14 HMI settings

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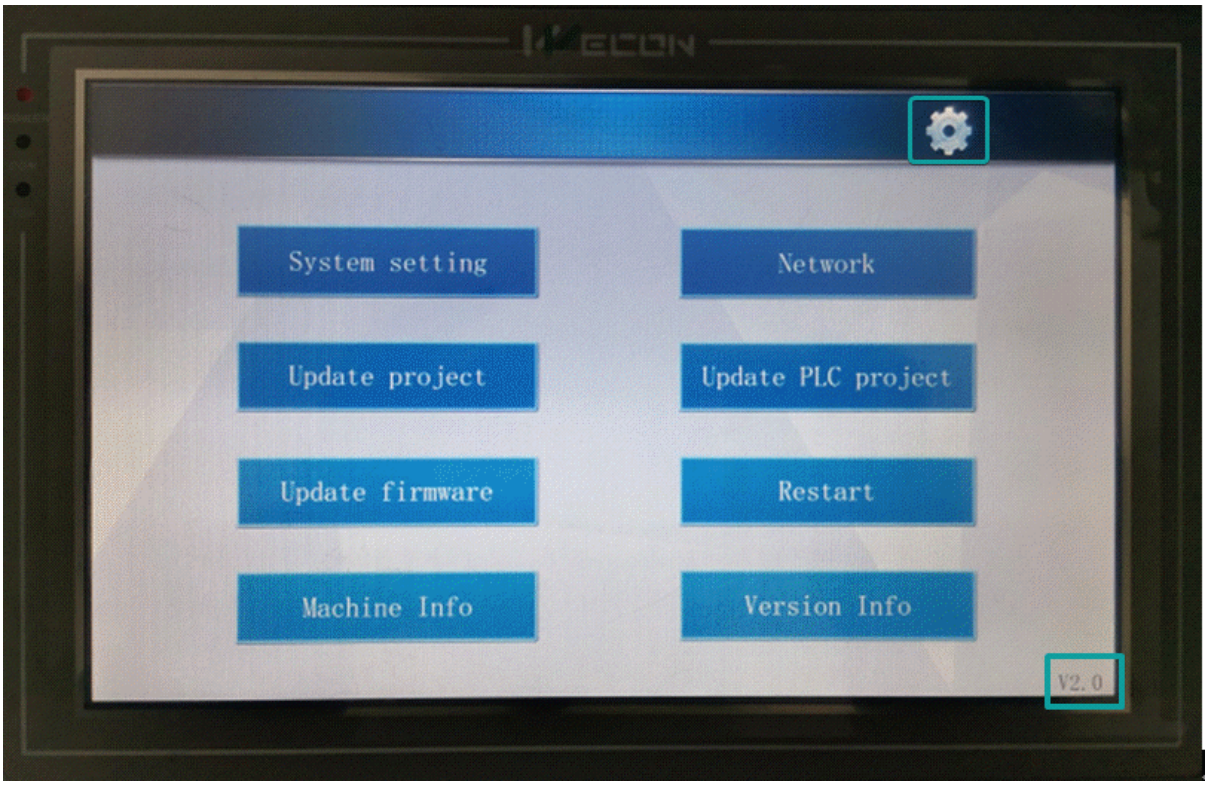
This chapter will introduce some of the other things of the PI series HMI.

Setup menu

Setup menu is used for settings HMI system when HMI is running. Such as communication parameters, real time clock, and other functions.

The setup menu interface of V2.0 (in the bottom right corner) version is shown in the below.



Press the upper right corner to set the displayed language. The default display language of the background system will be associated with the display language type of the software during project editing.

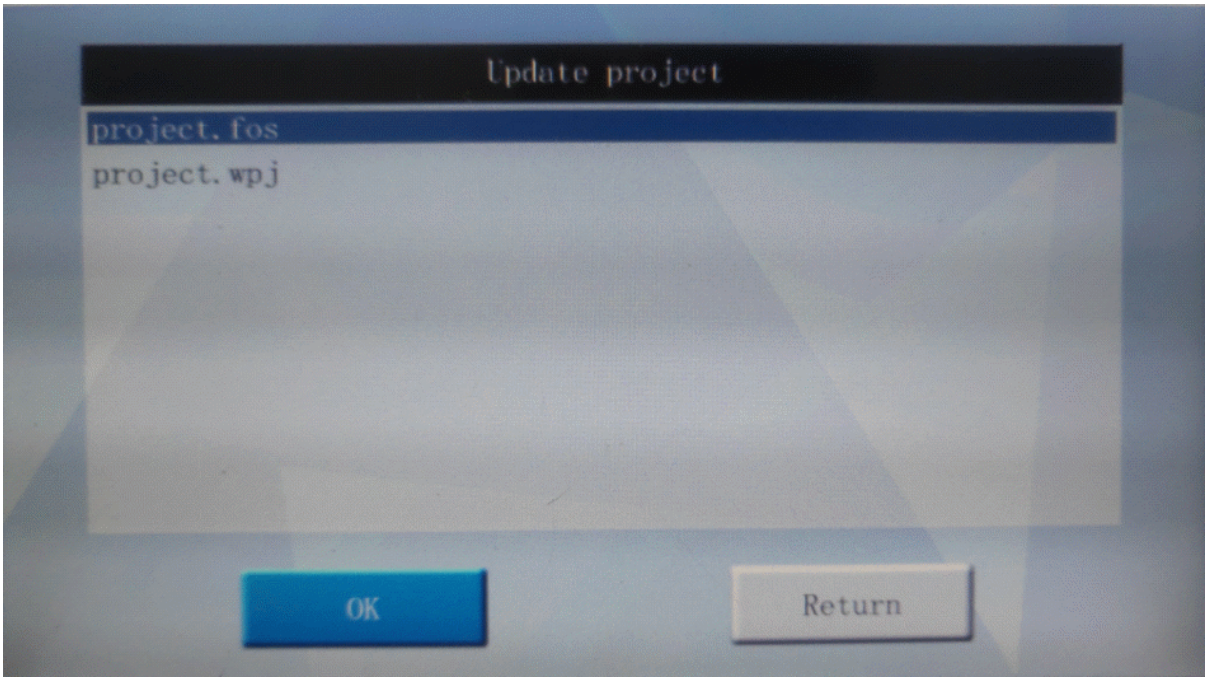
1. If the software is displayed in Chinese, then the system default language is simplified Chinese and could be switch to English.
2. If the software is displayed in another language , then the system default language is English and couldn't be switch to English.

Update Project/Firmware

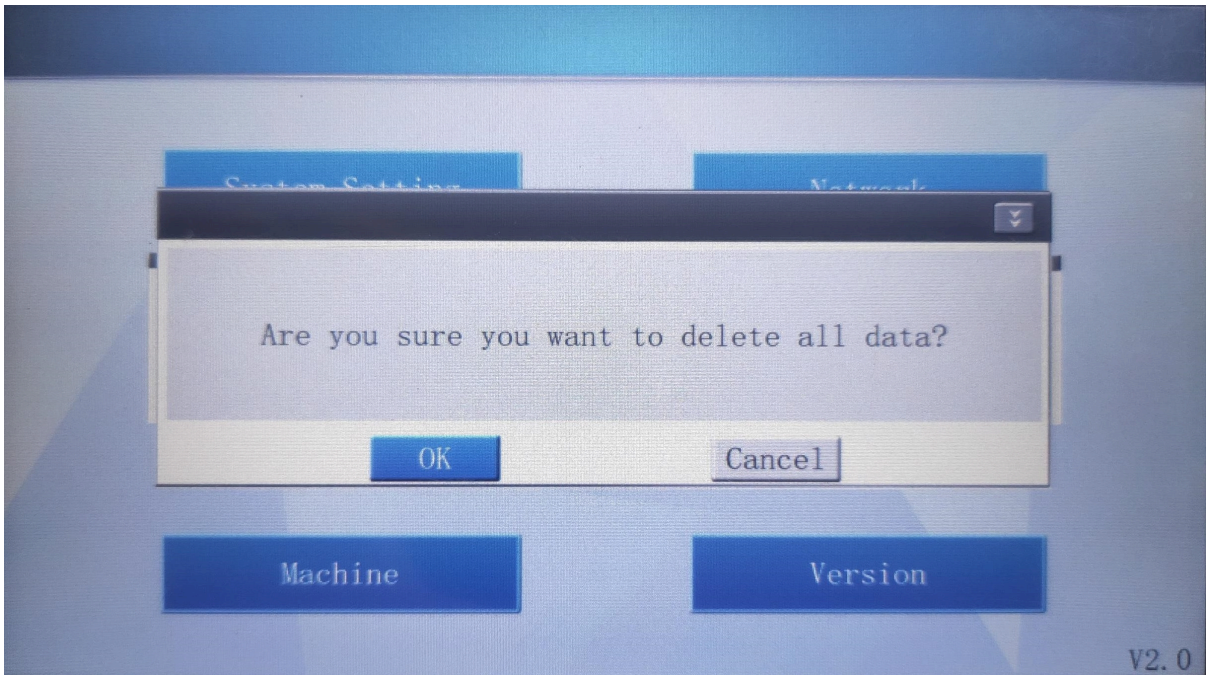
Those functions are used for update HMI project or firmware via USB flash disk.

Operating procedures

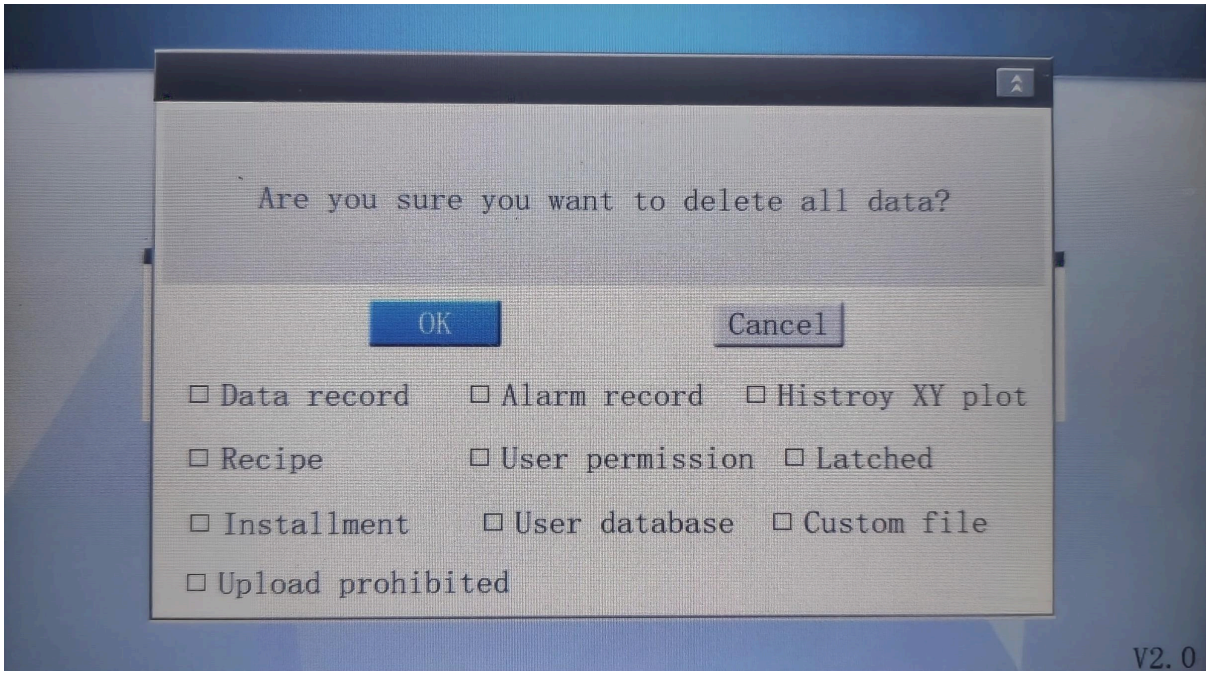
1. Generate the project file (firmware) in the u disk first.
2. Select "Update project" as the figure above, and pop-up a screen as the figure below. It displays all the projects in the Udisk. (file with the suffixes ".fos" and ".wpj"). The files with the suffix of "fos" is created by old software, and the file with the suffix of "wpj" is supported by V2.0 (user-defined file names are supported).



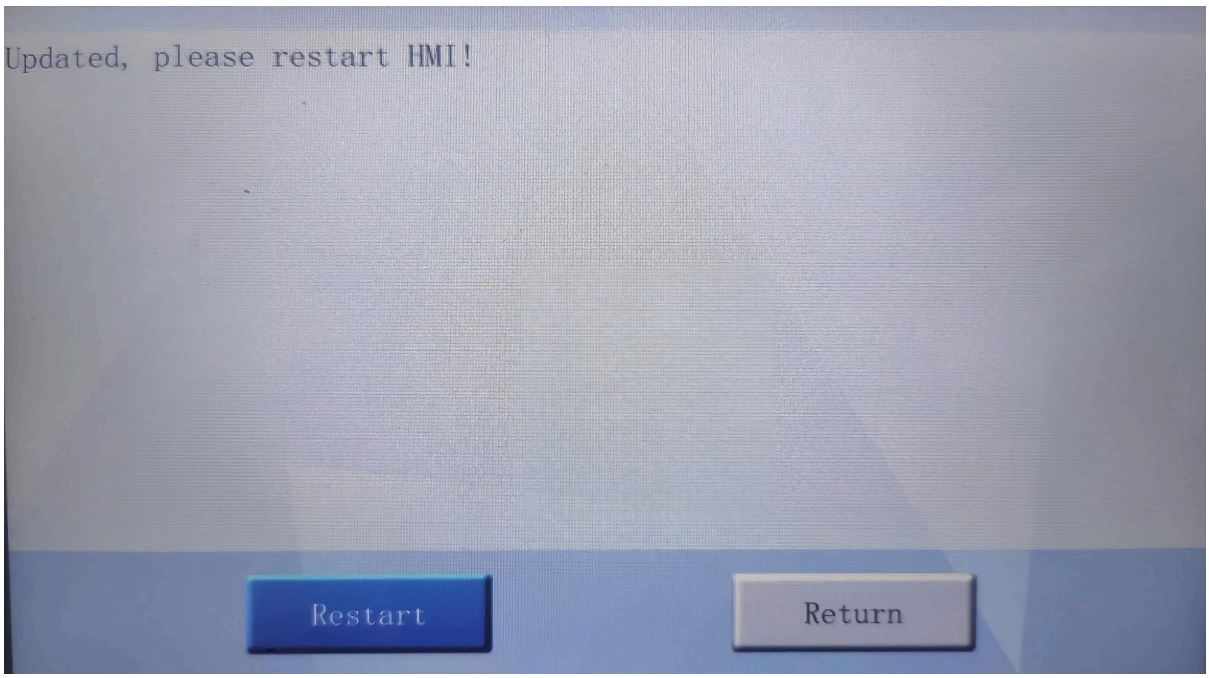
1. After selecting a project file, the following interface will pop up: Select whether to retain the parameters of the original project in the HMI when downloading the new project (by default, all will be deleted).



1. User could select according to the "Extensions" on the upper right corner of the option box (as shown in the figure below), and retain some configuration files of the original project (please choose carefully as needed to avoid error in application).

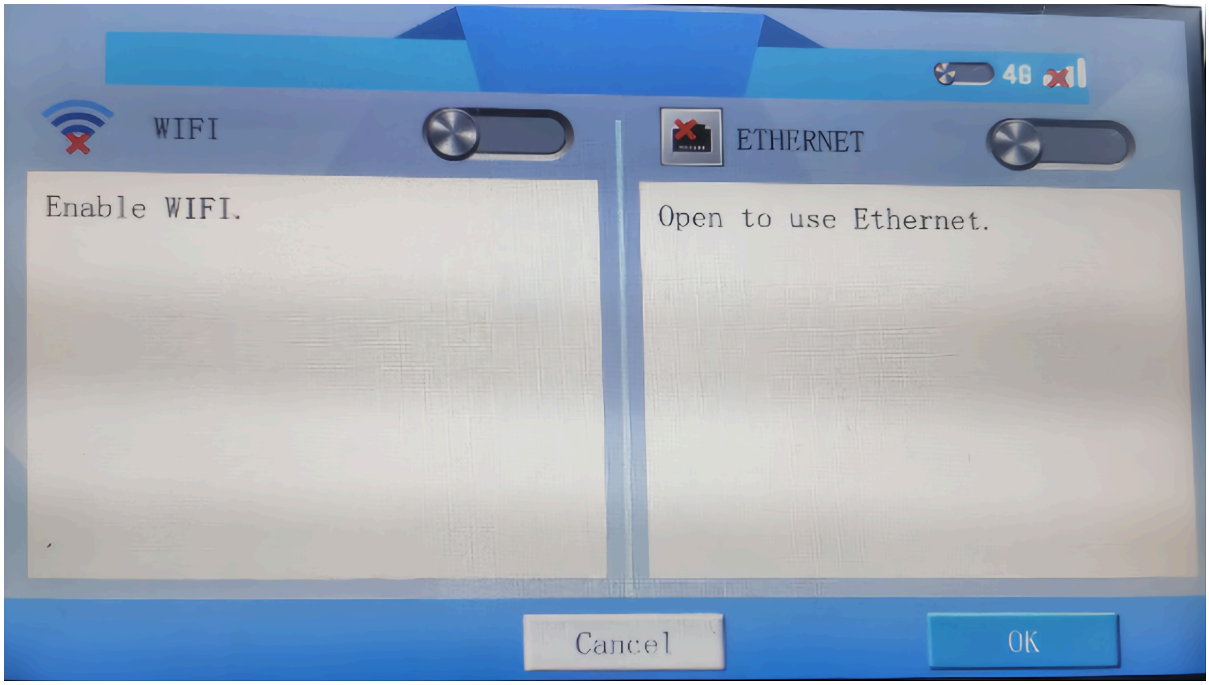


1. Click "OKClick "" to delete unchecked item. Click Cancel to retain all data.
2. After downloading project successfully, the following prompt will appear.



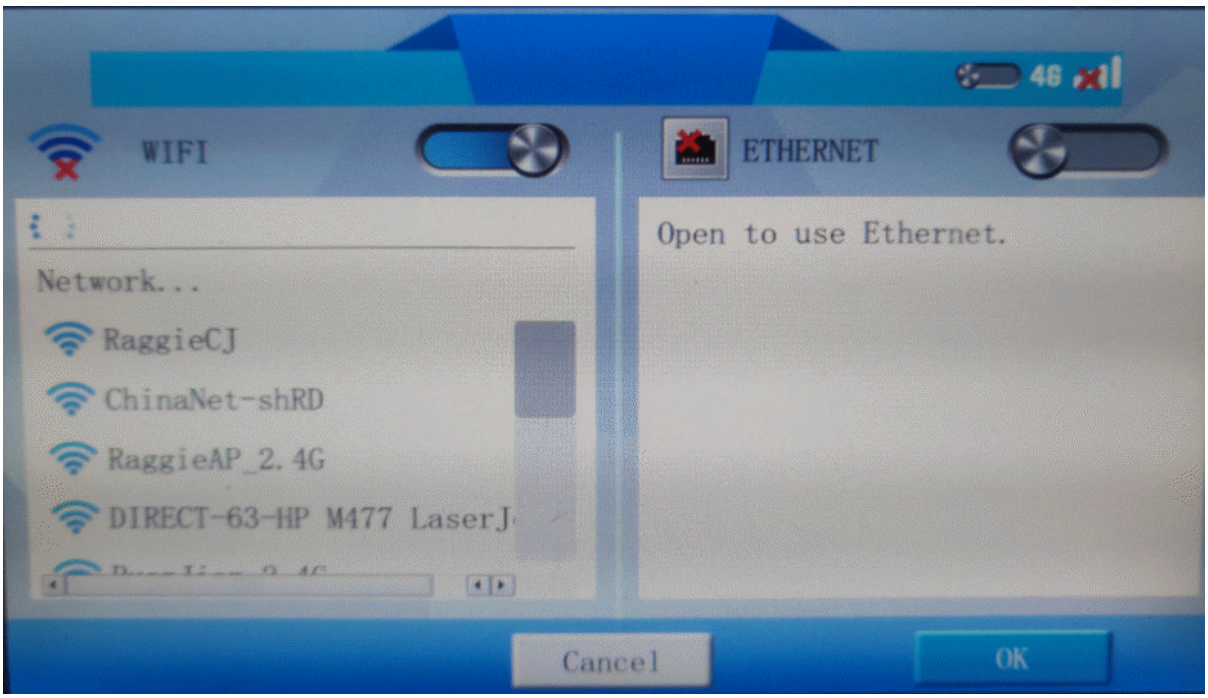
Configure network

The network is used for setting and checking the network state of the HMI. All PI series HMI support Ethernet and WIFI (WIFI requires specified USB WIFI device). Click "network" in menu screen to access network configuration interface as below.

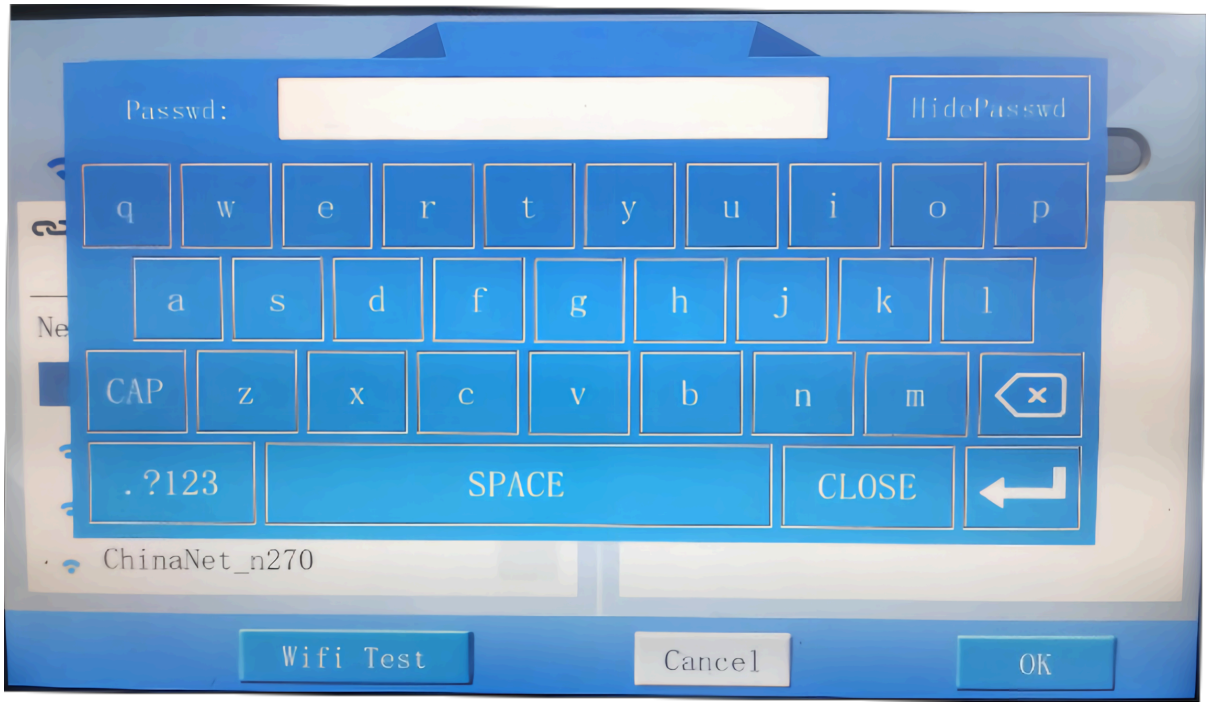


WIFI

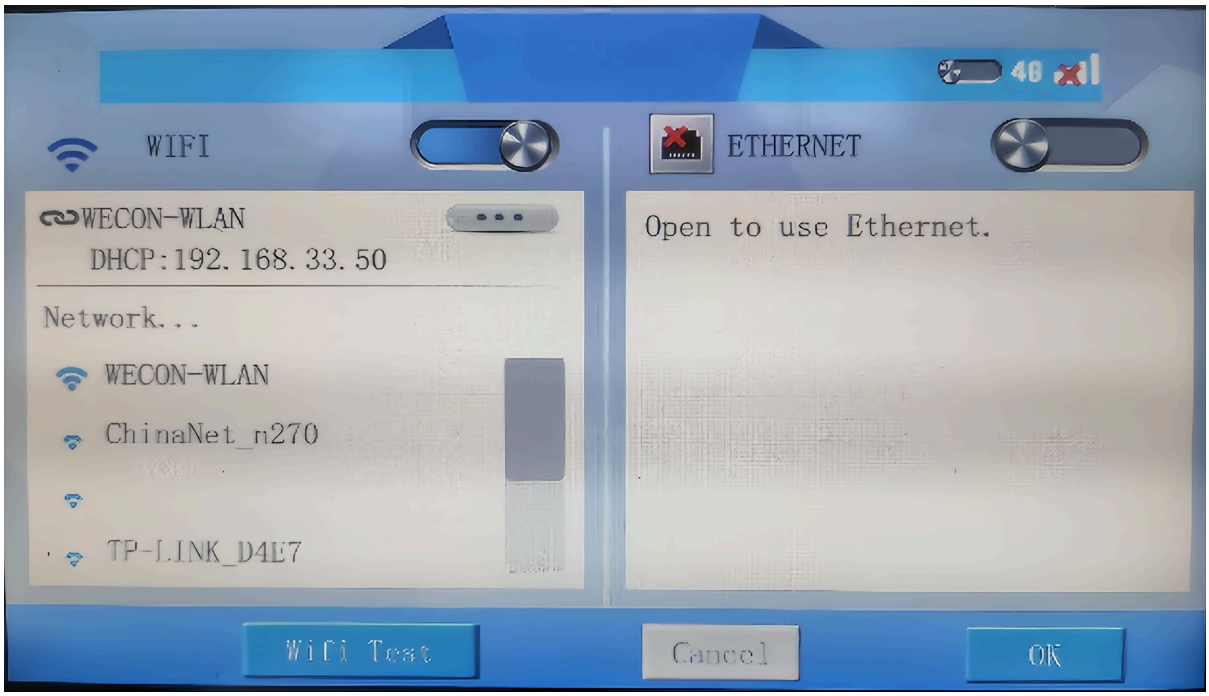
1. Enable the "WIFI" function, the HMI will search for WIFI signals as shown below.



2. Select a WIFI, it will pop up a keyboard to input password.

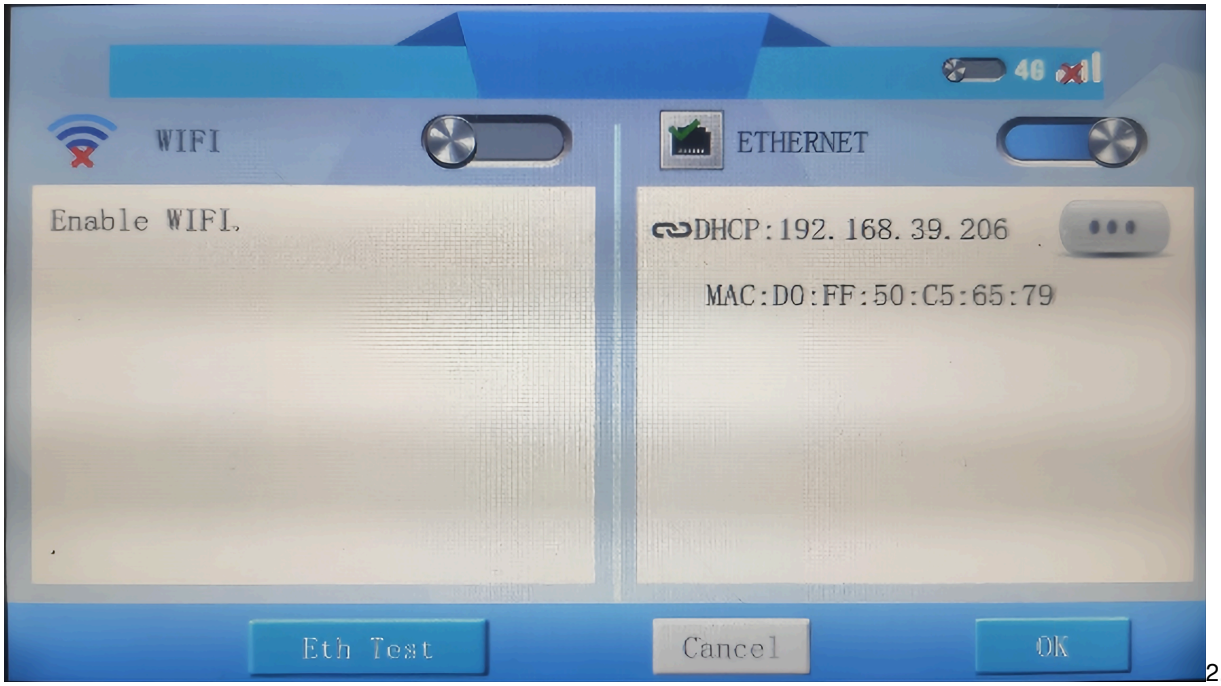


3. After inputting correct password, HMI will get a dynamic IP.

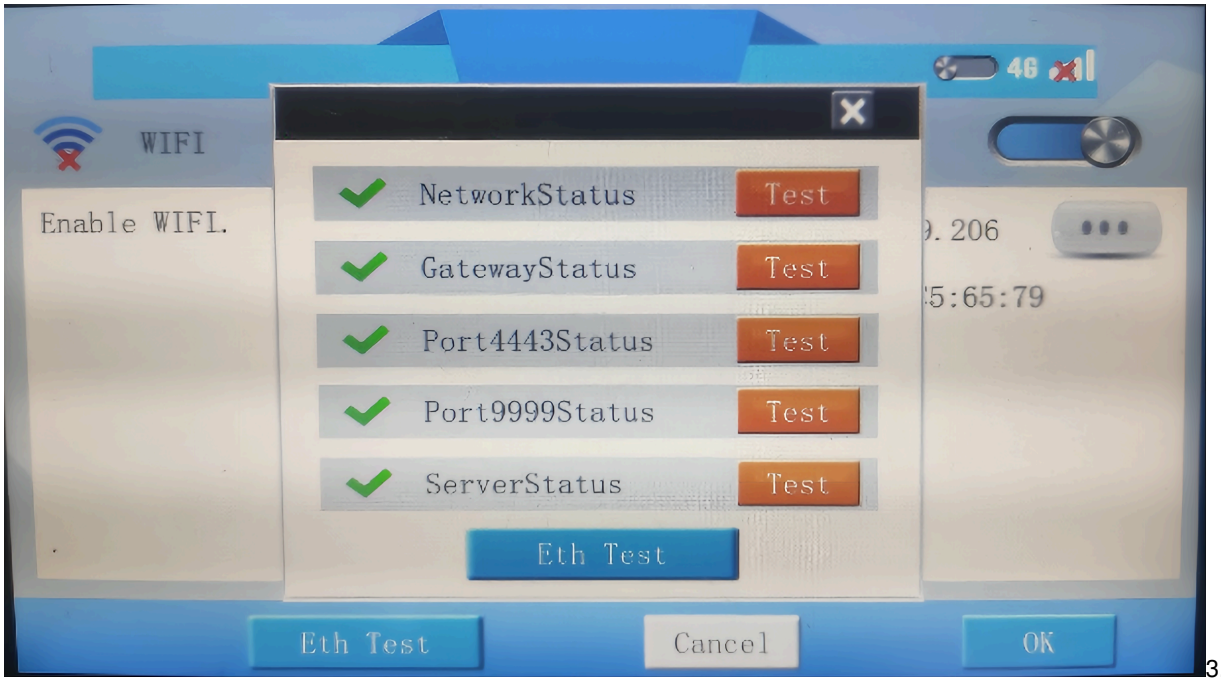


Ethernet

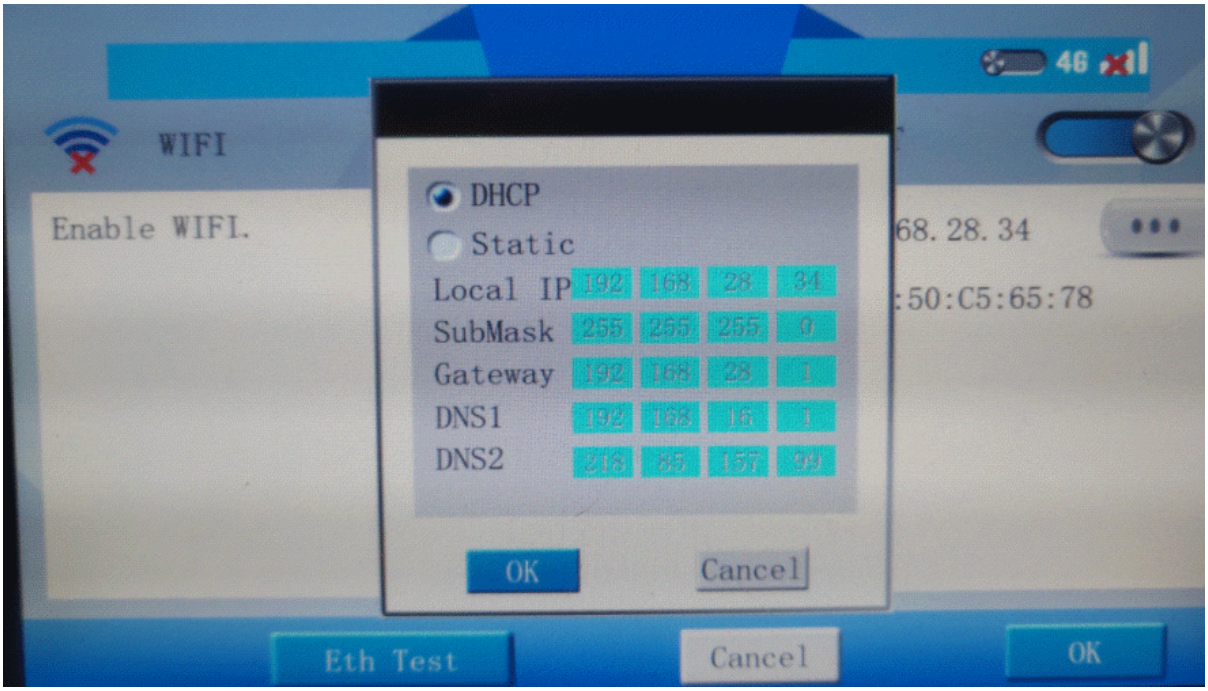
1. Enable the "Ethernet" function. If the network connection is normal, the IP address and MAC address of the HMI will be displayed, as shown in the following figure.



2. Click "Eth Test" to pop up test window as shown below.

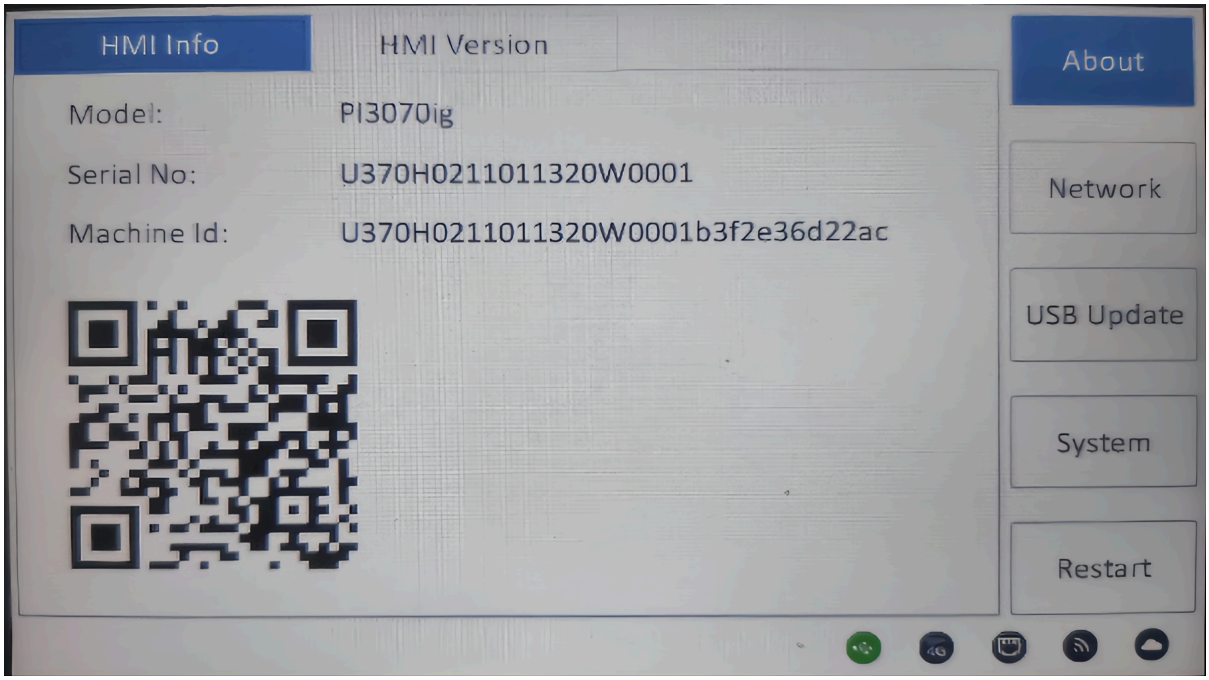


3. Click  to select DHCP or Static IP as below.



ig series setting

Long press the upper right corner of HMI, the system setting interface of ig HMI would be displayed as below.



1. HMI information

- Model: the model of HMI
- Serial NO. : the serial number of HMI
- Machine ID: the machine code of HMI. The first 20 digits are the serial number.

1. HMI: Display the version information of the HMI
2. The ICONS in the lower right corner are USB-A device, 4G network, Ethernet network, WIFI network and cloud access network status respectively. Green indicates that the device/network is available. Black indicates that the device/network is unavailable.

USB-A device is not connected

4G network is disconnected.

Ethernet is disconnected.

WLAN network is disconnected.

The current network status cannot be uploaded to the cloud.

Update PLC Project

This function is for update WECON PLC project via USB flash disk when HMI is communicating with PLC;

Operating procedures

1. Place update file (update.bin) into root directory of USB flash disk.
2. switch DIP (PLC) to stop state.
3. Insert USB Flash disk into HMI.
4. Into HMI setup menu.
5. Select update PLC project.

#Note:

- This function is available in PI series HMI.
- If project contains sub-program, the update time will be longer.
- Please format SD card, if users use SD card for update.

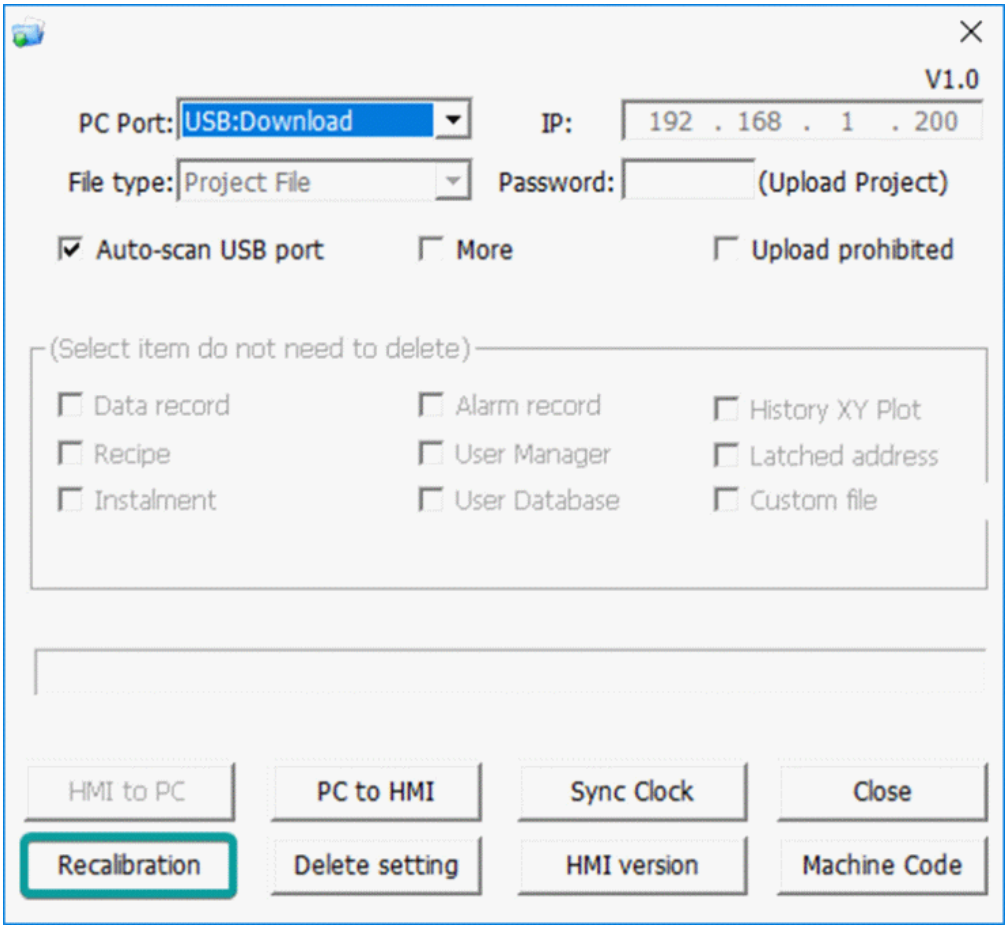
Recalibration

When the contact of the screen drifts or the coordinates of the HMI interface are shifted, the operation of the HMI will be inaccurate. In order to recalibrate the contact coordinates of the HMI interface, the calibration file in the HMI needs to be deleted and recalibrated.

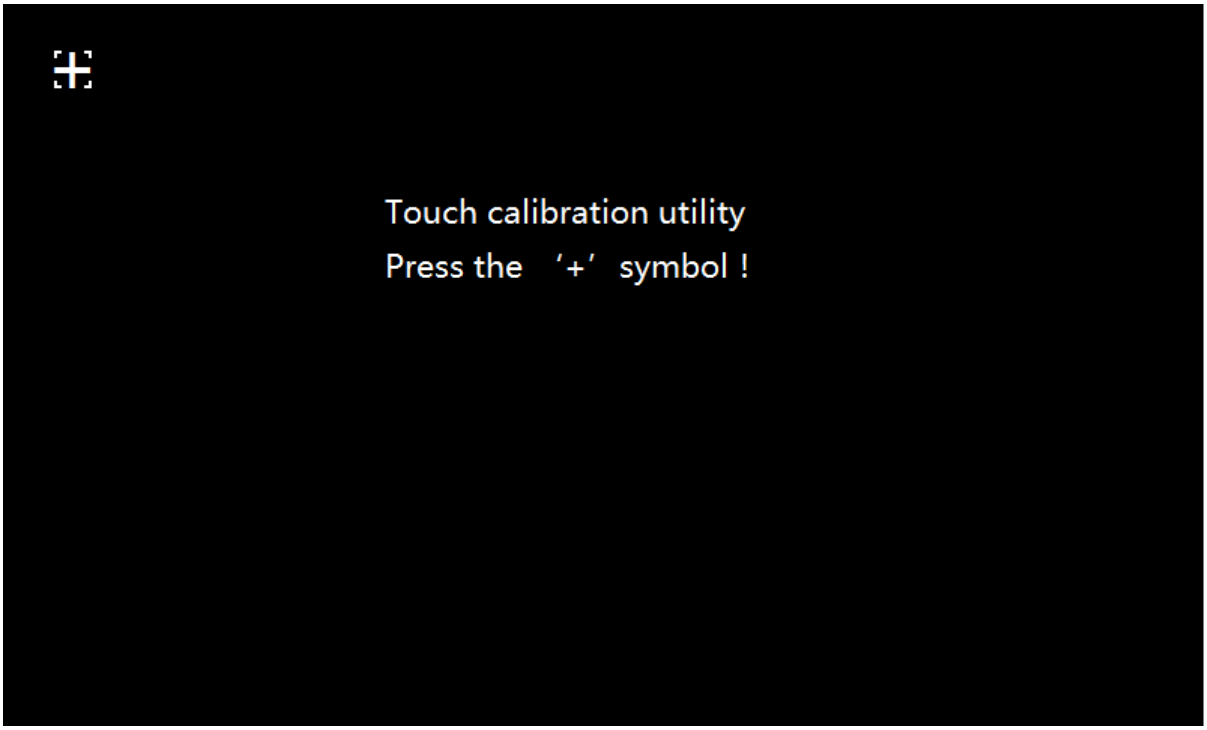
There are two methods for recalibration.

Method 1

1. Connect HMI to PC via programming port (USB-B).
2. Power ON HMI, and open download tool as below.



1. Please make sure HMI is detected by software.
2. Click [Recalibration], and restart HMI.
3. After HMI rebooting, it displays pictureas below.



1. Long press the center of '+', after success, it will automatically jump to the next '+', after calibrating the '+' point on the interface (a total of 5 '+' points), the HMI will prompt success, and re-load the project screen . (It is recommended to use a professional calibration pen);

Method 2

When there is no computer (PC) in the field,user could use the USB flash disk, and store a special file (DelTouch.dat) in the root directory of the U disk to perform the calibration operation.

Operating procedure

1. Create a TXT file on the PC side, write a integer value in the file, any integer from 1 to 180.This value is the countdown time of recalibration interface, unit:seconds.
2. Save the file and rename the TXT file to DelTouch.dat.
3. Save the file in the root directory of USB flash disk, and insert it to HMI device (USB-A).
4. Rebooting HMI.
5. After the system is loaded, there will be a prompt to "Calibrate after ** seconds" at the top of the screen.
6. After completing the countdown, the HMI will run the command to delete the calibration, and the screen will automatically reboot after the calibration is deleted.
7. Remove the USB flash drive. The HMI will enter the calibration interface. According to step 6 of method 1, long press the center of "+" to recalibrate touch screen.

#Note:

1. Content requirements for special documents (DelTouch.dat)

- The file content must be any integer from 1 to 180, and the unit defaults to seconds.
- If the value in the file content is greater than 180, it is calculated according to 180 seconds.
- If the content of the file is "less than 1, illegal characters, illegal characters + numbers", etc., it will be calculated in 30 seconds.
- If the content of the file is a number + illegal characters, the previous number will be used as the countdown time, such as 20s: the countdown time is 20 seconds.

1. About Calibration

- The USB flash drive file must be recognized within 3 minutes after the HMI loads the system. Therefore, it is generally recommended to insert USB flash disk before HMI start to avoid unrecognized problems due to time errors.

Upgrade System

After enable the Upgrade System, the on-screen system HMI V1.0 can be upgraded to the new system HMI V2.0.

Precautions

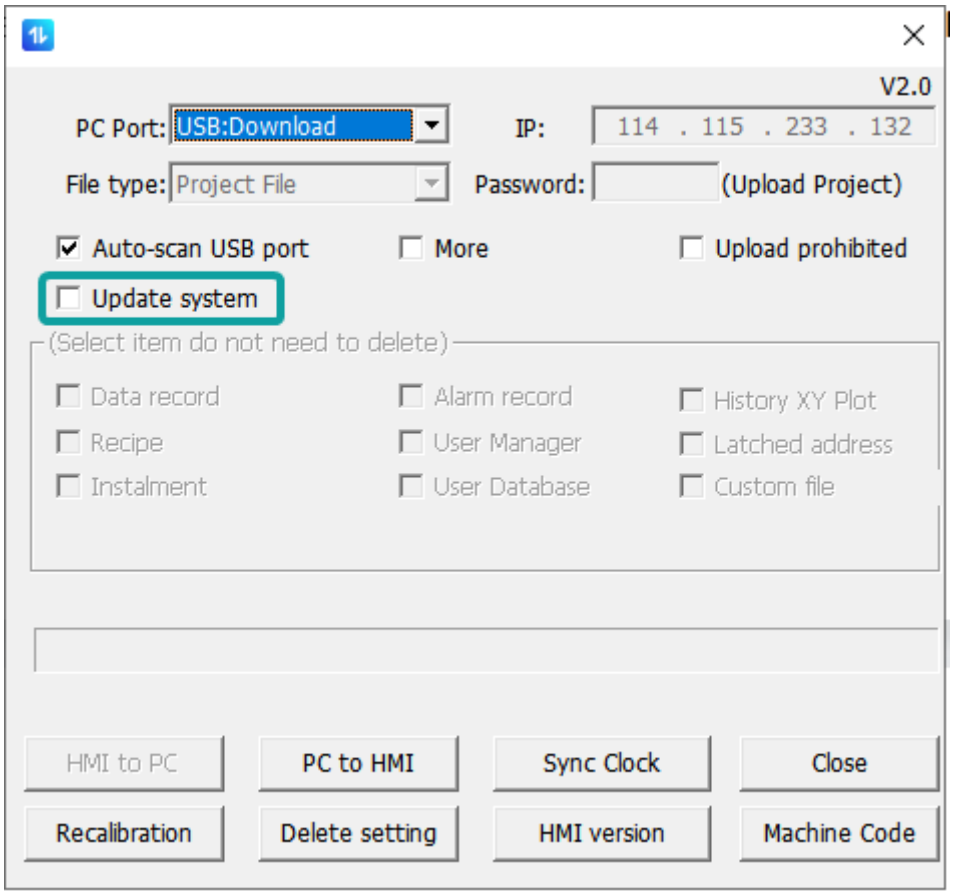
1. Do not cut off the download cable and power cable during the upgrade process, otherwise the upgrade may fail and the system cannot be accessed.
2. After the upgrade is successful, the data and projects on the screen will be deleted, please remember to backup first.
3. After upgraded, it cannot be rolled back to the previous version.
4. This upgrade will only upgrade the system and will not download the project. After restarting, it will prompt "The project is incomplete or the version is too low". The project needs to be upgraded and then downloaded again.
5. After the upgrade is successful, some functions will be affected and cannot be used, as shown in the table.
6. Specifically as shown in the table.

Missing functions & Alternatives after upgrade

Category	Function	Affected Models	Alternative
Features	Camera (USB, IP)	8000, 9000, 8000+, 9000+	
	Vertical Display (Changing screen angle)	3000, 8000, 9000, 3000+, 8000+, 9000+, 3000i, 3000ie	
	Multi-link interconnection	3000, 8000, 9000, 3000+, 8000+, 9000+, 3000i	
	Cloud SMS	8000, 9000, 8000+, 9000+	
	Video Player	9000, 9000+	
	Audio Player	9000, 9000+	
Custom Object	Custom_MoviePlayer	9000, 9000+	
	Custom_Dobby_Pattern	3000, 8000, 9000, 3000+, 8000+, 9000+, 3000i, 3000ie	
	Custom_Glass	3000, 8000, 9000, 3000+, 8000+, 9000+, 3000i, 3000ie	
	Custom_HisTrend	3000, 8000, 9000, 3000+, 8000+, 9000+, 3000i, 3000ie	
	Custom_Tank	3000, 8000, 9000, 3000+, 8000+, 9000+, 3000i, 3000ie	
	Custom_Weather	3000, 8000, 9000, 3000+, 8000+, 9000+, 3000i	Weather forecast Lua script interface
	Custom_DCTU_WaterRes	3000, 8000, 9000, 3000+, 8000+, 9000+, 3000i	
	Custom_DCTU_H212EPP	3000, 8000, 9000, 3000+, 8000+, 9000+, 3000i	
	Custom_CsvTable	3000, 8000, 9000	
Tool	LAN monitoring software (HMI Monitor System)	3000	Webpage monitoring
	VNC	3000i, 3000ie, 3000ig	Webpage monitoring
	Smart APP	8000, 9000, 8000+, 9000+	V-Net APP
	Data Upload Tool	3000, 8000, 9000, 3000+, 8000+, 9000+, 3000i, 3000ie	PI Record Upload Tool
	PIRemote	8000, 9000, 8000+, 9000+	V-NET Access Client

Upgrade Method

Method 1: Open Download tool, and check the box of Upgrade System when downloading, as shown in the following figure:



Method 2: When creating a Udisk upgrade image, check the box of "OS version upgrade from V1.0 to V2.0" from the tab "HMI V2.0", as shown in the following figure: