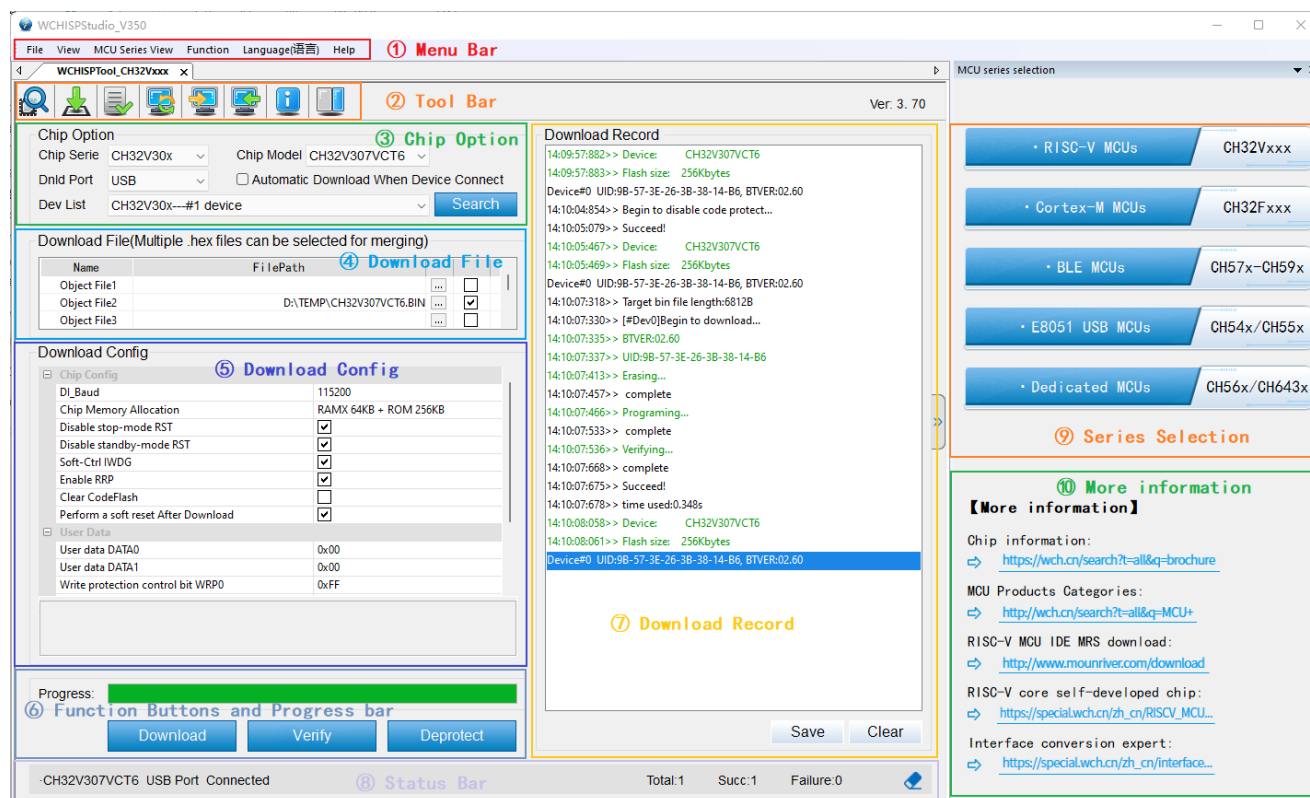# WCHISPStudio Instruction

1. Detailed explanation of software features

1.1 Software interface distribution
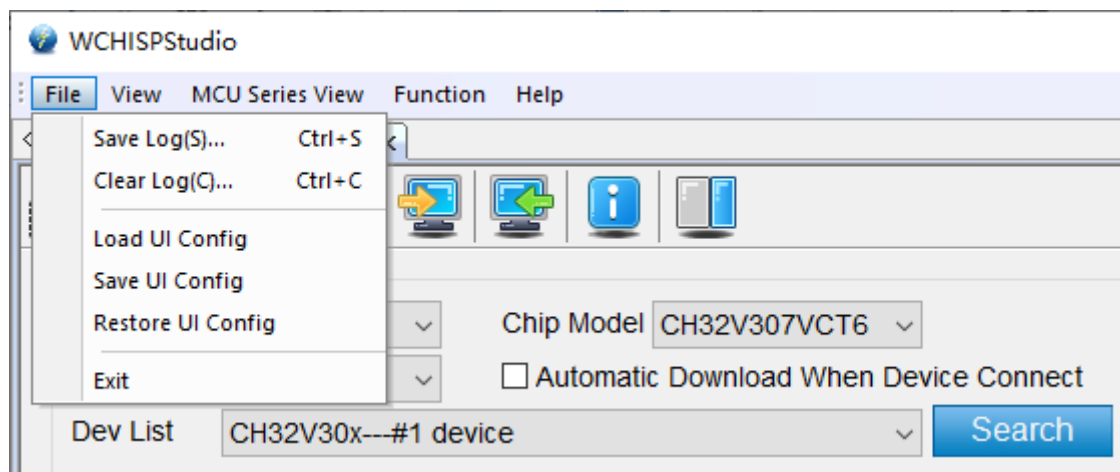

The software contains functional areas are as shown above:

① Menu bar : List of software menus.

② Toolbar : Icon software toolbar.

③ Select chip : Chip information selection and display.

④ The file of download : The area of target program file and DataFlash file ,and the software can automatically concatenate 1 to 5 hex file.

⑤ The configuration about download : The information of chip configuration,you can change the configuration as required.

⑥ Function buttons and progress bars : The area that display function buttons and progress completed.

⑦ The record of download : Display the information of download or verification ,which can be saved or cleared.

⑧ Status bar : Display the information of device connection and the counting information of download.

⑨ Series selection : Click the Different Series button to bring up the corresponding operation interface of the series.

⑩ More information : Extensibility materials.

1.2 Menu bar function

The menu bar has five items: File, View, MCU Series View,Functions, and Help. The sub-menu bar functions of each item are as follows.
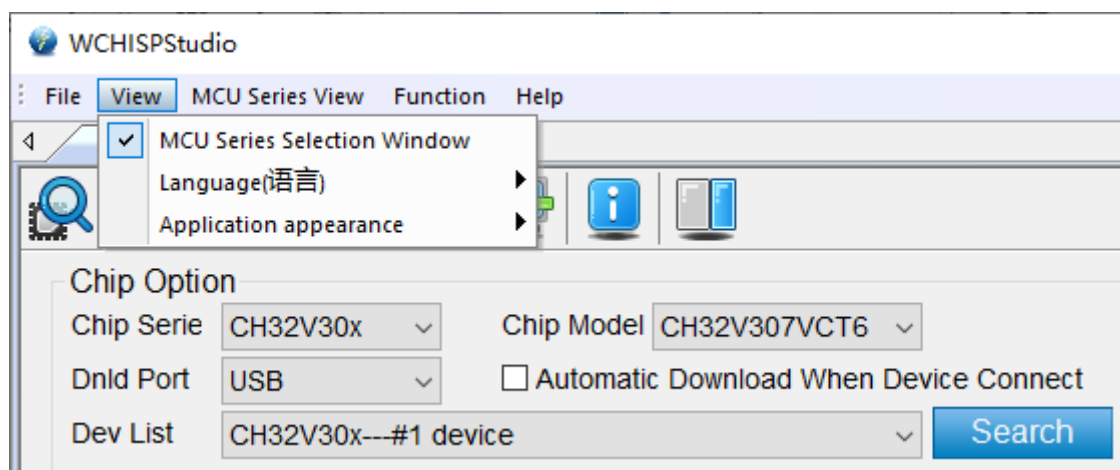

File——>Save Log.Save the log information generated during the download or verification operation, whose function is consistent with the save button Save in ⑦.

File ——>Clear Log.Clear the log information generated during the download or verification operation, whose function is consistent with the clear button Clear in ⑦.

File ——>Load UI Config. After importing the configuration information of the fixed model, selecting the configuration file and importing the configuration, the software will automatically switches to the model in the configuration file and its corresponding configuration information, including the download interface, file selection, download configuration, etc, whose function is consistent with the import interface configuration 🖥 in ②.

File ——>Save UI Config.Save the current interface model and its corresponding configuration information, including download interface, file selection, download configuration, etc, whose function is consistent with the export interface configuration 🖥 in ②.
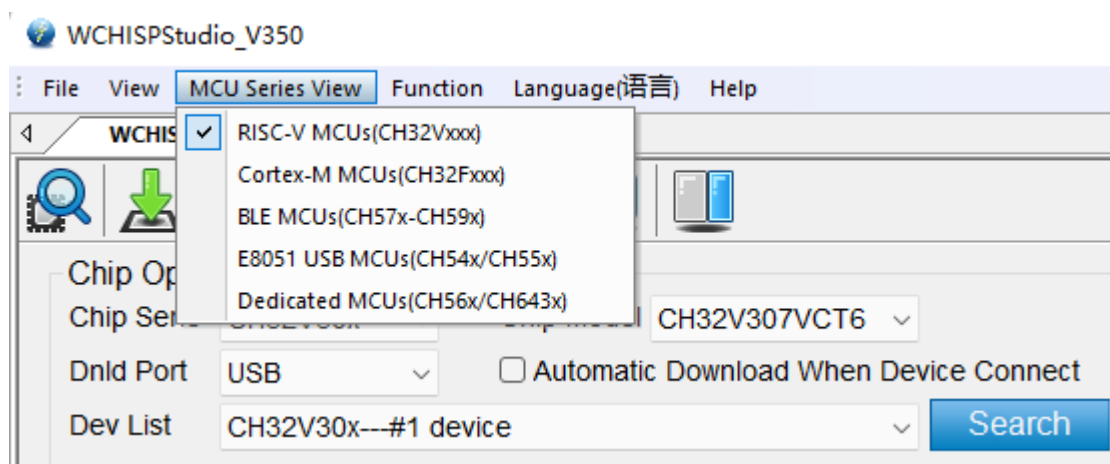
File ——>Restore UI Config.Restore all configurations of the interface to the initialized state, whose function is consistent with the restore default configuration 🖥 in ②.
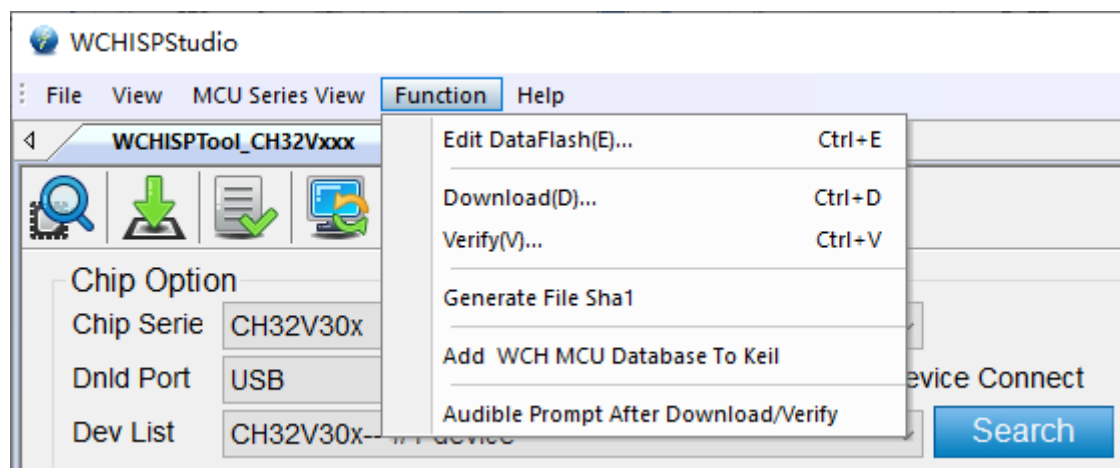

View——>MCU Series Selection Window. That is, select whether to display the MCU series selection window on the right, whose function is consistent with the Show or hide the MCU series selection window ▯▯ in ② and » in ⑦.
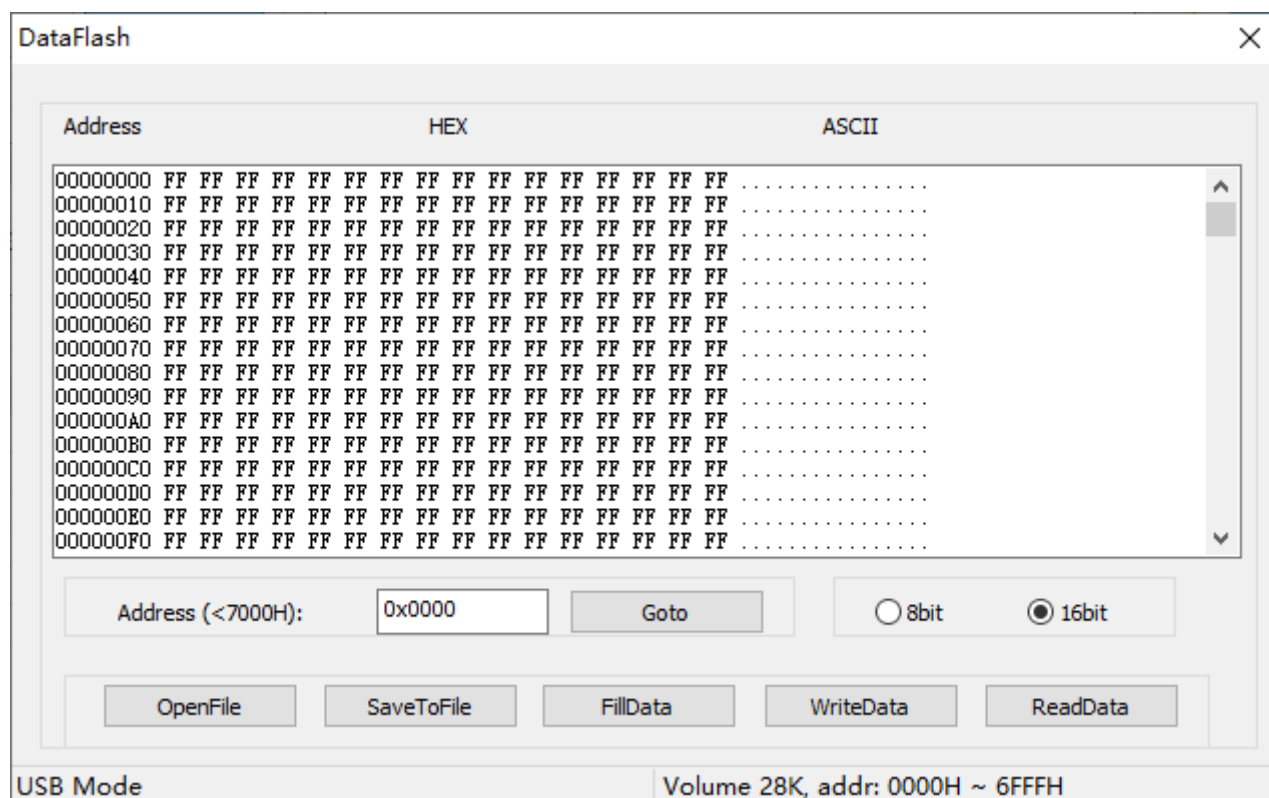
View ——>Language.Switch between Chinese and English.

View——>Application appearance. That is, select the interface frame style.

MCU Series View——> Consistent with the function of ⑨, open the corresponding operation interface of different series.

Function ——>Edit DataFlash .The interface for editing DataFlash is shown below(CH32Vxxx and CH32Fxxx are not supported).
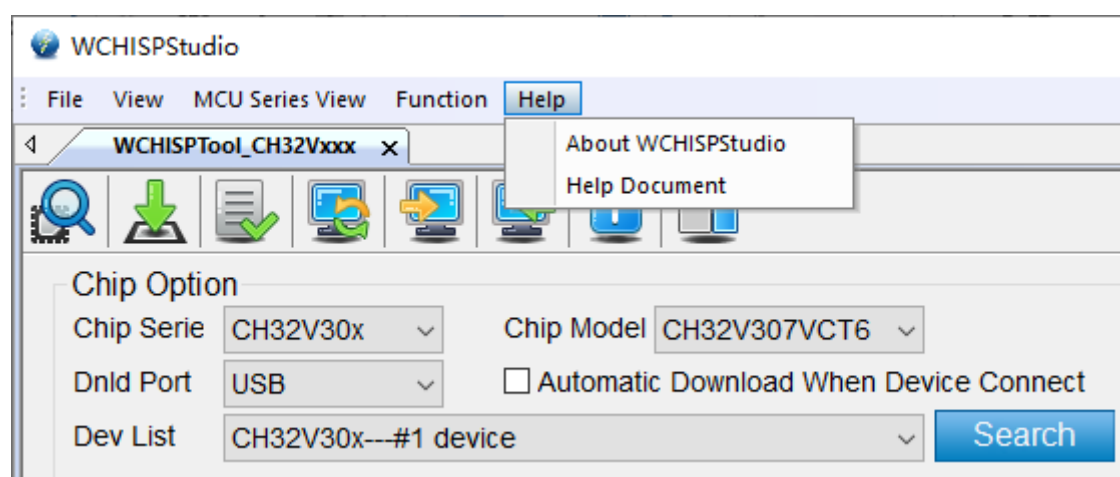
Function ——>Download.Download the selected file to the device, whose function is consistent with the download button [icon] in ② and download button [Download] in ⑥.

Function ——>Verify.Verify that the selected file matches what was downloaded on the device , whose function is consistent with the download button [icon] in ② and download button [Verify] in ⑥.

Function ——>Generate File Sha1.Generate the file SHA1 code.

Function ——>Add WCH MCU Database To Keil.

Function ——>Audible Prompt After Download/verify.

Help ——>About WCHISPStudio.Displays the version number and copyright.

Help ——>Help Document.Click to jump to the help documentation for the software.

1.3 Main interface function

In addition to the functions mentioned above, the main interface has the following function buttons:

Search device [icon] in ② - After selecting the download interface, you can click the search device to search, and the searched device can be viewed in the device list, whose function is consistent with the the search function button [Search] in ③.

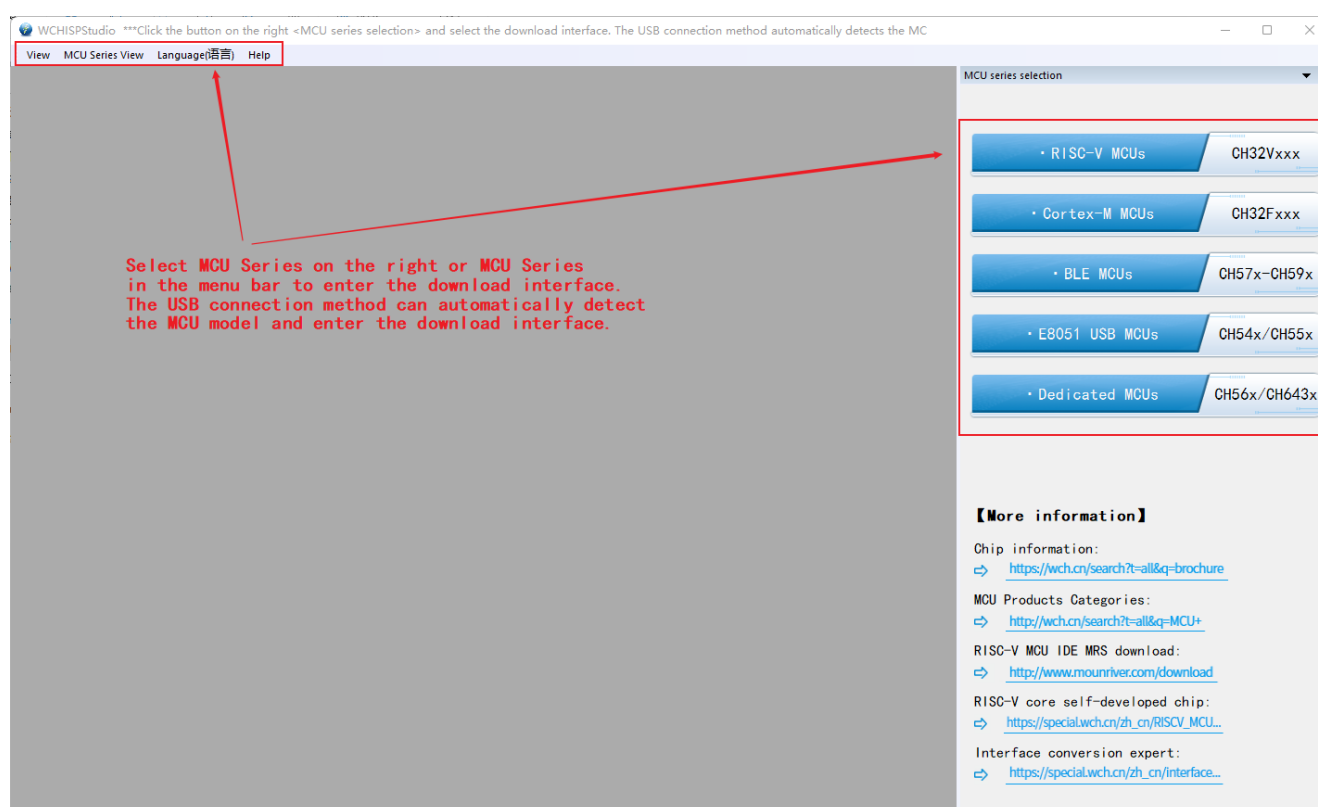Disable read protection [Deprotect] in ⑥ - Disable read protection.

The clear button [icon] in ⑧ - clear the download count information in the status bar.
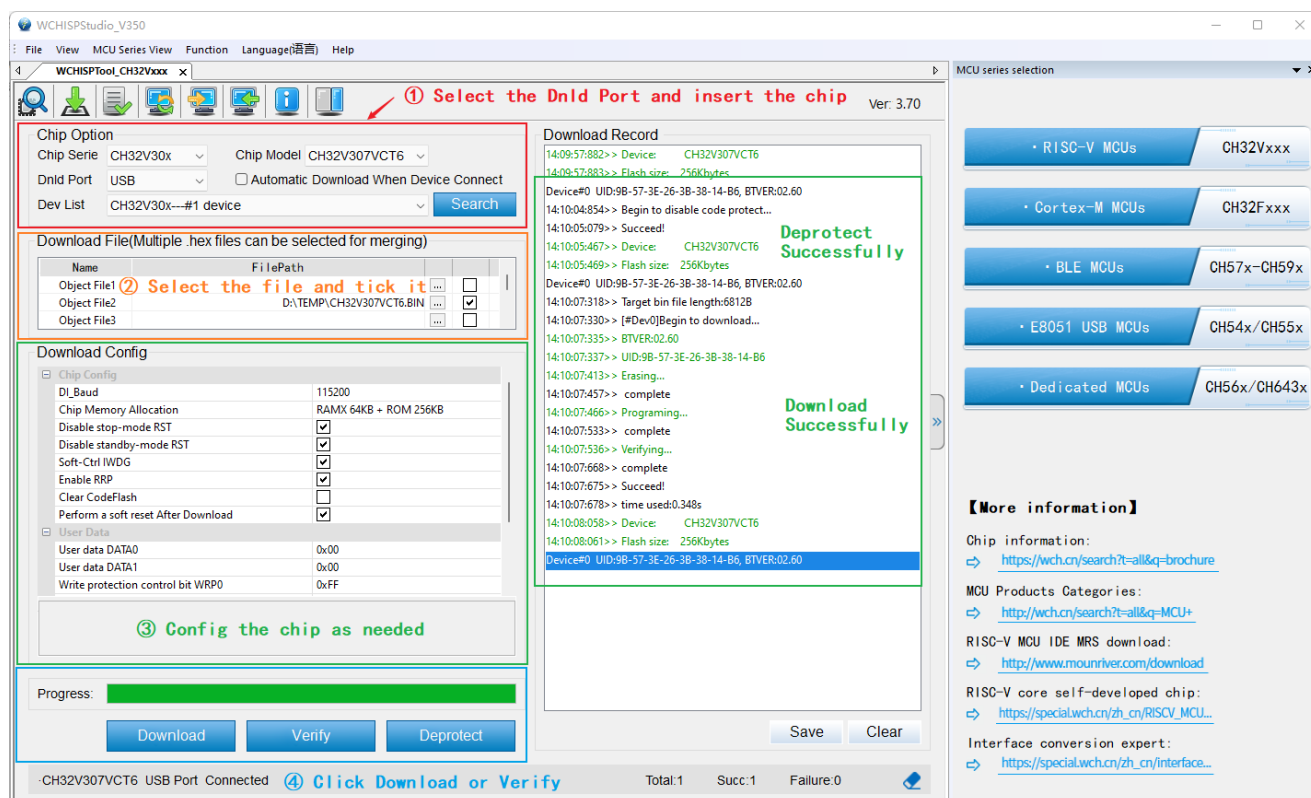
2. Instructions for the steps

2.1 Interface download and verify

The procedure is shown below (Select USB as the download interface).

Select the MCU series or connect to a USB device, using CH32Vxxx as an example:

After entering the download interface, perform the following operations:

Note: The user program file can choose bin file or hex file, hex file can choose 5 for splicing, bin file can only choose 1, can not select hex file and bin file at the same time.

2.2 Runtime

Win7/Win8/Win10/Win11 x86/x64

2.3 Technical support

If you need technical support and other need for CPU based Windows versions, please send an email to:tech@wch.cn