

5.3 Upload and download transmission interface and driver installation

Link Settings

Users can transmit data through USB.

USB Client

Step 1

Log in as Administrator under the operating system.

Step 2

Use a USB cable to connect the USB port of the ES Box / SX Box device to the USB port of the PC.

Step 3

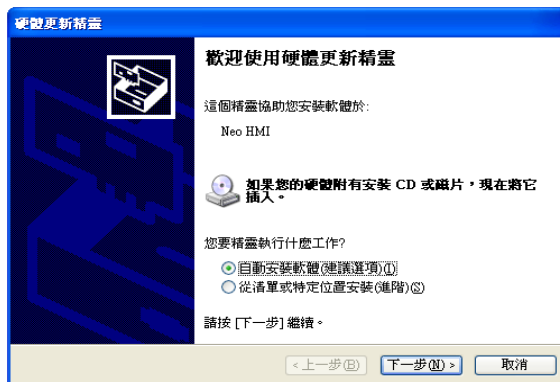
Start installing the USB driver.

Users can choose the appropriate way to install the driver from the following ways:

Step 3.1

Find new hardware sprites

Start the target ES Box / SX Box device, and Windows will automatically pop up the "Looking for new hardware" window to guide you to install the driver.



Step 3.2

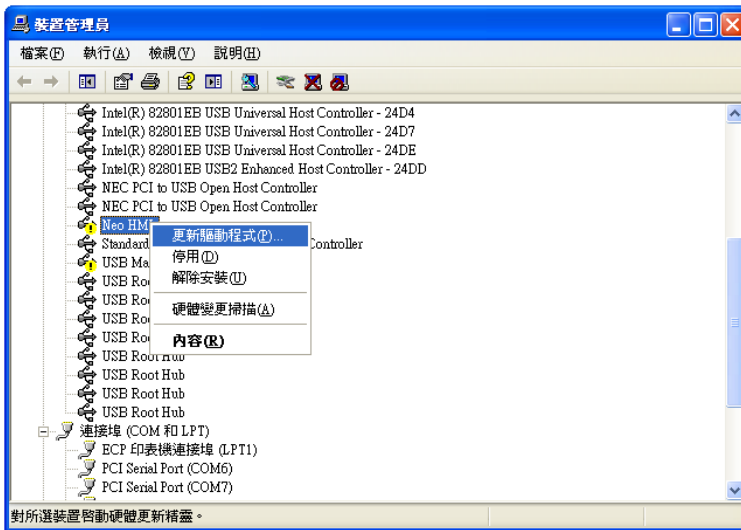
If the "Hardware Update Wizard" window does not appear or the window is closed, follow the steps below to make the window appear:

3.2.1 Right-click on My Computer and select Manage.

3.2.2 Under System Tools, click Device Manager, and all devices installed on the computer will be listed on the right page.

3.2.3 Expand other devices.

3.2.4 Right click on the Neo HMI and select Properties.

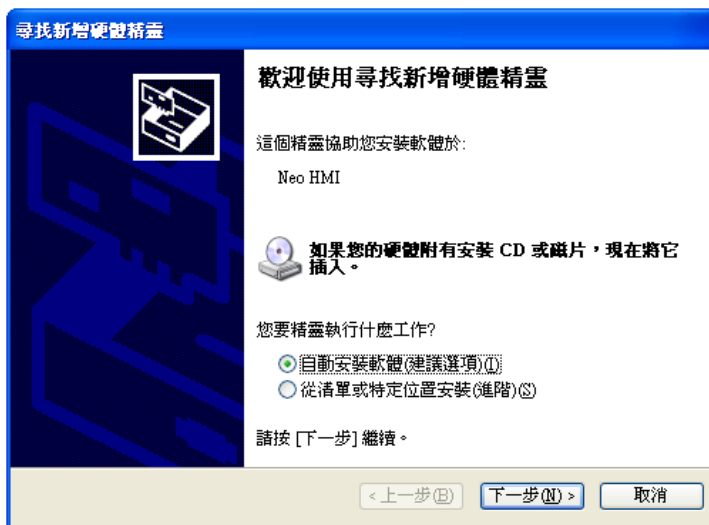


3.2.5 Click the Driver tab and select "Update Driver" to start updating the driver.

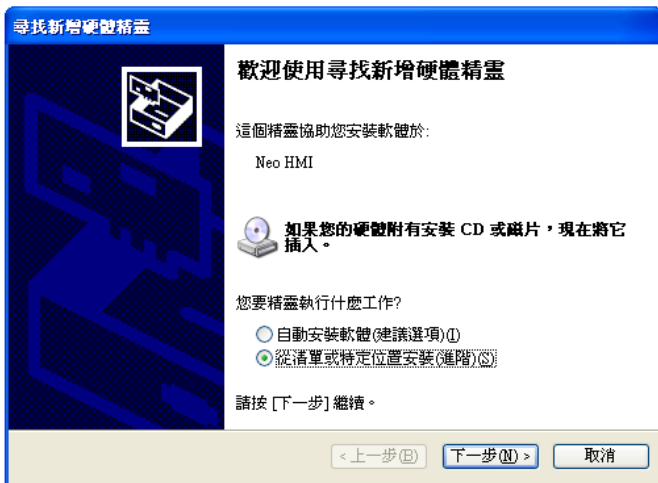
Step 4

Follow the instructions to install the driver

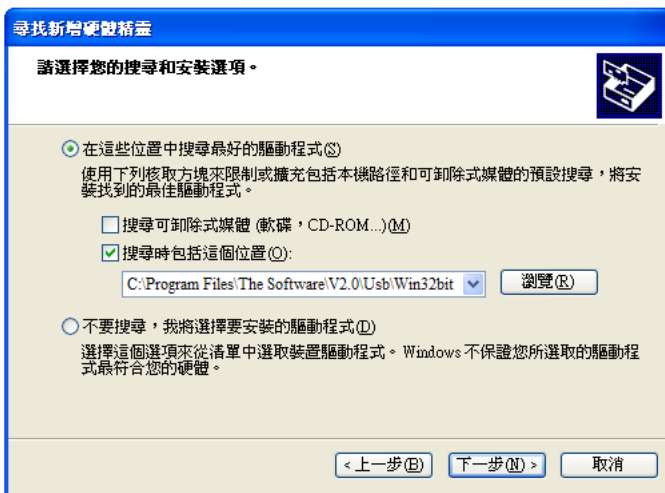
4.1 Click "Next"



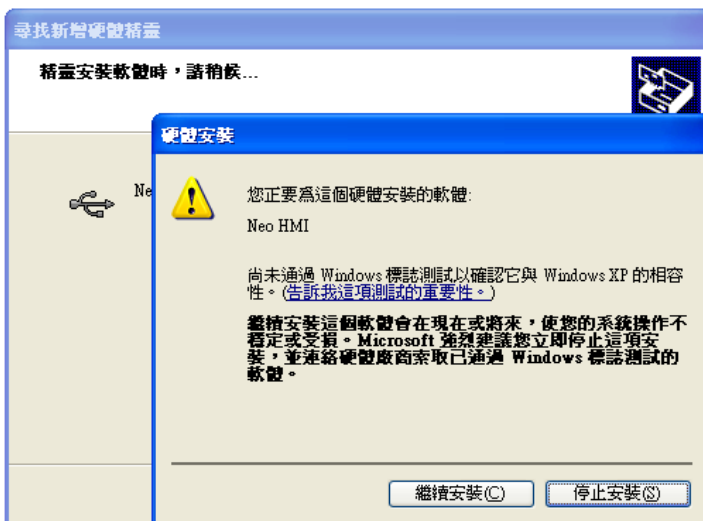
4.2 Click Install from a list or specific location (Advanced) and select Next



4.3 Click to search for the best driver in these locations, choose to include this location in the search, click "Browse" to select the \installation directory\USB as the driver folder and click "Next" .



4.4 If the following window appears, click "Continue Installation".



Step 5

Click "Finish" to complete the Neo HMI driver installation.




Note: When connecting the ES Box / SX Box device to the USB port on the PC for the first time, the driver must be installed first.

After installing the USB driver, the ES Box device that supports USB transmission can be connected to a computer PC with a USB cable for data transfer.

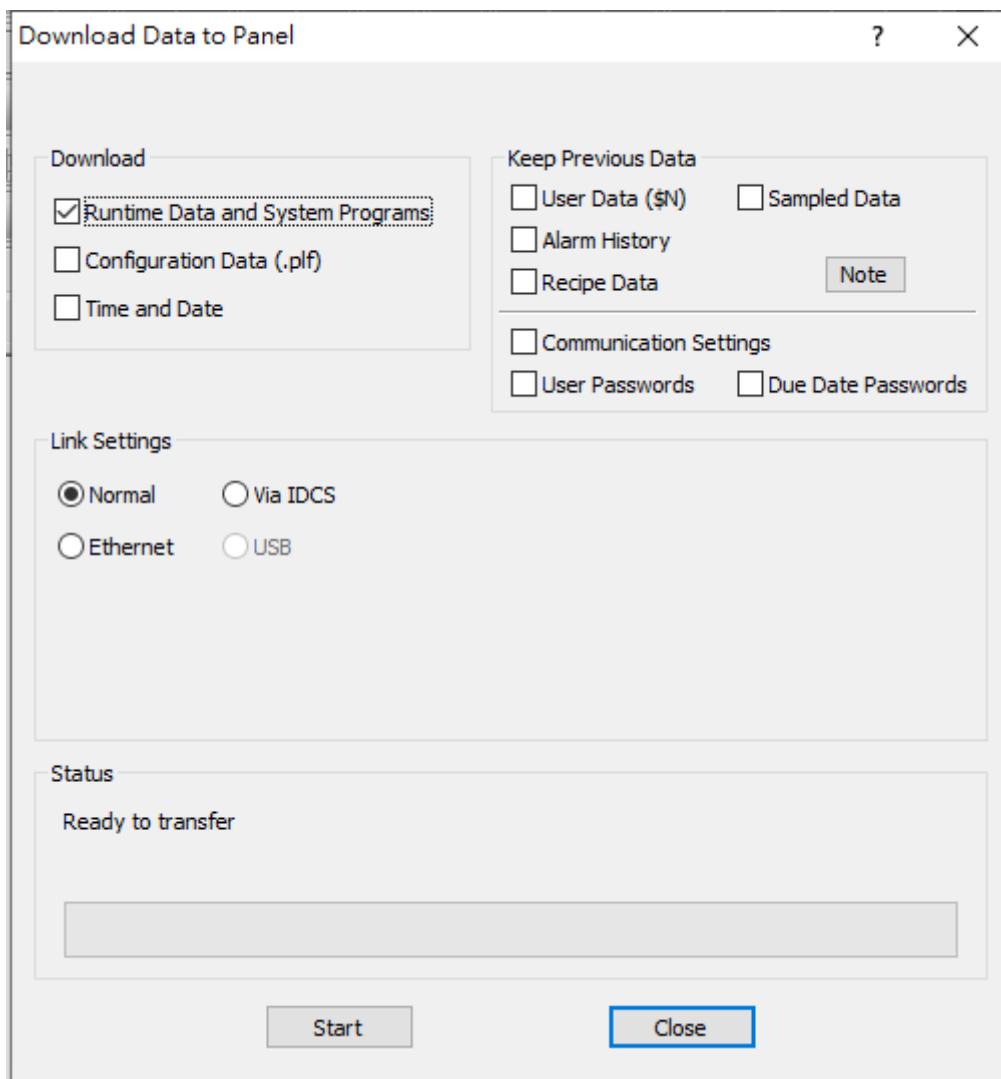
In the touch master PM Designer software, if you want to download data to the ES Box / SX Box device or upload data to the computer window, please select the transfer method as the USB interface to use USB to transfer data.

5.4 Download data to ES Box / SX Box device

5.4.1 PM Designer download data

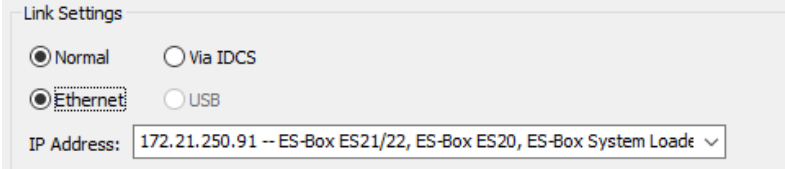
In the function bar, click "HMI Application" and select "Download data to touch screen" in the pop-up drop-down menu or click the download icon on the icon toolbar.  .

5.4.2. In the "Download Data to Panel" window you can select and set options.



Note: If the application has been modified, PM Designer will automatically compile the HMI application before downloading the data.

The following table is the description of each attribute in the download data option:

Attributes	Description	
Data Sources	Select the data to be downloaded. "Current HMI application" is the data generated after compiling the software. "PRP file" contains the current HMI application data and system program. If you select the PRP file, you need to select it again.	
Download	<p>Check that the items to be downloaded include operating data and system programs, application planning data, time and date, and this option will only appear if the data source is the current HMI application.</p> <p>The user can choose to apply the planning data, and back up the HMI application to the target HMI. The data format is the same as the PLF file.</p> <p>Note: You can upload it back and re-edit or modify the application screen of HMI only after ticking the Download HMI application planning data to HMI.</p>	
Keep Previous data	<p>Check the user data (\$N), alarm history, recipe data, and sampling data in the original data to keep the selected data items and will not be cleared after the HMI is downloaded.</p> <p>The data of the selected item will only be retained if the following conditions are met:</p> <ol style="list-style-type: none"> 1) The original application is compiled or downloaded with software version V1.2.26 or later. 2) The settings of the battery protection memory area, recipe area, data collector, alarm area and alarm log memory area must be consistent in the old and new applications. 	
Link settings	Ethernet	<p>To download data using Ethernet, enter the IP address of the target device or select a recently connected device from the list.</p>  <p>The screenshot shows a 'Link Settings' dialog box with four radio buttons: 'Normal', 'Via IDCS', 'Ethernet', and 'USB'. The 'Ethernet' radio button is selected. Below the radio buttons is a text field for 'IP Address' containing '172.21.250.91' and a dropdown menu with the text 'ES-Box ES21/22, ES-Box ES20, ES-Box System Load'.</p>
	USB	To use USB to download data, you must first install the USB driver.
Status	Displays the status and progress of the transfer.	
Start	Click this button to start downloading data.	
Cancel	Cancel the download.	
Close	Close the window.	

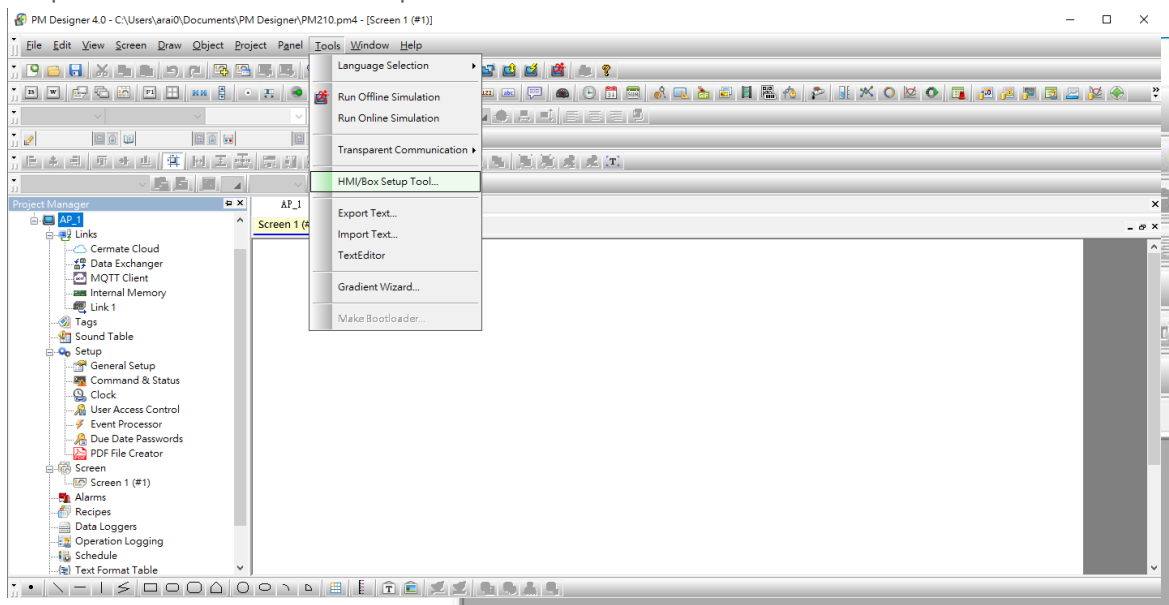
5.5 ES Box / SX Box Device

ES Box / SX Box parameter setting items

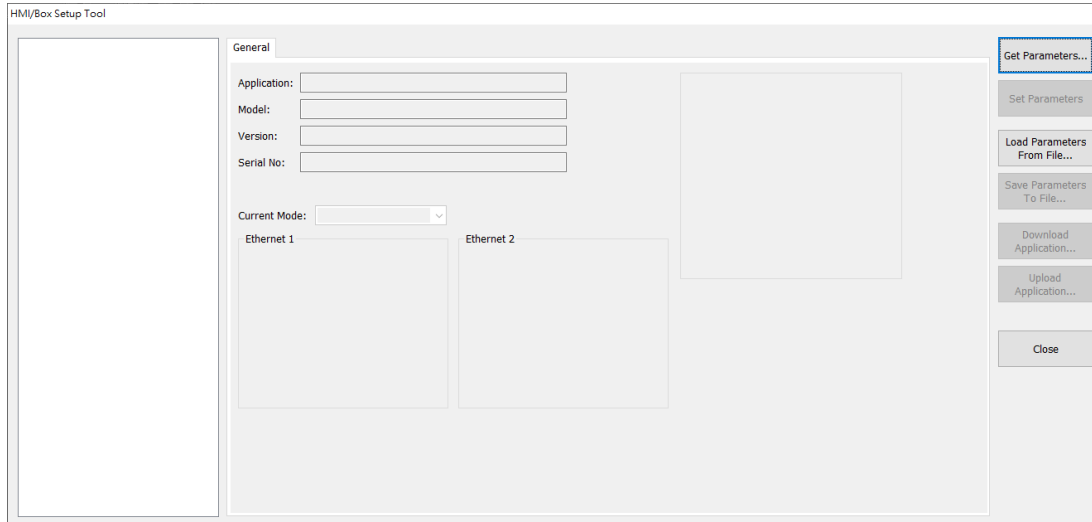
1. Ethernet 1 IP address / Ethernet 2 IP address
2. Time / Date
3. Link parameter
4. FTP
5. VNC
6. E-Mail
7. Password Table
8. NTP
9. MQTT

5.5.1. To set the ES Box / SX Box device parameters, follow the steps below

5.5.1.1 Click "Tools" in the function bar and select "HMI/Box Setup Tool" from the pop-up drop-down menu to set device parameters.

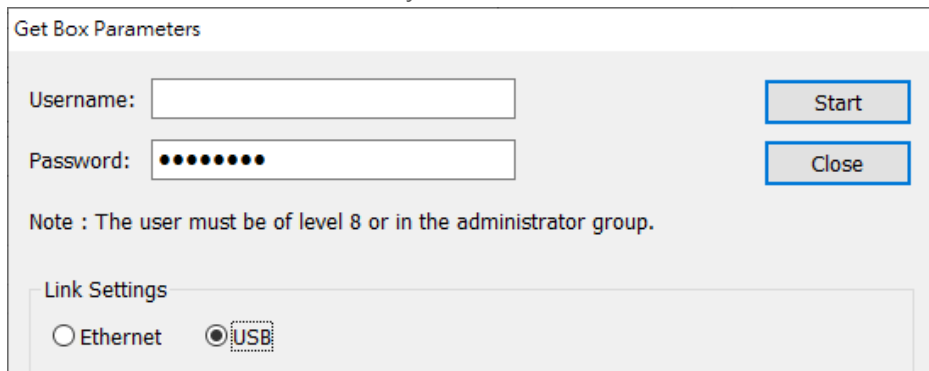


5.5.1.2. Click "Get Parameters" in the "HMI/Box Setup Tool" window.



5.5.1.3 Select device connection settings: Ethernet interface or USB interface, after setting, click "Start".

Ethernet Download data using Ethernet Enter the IP address of the target ES Box / SX Box device or select a recently connected network from the list.



USB To use USB to download data, you must first install the USB driver.

Password Default password: 88888888 or 000000000.

5.5.1.4 Get the parameters as shown in the figure below.

HMI/Box Setup Tool

PM207-1_1024x600

- 連線1
- 連線2
- FTP
- VNC
- Email
- Password
- NTP
- MQTT
- WiFi/4G

General 連線1 連線2 FTP VNC Email Password NTP MQTT WiFi/4G

Application: PM207-1_1024x600

Model: PM210-1 (24-bit Color)

Version: 4.0.7.16

Serial No: 11K5AHDCDC00010

Product Verification Code: 410D48E2 OEM: 0

Current Mode: Run

Ethernet 1

Get An IP Address Automatically

IP Address: 192.168.10.10

Subnet Mask: 255.255.255.0

Gateway: 0.0.0.0

DNS Server: 0.0.0.0

2nd DNS Server: 0.0.0.0

Ethernet 2

Check Battery

Screen Saver Time (minutes): 0

Allow To Enter Setup Mode

Start-up Language: (default)

Run AP After Power On

Display Upside Down

Default

Exit to Setup Mode

HMI/Box Name:

Time Zone: UTC + 08:00