



Vü Imaging System

APPLICATION NOTES



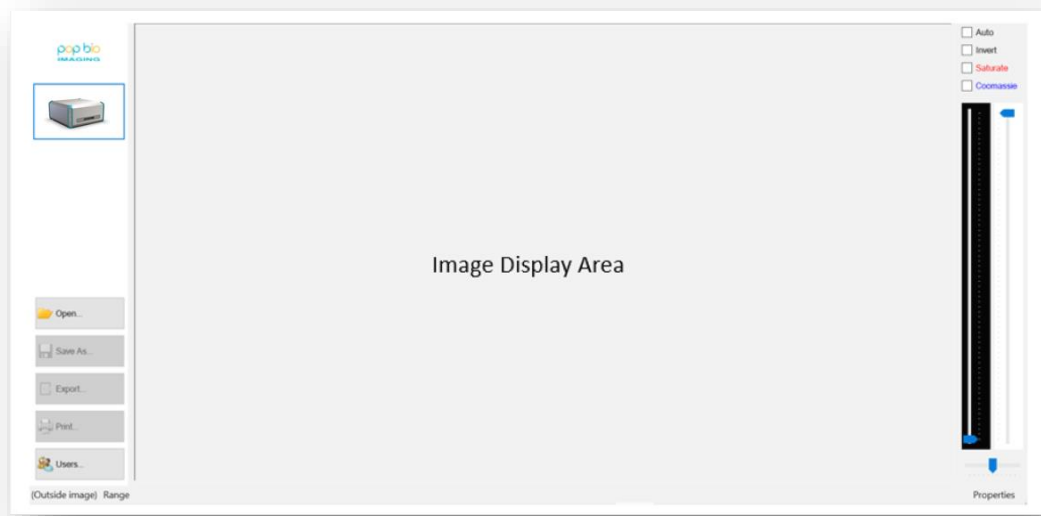
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1 How to capture image of UV image using a gel such as EtBr

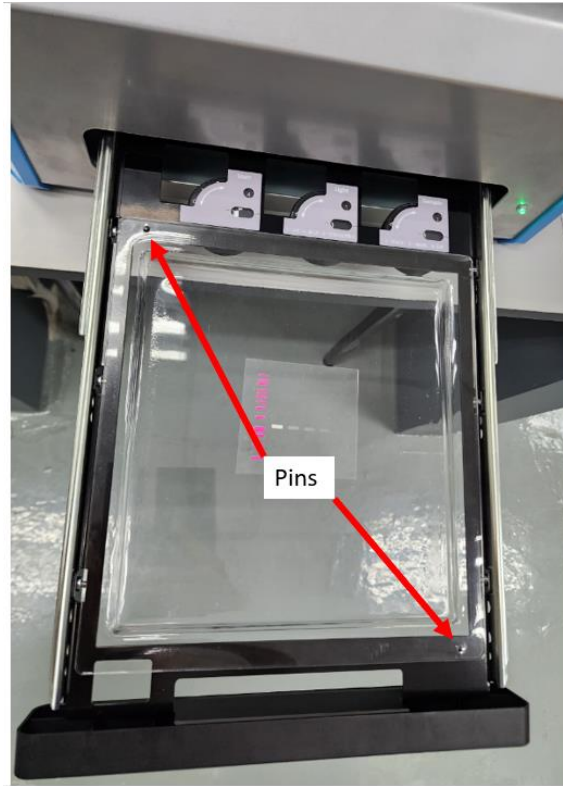
1. Ensure the Vü system is switched on and the LED on the front of the system has turned Green (indicates that the system is ready).
2. Ensure that the Vü system is connected to your computer and the Vü software is opened.



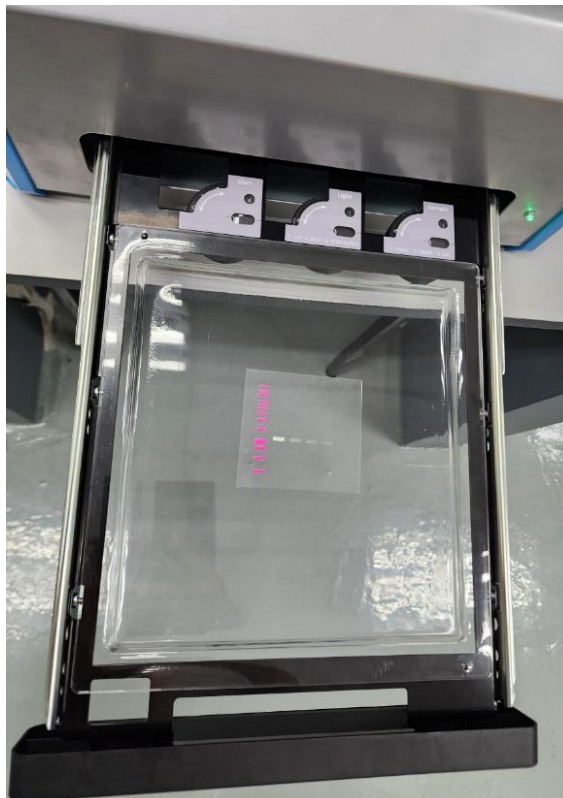
3. Pull out the drawer from the front of the unit as far as you can. It will reach a 'stop' point.



4. Place clear UV plastic tray back into the drawer making sure it is located on the 'pins'. Failure to do this could result in the drawer getting jammed.



5. Place the gel FACE UP. Make sure the gel is centralized in the center of the tray. Press to remove any bubbles that may be present.

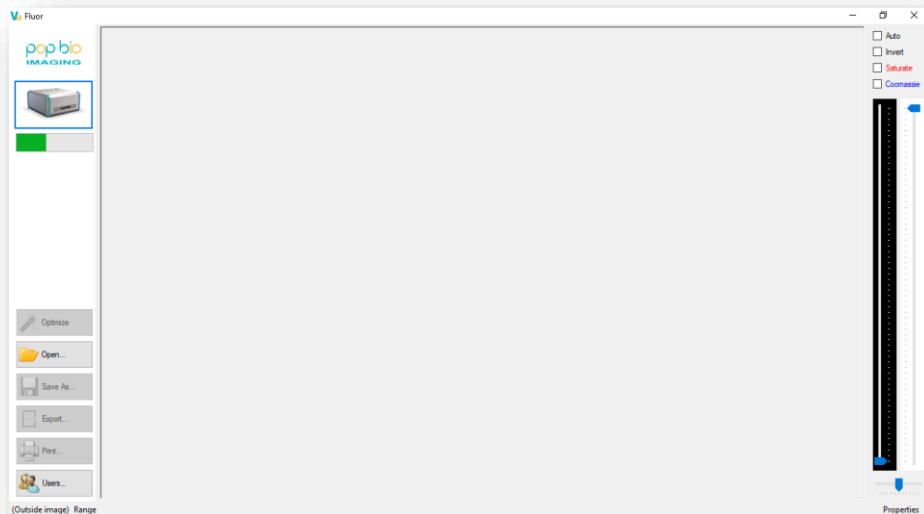


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6. Using the thumbwheels at the back of the drawer select the following:
 - a. Lighting required [UV, Blue, White conversion] – position 1, 2 or 3 – **Select 1 for UV gel**
 - b. Sample size [20 x 20cm, 10 x 10cm, 5 x 5cm] – position 1,2 or 3 – **Select 2 for 10 x 10cm**
 - c. User [numbers 0-11]. If you are not using user ID then this should be set to position 0. [See more about User ID later] – **Select 0**



7. Push the drawer in all the way.
8. The system will start automatically.
9. The system will now begin its process.



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10. The image will appear on the computer screen in the Vu software. [Alternatively, it will be sent to another location that has been nominated during the set-up process – see later].

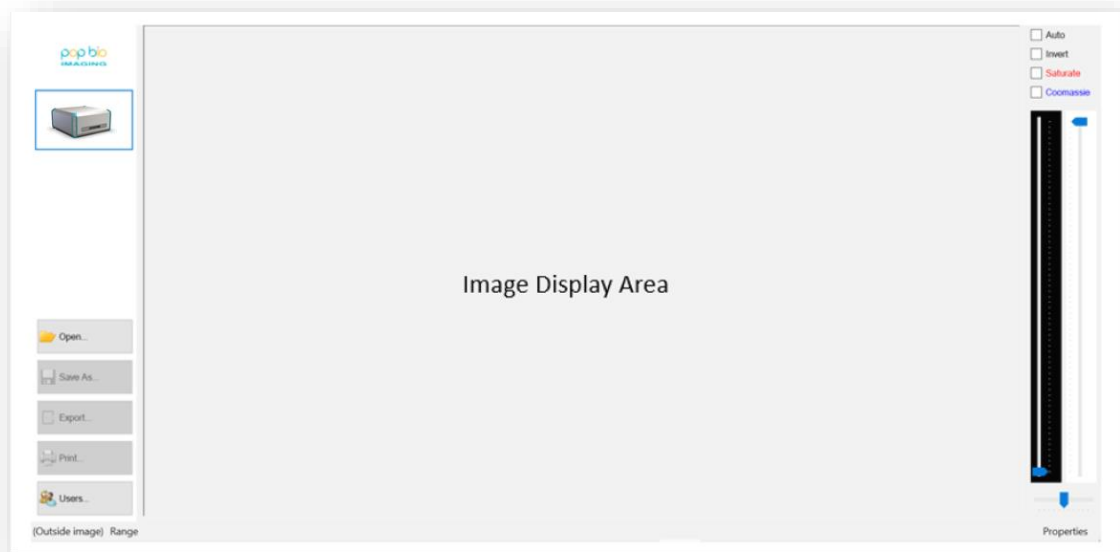


11. Open drawer and remove the tray with your gel. Remove your gel.
12. Ensure the tray is clean and dry for the next user. The tray can be washed to remove any residual fluids when using wet gels.

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2 How to capture image of UV image using a gel such as SYBR® Green or PopDye 10000X Green Gel Safe Stain

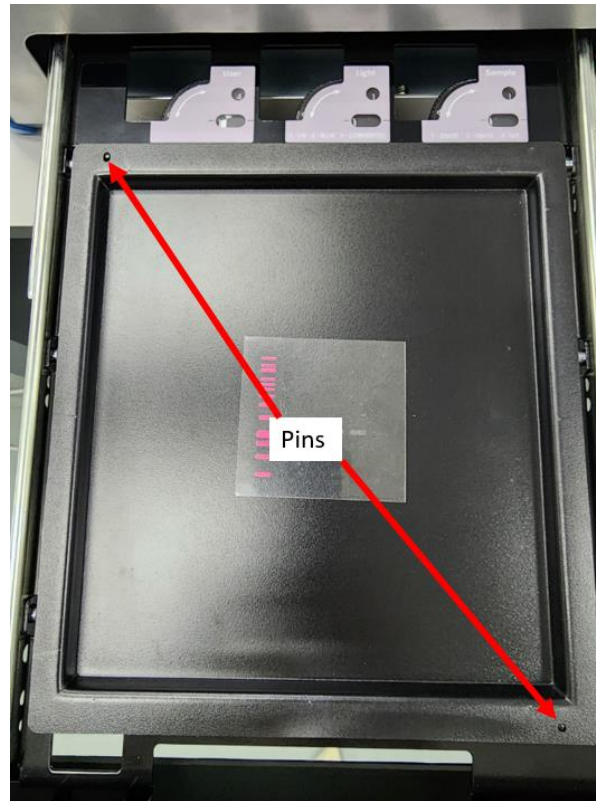
1. Ensure the Vü system is switched on and the LED on the front of the system has turn Green (indicates that the system is ready).
2. Ensure that the Vü system is connected to your computer and the Vü software is opened.



3. Pull out the drawer from the front of the unit as far as you can. It will reach a 'stop' point.



4. Place BLACK tray back into the drawer making sure it is located on the 'pins. Failure to do this could result in the drawer getting jammed.



5. Place the gel FACE UP. Make sure the gel is centralized in the center of the tray. Press to remove any bubbles that may be present.



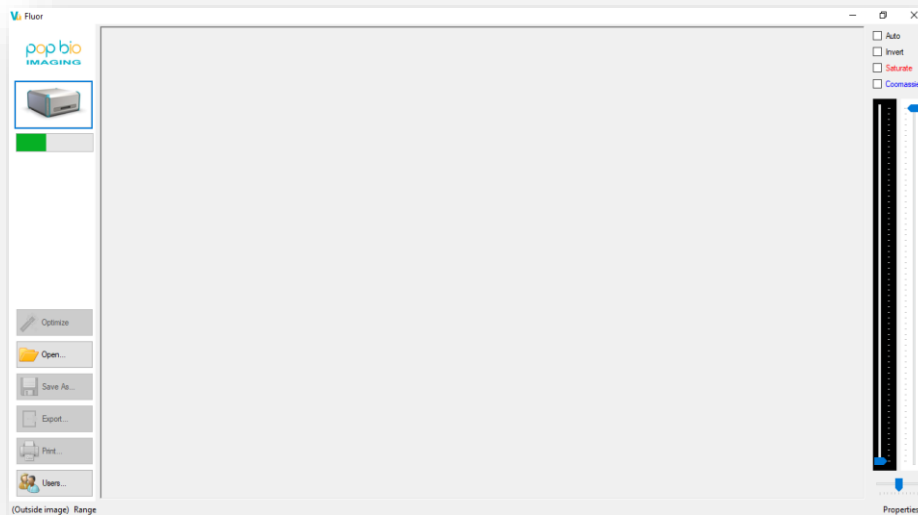
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6. Using the thumbwheels at the back of the drawer select the following:

- a. Lighting required [UV, Blue, White conversion] – position 1, 2 or 3 – **Select 2 for blue light applications**
- b. Sample size [20 x 20cm, 10 x 10cm, 5 x 5cm] – position 1,2 or 3 – **Select 2 for 10 x 10cm**
- c. User [numbers 0-11]. If you are not using user ID then this should be set to position 0. [See more about User ID later] – **Select 0**



7. Push the drawer in all the way.
8. The system will start automatically.
9. The system will now begin its process.



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10. The image will appear on the computer screen in the Vu software. [Alternatively, it will be sent to another location that has been nominated during the set-up process – see later].



11. Open drawer and remove the tray with your gel. Remove your gel.
12. Ensure the tray is clean and dry for the next user. The tray can be washed to remove any residual fluids when using wet gels.

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3 How to capture image of UV image using a gel such as Coomassie Blue

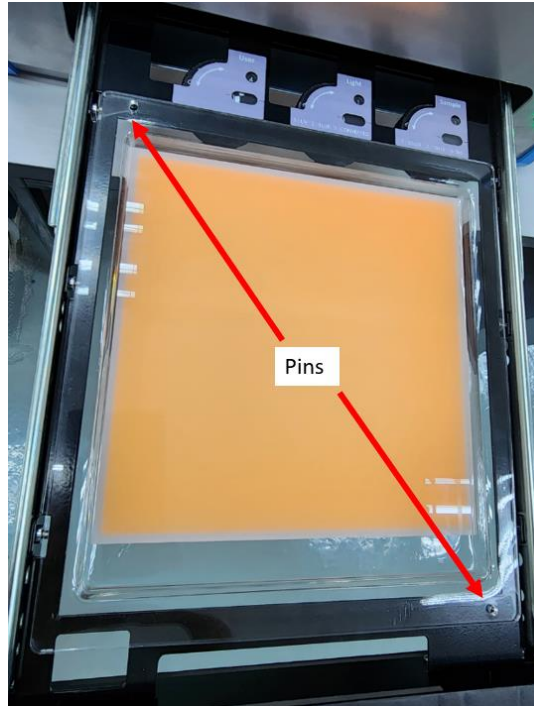
1. Ensure the Vü system is switched on and the LED on the front of the system has turn Green (indicates that the system is ready).
2. Ensure that the Vü system is connected to your computer and the Vü software is opened.



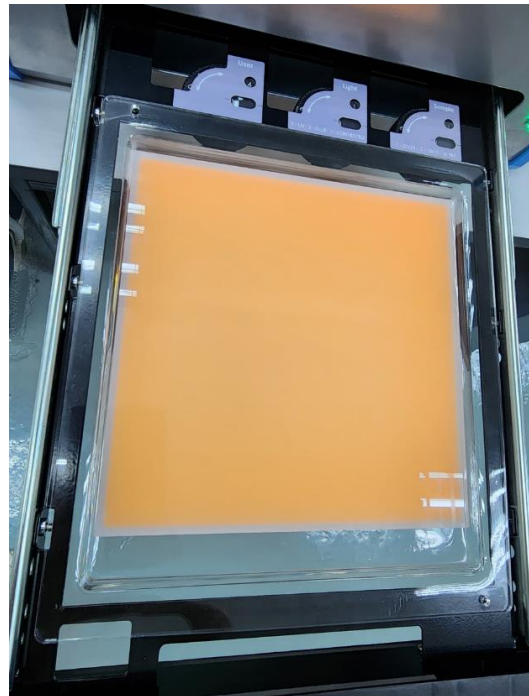
3. Pull out the drawer from the front of the unit as far as you can. It will reach a 'stop' point.



- Place clear UV plastic tray back into the drawer making sure it is located on the 'pins'. Failure to do this could result in the drawer getting jammed.



- Place the orange screen on the clear UV plastic tray [BRIGHTER ORANGE SIDE FACE DOWN].



- Place the gel FACE UP. Make sure the gel is centralized in the center of the tray. Press to remove any bubbles that may be present.

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7. Using the thumbwheels at the back of the drawer select the following:

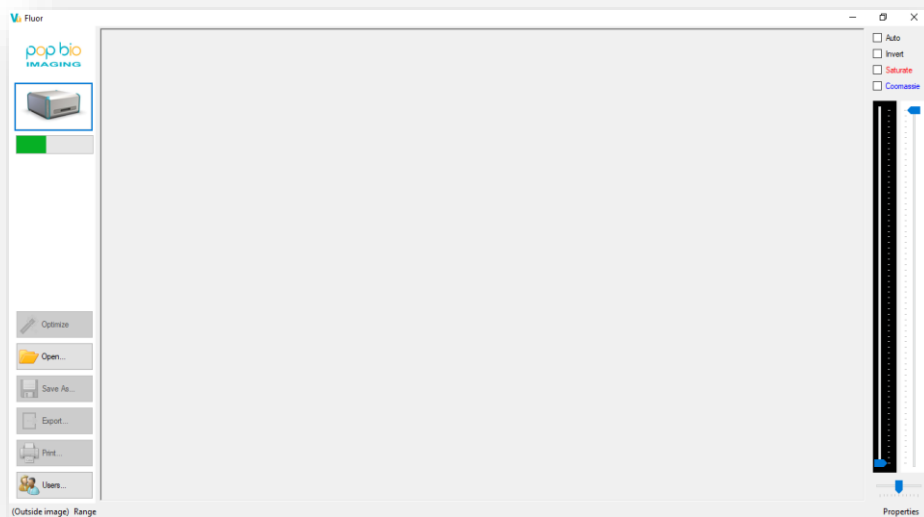
- a. Lighting required [UV, Blue, White conversion] – position 1, 2 or 3 – **Select 3 for white light applications.**
- b. Sample size [20 x 20cm, 10 x 10cm, 5 x 5cm] – position 1,2 or 3 – **Select 2 for 10 x 10cm**
- c. User [numbers 0-11]. If you are not using user ID then this should be set to position 0. [See more about User ID later] – **Select 0**



8. Push the drawer in all the way.

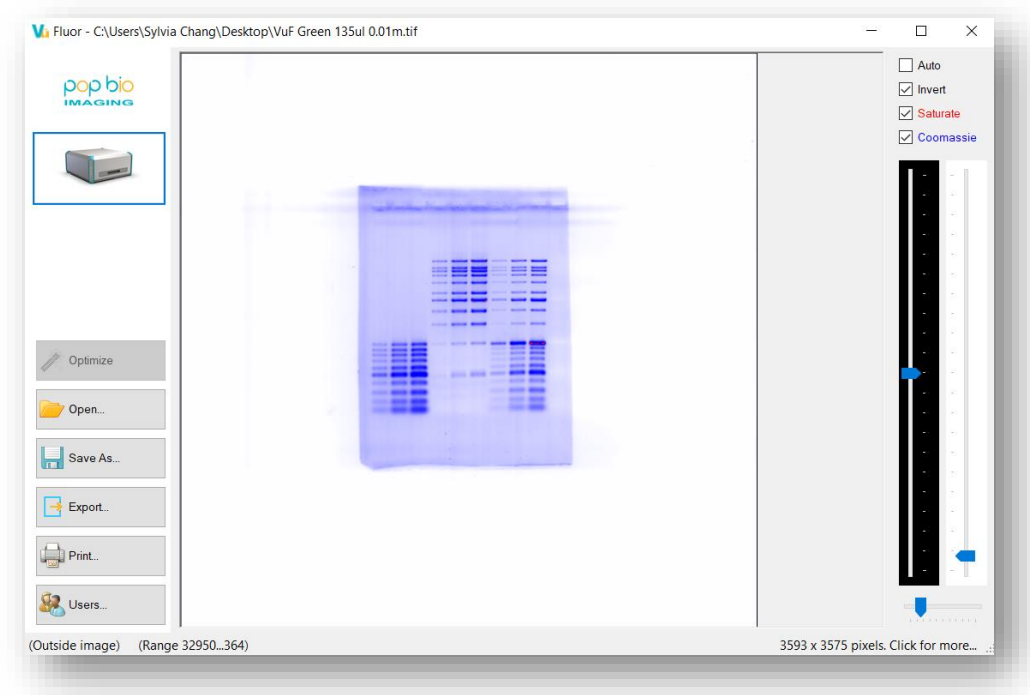
9. The system will start automatically.

10. The system will now begin its process.



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11. The image will appear on the computer screen in the Vi software. [Alternatively, it will be sent to another location that has been nominated during the set-up process – see later].

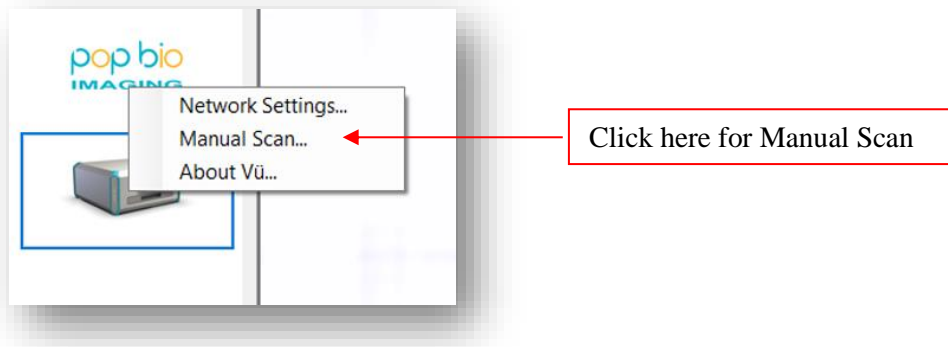


12. Open drawer and remove the tray with your gel. Remove your gel.
13. Ensure the tray is clean and dry for the next user. The tray can be washed to remove any residual fluids when using wet gels.

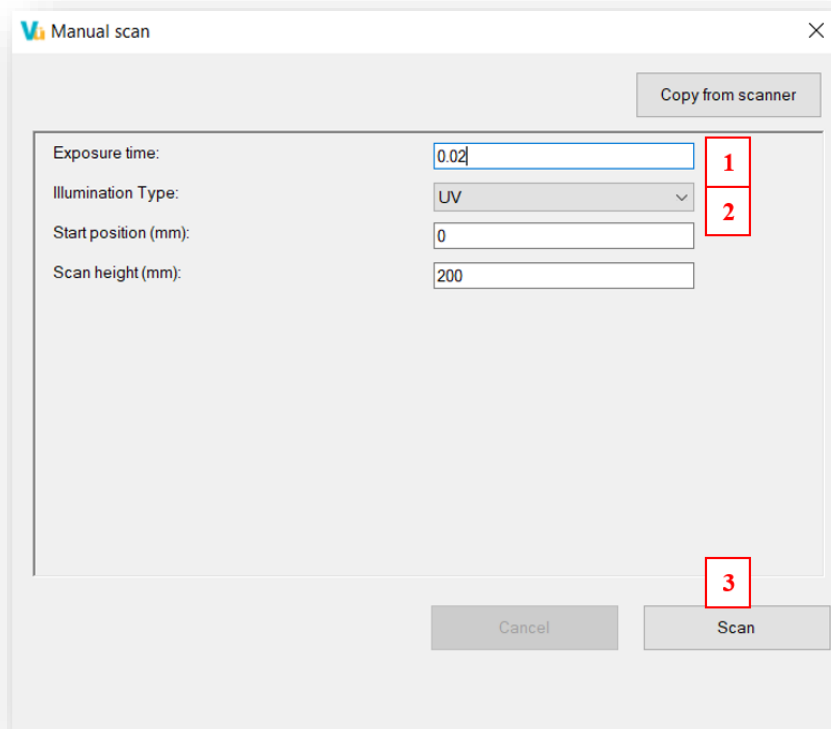
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4 How to capture image of UV image manually by using different applications

1. Click the Pop Bio Imaging logo on the top left corner of the screen. Then, select Manual Scan.



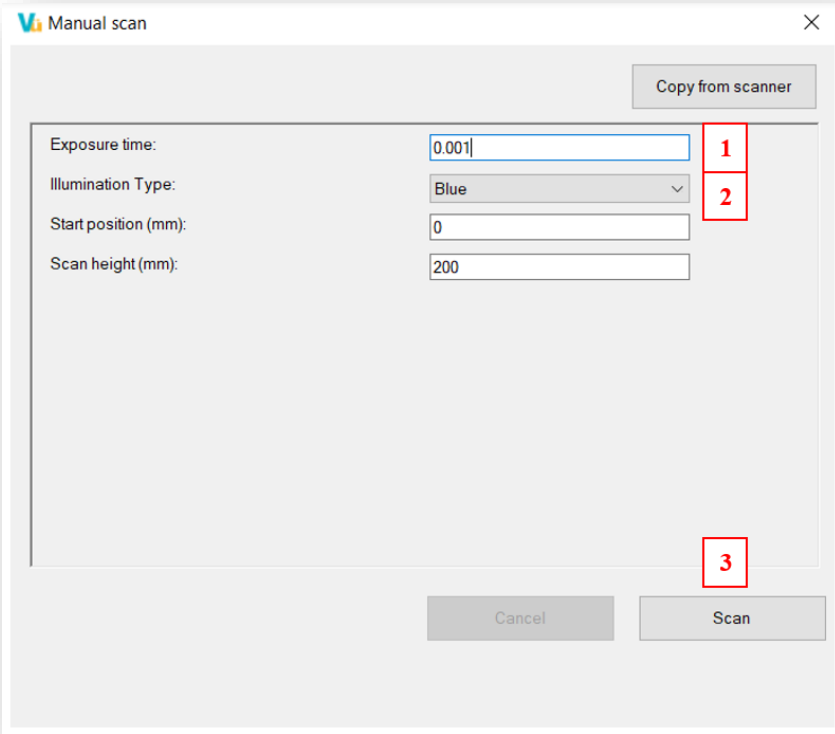
2. To scan UV image using **UV light source application**, do the following:
 - i. Change Exposure time: **0.02**
 - ii. Illumination Type: **UV**
 - iii. Click **Scan**



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3. To scan blue light image using **Blue light source application**, do the following:

- i. Change Exposure time: **0.001**
- ii. Illumination Type: **Blue**
- iii. Click **Scan**



Manual scan

Copy from scanner

Exposure time: 0.001

Illumination Type: Blue

Start position (mm): 0

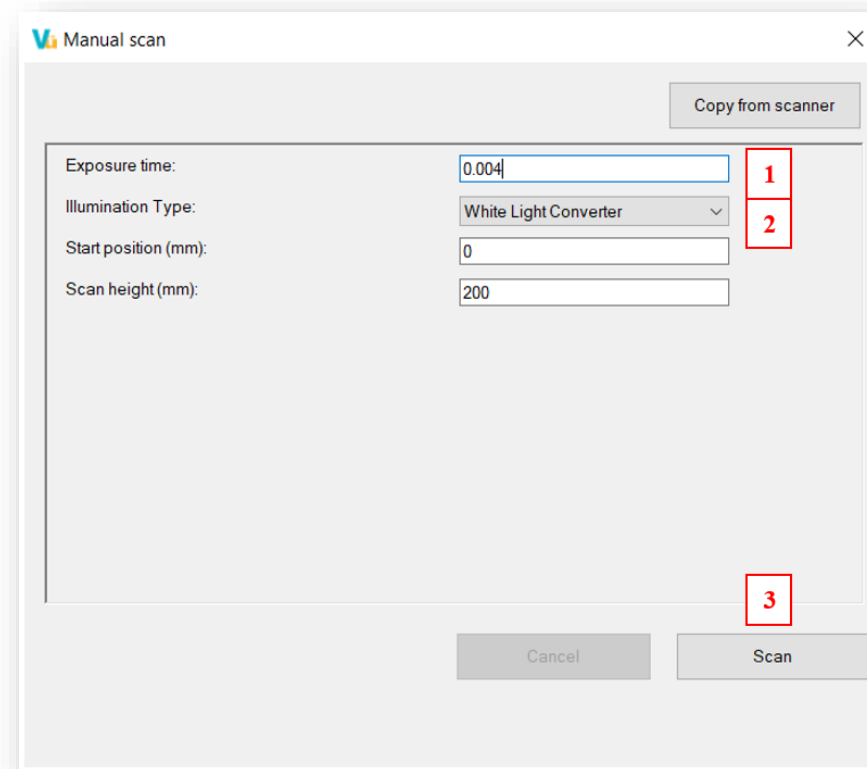
Scan height (mm): 200

Cancel Scan

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4. To scan white light conversion image using **White Light Converter application**, do the following:

- i. Change Exposure time: **0.004**
- ii. Illumination Type: **White Light Converter**
- iii. Click **Scan**



5. Once you have done the settings for Manual Scan, you can now push the drawer all the way in and the machine will start automatically.

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