

# User Manual

## 1. CH340 Driver Installation

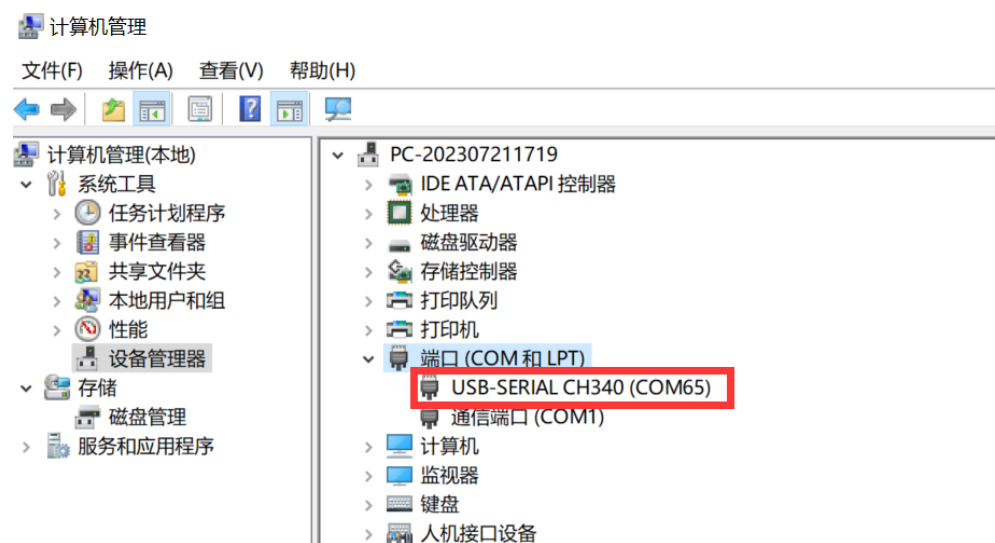
If the device is recognized as an "Unknown Device" when connected to the computer, install the CH340 driver.

Download the driver from the official website:

[https://www.wch.cn/downloads/CH341SER\\_EXE.html](https://www.wch.cn/downloads/CH341SER_EXE.html)

Follow the installation wizard to complete the setup.

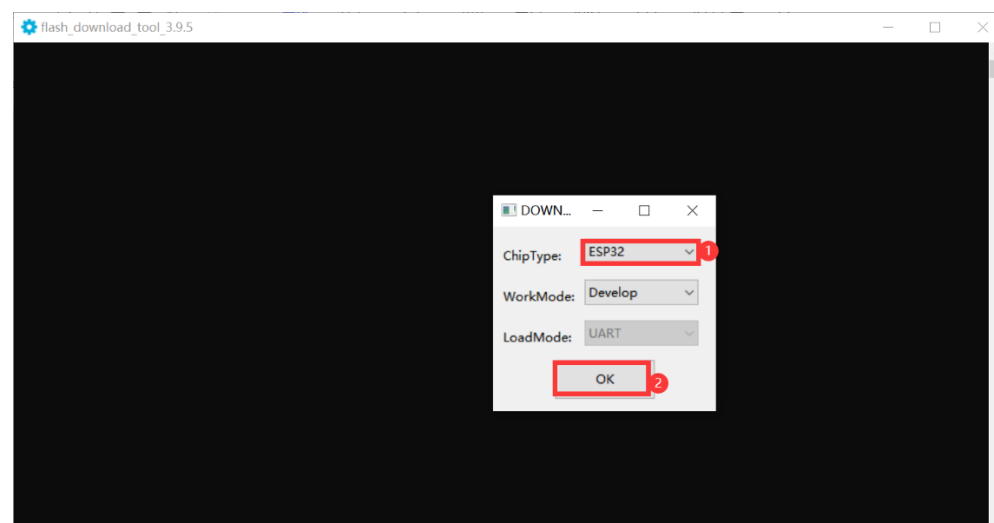
The expected device recognition status after installation is shown in the diagram.



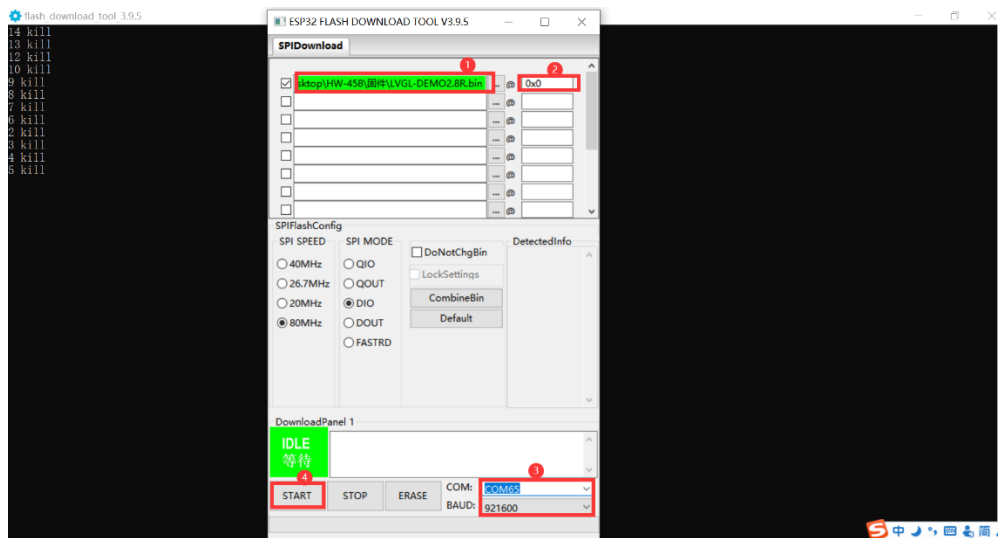
## 2. Program Flashing

Download the driver file from: <https://github.com/iUniker/HW-458>

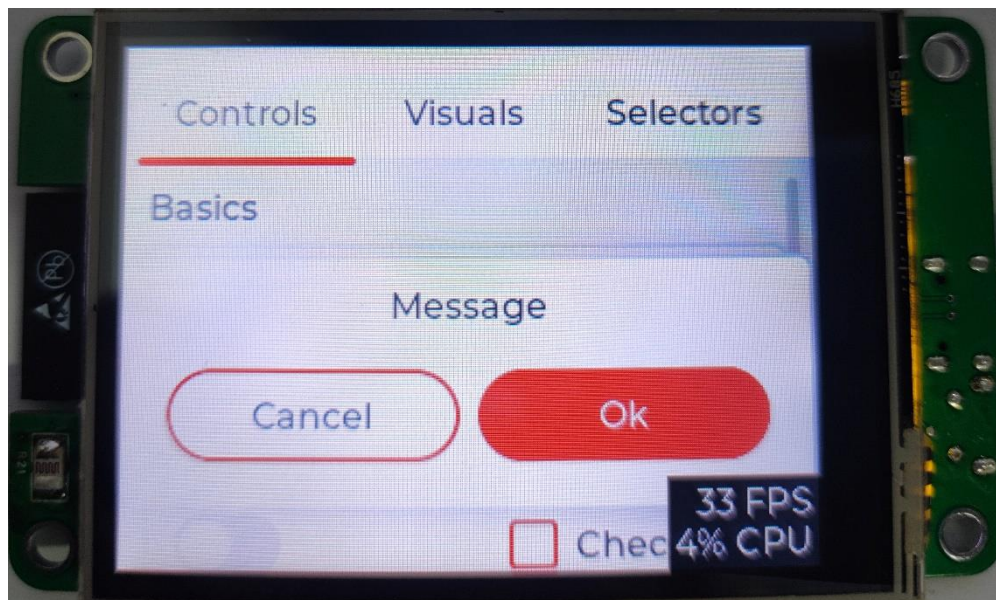
2.1.1 Download and Launch flash\_download\_tool 3.9.5, select ChipType as ESP32, and click OK.



2.1.2 Load the LVGL-DEMO2.8R.bin firmware for HW-458. Configure the parameters in the specified order (as shown in the diagram), then click START to begin flashing.



2.1.3 After flashing is complete, press the RST button or reconnect the power. The screen will display the interface shown in the diagram and become touch-responsive.



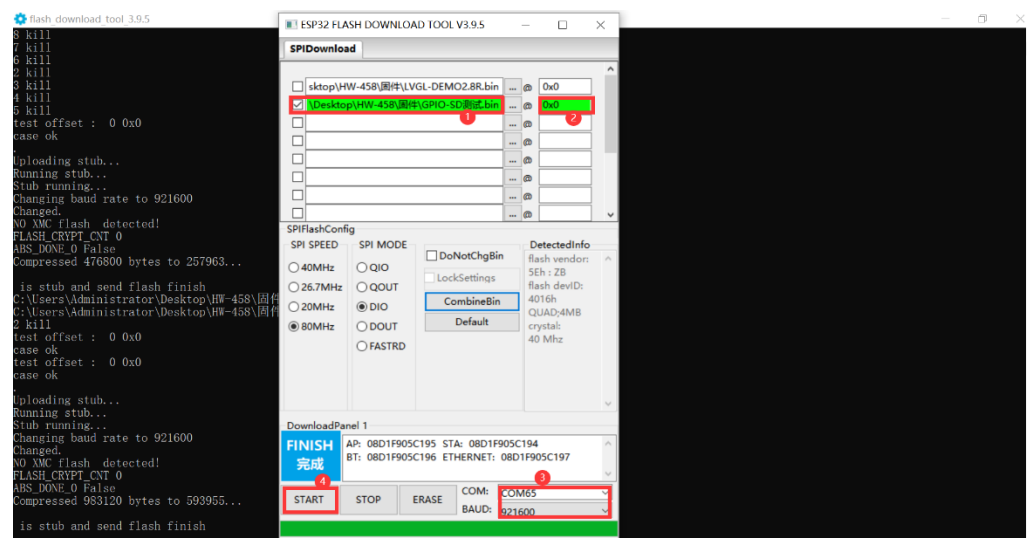
2.2.1 Flash the GPIO-SDtest.bin firmware. After flashing and resetting the module:

The RGB LED on the back will light up.

If a speaker and TF card are connected, the system will automatically play UDISK\_ADV.MP3.

Note: To use this firmware, rename your MP3 file to UDISK\_ADV (file extension must be .MP3, as shown in the diagram).

Diagrams referenced in the steps are provided separately for visual guidance.

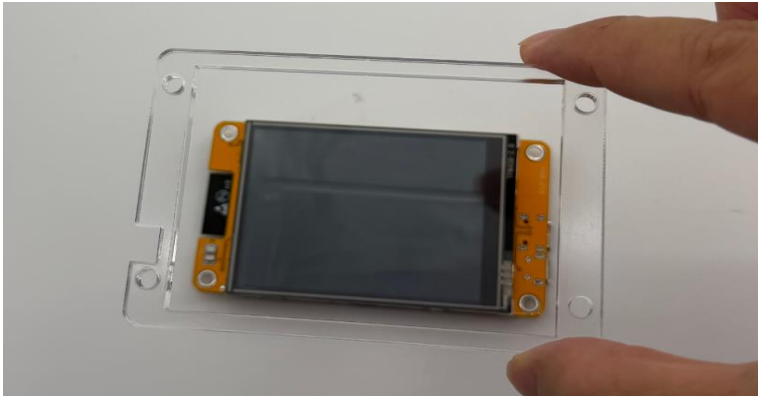


How to install the Case?

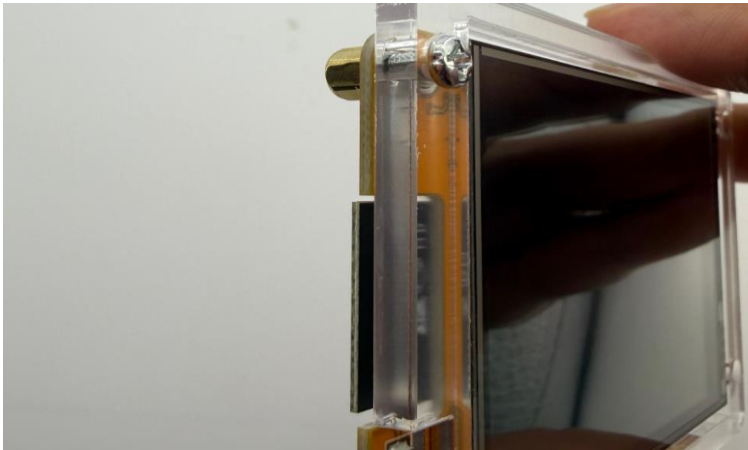
1. Peel off the protective film on both sides of the two acrylic casings.



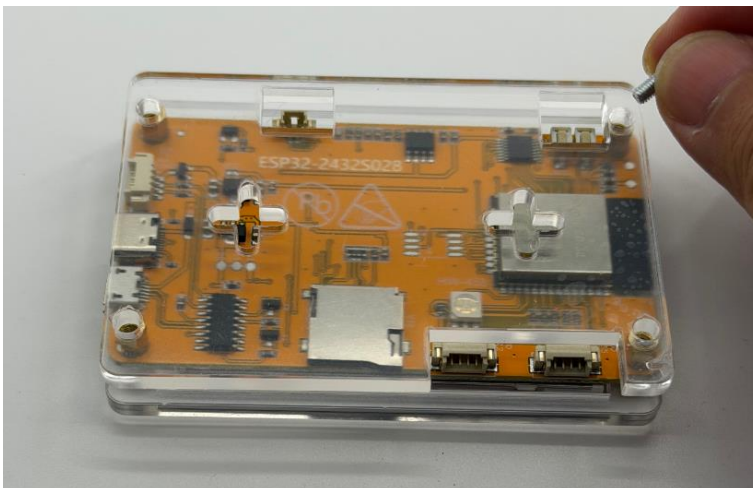
2. Place the **acrylic shell** onto the **screen** as shown in the **picture**, and **align the screw holes**.



3. Use the **M3x7 screws**(the **longer** ones) and the **M3x5 brass standoffs** to secure the **acrylic shell** to the **screen** at the **four corners**, as shown in the **picture**.



4. Place the **acrylic backplate** as shown in the **picture**, then secure the **four corners** with **M3x6 screws**(the **shorter** ones) to **complete the installation**.



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If you have any questions, please feel free to contact us.