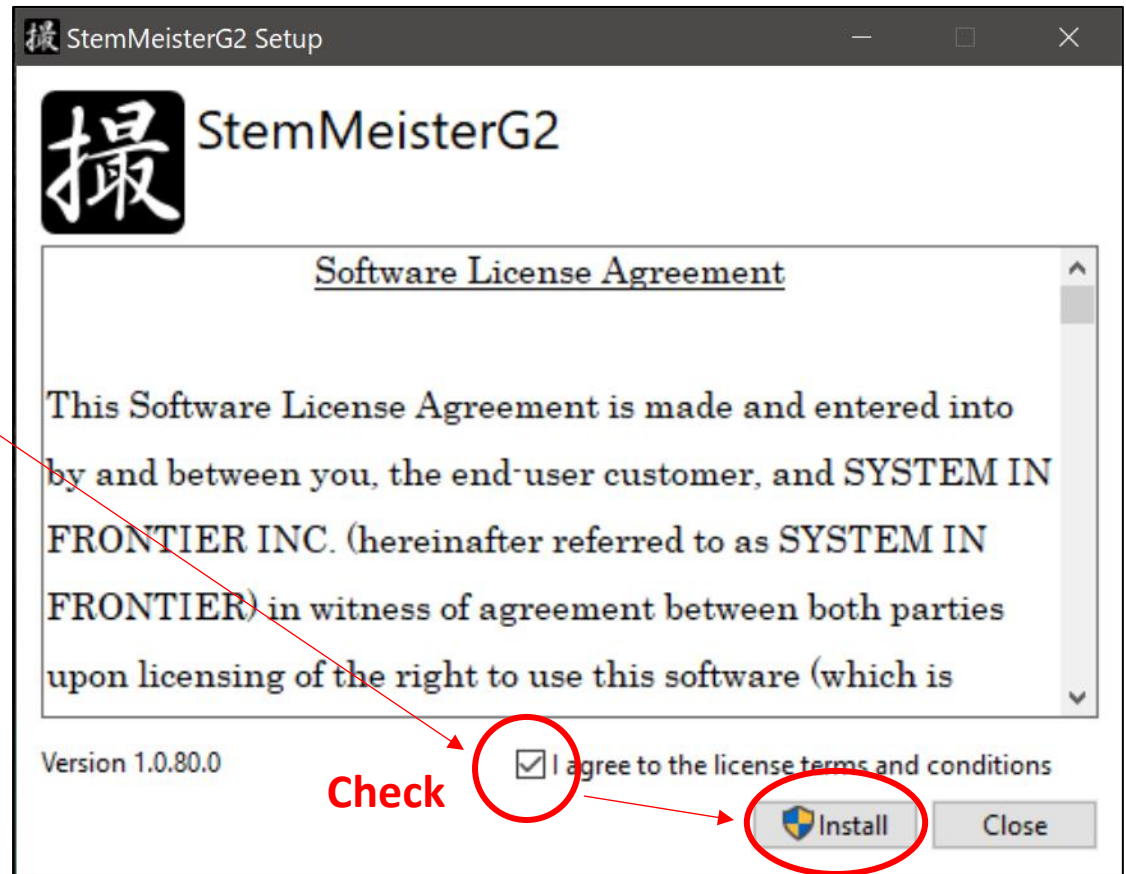
If the input fields for IP Address, Normal Port, and Notify Port appear during the installation process, set them as shown in the table on the right.

IP Address	IP Address of the PC in which TEM Center is installed.
Normal Port	2001
Notify Port	2010

STEP 4: Install STEM Meister G2



Execute

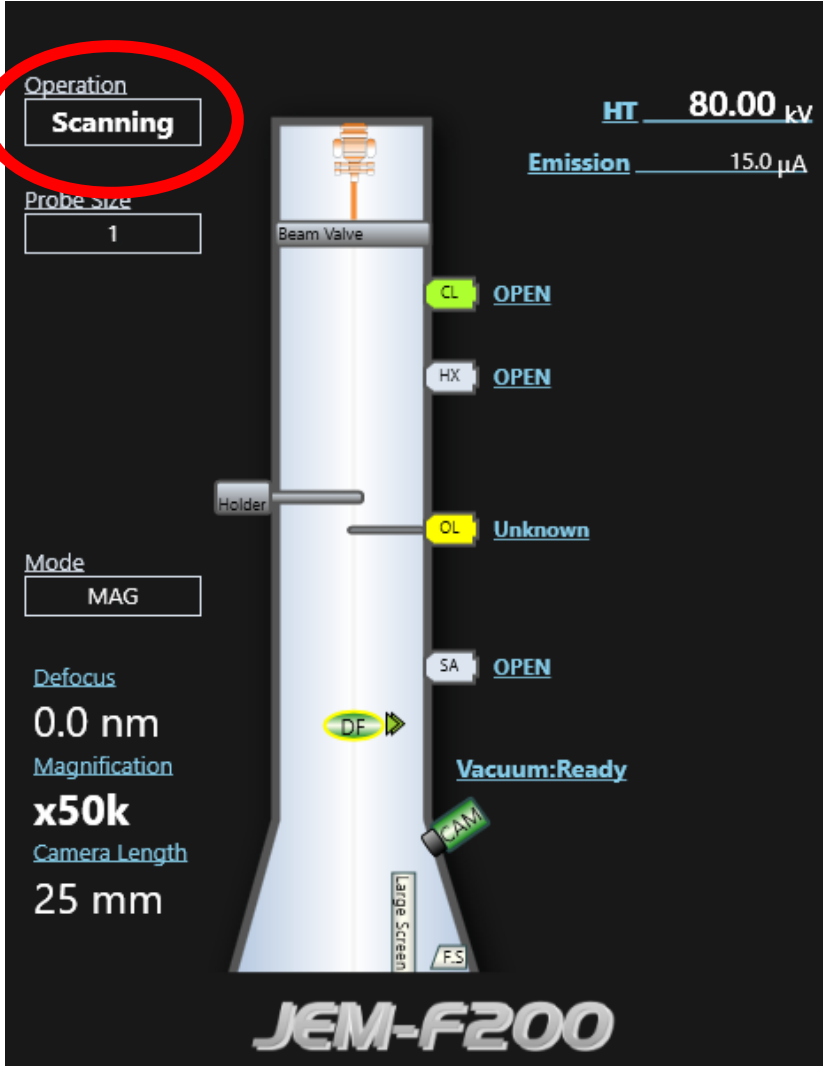


Check

Click

Execute Setup_StemMeisterG2.exe to install STEM Meister G2.

STEP 5: Make sure TEM Center is running in STEM mode



Make sure that TEM Center is running, and the operation mode is STEM mode (scanning mode) but not TEM mode.

STEP 6: Inherit existing STEM Meister setting



Double click

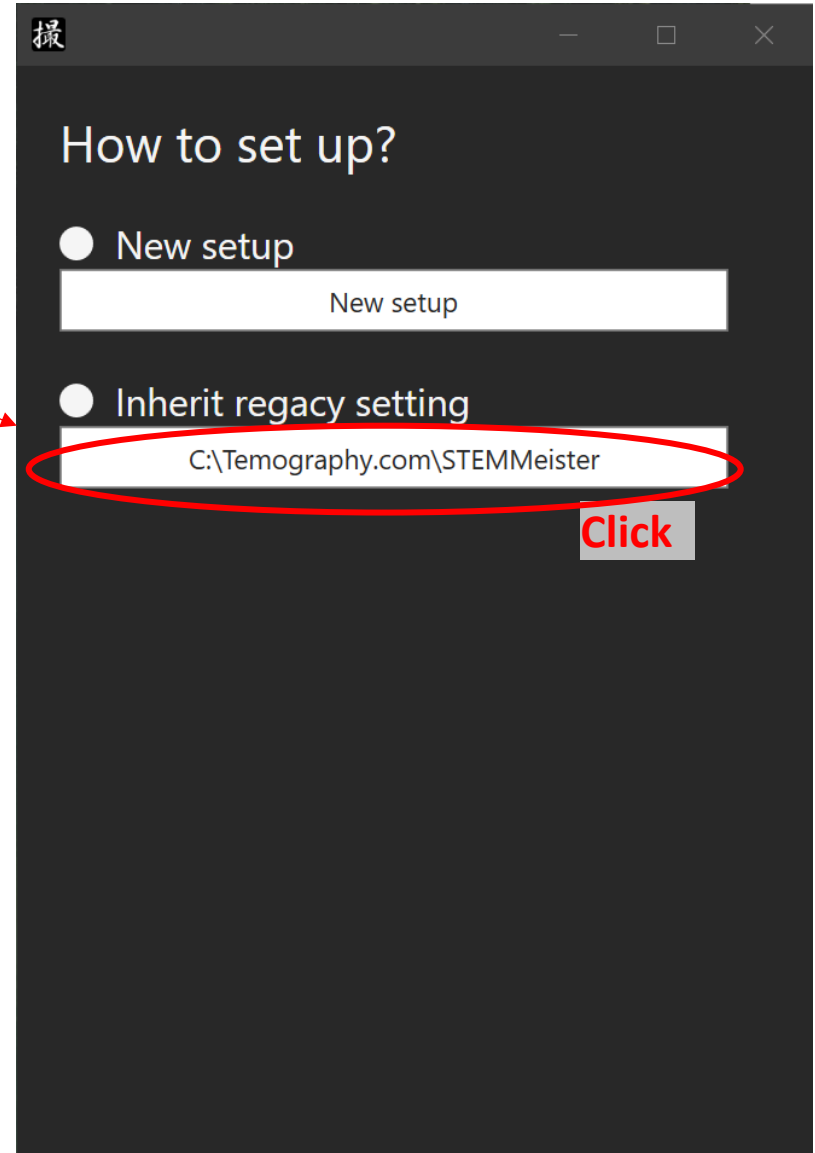
Double click the STEM Meister G2 icon on the desktop to show the window asking how to set up.

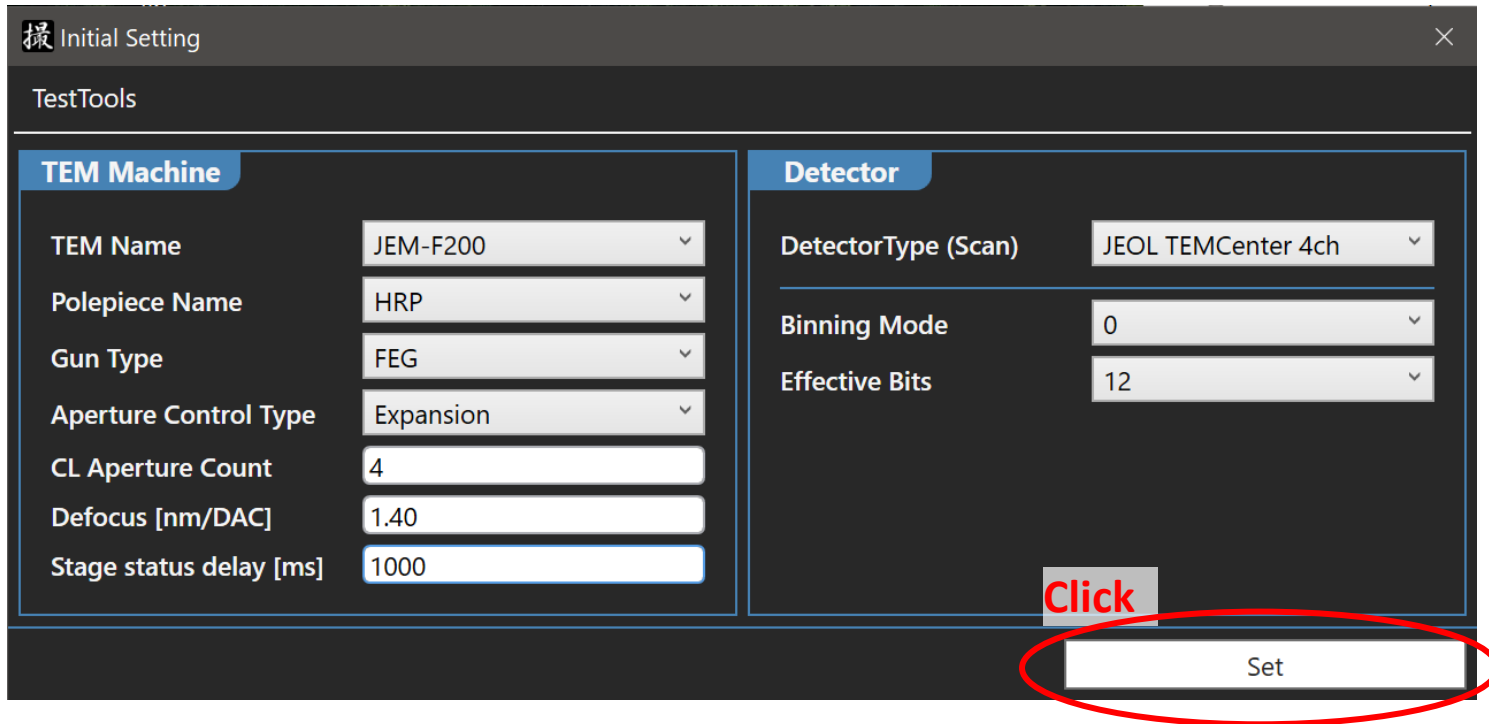
Click the button indicating the location of existing STEM Meister to inherit the settings.

Then the Initial Settings window is displayed as shown on the next page.



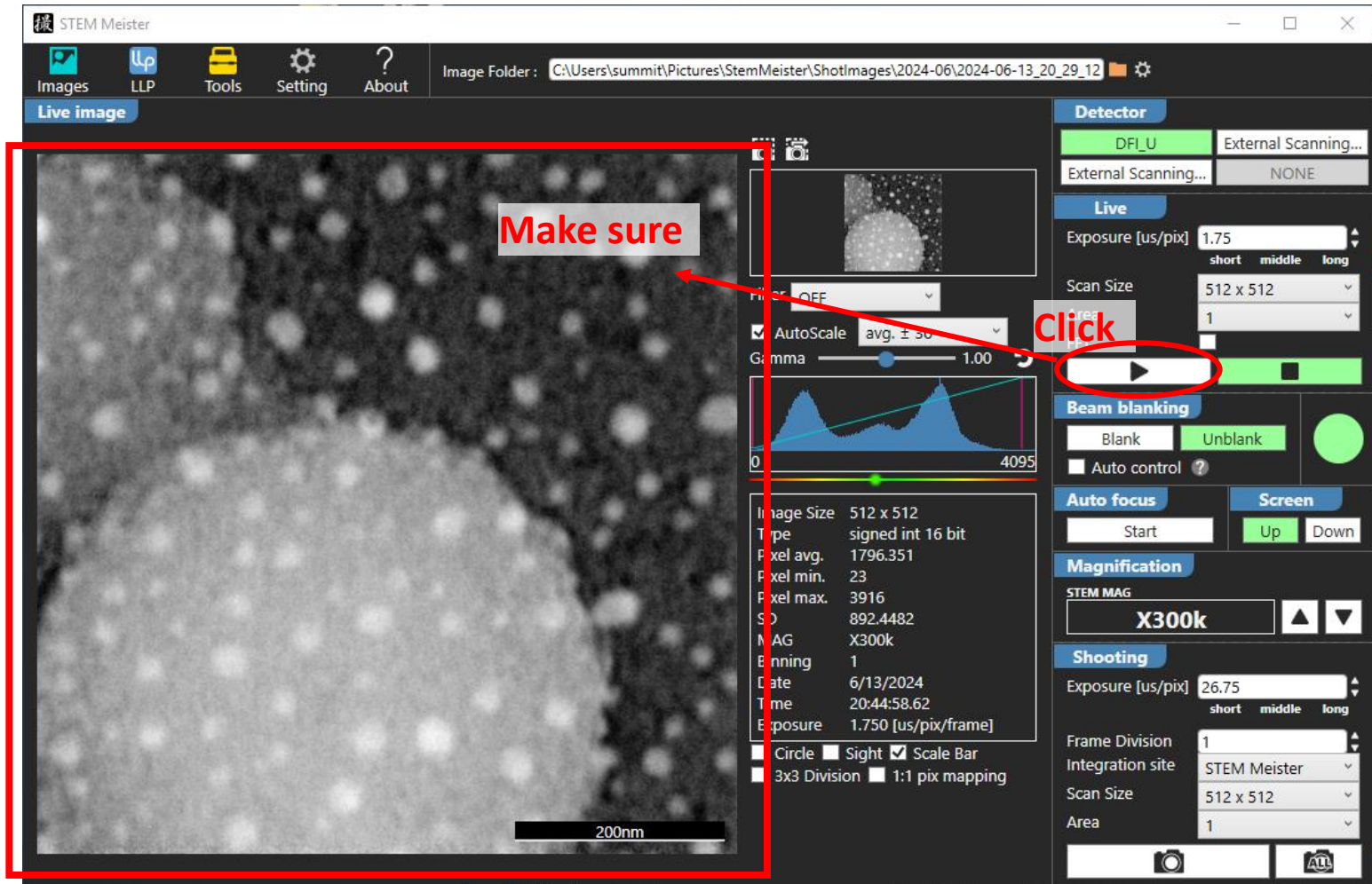
In rare cases, there may be multiple candidates for inheriting setting. If not sure which one to choose, please contact us via contact form of Temography.com.





On Initial Setting window, do not change any settings and just click Set button. Then STEM Meister G2 main window is displayed as shown on the next page.

STEP 7: Check Live image acquisition



Make sure that the Live image acquisition works fine.

STEP 8: Check shooting image

Image-00001.tiff

Filter OFF

AutoScale avg. $\pm 3\sigma$

Gamma 1.00

Image Size 512 x 512
Type unsigned int 16 bit
Pixel avg. 1796.351
Pixel min. 23
Pixel max. 3916
SD 892.4482
MAG
Binning 1
Date
Time
Exposure 0.000 [s/frame]
Integration frames

Circle Sight Scale Bar
 3x3 Division 1:1 pix mapping

Make sure

200nm

es\StemMeister\ShotImages\2024-06\2024-06-13_20_29_12

Detector

DFI_U External Scanning...
External Scanning... NONE

Live

Exposure [us/pix] 1.75
short middle long

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STEM MAG
X300k

Shooting

Exposure [us/pix] 26.75
short middle long

Frame Division
Integration site STEM Meister
Scan Size 512 x 512
Area 1

Click

Make sure that the shooting button works fine.

TROUBLE SHOOTING

● If STEM Meister G2 startup fails

If STEM Meister G2 does not start properly, starting STEM Meister G2 once with administrator privileges may solve the problem.

After that, make sure that it works fine without any problems with normal privileges.

● Any other trouble

Feel easy to contact us via contact form of [Temography.com](https://www.temography.com).