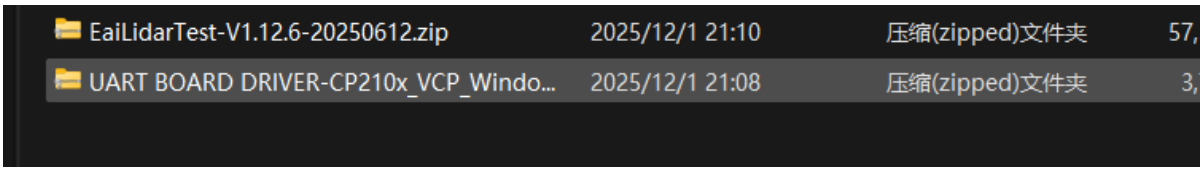
Host computer usage tutorial

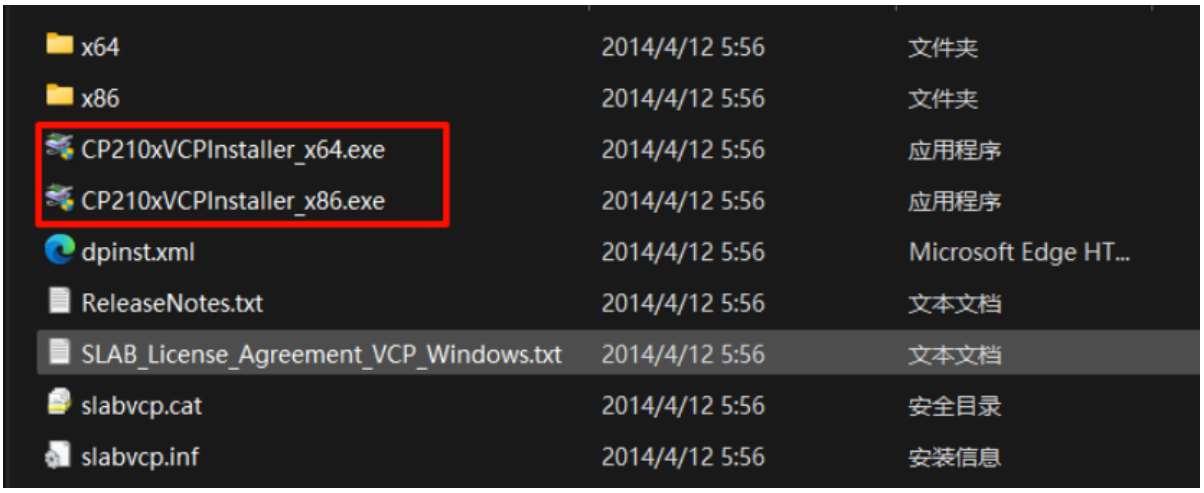
1.CP210x driver download

You can download the upper computer and driver programs we provide from the download section, or download them by yourself from the official website

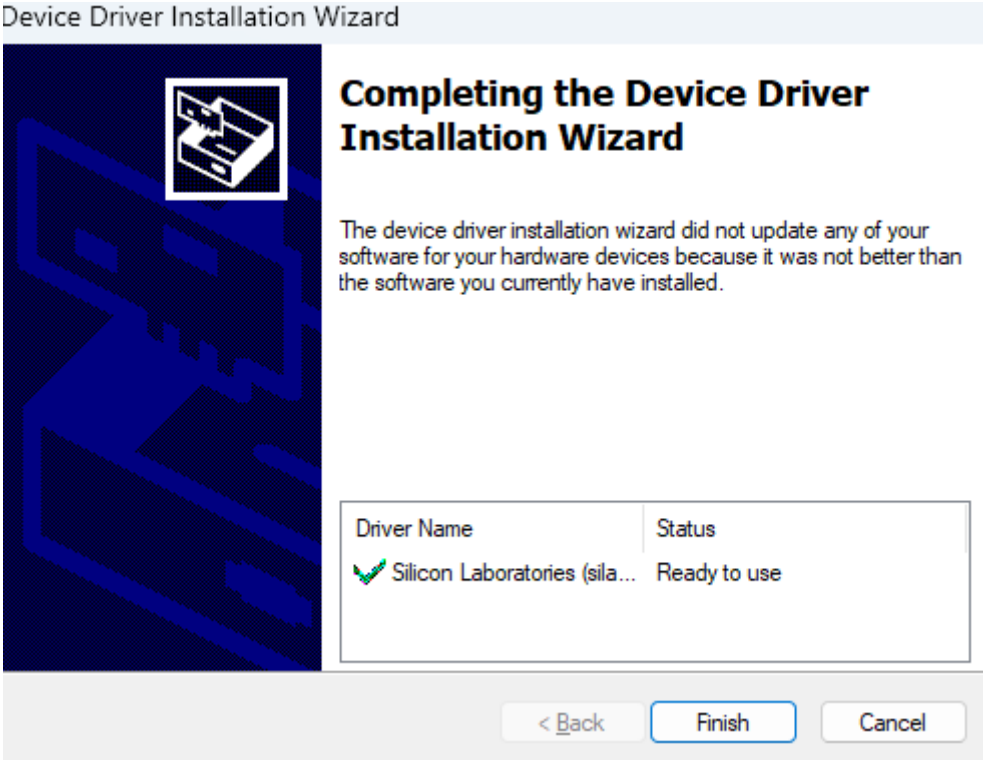
https://www.ydlidar.com/download/category/lidar-sensor



After decompressing UART BOARD DRIVER-CP210x_VCP_Windows.zip, select the installer according to your platform type. The installation process can be set to default

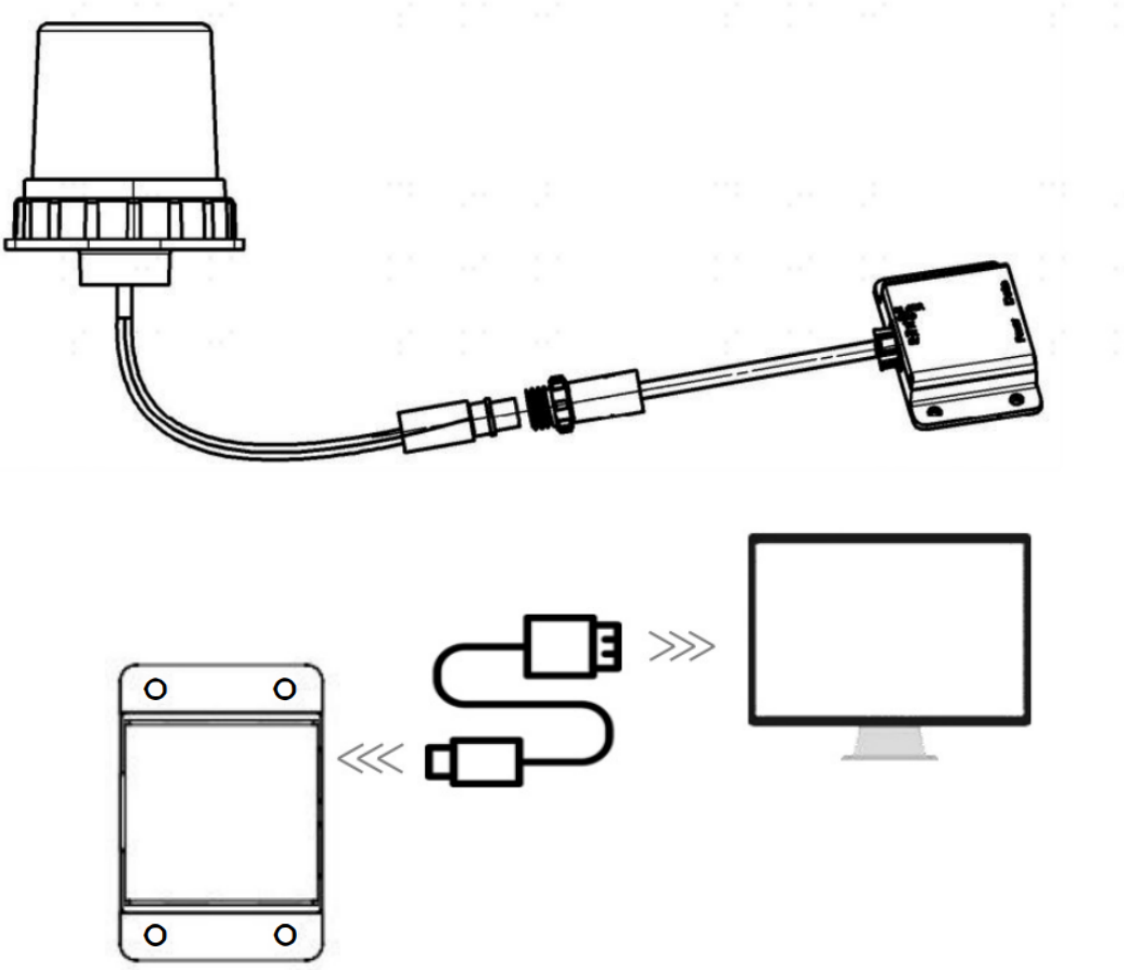


The appearance of the following interface indicates that the driver installation was successful



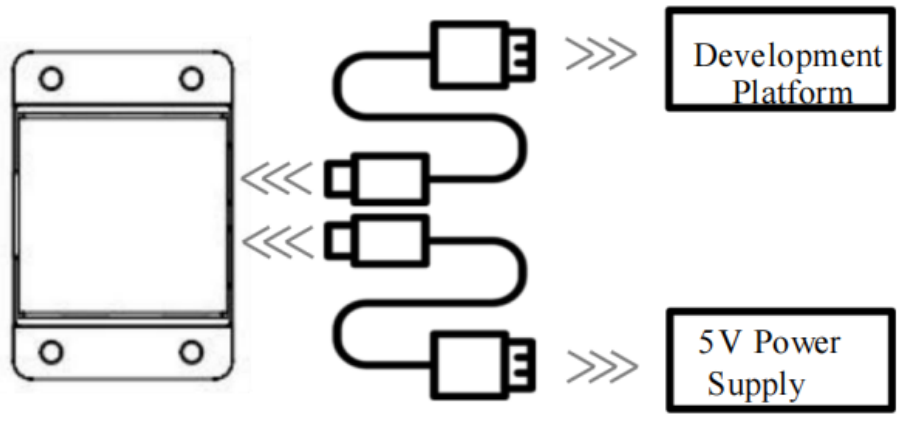
2. Connecting the Radar to Windows

When evaluating and developing the TW3 under Windows, it is necessary to interconnect the TW3 and the PC. The specific process is as follows:

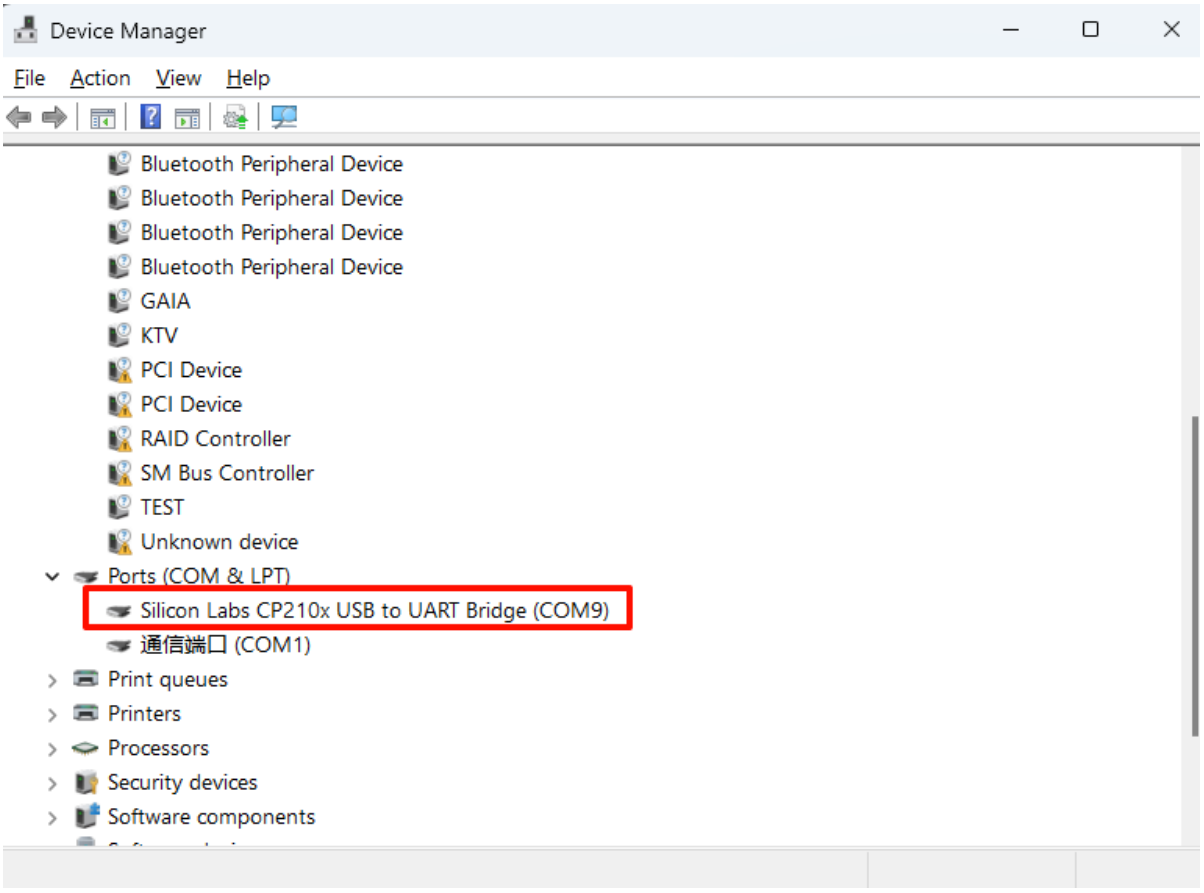


First, connect the adapter cable to the TW3. Then, connect the adapter board to the adapter board. Finally, connect the USB cable to the USB port of the adapter board and the PC. Note that the Type-C port of the USB cable should be connected to... The USB adapter board's USB_DATA is active, and the TW3 enters idle mode after power-on, but the motor does not rotate.

Some development platforms or PCs have weak drive current for their USB ports. The TW3 requires a +5V auxiliary power supply; otherwise, the radar will malfunction.

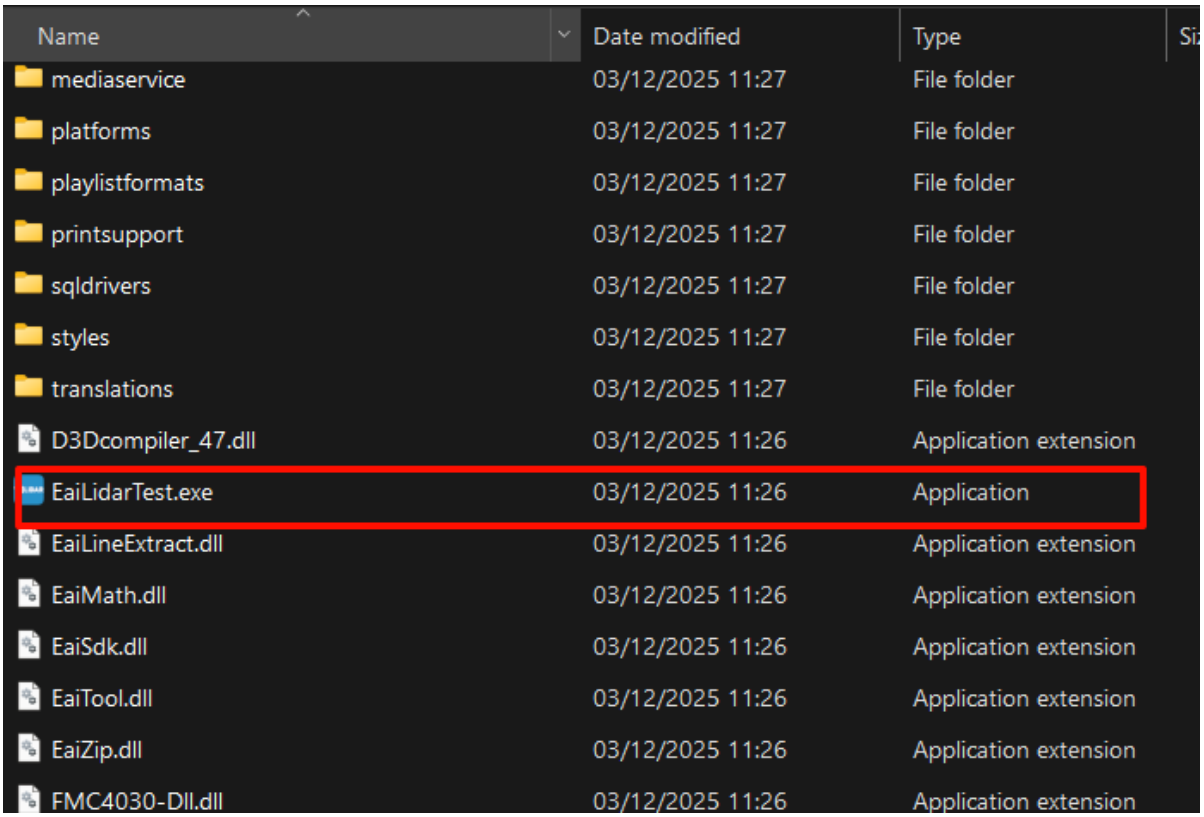


After installation, right-click on "My Computer," select "Properties," and in the "System" window, select "Device Manager" from the left menu. Expand "Ports" to see the serial port name corresponding to the recognized USB adapter, indicating successful driver installation. The image below shows COM9. (Note: Check the port when the TW3 and PC are interconnected)

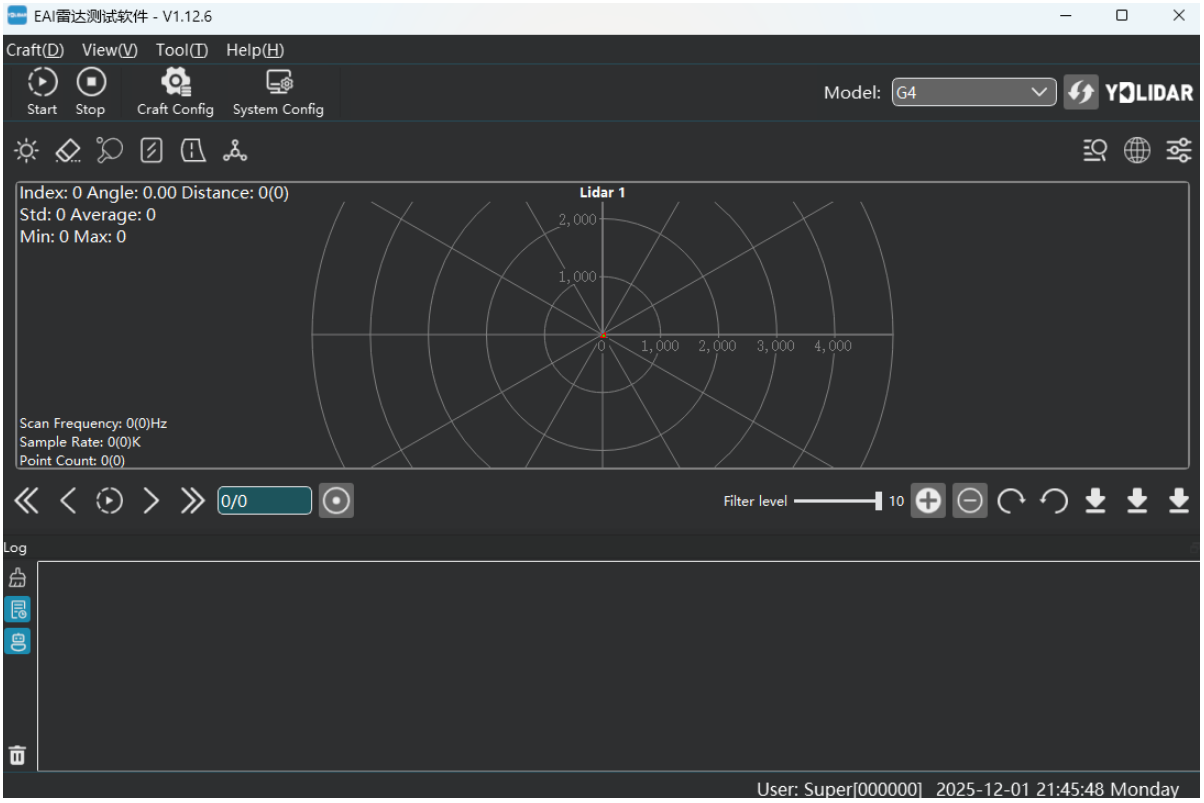


3. Connecting to the Host Computer

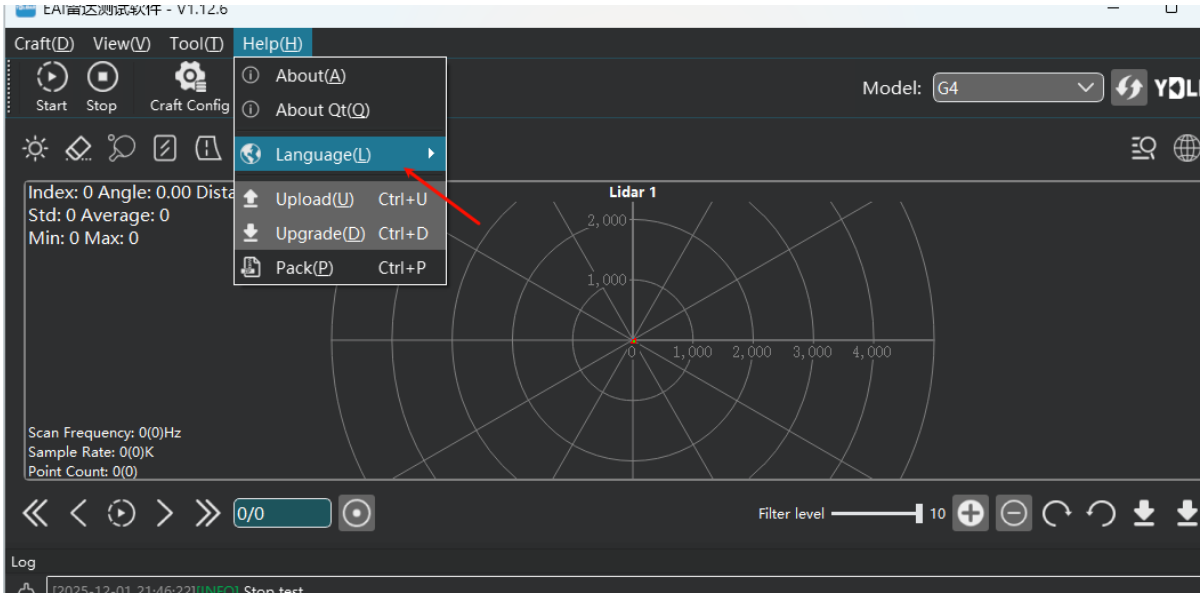
YDLIDAR provides EaiLidarTest, a radar client software for real-time TW3 point cloud data scanning. Users can use this software to visually observe the TW3's scanning results. YDLIDAR provides real-time TW3 point cloud data and real-time scanning frequency, and can also save scan data offline to external files for further analysis. Before using YDLIDAR software, ensure that the TW3's USB adapter board serial port driver is successfully installed and that the TW3 is interconnected with the PC's USB port.



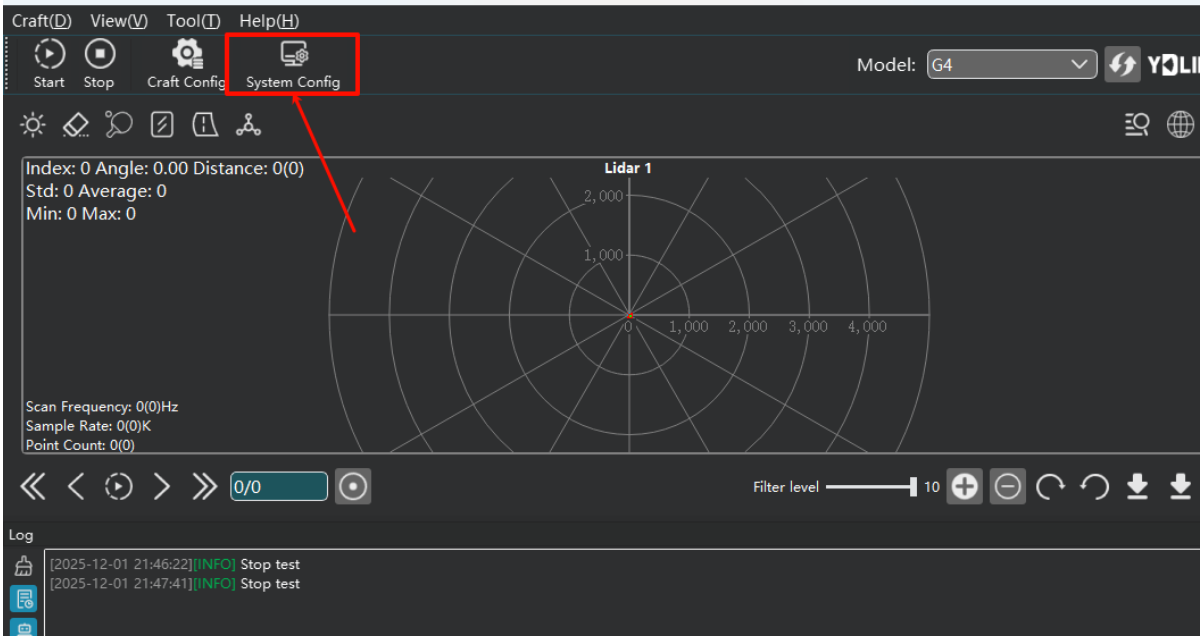
Run the client software "EaiLidarTest.exe". By default, it will automatically log in and enter the main interface, as shown in the image below.



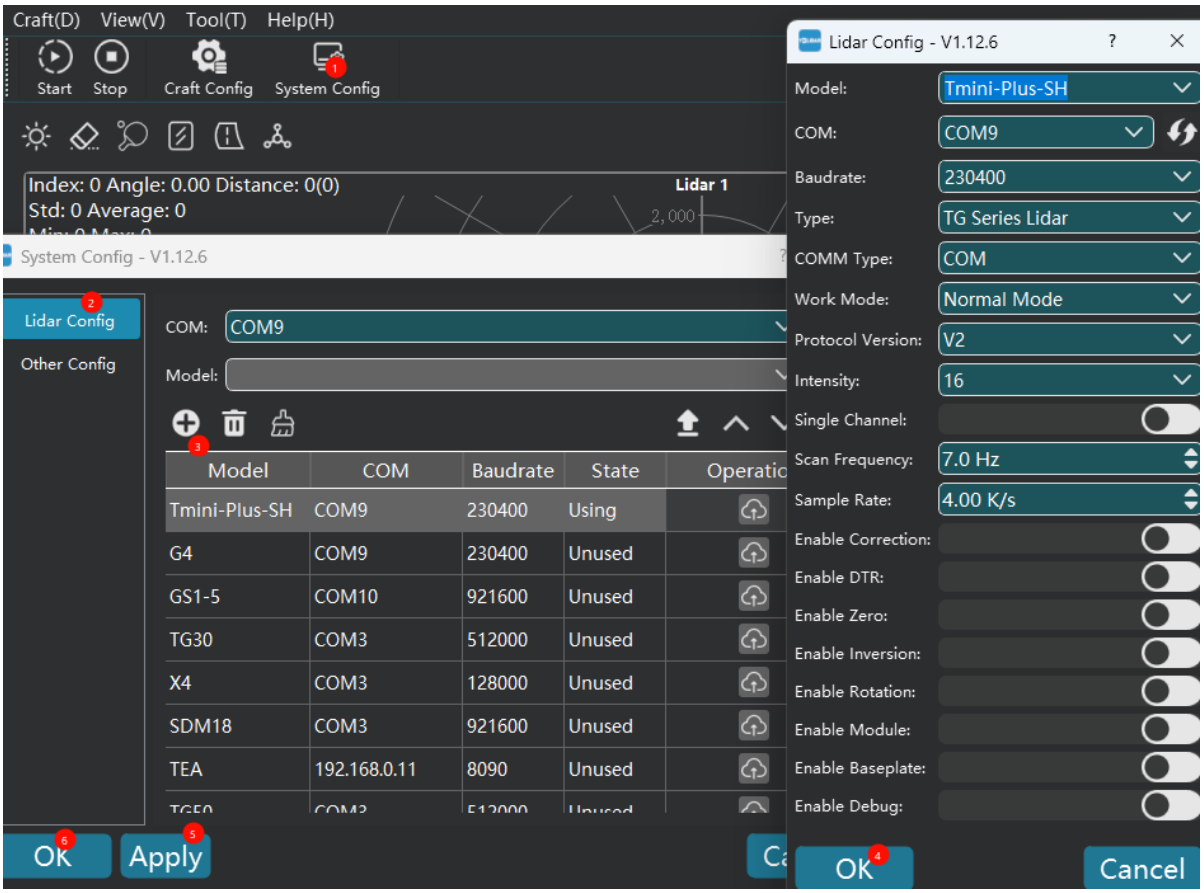
Click Help -> Language in the upper left toolbar to switch the software's language.



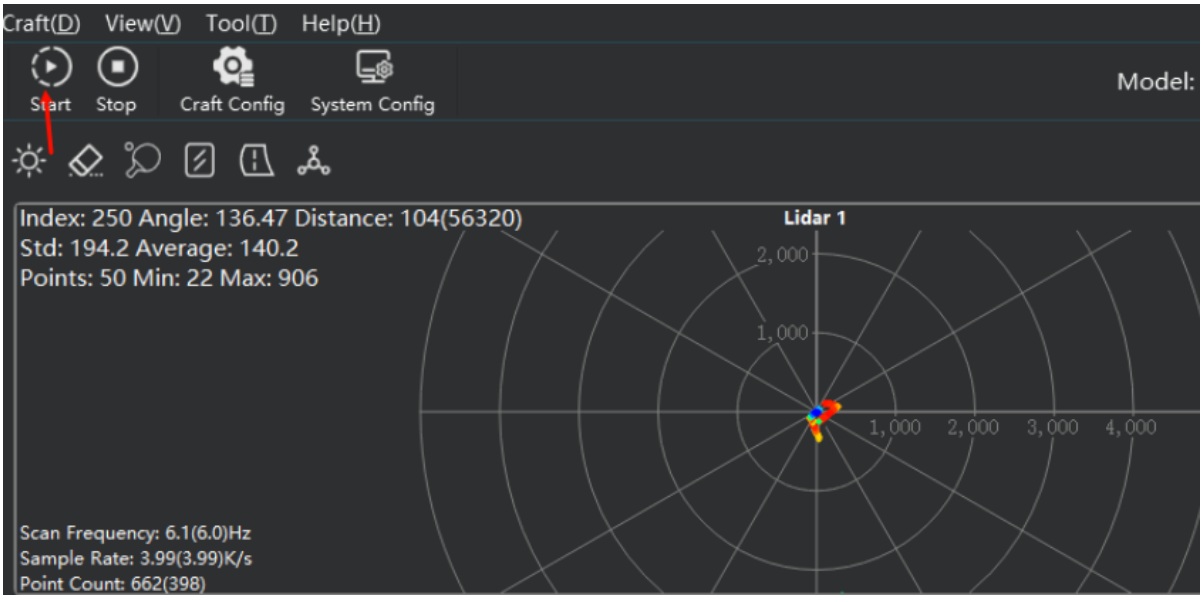
We click System Add radar configuration information.



Add the following configuration: Select the actual COM port in Device Manager, here it is COM9.



Then click Start to power on the radar.



Right-click and select "Show Intensity Map" from the pop-up menu. The intensity curve will then be displayed, as shown in the image below: