

Celloger® Stack

Automated multi-layer vessel monitoring system

| Quick Manual



The design marks are for the Celloger® Series

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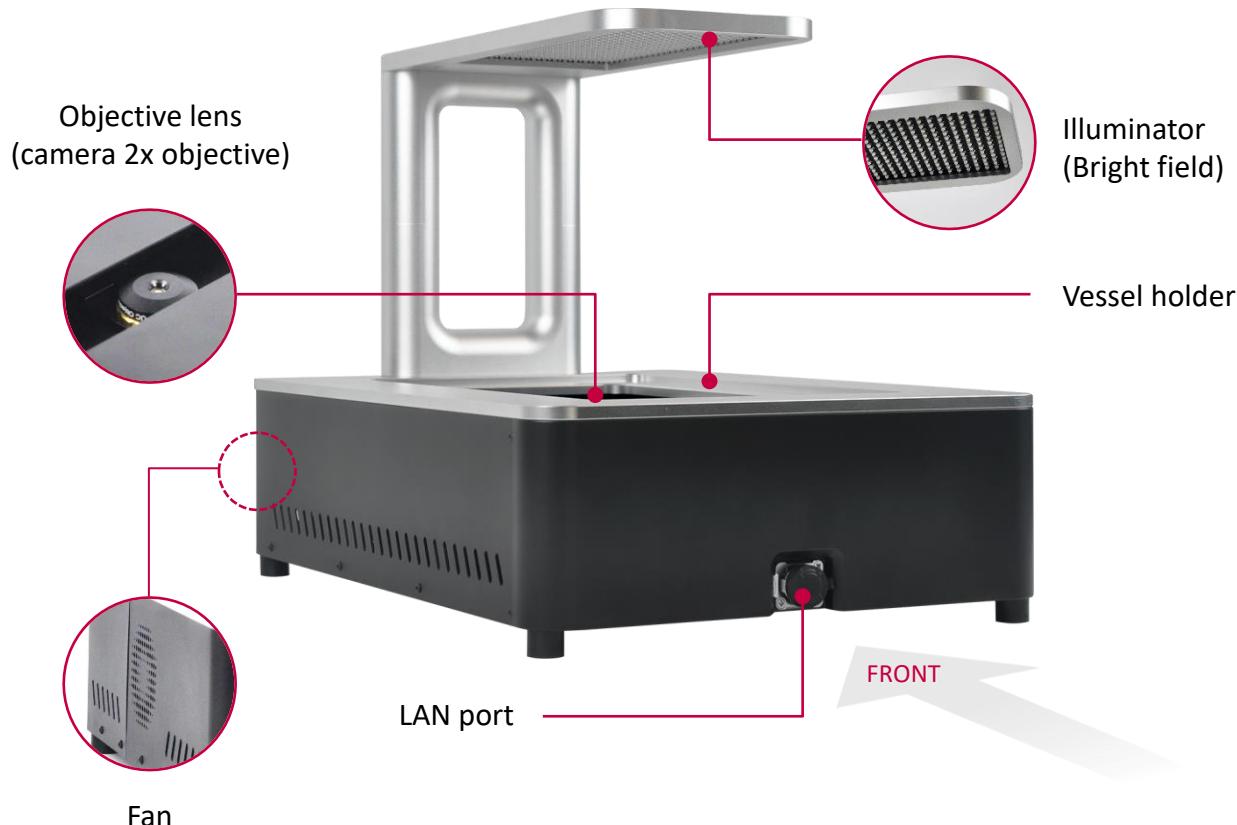
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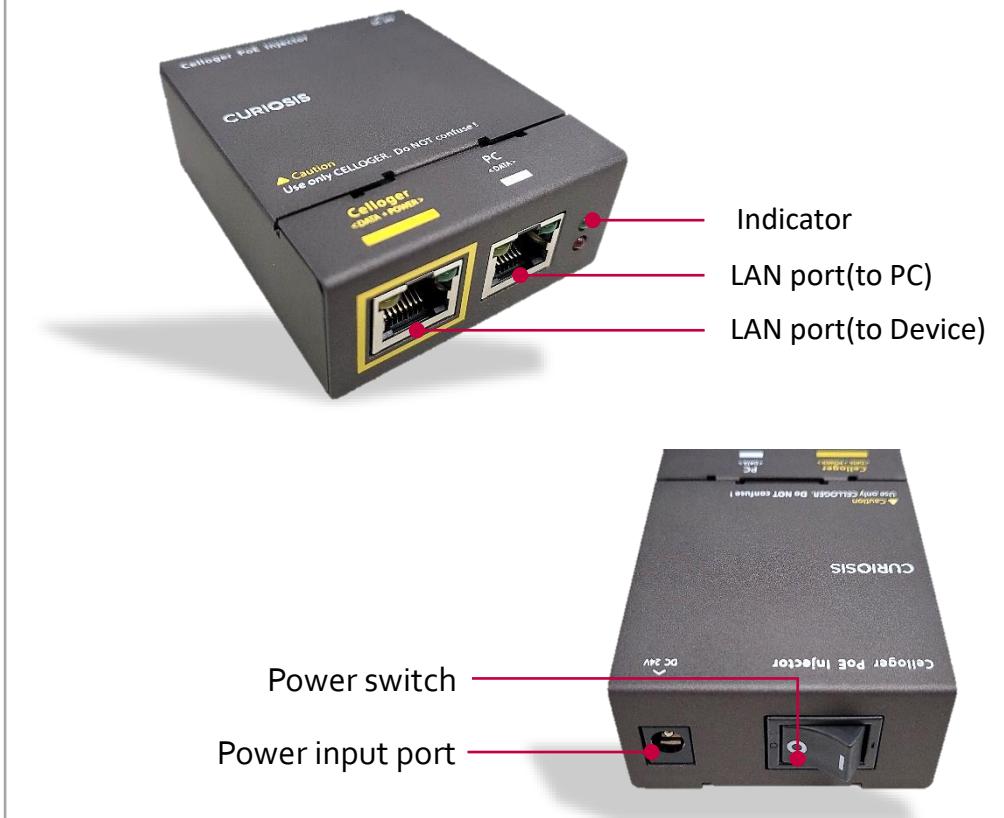


I. Device layout

Front-left side

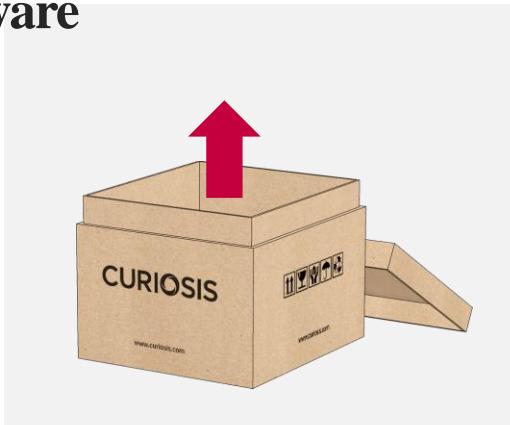


POE

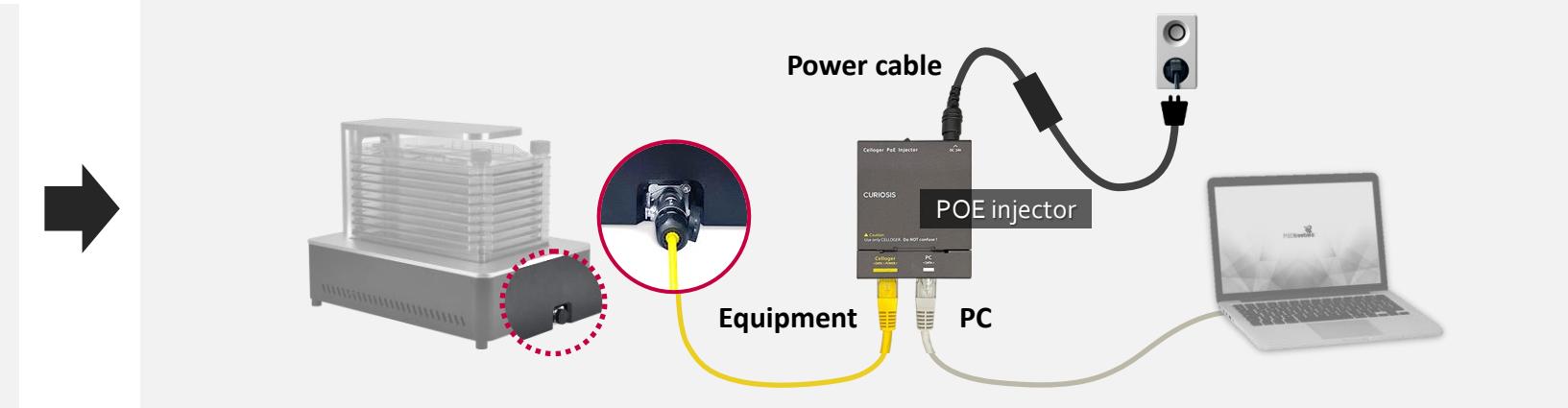


II. Installation

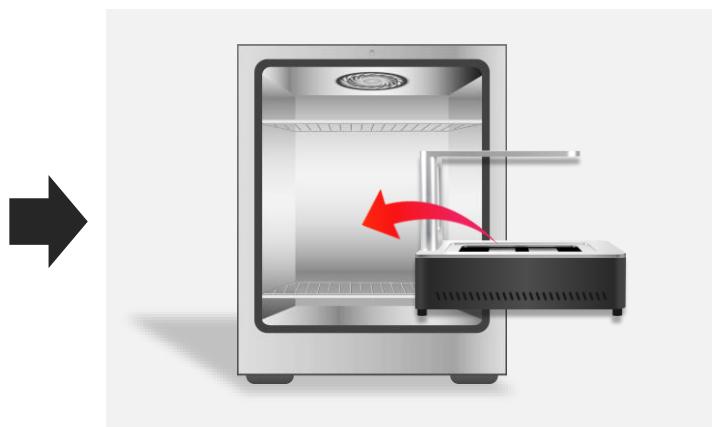
1. Hardware



Step 1. Take the equipment out of the package



Step 2. Connect two LAN cables and power cable to the POE injector.
Connect one LAN cable to the equipment(yellow) and another LAN cable to the PC(white).
Connect the power cable to an outlet.



Step 3. Put the device inside the incubator.



Step 4. Place the sample on the stage.



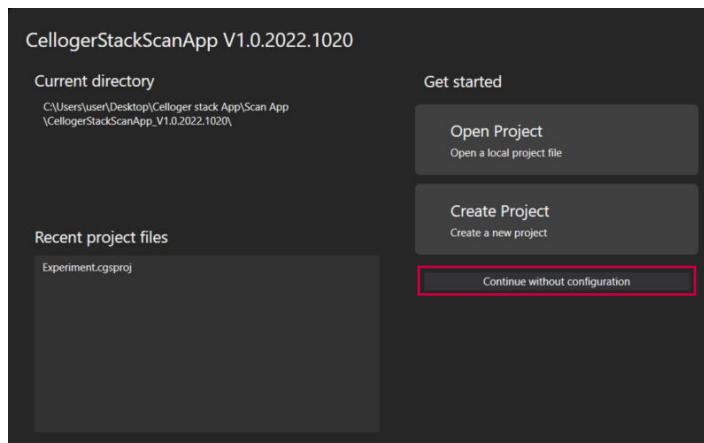
Step 5. Close the incubator door & check the PC connection.

II. Installation

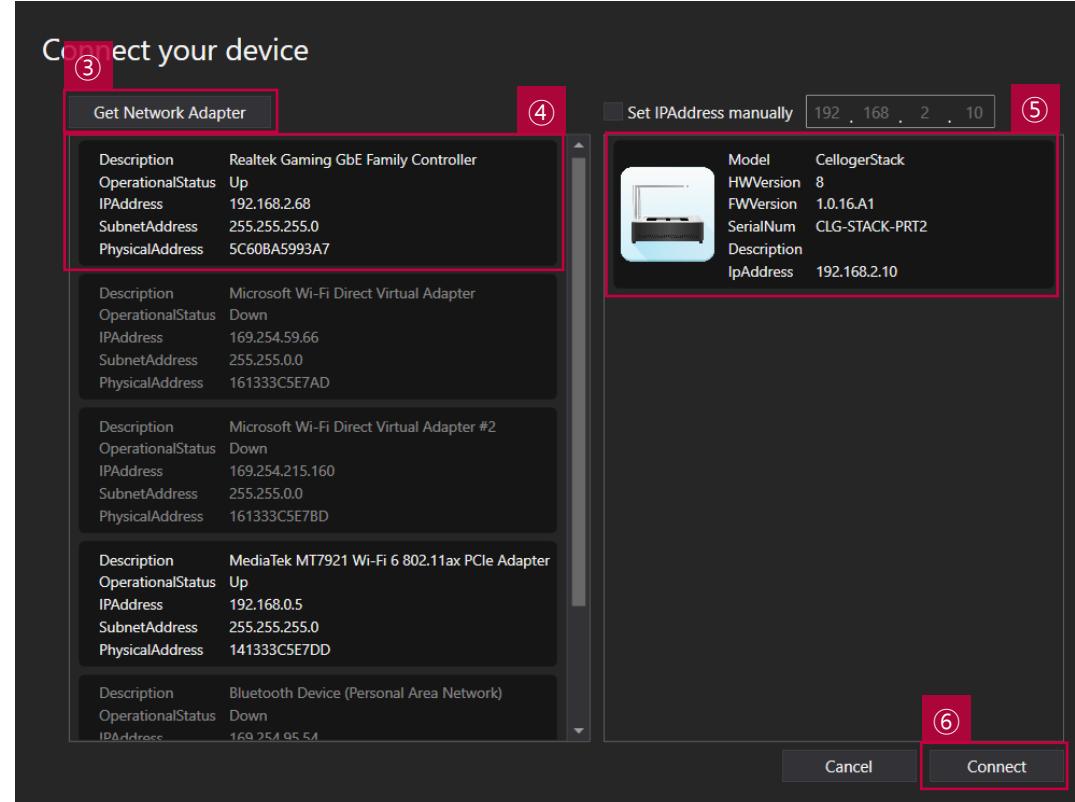
2. Software



Step 1. Open Celloger Stack Scan App.



Step 2. Select Continue without configuration.



Step 3. Click **Get Network Adapter** to load the network adapters connected to PC.

Step 4. Select PC network from **Network list** then the device icon will appear on the right.

Step 5. Click the device icon

Step 6. Click **Connect** to connect the device.

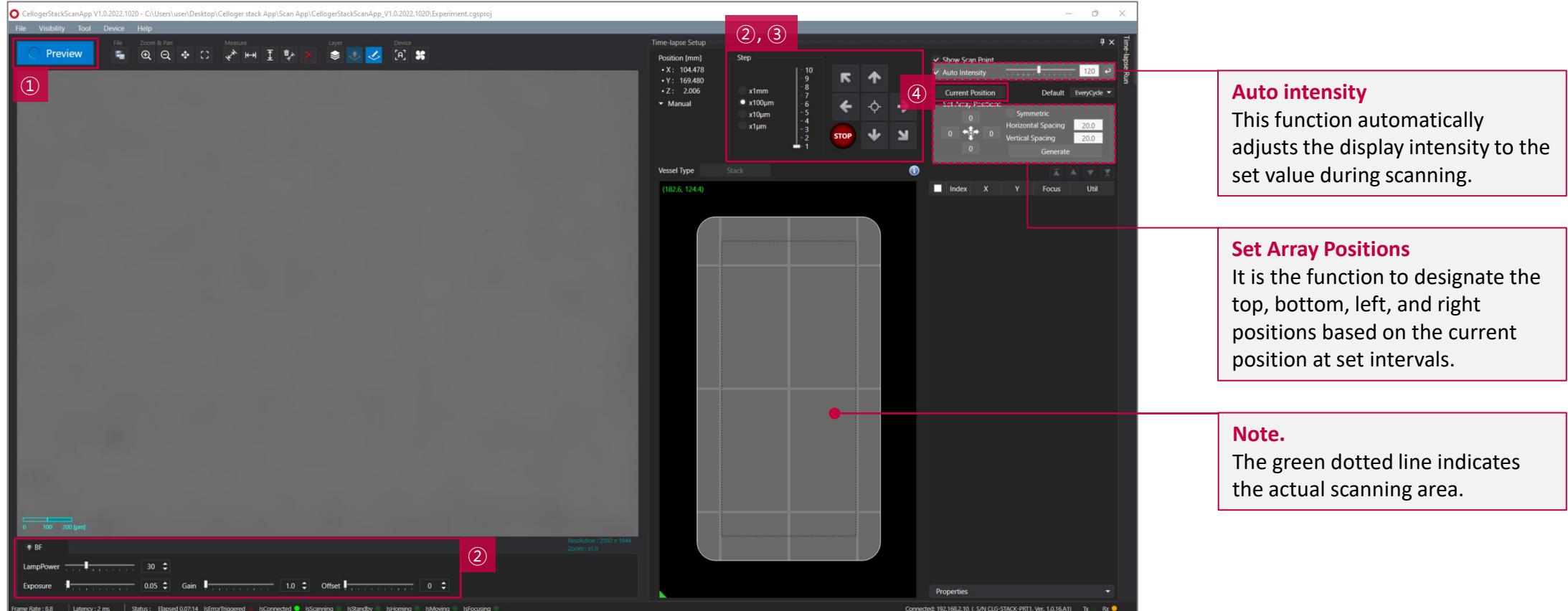
* **Note.** If the device icon is not shown, please refer to the **PC network setting** (Appendix p.12)

III. Operation

1. Preparation

Before starting the experiment, prewarm the Celloger® Stack in an incubator for at least 30 minutes. Once prewarmed, place the sample (vessel) on the Celloger® Stack.

2. Positioning & Focusing [in Scan app]



Step 1. Press **Preview** for streaming.

Step 2. Move to the desired position using **Jog button** and adjust the brightness using **Light source panel**.

Step 3. Set the focus using **Jog button**(**↖ ↘ ↙ ↘**).

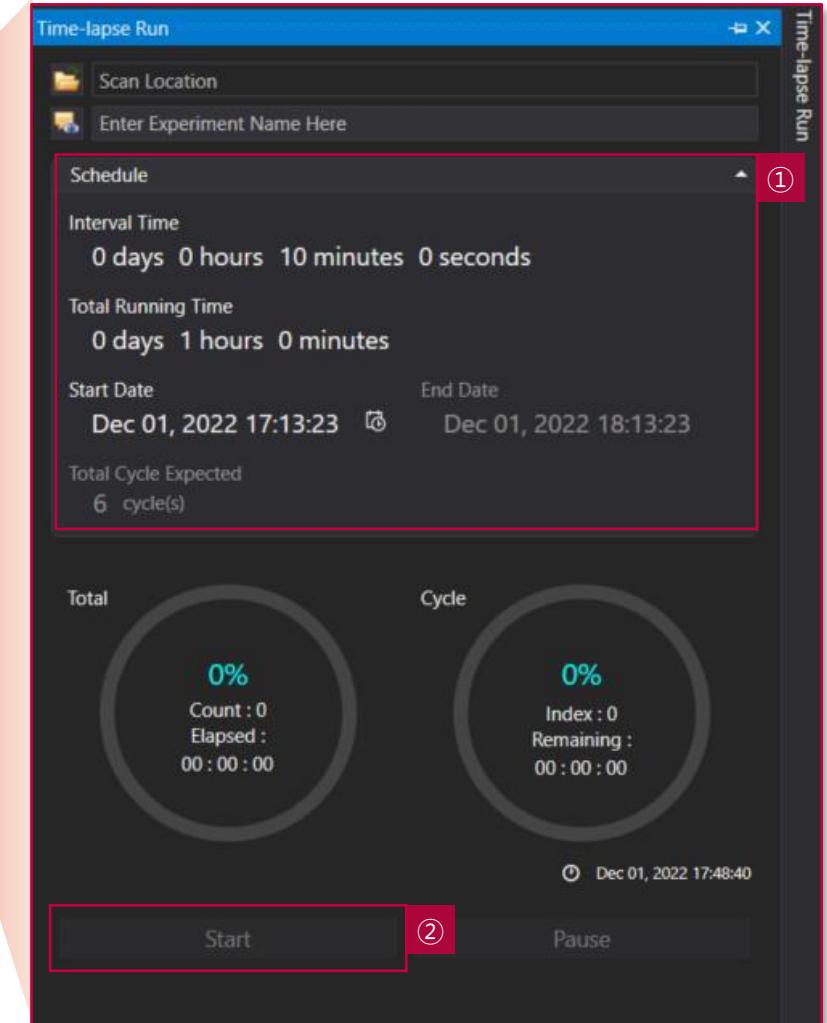
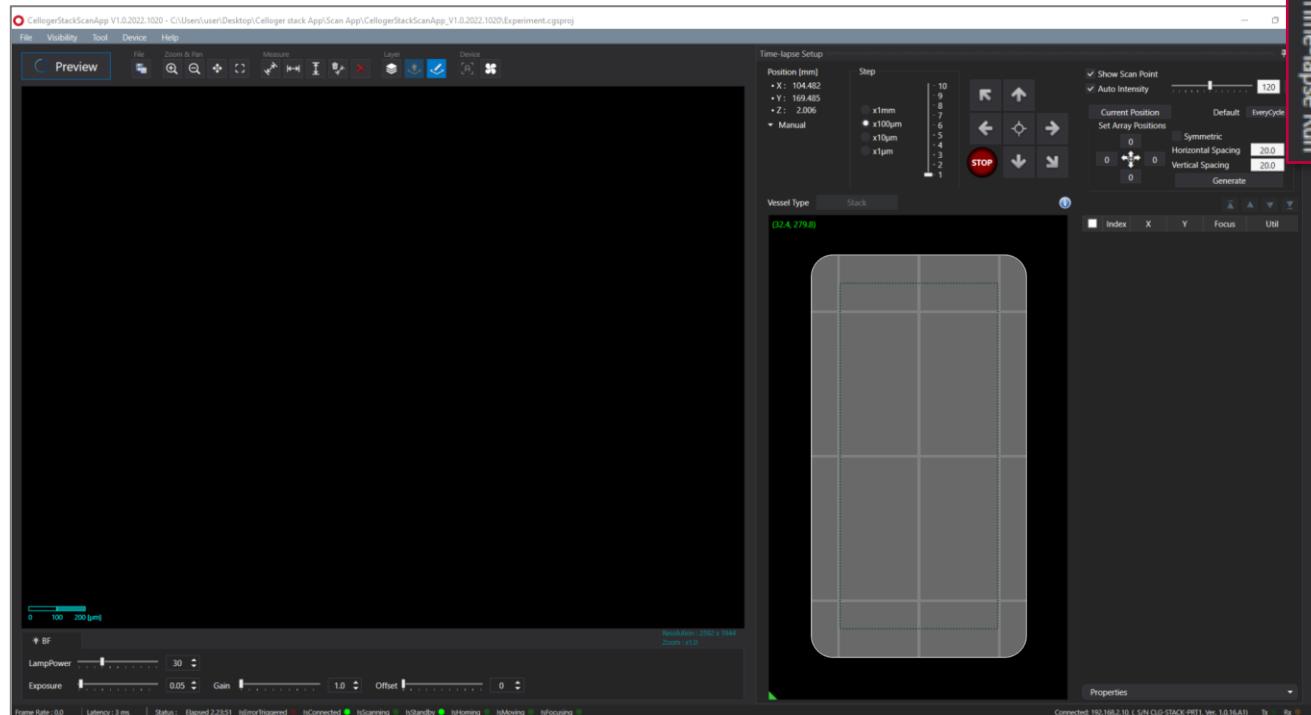
Step 4. Designate the position to scan by pressing **Current Position**.

III. Operation

3. Time-lapse image setting [in Scan app]

Step 1. Enter **Interval Time** and **Total Running Time** in the schedule, the total cycle is entered automatically.

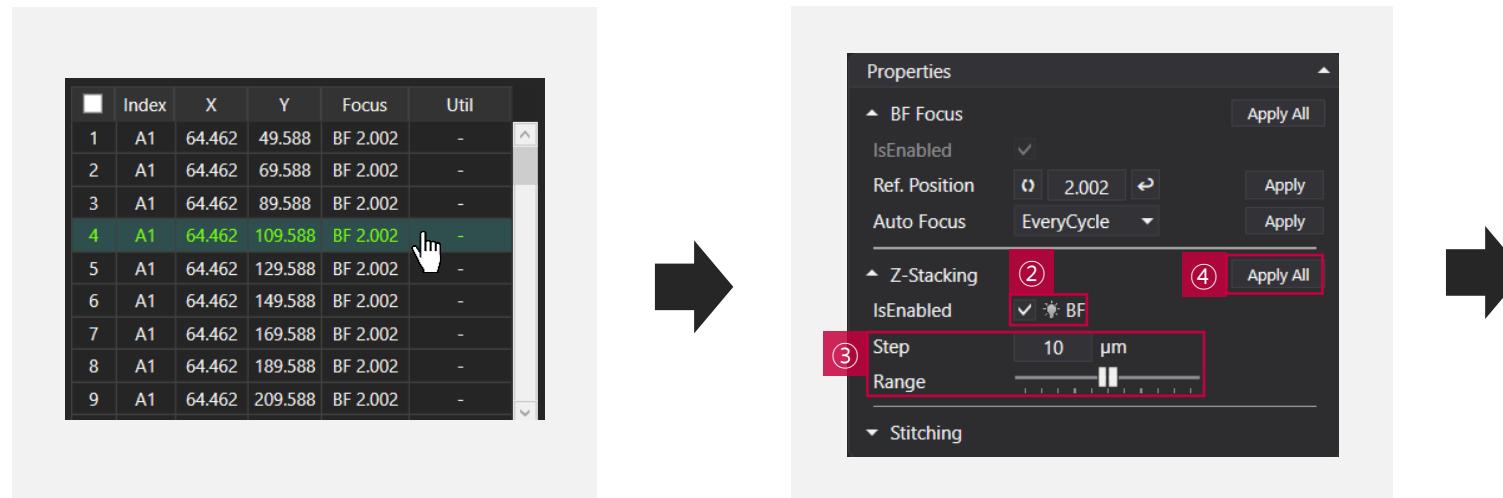
Step 2. Click **Start** to begin time-lapse imaging.



III. Operation

4. Z stacking [in Scan app]

Using this function, images are captured in different focal planes and then stack them together into a clearly focused composite image (You may skip this step if Z-stacking function is not needed).

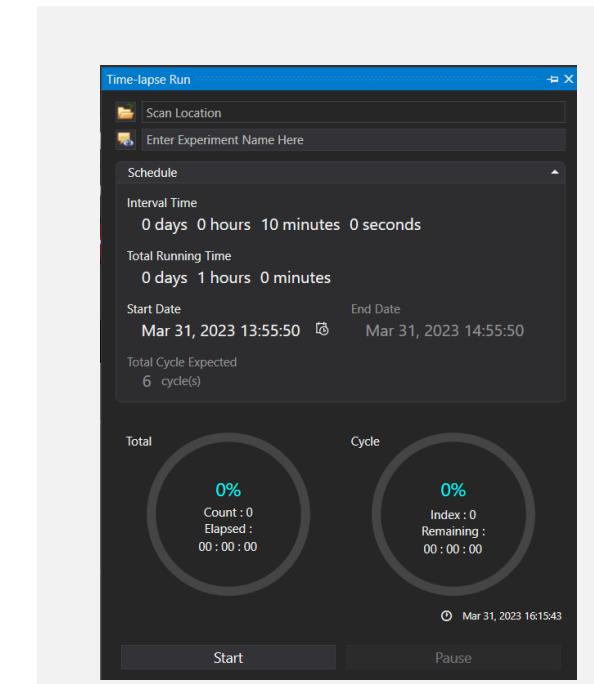


Step 1. Select the position in the **Scan table** where the z stacking function will be applied.

Step 2. Check the **Z-stacking** under **Properties**.

Step 3. After specifying the interval (= **Step**) to execute the z stacking function, adjust the scroll bar in **Range** to specify the range.

Step 4. Click **Apply All**.



Step 5. Set the **Interval Time** and **Total Running Time** in the schedule and start scanning.

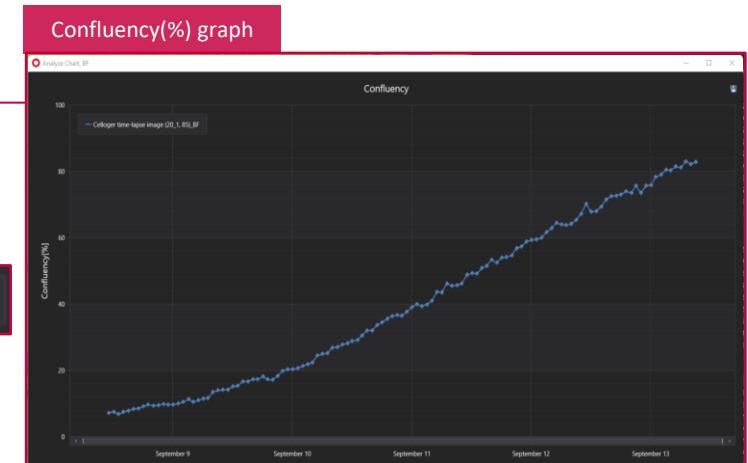
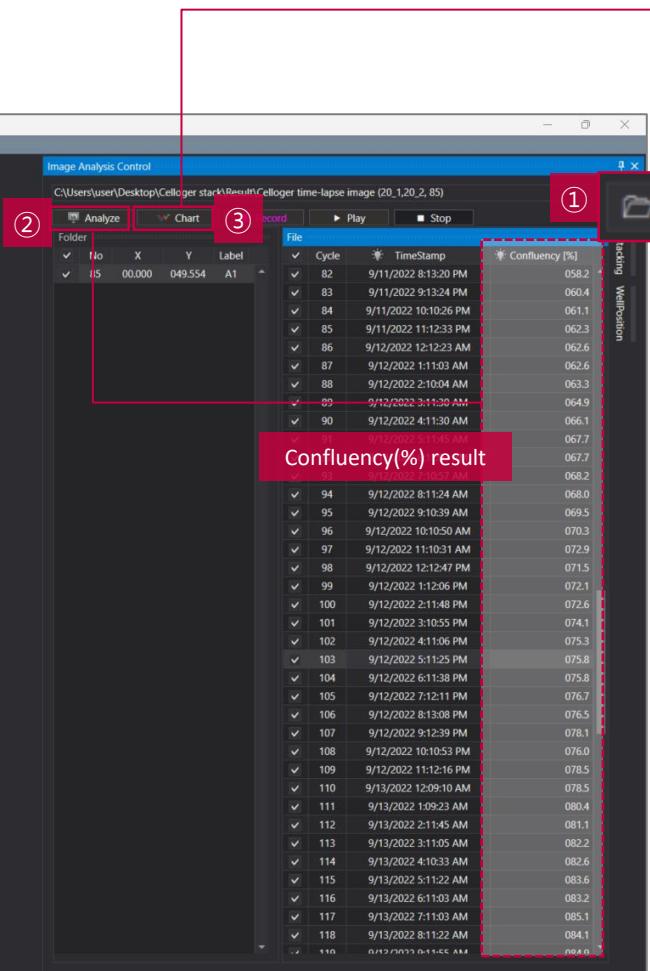
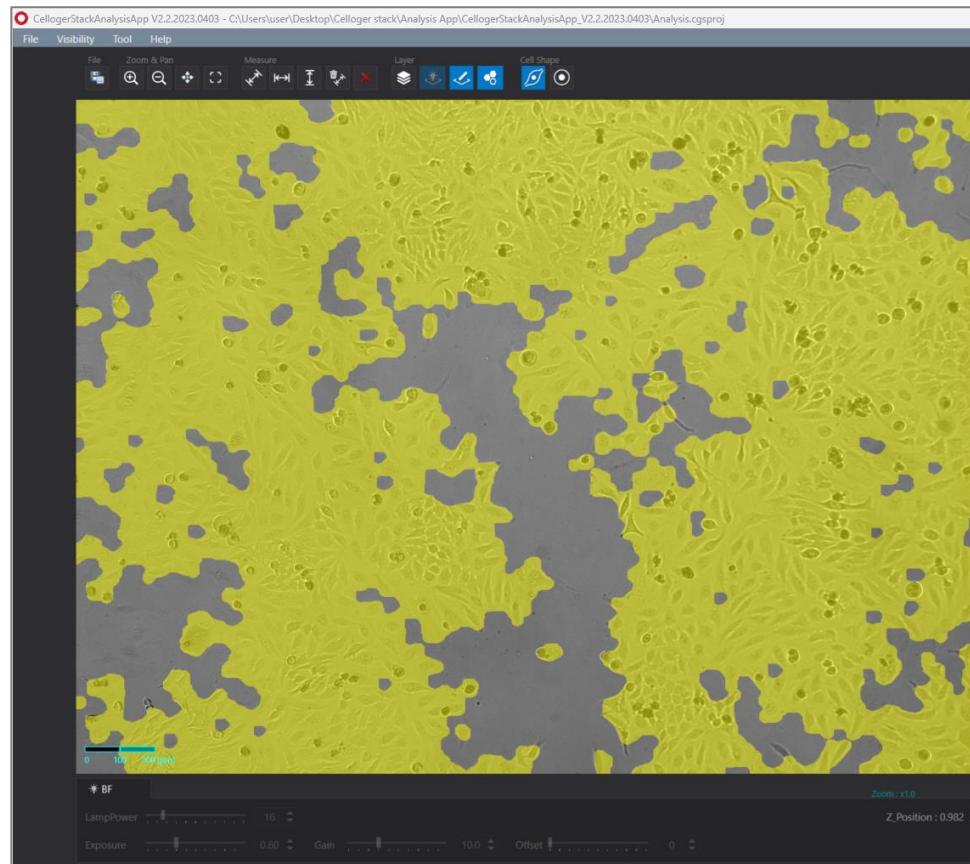
III. Operation

5. Confluency & Graph [in Analysis app]

Step 1. Import the time-lapse folder or image file by pressing  button.

Step 2. Click **Analyze** to estimate confluency.

Step 3. Click **Chart** to create the confluency graph.



III. Operation

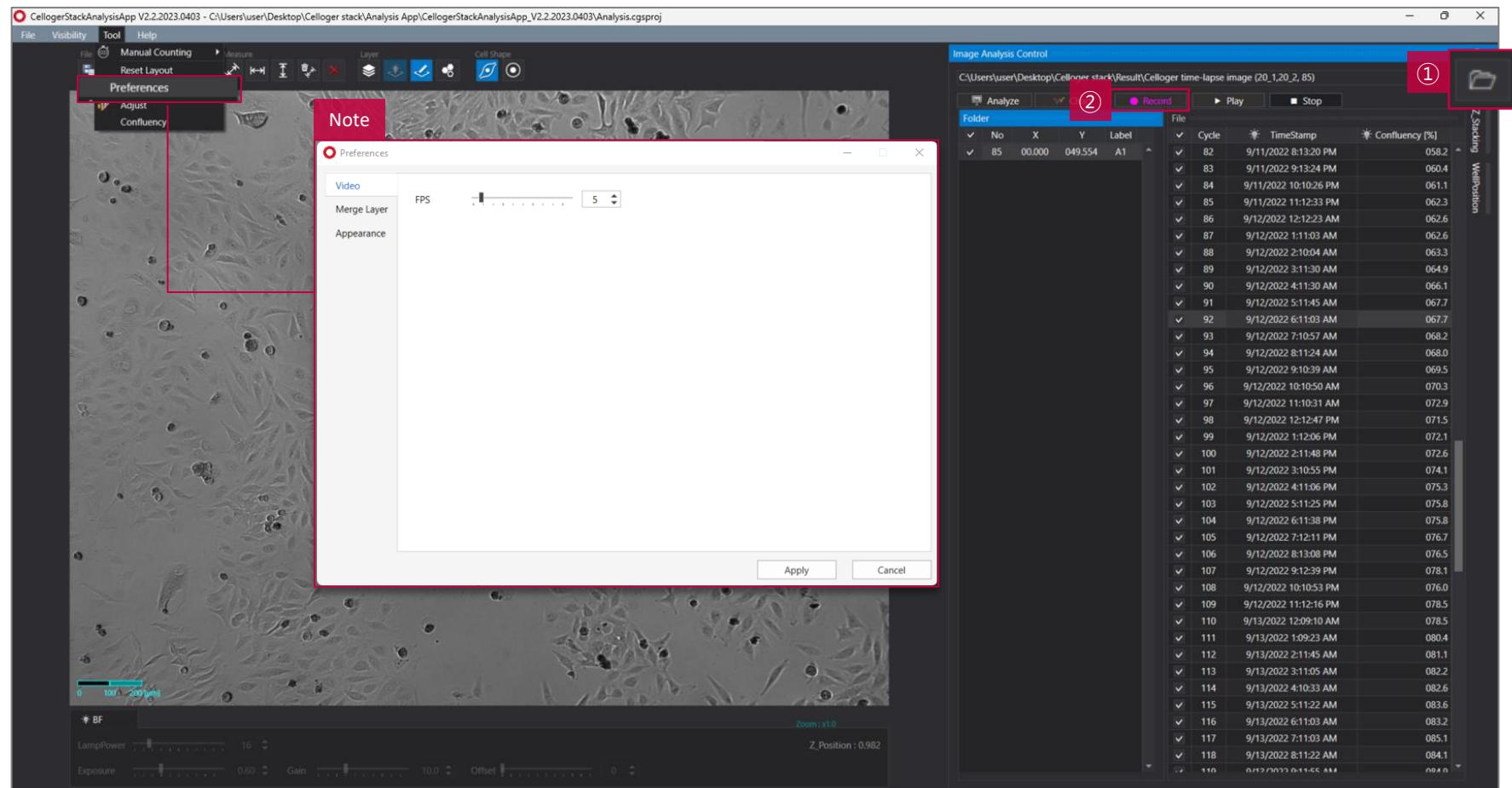
6. Video recording [in Analysis app]

Step 1. Import the time-lapse folder or image file by pressing  button.

Step 2. Click **Record** to create a video.

* Note.

In order to change the speed (frame per second), change the parameter in Preferences of Tool menu.
(Recommended value: 5 ~ 13)



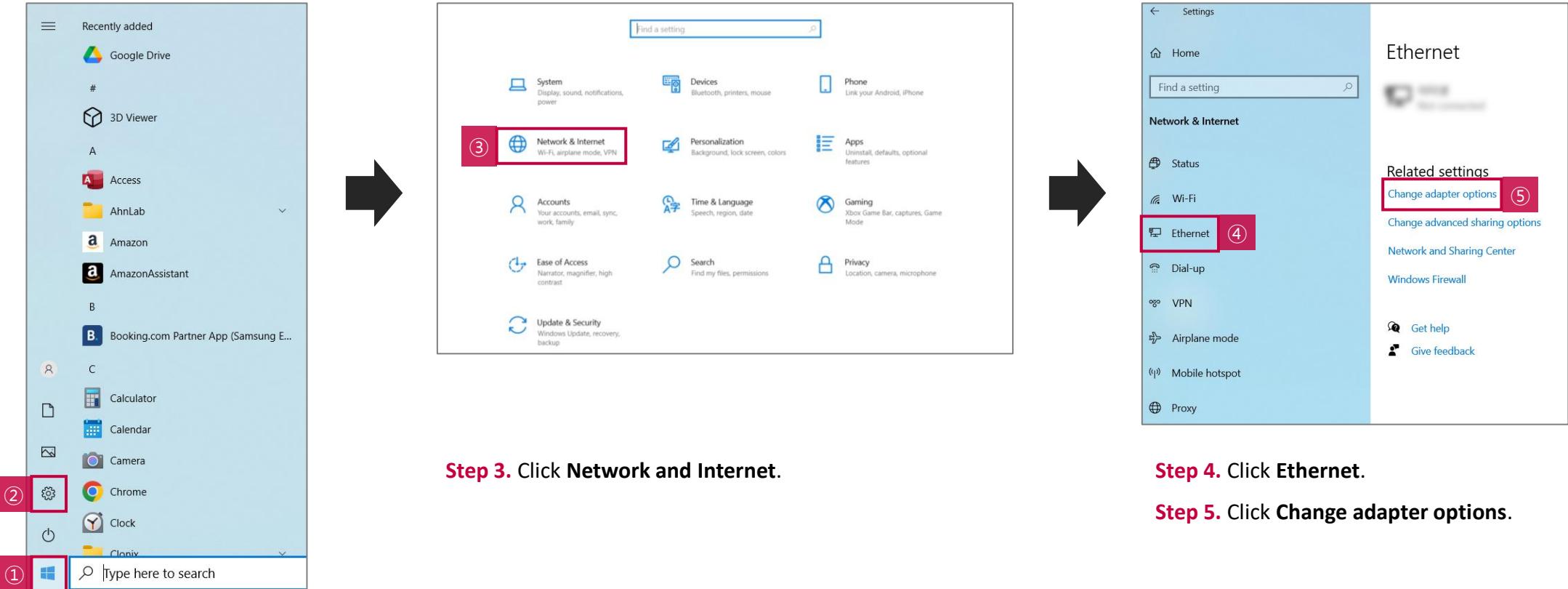
IV. Specification

| Specification | | Ordering information | | |
|---------------|--------------------|----------------------|------------------|---|
| | | Catalog No. | Product Name | Description |
| Dimensions | 350 x 330 x 450 mm | CRCLG-SB02 | Cellogger® Stack | Multi-layer vessel monitoring system (Bright Field, 2X) |

V. Appendix

PC network setting

Window 10



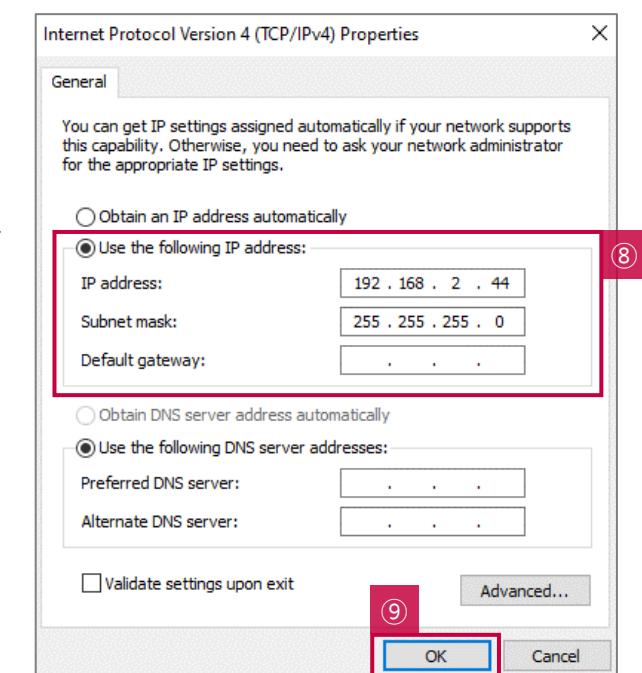
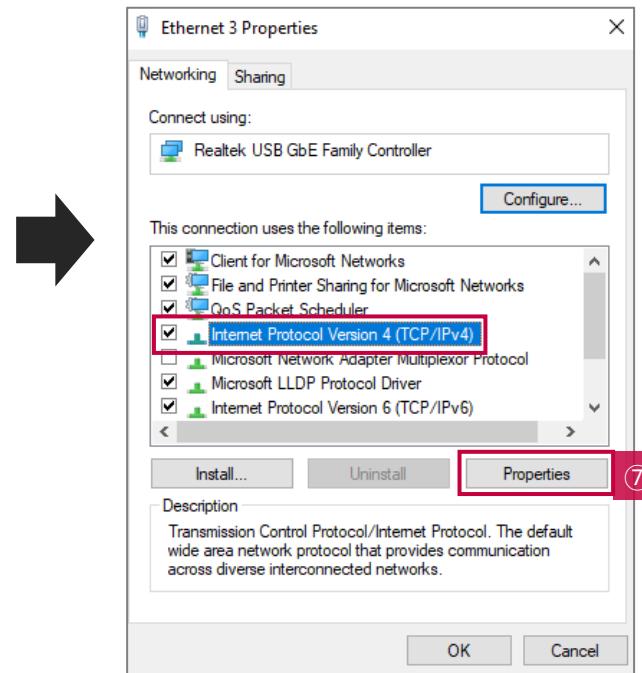
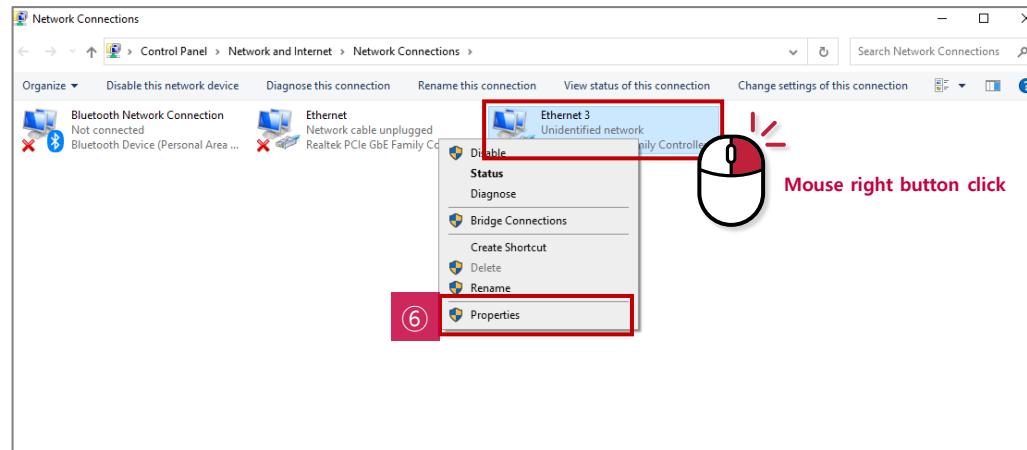
Step 1. Click the **Window** icon.

Step 2. Click **Setting** icon.

V. Appendix

PC network setting

Window 10



Step 6. Select **Ethernet** and right-click the mouse and click **Properties**.

Step 7. Select **Internet Protocol Version 4(TCP/IPv4)** and click **Properties**.

Step 8. Select **Use the following IP address** and enter **IP address (192.168.2.XX)** and **Subnet mask (255.255.255.0)** in the blank fields.

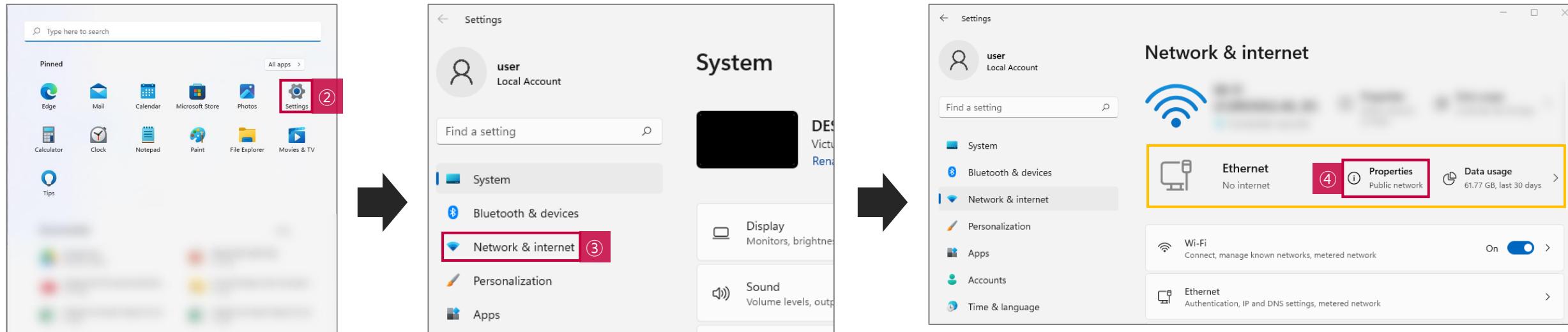
* **Note.** Fill 2 ~ 254 except 10 in XX fields.

Step 9. Click **OK**.

V. Appendix

PC network setting

Window 11



Step 1. Click the **Window** icon.

Step 2. Click **Setting** icon.

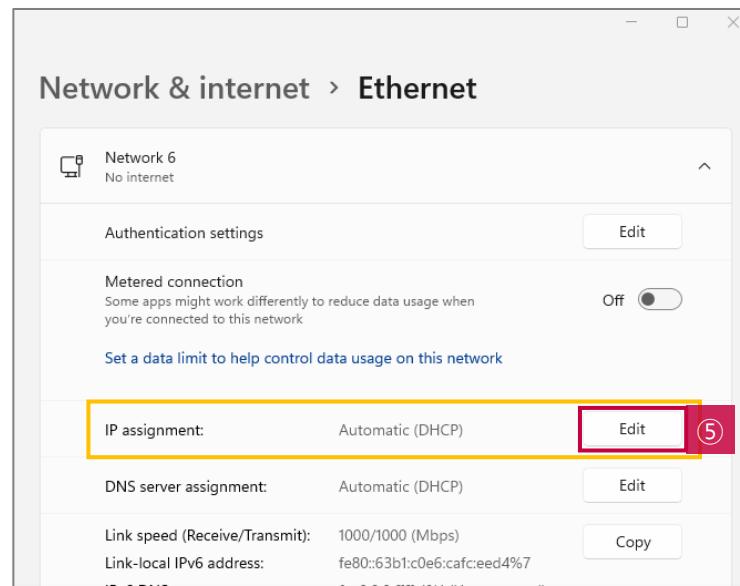
Step 3. Click **Network and Internet**.

Step 4. Click the **Properties** in **Ethernet**.

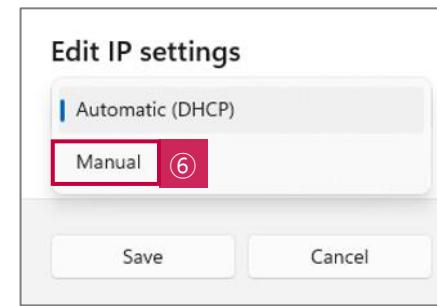
V. Appendix

PC network setting

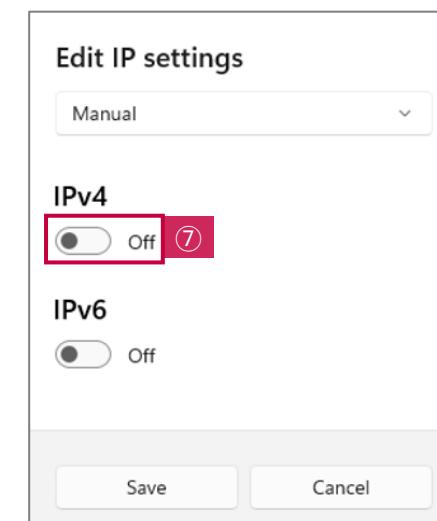
Window 11



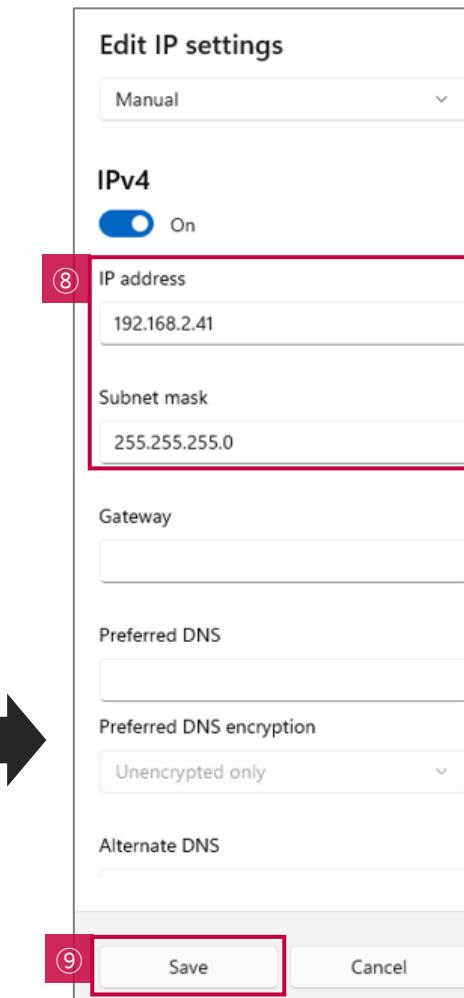
Step 5. Click **Edit** in IP assignment to change IP address.



Step 6. Select **Manual**.



Step 7. Change **IPv4** to **On**.



Step 8.

Enter **IP address(192.168.2.XX)** and **Subnet mask(255.255.255.0)** in the blank fields.

* **Note.** Fill in any numbers from 2~254 except 10 in fields.

Step 9.

Click **Save**, then network configuration is completed.

Thank you

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