HMI Guide – Evaluation Kit

2025 - 2026

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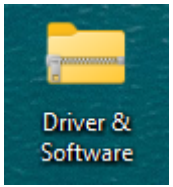
1. How to Install

First, download the **“Driver & Software”** ZIP file sent to you by email.
Alternatively, go to the “Our Resources” page and download the **“Driver & Software”** ZIP file.

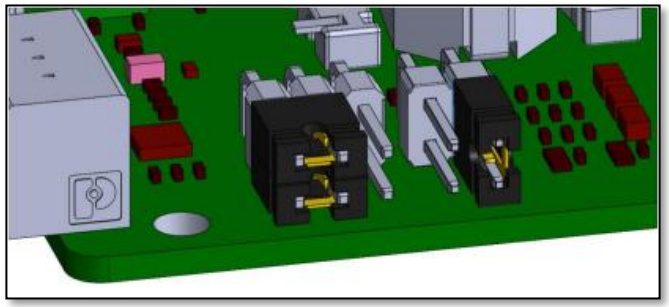


Then, unzip the file.
Open the **“Driver”** folder and install the **“CP210xVCPInstaller_x64”** application.

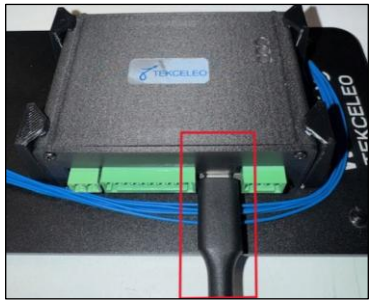
Follow the instructions on the screen to install the driver.

2. First Use

Before using the motor application, please verify that the motor control board's jumpers are set to the USB configuration, as shown in the image below :



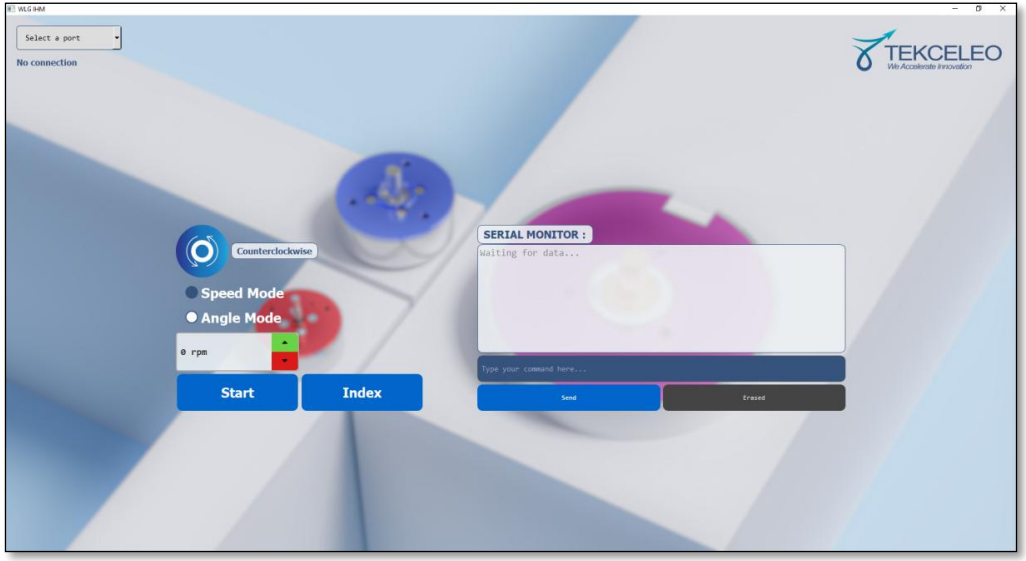
Then, connect the USB-C cable that is delivered with the evaluation kit to the board :



2. First Use

Once you have completed the previous steps and powered up the board, you can open the **“Motor Software”** folder to find the **“WLG_HMI”** application to start the motor control interface.

You should then see the following screen :

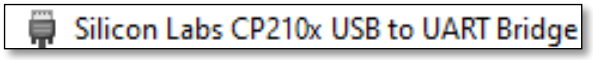


2. First Use

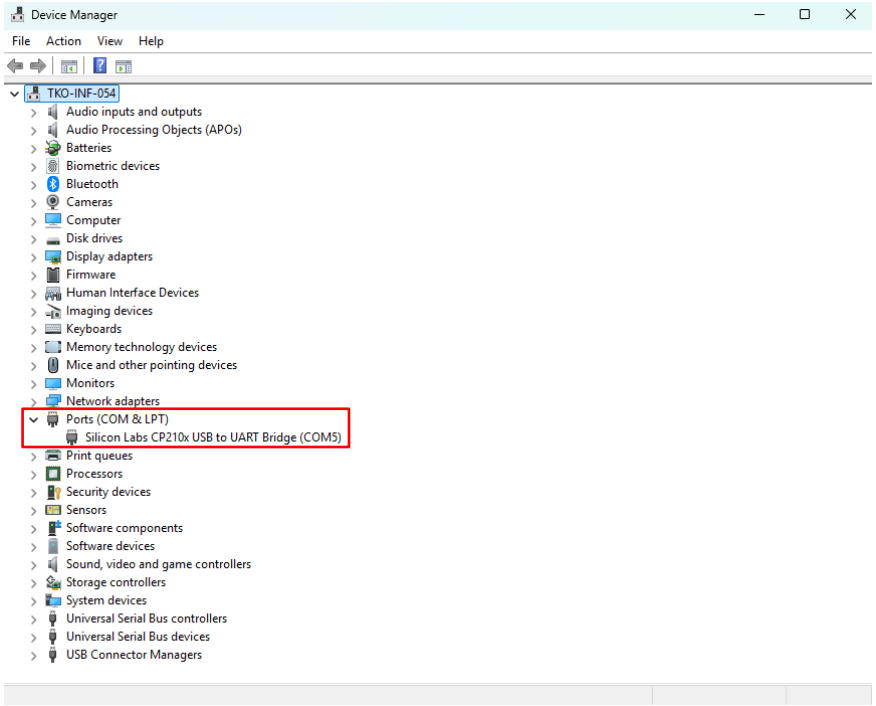
Before using the application, open your **“Device Manager”** and verify the **“COM port number“** assigned to the motor board.

To access your **“Device Manager”** :

- Click on your Start Button
- Type : Device Manager
- You should then see the following screen :
- Expand the **“Ports (COM & LPT) line“**
- Find the line :

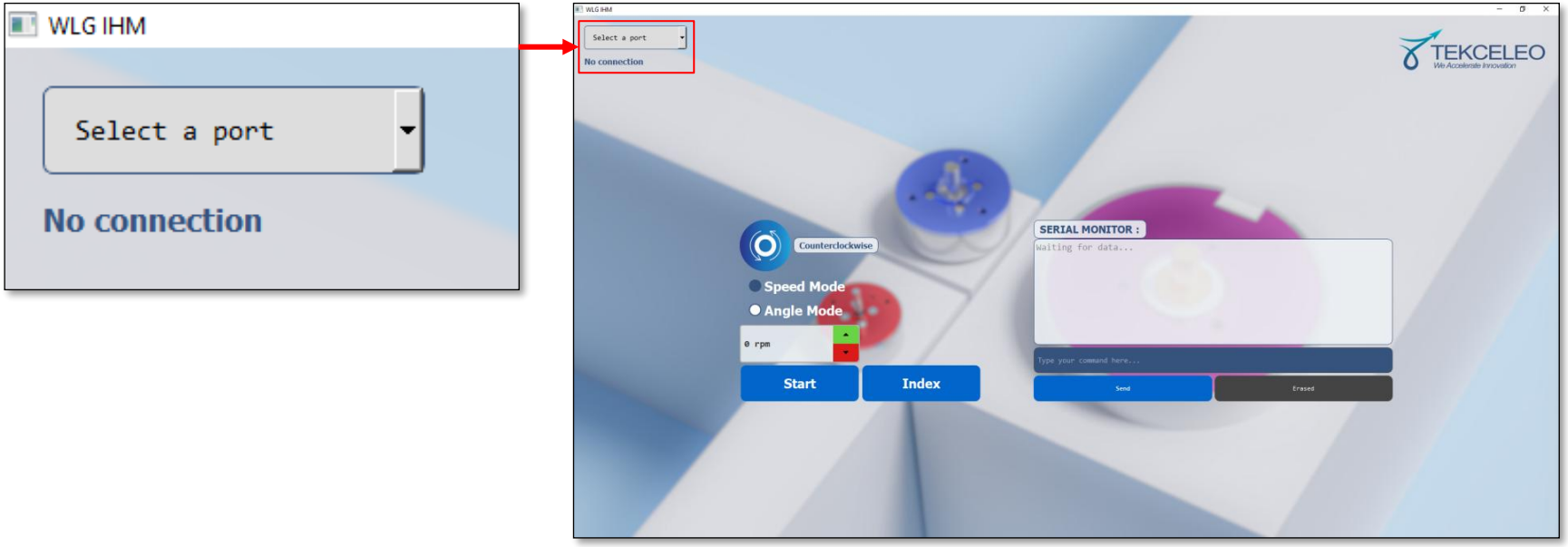


- Note the COM number (e.g. COM5)



2. First Use

Then, go back to the **“WLG_HMI”** application and select the **“COM port”** you identified previously.



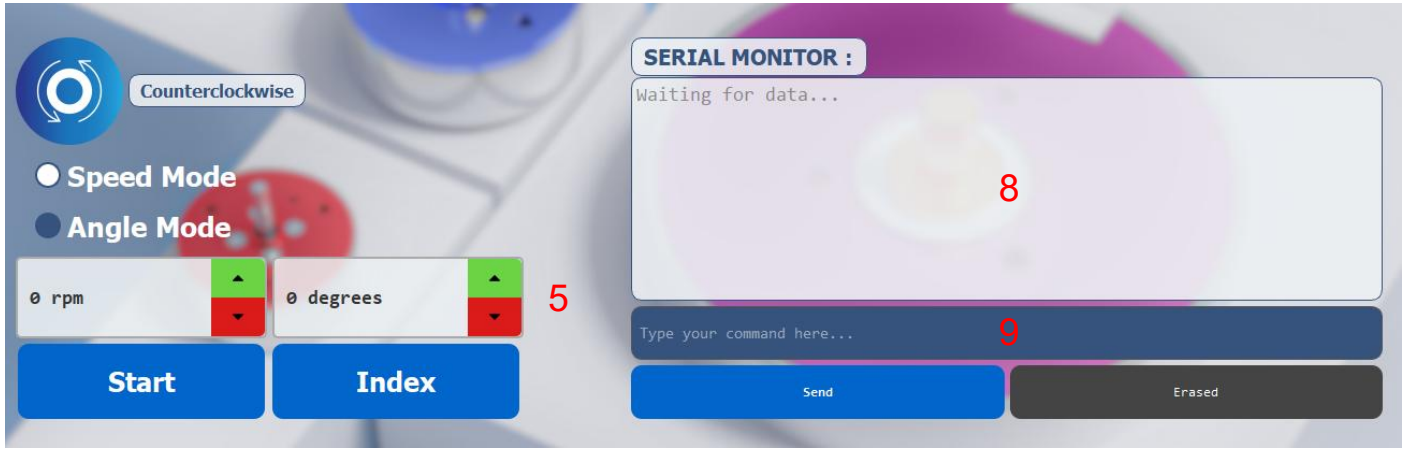
2. First use

This application is divided into two sections :

1. A user-friendly interface on the left-hand side
2. An advanced interface on the right that allows direct command input

2. First use

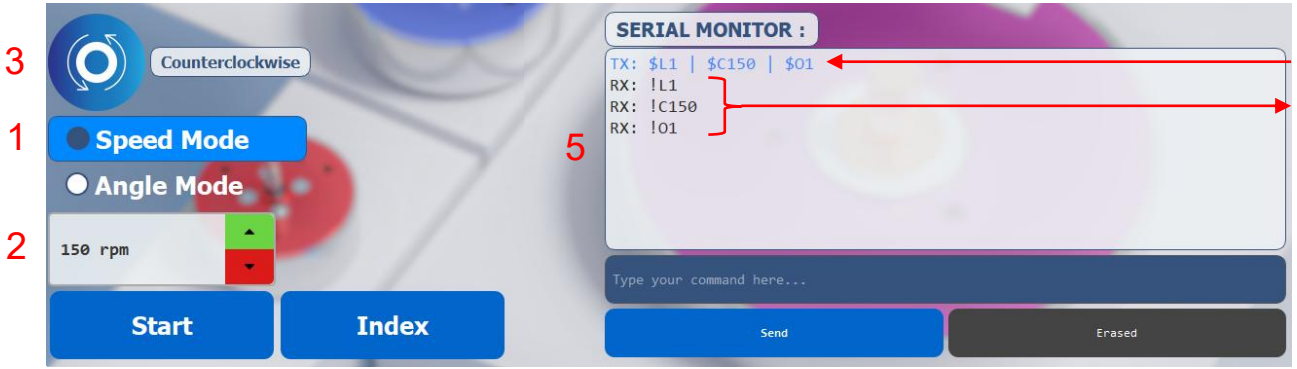
1. **Rotation Sense :** click to switch the rotational orientation of the motor
2. **Speed Mode :** click to switch on speed mode
3. **Angle Mode :** click to switch on angle mode
4. **Speed Box :** enter a speed number
5. **Angle Box :** enter the degrees
6. **Start :** launch the motor
7. **Index :** back to index
8. **Serial Monitor :** displays the full command history
9. **Command Input Box :** type your custom commands from the “Protocol Guide”
10. **Send :** press to run it
11. **Erased :** press to erase all the previous command



2. First use

Speed Mode

1. Select **“Speed Mode”**
2. Use the input field to set the motor speed
   - You can enter a number directly
   Or
   - You can use the arrows
3. You can select the **“Rotational Orientation”** of the motor
4. Then click **"Start”**
5. You will see the commands **sent and received** on the serial monitor.

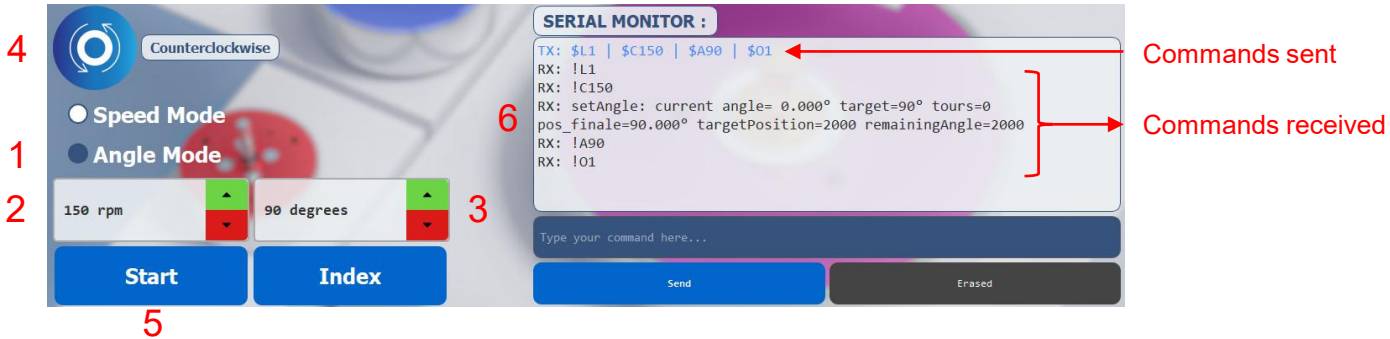


2. First use

Angle Mode

This function is dedicated to control the motor's angular displacement. The movement is relative to the motor's current position (e.g. If the motor is at 100° and you enter 90° in the input field, the motor will rotate to 190°).

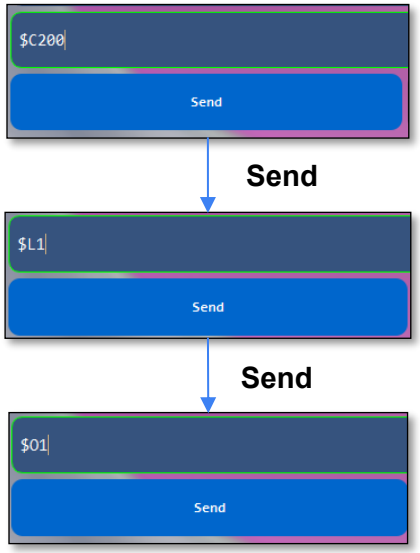
1. Select **"Angle Mode"**
2. Use the left input field to set the motor speed
3. Use the right input field to set the motor displacement
4. You can select the **"Rotational Orientation"** of the motor
5. Then click **"Start"**
6. You will see the commands **sent and received** on the serial monitor.



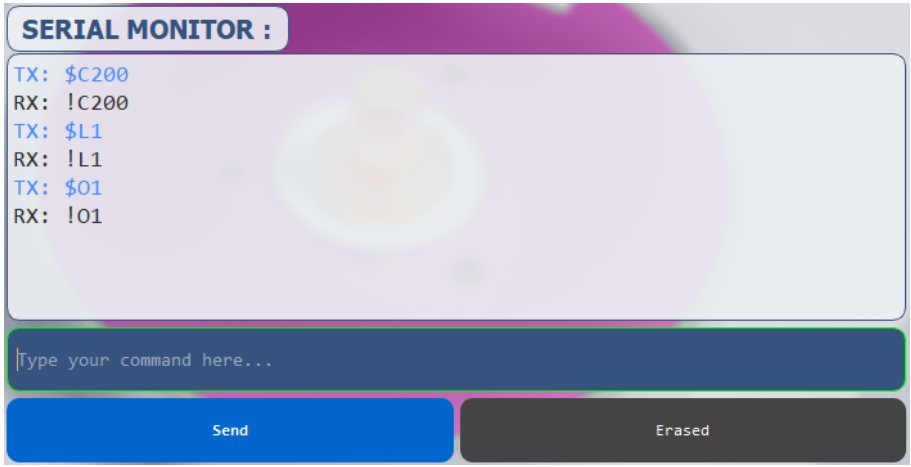
3. How to send a command

For advanced requirements, the motor can be controlled directly via the console :
e.g. To start the motor in closed-loop speed mode at 200 RPM, three separate commands must be entered. Each command must begin with the **$** symbol.

Commands sent



List of sent commands



⚠ A complete list of all available commands is provided in the Protocol Guide. ⚠

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