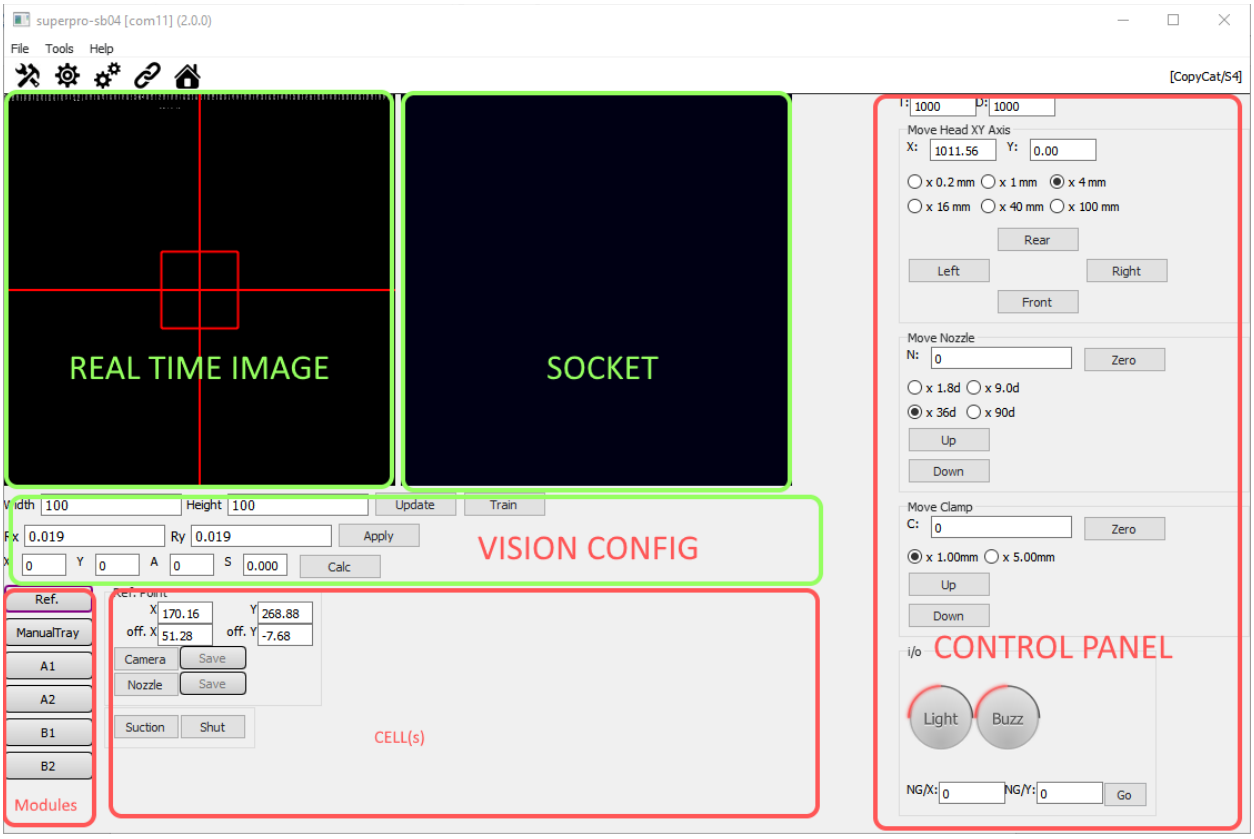
Get started

1. Power on the superpro-sb04 machine
2. Turn on the controlling computer
3. Run XELTEK Superpro-spng7k
4. Load project using spng7k
5. Turn on the programmer power
6. Turn on the system power
7. Run XELTEK Superpor-sb04
8. Probe home
9. Connect
10. Position [Ref. Point]
11. Position Tray Cells
12. Position Device Sockets (A1, A2, B1, B2)
13. Switch to automatic view
14. Set Tray row and column
15. Set Job quantity
16. Start

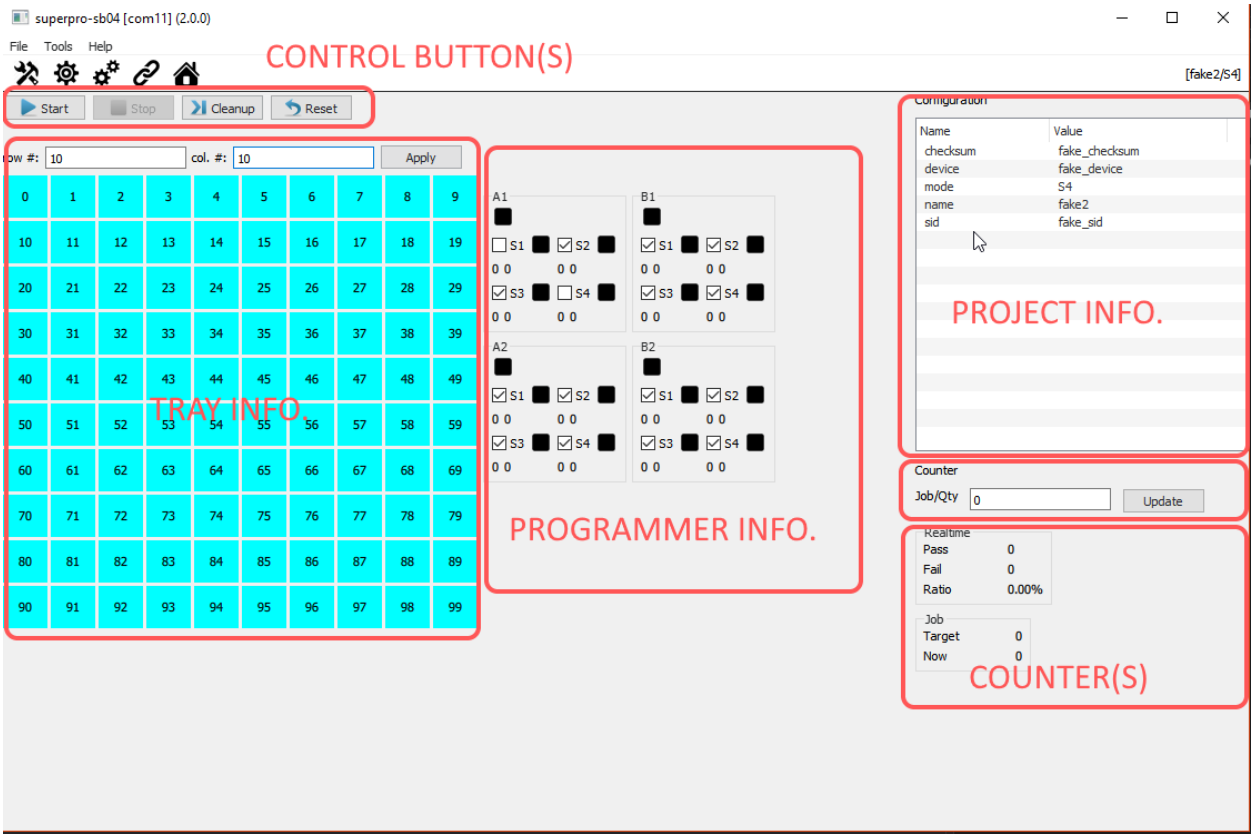
Application overview

Positioning View

Superpro-sb04 uses camera to help positioning.



Automatic view



Get Started

Power on the superpro-sb04 machine

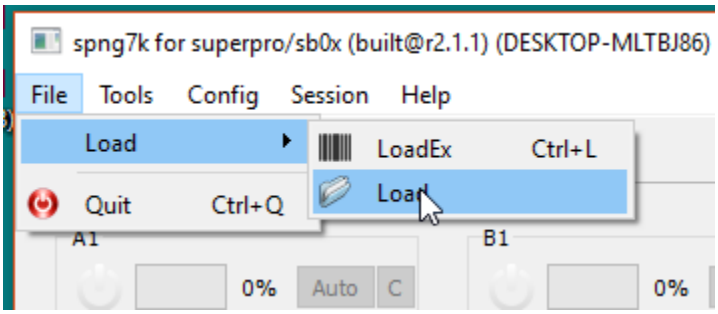
Use the switch at the back panel, turn it the ON position.

Turn on the controlling computer

Switch on the computer and login.

Run XELTEK Superpro-spng7k

Load project using spng7k



Turn on the programmer power

Use the button [PROGRAMMER] at the front panel.

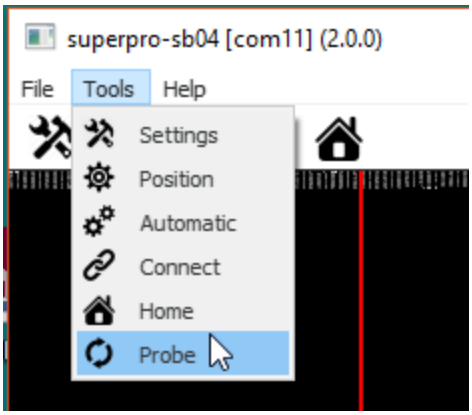
Turn on the system power

Use the button [SYSTEM] at the front panel.

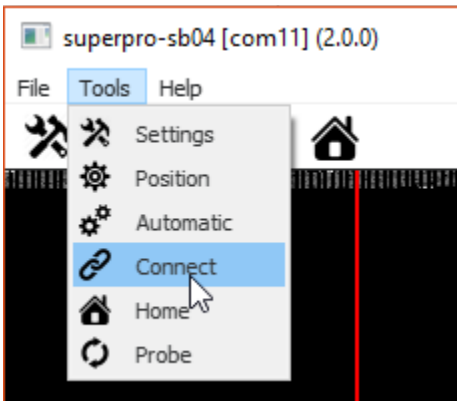
Run XELTEK Superpor-sb04

Probe home

Use [Tools] -> [Probe], to probe home position.



Connect



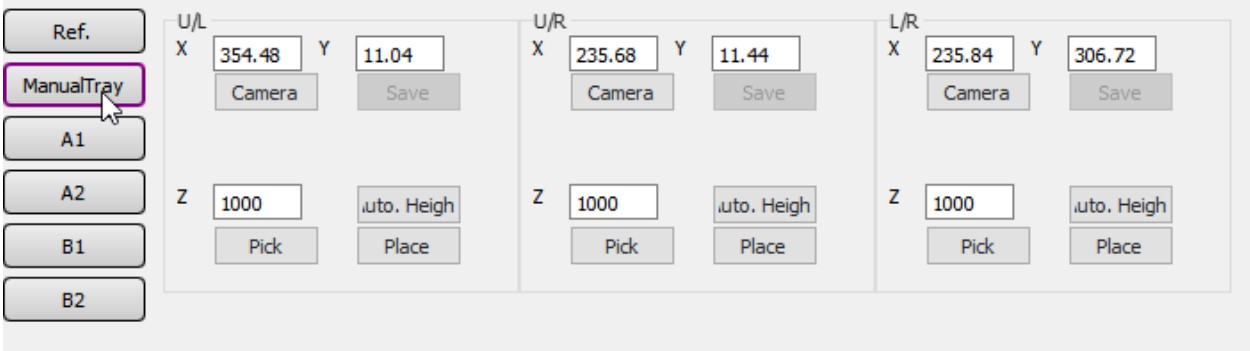
Position [Ref. Point]

Click [Ref.] to activate [Ref. Point] page.

Click [Camera] to activate corresponding [Save] button, which will save current position as REF. POINT position.

Click [Nozzle] to activate corresponding [Save] button, which will calculate the offset and save it as NOZZLE OFFSET.

Position Tray Cells



Click [ManualTray] to activate [ManualTray] page.

Click [Camera] to activate corresponding [Save] button, which will save current position as CURRENT CELL'S POSITION.

Click [Auto. Height] to probe Tray Cell Height. You can use any one of the three cells, and you only need to do it once. All cells on the tray share same height.

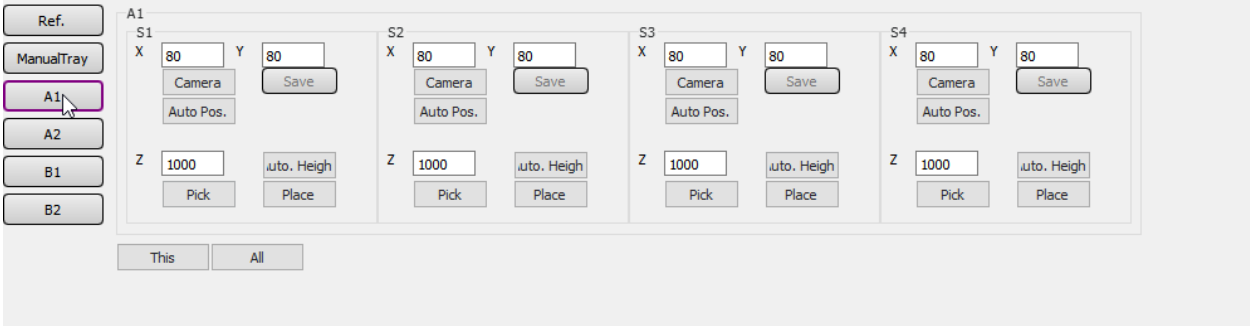
Caution: [Auto. Height] uses nozzle air pressure sensor to probe the actual height.

Click [Pick] to pick the IC from current cell.

Click [Place] to place the IC to current cell.

There are three cells, Upper Left, Upper Right, and Lower Right.

Position Device Sockets (A1, A2, B1, B2)



There are four modules built in superpro-sb04; They are labelled with A1, A2, B1, B2.

We need to position all sockets on all these modules.

We use Module [A1] as an example.

Click [A1] to activate [A1] page.

Click [Camera] to activate corresponding [Save] button, which will save current position as CURRENT CELL'S POSITION.

Click [Auto. Height] to probe Tray Cell Height. You can use any one of the sockets, and you only need to do it once. All sockets on all modules share same height.

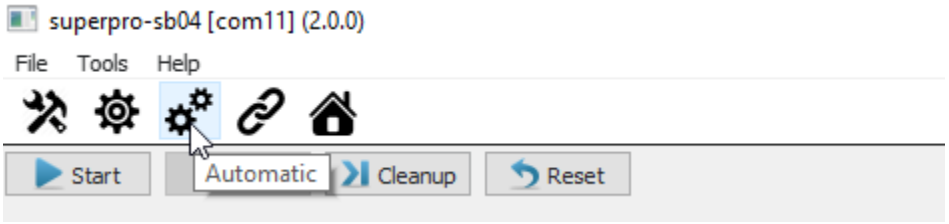
Caution: [Auto. Height] uses nozzle air pressure sensor to probe the actual height.

Click [Pick] to pick the IC from current cell.

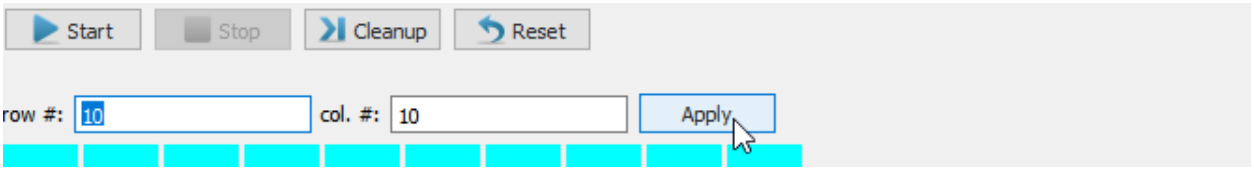
Click [Place] to place the IC to current cell.

Click [Auto. Pos.] to automatically position current socket use the trained image.

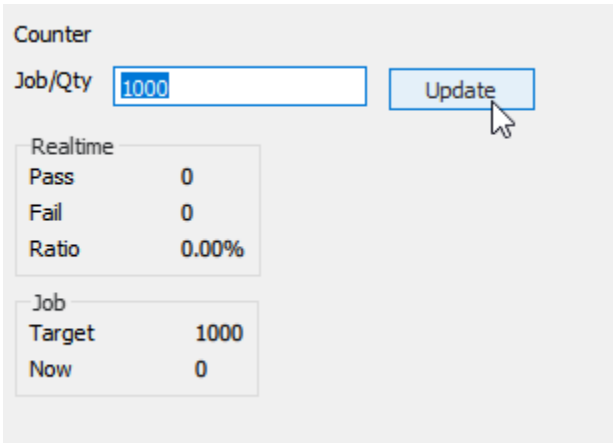
Switch to automatic view



Set Tray row and column



Set Job quantity



Start automatic batch programming

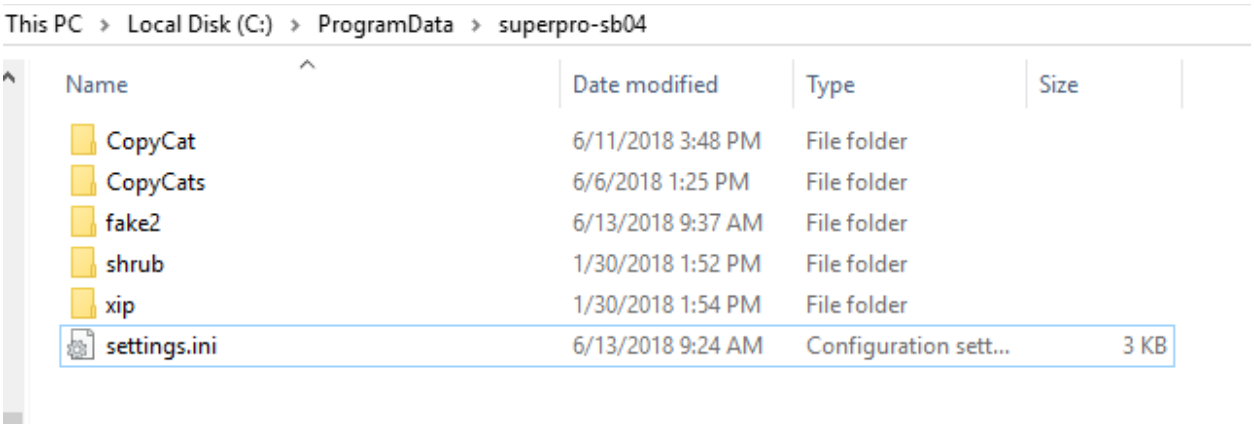
Functions, and components

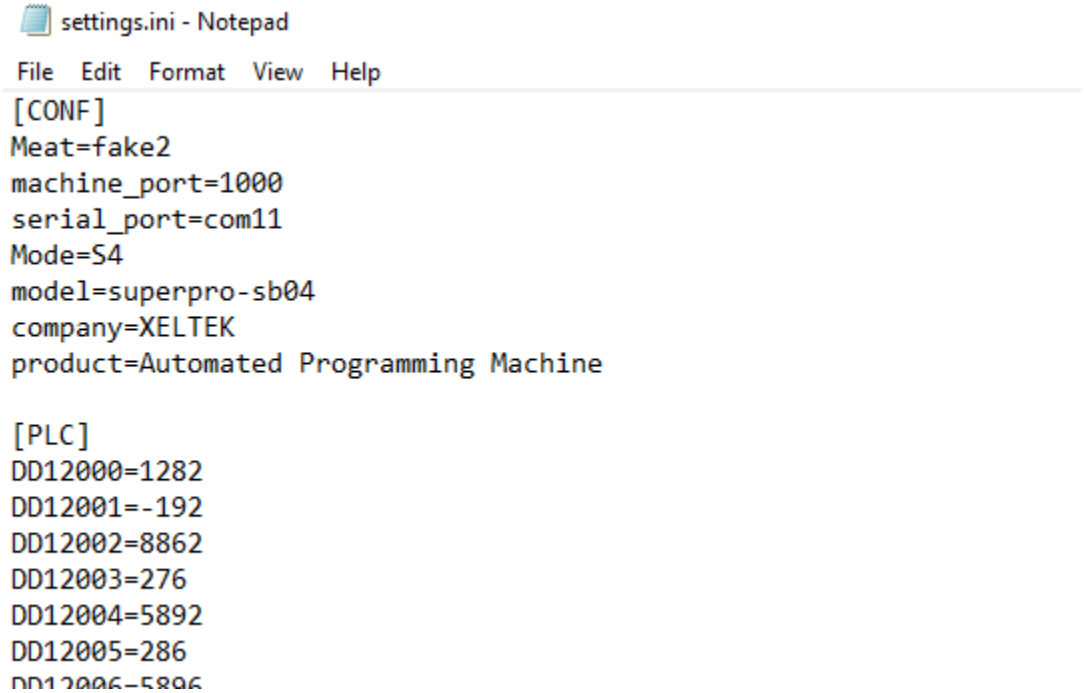
Computer vision aids

Reference Point

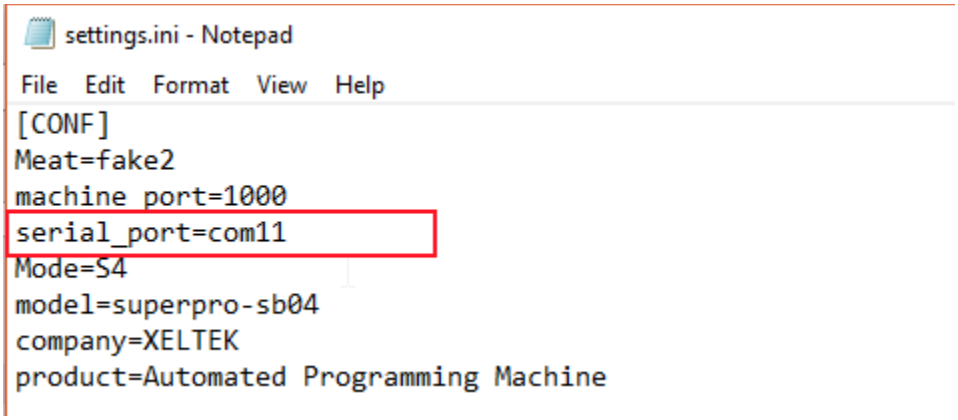
Configuration

All superpro-sb04 related configuration files are stored in folder of %PROGRAMDATA%/superpro-sb04. There is a root configuration file settings.ini, which is for global, and/or default settings; And adapter specific configuration are stored in subfolder named after the Adapter ID.

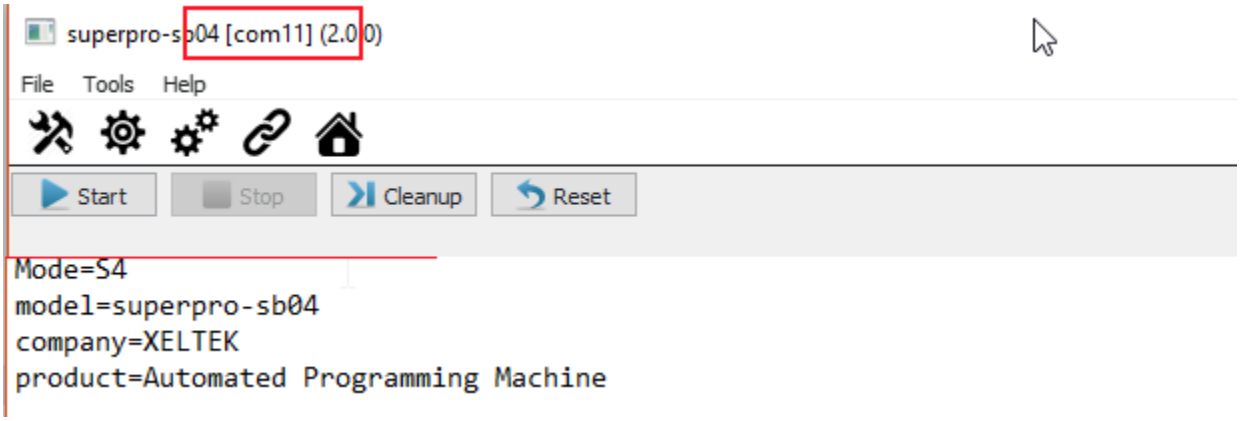




Setting up the FP0R PLC serial port.



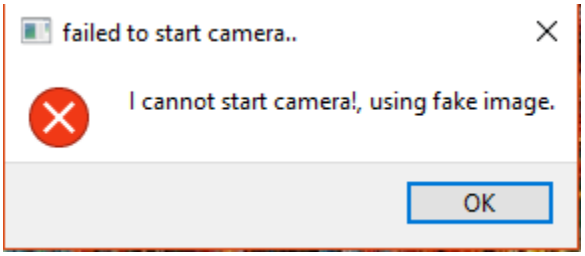
Serial port id will show at the title bar.



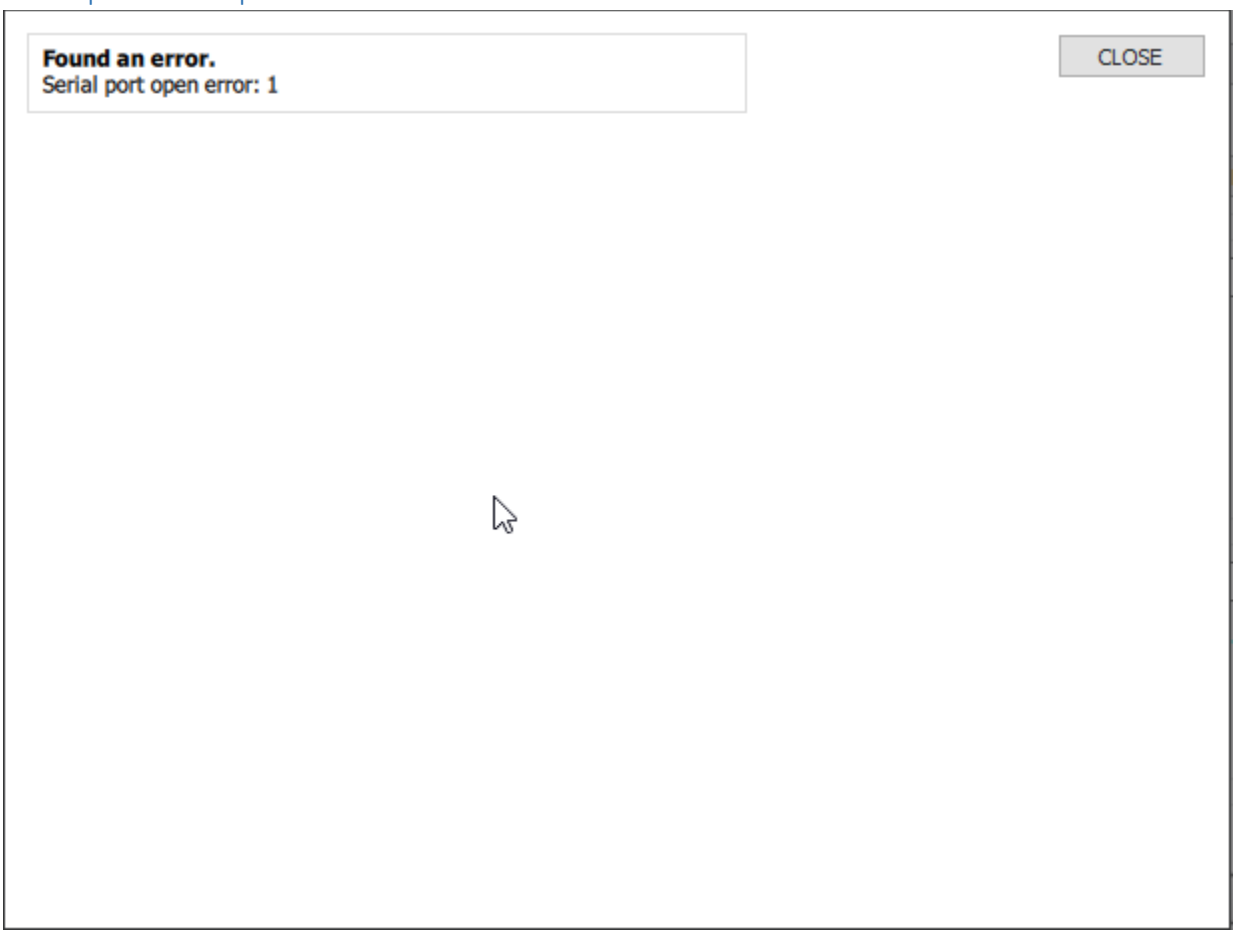
You need to restart the software to take effect.

Trouble shootings

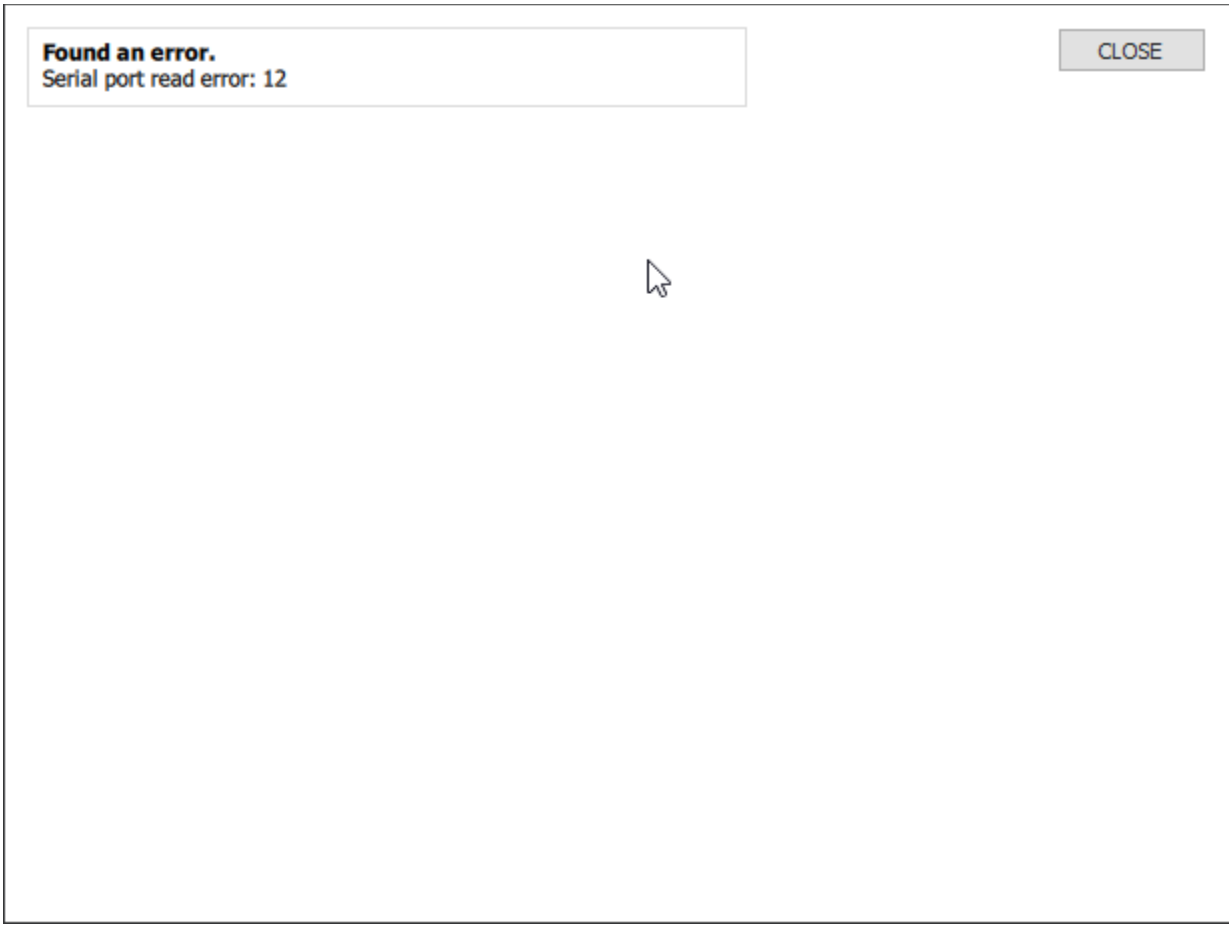
Camera is not present.



Serial port is not present.



Serial port is not responding.



PLC related errors