

Haiwell R Series Intelligent IPC

Haiwell Intelligent IPC Instructions



Edit History

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Catalogue

I. Product Introduction	1
1. Key Function.....	1
2. Core Highlights.....	1
II. Product Specifications	2
1. Product Parameter.....	2
2. Product Model List.....	4
III. Quick Start to Linux Version IPC	5
1. Interface Diagram	5
2. Power On	5
3. Shut Down	5
4. Restart	6
5. Log Out	6
6. Lock Screen	6
7. External Mouse	6
8. External Keyboard	6
IV. Linux Version IPC System Settings.....	6
1. Switching System Language.....	7
1.1 Language Settings	7
1.2 Set Regional Format.....	8
2. Network Settings.....	9
2.1 Connect to Ethernet.....	9
2.2 Connect to WIFI.....	10
3. Add Printer	11
3.1 Search for Network Devices.....	11
3.2 Driver Configuration	11
3.3 Complete Printer Configuration	12
4. Screen Protection Settings	12
4.1 Screen Brightness.....	12
4.2 Screen Lock.....	13
5. Date/Time Settings.....	13
5.1 Adjusting Date and Time.....	13
5.2 Set Clock Format.....	14
6. View Hardware Information	14

V. Linux Version IPC Project Usage	15
1. Downloading the Project.....	15
2. Running the Project.....	16
3. Switch to Full-screen Window Mode.....	16
4. Exit the Project Operation.....	16
VI. Linux Version IPC Remote Control Device	17
1. Binding the Device.....	17
2. Remote Control.....	18
VII. Device Management Tools.....	19
1. Local Management.....	19
1.1 Download Project.....	20
1.2 Uploading the Project.....	20
1.3 Update Firmware.....	21
1.4 Get PN Code	21
1.5 Check Version	21
2. Cloud Management.....	22
2.1 Download Project.....	22
2.2 Uploading the Project.....	23
2.3 Update Firmware.....	23
2.4 Check Version	24
VIII. Quick Start for Windows Version IPC	24
1. Interface Diagram	24
2. Project Execution.....	24
3. Binding Devices.....	26
4. Remote Control.....	27
IX. FAQs	27
1. How can one exit from the running project page to the desktop in the Linux version of IPC?	27
2. What is the upload password for the Linux version IPC factory demonstration project?	28
3. What is the role of the VGA/HDMI interface in the Linux version of IPC?	28
4. After the Linux version IPC boots up and the project is running, how to set the network information?	28
5. What version of the Windows operating system is pre-installed on the Windows version IPC? Is it activated?.....	28
6. Is the configuration pre-installed on the Windows version of IPC? If so, what version is it?	29

I. Product Introduction

1. Key Function

Haiwell offers two industrial control computer (IPC) solutions to meet diverse requirements for industrial automation monitoring and management:

Haiwell Linux Version IPC

Equipped with an embedded Linux operating system optimized for industrial environments, it features high stability, low power consumption, and strong anti-interference capabilities. Functioning as a runtime terminal, it operates engineering projects developed by Haiwell SCADA configuration software. Real-time industrial site conditions are displayed via intuitive configuration screens. The IPC communicates with PLCs, instruments, sensors, and other industrial devices to collect real-time data. It monitors field anomalies and issues immediate alerts through pop-up screens, voice broadcasts, WeChat, SMS, and email. Network engineering is supported, enabling multiple IPCs to act as clients/servers for cross-device data sharing and distributed control systems. It reliably stores real-time and historical data for subsequent analysis, helping troubleshoot faults, optimize efficiency, and improve quality.

Haiwell Windows Version IPC

Based on the standard Windows operating system, this industrial computer provides a complete configuration development, simulation, and runtime environment. Running Windows OS, it allows local editing and design of monitoring screens and logic using Haiwell SCADA software. The development environment supports online simulation for rapid debugging and validation. It can run both the engineering project loaded by the software itself and standalone runtime files generated by the software. All core monitoring functionalities of the embedded Linux IPC are retained. Combining industrial reliability, PC-level performance, flexibility, and the familiar Windows environment, it is ideal for applications requiring on-site development/debugging, complex computations, or deep integration with Windows systems/software.

2. Core Highlights

- **Built-in Configuration:** Haiwell Cloud Configuration Software with unlimited tag count enables seamless cloud integration for devices.
- **Premium Design:** High-definition capacitive touchscreen, narrow bezel, and aluminum alloy housing for an elegant, high-end appearance.
- **LAN Interconnectivity:** Instant connectivity with smartphones, tablets, computers, TVs, cameras, and other HMIs via local network.
- **IoT Connectivity:** Real-time linkage with smartphones, tablets, computers, TVs, cameras, and other HMIs over the internet.
- **Remote Access:** Breaks traditional VNC limitations with zero secondary configuration required—WYSIWYG (What Users See Is What Users Get) interface; supports simultaneous asynchronous/synchronous monitoring by multiple users.

- **Data Security:** Safely transmits and stores data on designated servers, supporting local or public network deployment with full security control.
- **Open Interfaces:** Compatibility with MQTT, OPC UA, HTTP, TCP, and other protocols for seamless integration with ERP, MES, and third-party systems.
- **Smart Device Features:** Supports text-to-speech alerts, full-scenario voice intercom, audio/video playback, and camera monitoring.
- **Smartphone as Scanner:** Transforms smartphones into extensions of the IPC, replacing traditional external scanners for on-the-go data entry via QR codes.
- **Digital Signage:** Integrates with Haiwell TVBOX for large-screen data visualization, centralized devices monitoring, and smart factory implementations.

II. Product Specifications

1. Product Parameter

Model		R15	R21	R15（W）	R21(W)
System	Operating system	Linux		Windows	
Software	Programming management software	Haiwell Cloud Configuration SCADA			
Display	Monitor	15.6 " TFT	21.5 " TFT	15.6 " TFT	21.5 " TFT
	Resolution	1920x1080 pixels			
	Colour	262K	16.7M	262K	16.7M
	Brightness	350 cd/m²	250 cd/m²	350 cd/m²	250 cd/m²
	Viewing angle	85'/85'/85'/85'	89'/89'/89'/89'	85'/85'/85'/85'	89'/89'/89'/89'
	Touch type	Capacitive-type			
Backlight	Backlight Type	LED			
	Lifespan of backlight	50,000 hours			
	Automatic sleep function	Support, Configurable			
Hardware	CPU	Intel Core i5			
	Flash	512G/1T（Optional）			
	RAM	8G/16G（Optional）			
	Ethernet port	10/100/1000 Base-T*2			
	Serial port	COM1 :RS485 COM2-COM4 :RS232*3			
	USB HOST	USB3.0*2			
	RTC	Built in real-time clock			
Power	Input power supply	12V DC power supply			

	Power consumption	30W	36W	30W	36W
	Power protection	Equipped with surge protection and anti reverse connection protection			
	Withstanding voltage	500VAC			
	Insulation impedance	Exceed 50MΩ @500VDC			
Environment	Cooling method	Natural wind cooling			
	Protection grade	The panel meets IP65 and the body meets IP20			
	Storage environment temperature	-20℃ ~ +70℃			
	Operating ambient temperature	-10℃ ~ +60℃			
	Relative humidity	10% ~ 90% RH (no condensation)			
	Usage environment	Dustproof, moisture-proof, corrosion-resistant, and protected from electric shock and external impact environments			
	Vibration resistance	10~25 Hz (X.Y and Z axis 2G/30 minutes)			
Specifications	Shell material	All aluminum alloy shell + glass panel			
	External dimensions (W*H*D)	394*256*53mm	538*330*53mm	394*256*53mm	538*330*53mm
	Hole size (W*H)	383*245mm(R7mm)	531*322mm(R7mm)	383*245mm(R7mm)	531*322mm(R7mm)
	Weight	5.3kg	8.5kg	5.3kg	8.5kg
	Installation method	Panel installation, VESA(100*100)			
Function	WIFI	Supports 802.11b/g/n, optional			
	RFID	Standard Configuration			
	Microphone	External			
	Speaker	External			

2. Product Model List

Model	TFT Screen	Storage	CPU	LAN	COM	WIFI	Display Interface	USB	Local Video	RFID	Special Functions	Hole size W*H (mm)	Product size W*H*D (mm)
R15	15.6" 1920*1080 HD Capacitive	8G/16G DDR4 512G/1T SSD	Intel Core i5	2	3*RS232 1*RS485	1	VGA HDMI	2	Yes	Yes	Built-in Haiwell Cloud SCADA	383*245 chamfer: R7	394*256*53
R21	21.5" 1920*1080 HD Capacitive	8G/16G DDR4 512G/1T SSD	Intel Core i5	2	3*RS232 1*RS485	1	VGA HDMI	2	Yes	Yes	Built-in Haiwell Cloud SCADA	531*322 chamfer: R7	538*330*53
R15(W)	15.6" 1920*1080 HD Capacitive	8G/16G DDR4 512G/1T SSD	Intel Core i5	2	3*RS232 1*RS485	1	VGA HDMI	2	Yes	Yes	Built-in Haiwell Cloud SCADA	383*245 chamfer: R7	394*256*53
R21(W)	21.5" 1920*1080 HD Capacitive	8G/16G DDR4 512G/1T SSD	Intel Core i5	2	3*RS232 1*RS485	1	VGA HDMI	2	Yes	Yes	Built-in Haiwell Cloud SCADA	31*322mm chamfer: R7	538*330*53

III. Quick Start to Linux Version IPC

1. Interface Diagram

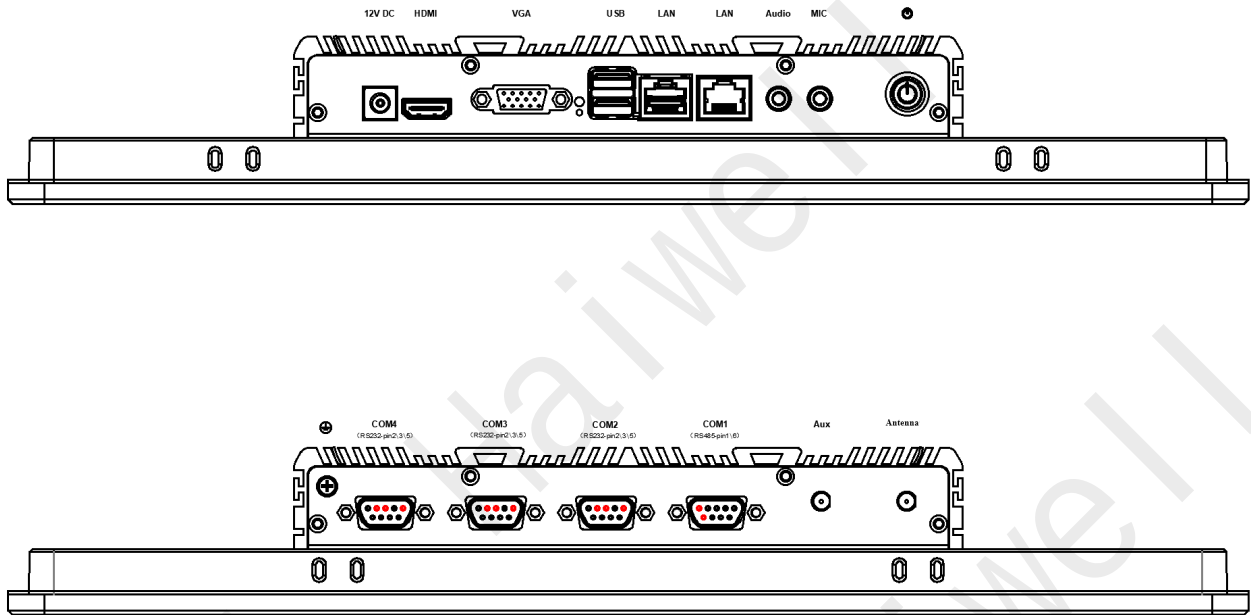


Figure1 IPC R15

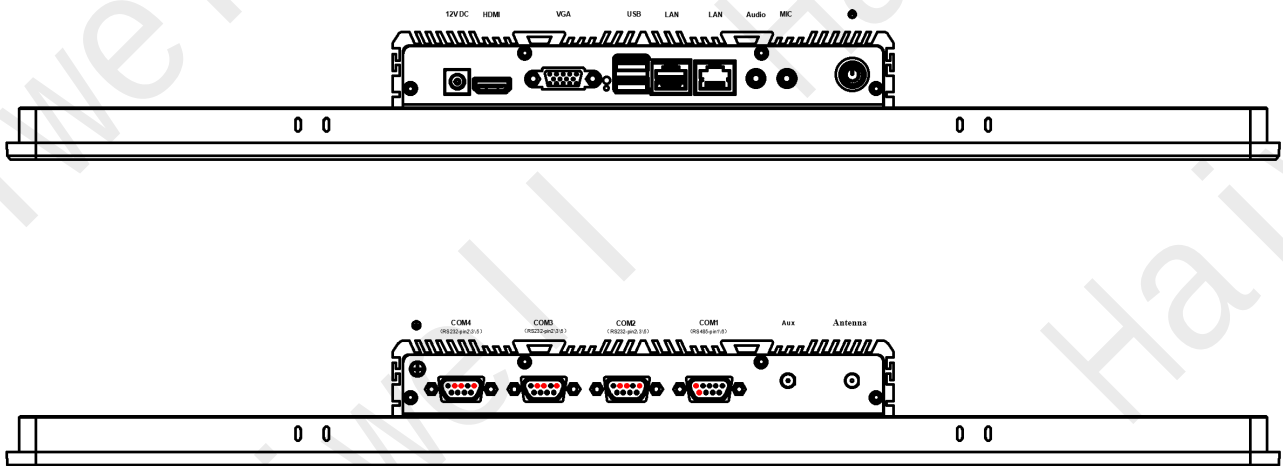


Figure2 IPC R21

2. Power On

When the IPC is powered on, press the power button  on the device, and the system will automatically start.

3. Shut Down

Click the program icon  in the upper right corner of the IPC desktop, enter the program menu, and click **【Shut Down】**. Select **【Shut Down】** to shut down the IPC.

*** Do not directly disconnect the power supply of the IPC. Using this method may easily damage the**

files.

4. Restart

Click the program icon  in the upper right corner of the IPC desktop, enter the program menu, click **【Shutdown】**, select **【Restart】**, and restart the device.

5. Log Out

Click the program icon  in the upper right corner of the IPC desktop, enter the program menu, click **【Log Out】**, and select **【Logout】**, to log out of the session.

6. Lock Screen

Click the program icon  in the upper right corner of the IPC desktop to enter the program menu. Then click **【Log Out】** and select **【Lock Screen】**. This will lock the screen. To use the device again, simply log in with the device account.

7. External Mouse

Connect the mouse to the USB interface at the bottom of the IPC. Users can then use an external mouse.

8. External Keyboard

Connect the mouse to the USB interface at the bottom of the IPC. Users can also use an external keyboard.

IV. Linux Version IPC System Settings

Click on the "System Settings"  icon on the desktop to enter the system settings interface:



Figure3 System Settings Interface

1. Switching System Language

1.1 Language Settings

(1) Switch from Chinese to English

Click on **【Language Support】**, enter the language support interface, select **【Language】**, in the drop-down list of **【Language for menus and windows】**, drag the language to adjust the system language. Drag the language users need to the top of the list and click **【Apply to the entire system】**, so that this language is set as the system language. For example, drag "English (United States)" to the top of the list and click **【Apply to the entire system】**, indicating that "English (United States)" is set as the system language.



Figure4 Switch from Chinese to English

(2) Switch from English to Chinese

Click on **【Language Support】** to enter the language support interface. Select **【Language】**. In the drop-down list of **【Language for menus and windows】**, drag the language users need to adjust the system language. Move the selected language to the top of the list and click **【Apply System-Wide】**. This will set the language as the system language. For example, drag "Chinese (China)" to the top of the list and click **【Apply System-Wide】** to indicate that "Chinese (China)" is set as the system language.

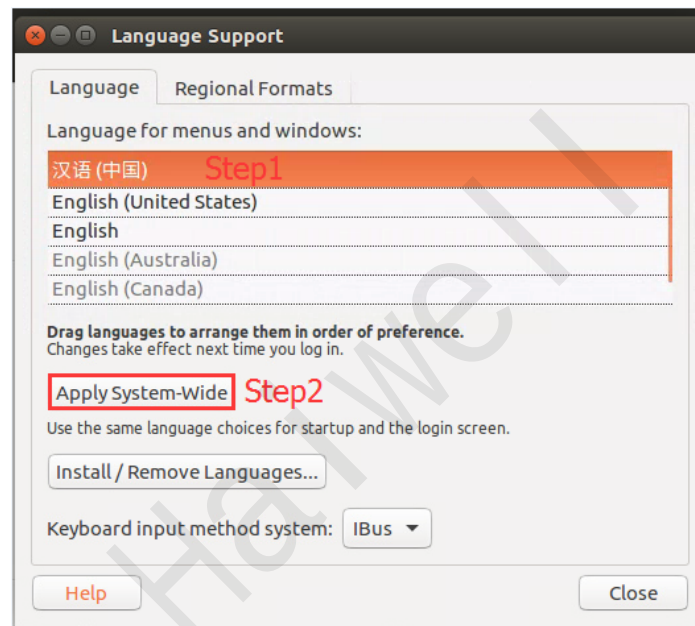


Figure5 Switch from English to Chinese

1.2 Set Regional Format

(1) Switch from Chinese Region to English Region

Click on **【Language Support】** to enter the language support interface. Select **【Regional Format】** and in the drop-down list of **【Display formats for numbers, dates and monetary amounts】**, choose the language to adjust the regional format. Click **【Apply to the Entire System】** and users can set the regional format of the system. For example, select "English (United States)", and clicking **【Apply to the Entire System】** indicates that the regional format is set to "English (United States)".

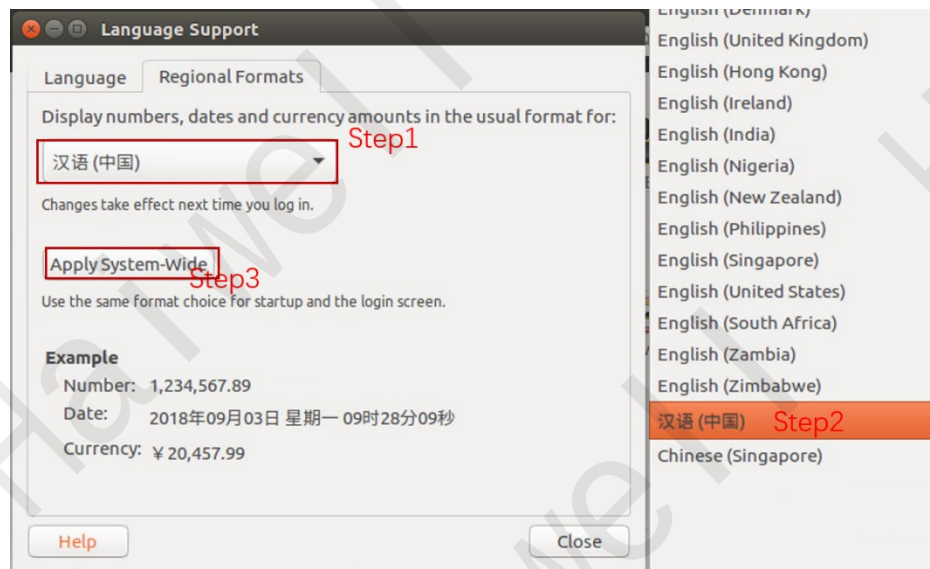


Figure6 Switch from Chinese Region to English Region

(2) Switch from English Region to Chinese Region

Click on **【Language Support】** to enter the language support interface. Select **【Regional Formates】**. In the drop-down list of **【Display numbers, dates and currency amounts in the usual format for】**, choose the language to adjust the regional format. Click **【Apply System-Wide】** and users can set the regional

format of the system. For example, select "Chinese (China)", and click **【Apply System-Wide】** to indicate that the regional format is set as "Chinese (China)".

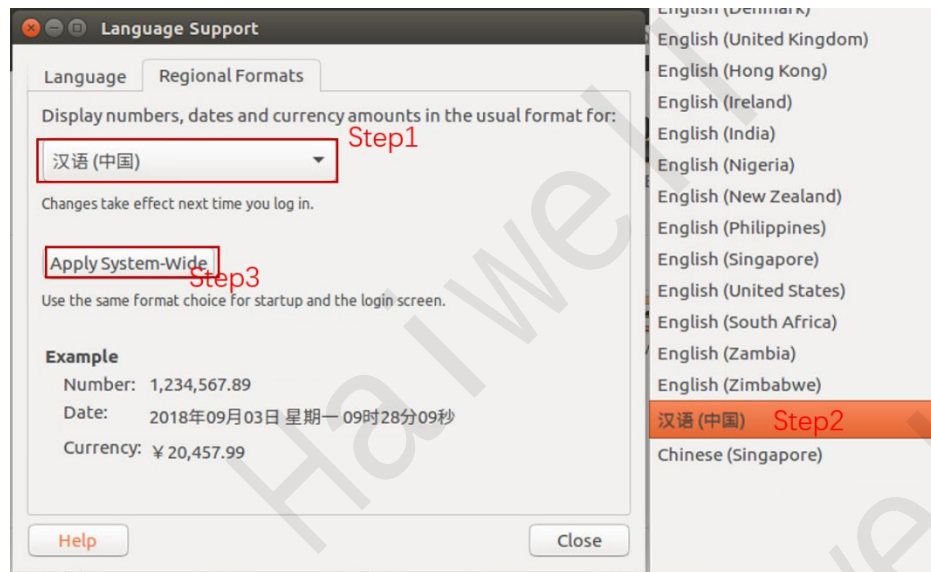


Figure7 Switch from Chinese Region to English Region

2. Network Settings

2.1 Connect to Ethernet

Click on **【Network】** to enter the network settings interface. Select **【Wired】** network connection. The device supports two Ethernet ports. Enter the wired network connection interface, click on **【Options】**, enter the network settings, and select **【IPv4】**. The IP address acquisition method can be set to automatic IP acquisition or manual IP setting.

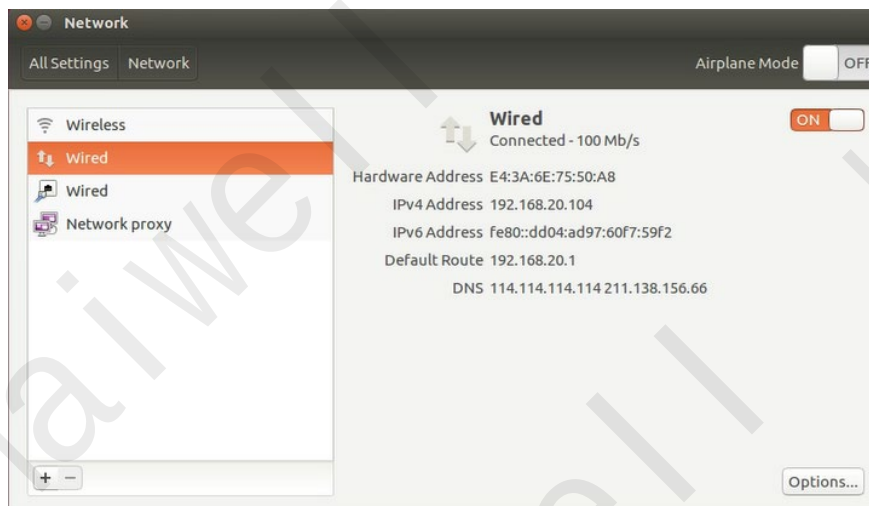


Figure8 Connecting to Ethernet

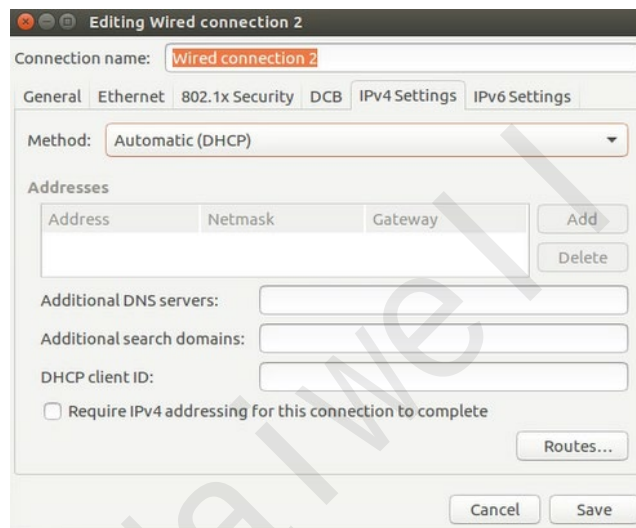


Figure9 Automatic IP Acquisition

(1) Automatic IP Address Acquisition

Click the drop-down box under the **【Method】** menu bar, select **【Automatic】**, set it to automatically obtain the IP address, click **【Save】**, return to the main network settings interface, and restart the network to automatically acquire the IP address.

(2) Manually Set the IP Address

Click the drop-down box under the **【Method】** menu bar and select **【Manual】** to set the IP address manually. Click **【Add】** in the address bar, enter the IP address in the IP address field, and then switch to the subnet mask input field. Enter the IP address, subnet mask, network management, and DNS server parameters in sequence. Click **【Save】**, return to the main network settings interface, and restart the network to connect to the Ethernet.

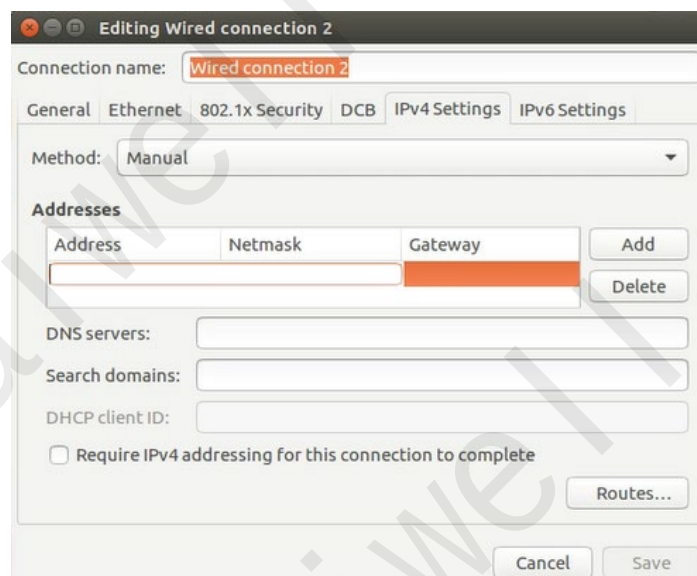


Figure10 Manual IP Settings

2.2 Connect to WIFI

Click on **【Network】**, enter the network settings interface, select **【Wireless】** to connect to WIFI, choose the WIFI device, a WIFI network authentication interface will pop up, enter the authentication

password, click【Connect】, after the connection is successful, restart the network to use the WIFI connection.



Figure11 Connect to WIFI

3. Add Printer

Click on 【Printers】, enter the printer interface, select 【Add】, and go to the printer configuration interface.

3.1 Search for Network Devices

In the printer configuration interface, select 【Find Network Printer】, enter the correct host IP address, click 【Find】, wait for the device to be found, and then click 【Next】 to enter the driver configuration interface.

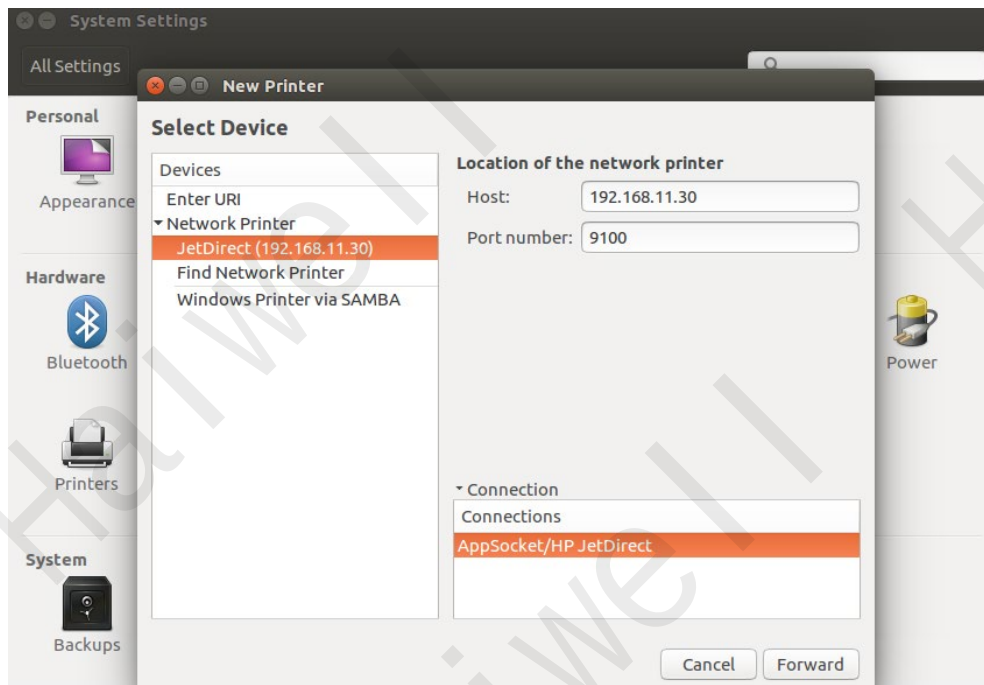


Figure12 Search for Network Devices

3.2 Driver Configuration

In the driver configuration interface, select the driver corresponding to the printer device, click【Next】, choose the appropriate model, click 【Enter】, and enter the installable options. Here, the default settings

are fine. Click **【Next】** to enter the printer description interface.

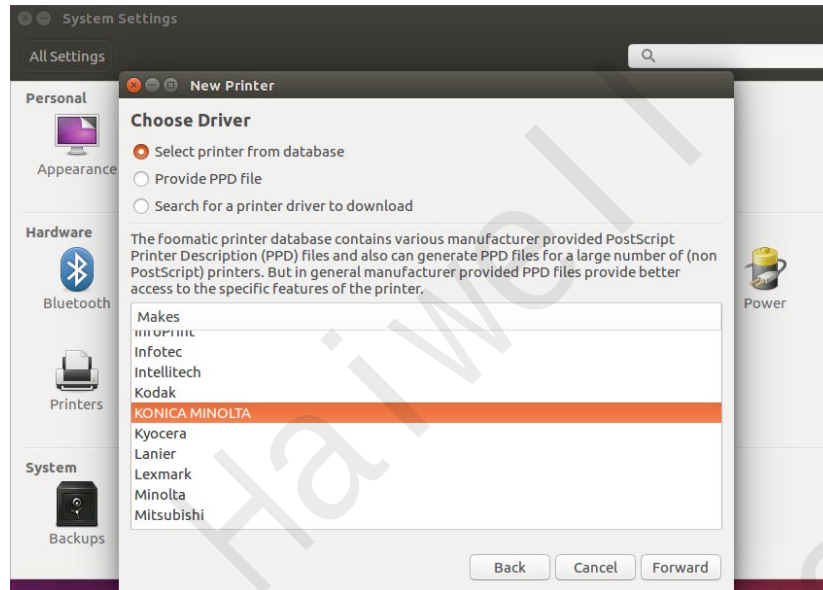


Figure13 Driver Settings

3.3 Complete Printer Configuration

Fill in the relevant information on the printer description interface. After filling in, click **【Apply】**. Wait for the printer to be added. Once the addition is successful, a print test page interface will pop up. Select **【Print Test Page】** to confirm whether the printer configuration is successful.

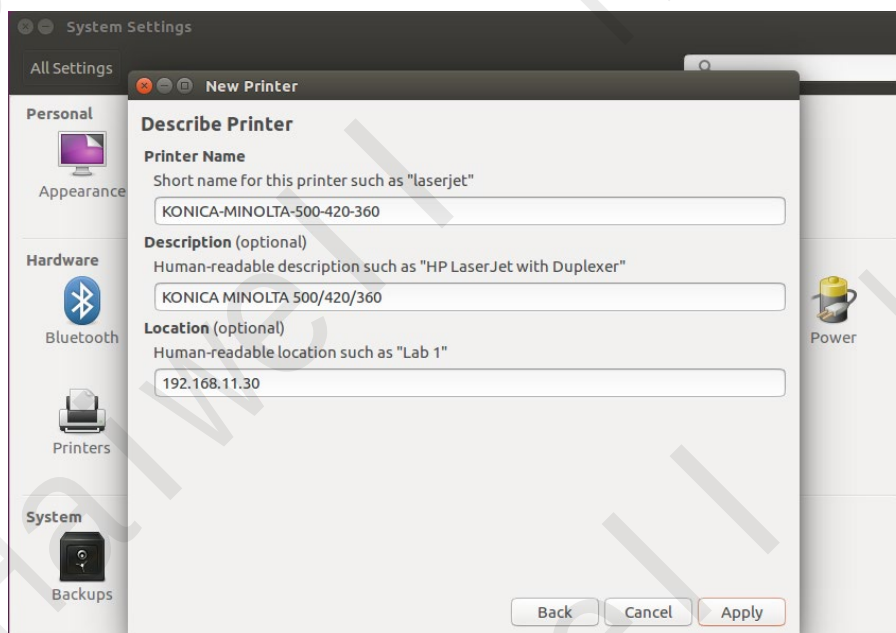


Figure14 Complete Printer Configuration

4. Screen Protection Settings

Click on **【Brightness and Lock Screen】** to enter the Brightness and Lock Screen interface and set the screen brightness and screen lock for screen protection.

4.1 Screen Brightness

In the drop-down box of the Brightness menu, select the time, which indicates that the screen will be

turned off if there is no operation during this time period.

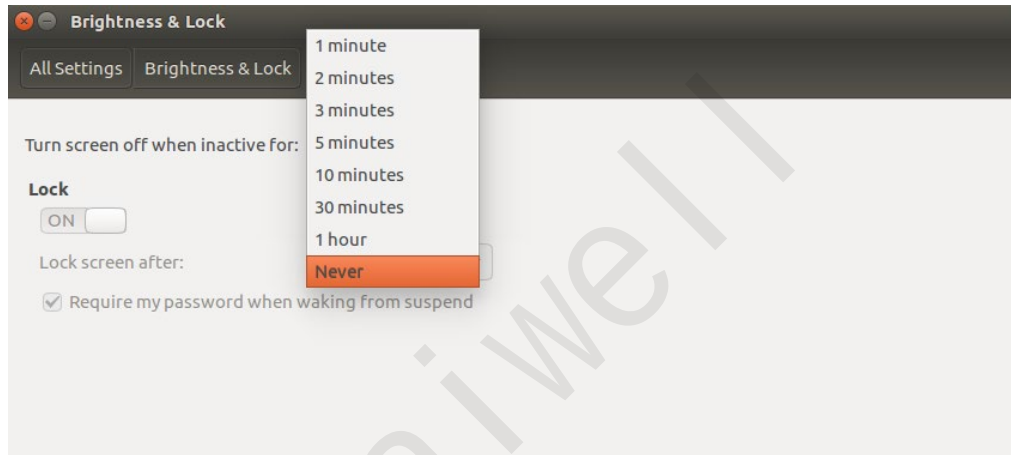


Figure15 Screen Brightness

4.2 Screen Lock

Turn on the **【Lock】** switch, and select the time in the drop-down box of the lock screen menu bar. This means that the screen will be locked if there is no operation within this time period.

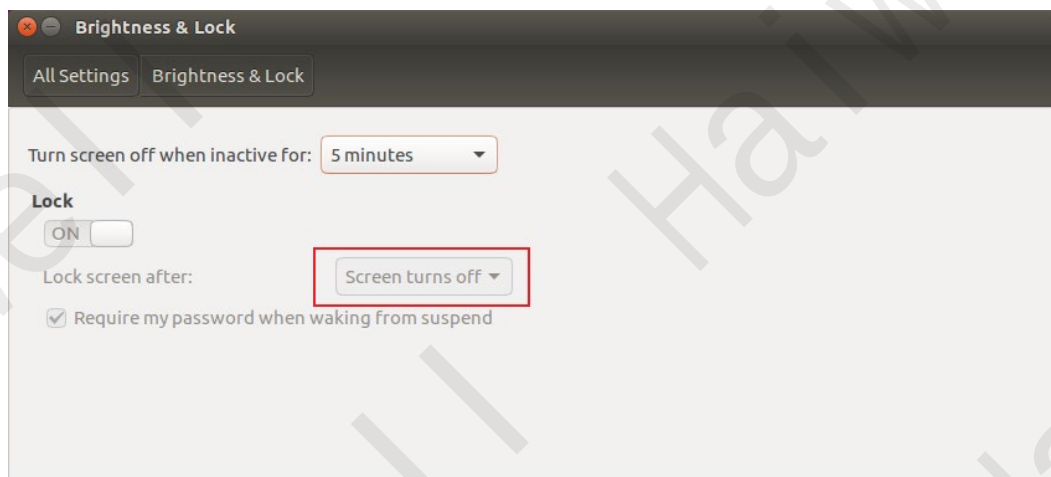


Figure16 Screen Locking

5. Date/Time Settings

Click on **【Date and Time】** to enter the date and time settings interface.

5.1 Adjusting Date and Time

In the **【Date and Time Interface】**, in the **【Set Time】** operation bar, set the time to **【Manual】** to customize the system time and date; set the time to **【Automatically Obtain from the Internet】** to obtain the time and date from the Internet by default.

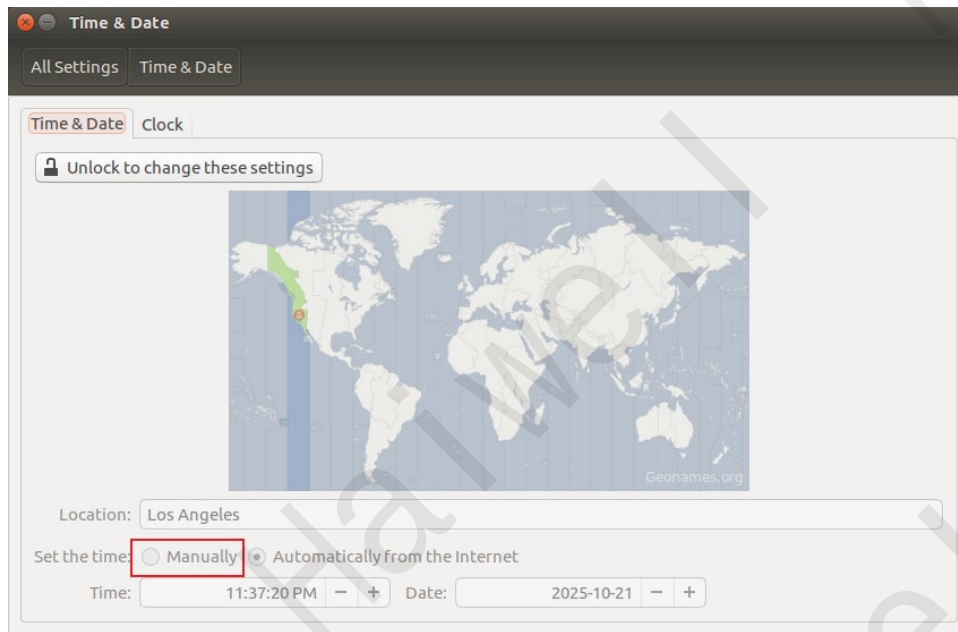


Figure17 Date and Time

5.2 Set Clock Format

Enter the **【Clock】** interface to set the display format of the clock and calendar.

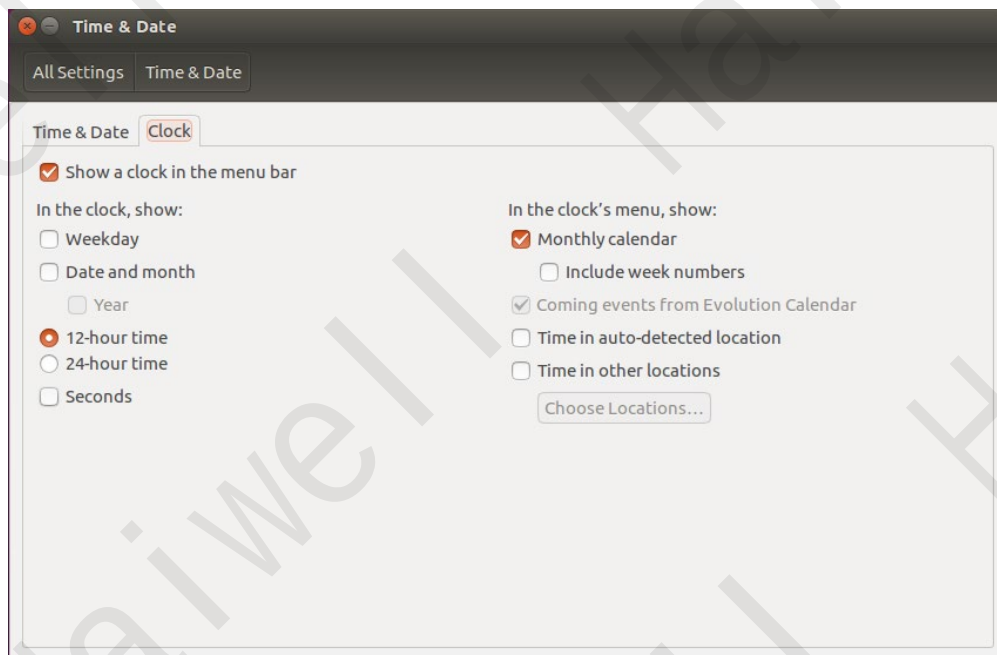


Figure18 Clock Format

6. View Hardware Information

Click on **【Detailed Information】** to enter the hardware detailed information interface, where users can view system hardware information, including device name, memory, processor, graphics, operating system type, and disk space.

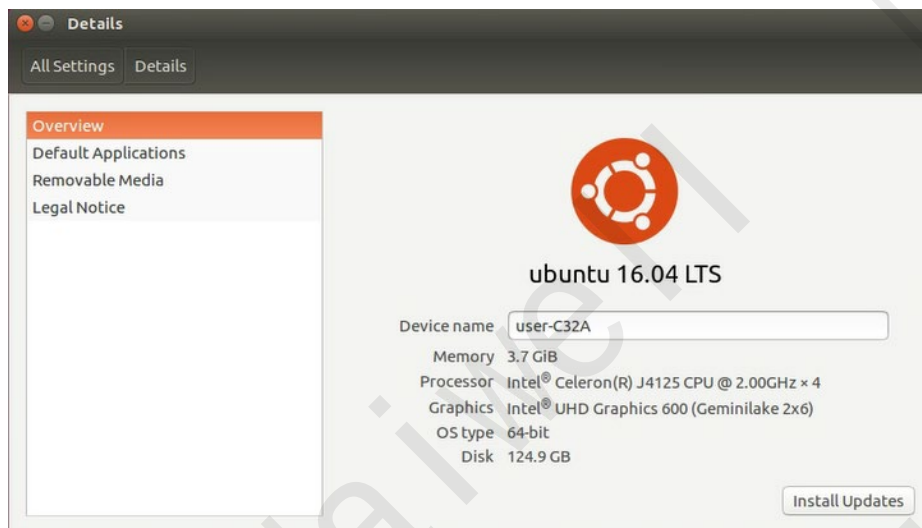


Figure19 Hardware Information

V. Linux Version IPC Project Usage

1. Downloading the Project

Step 1: Select the Device Model

Open the configuration software, create a new project, or click on **【Project Properties】** in the project browser to enter the project property configuration interface. In the **【Layout Information】** column, select the device model, which should be consistent with the current device model.

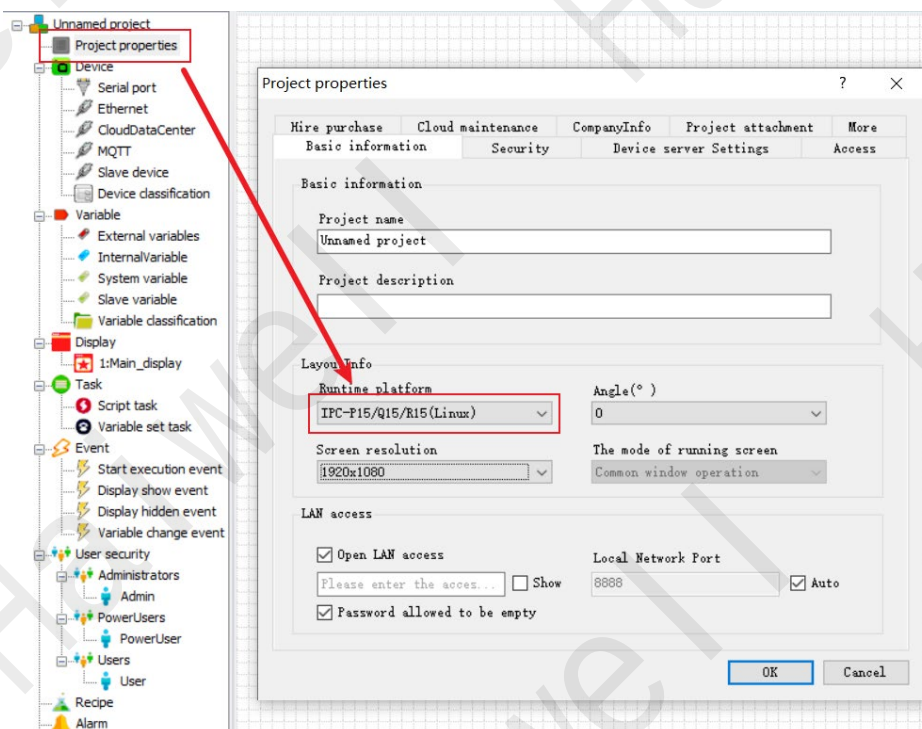


Figure20 Setting the Running Platform for New Project

Step 2: Download the project

Enter the device manager, use the local manager or cloud manager, click on **【Download Project】**, enter the confirmation download interface, users can check whether to retain historical records, alarm records and recipes, etc. After the settings are completed, click **【Confirm】**, wait for the prompt "Download

successful!" to pop up, click **【OK】**, and the project can be run on the device.

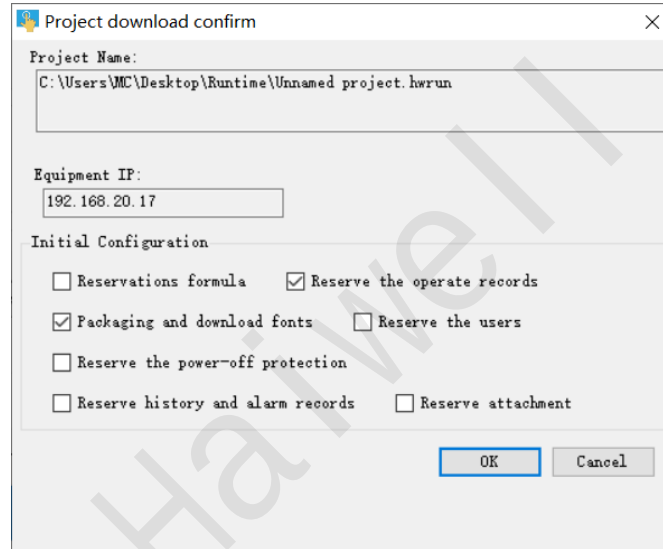


Figure21 Downloading Project

2. Running the Project

Double-click the Haiwell Scada runtime icon  on the desktop to run the configuration project and establish communication with devices such as PLCs through the current device.

3. Switch to Full-screen Window Mode

The device supports using the external keyboard shortcut **【F11】** to switch to full-screen window mode.

4. Exit the Project Operation

- ① The equipment supports using the external keyboard shortcut **【Ctrl+Q】** to exit the project operation.
- ② If an external keyboard cannot be connected due to on-site environmental restrictions, users can also add an "Exit Operation" function button through the configuration software. Clicking on this graphics in the operation end will exit the project operation. The operation method is as follows:

Add graphics: Expand the graphics library, select **【Functional Components】**, select **【Function Button】**, and add the current component to the screen.

Set function: Select **【Exit Operation】** in the function setting drop-down box.

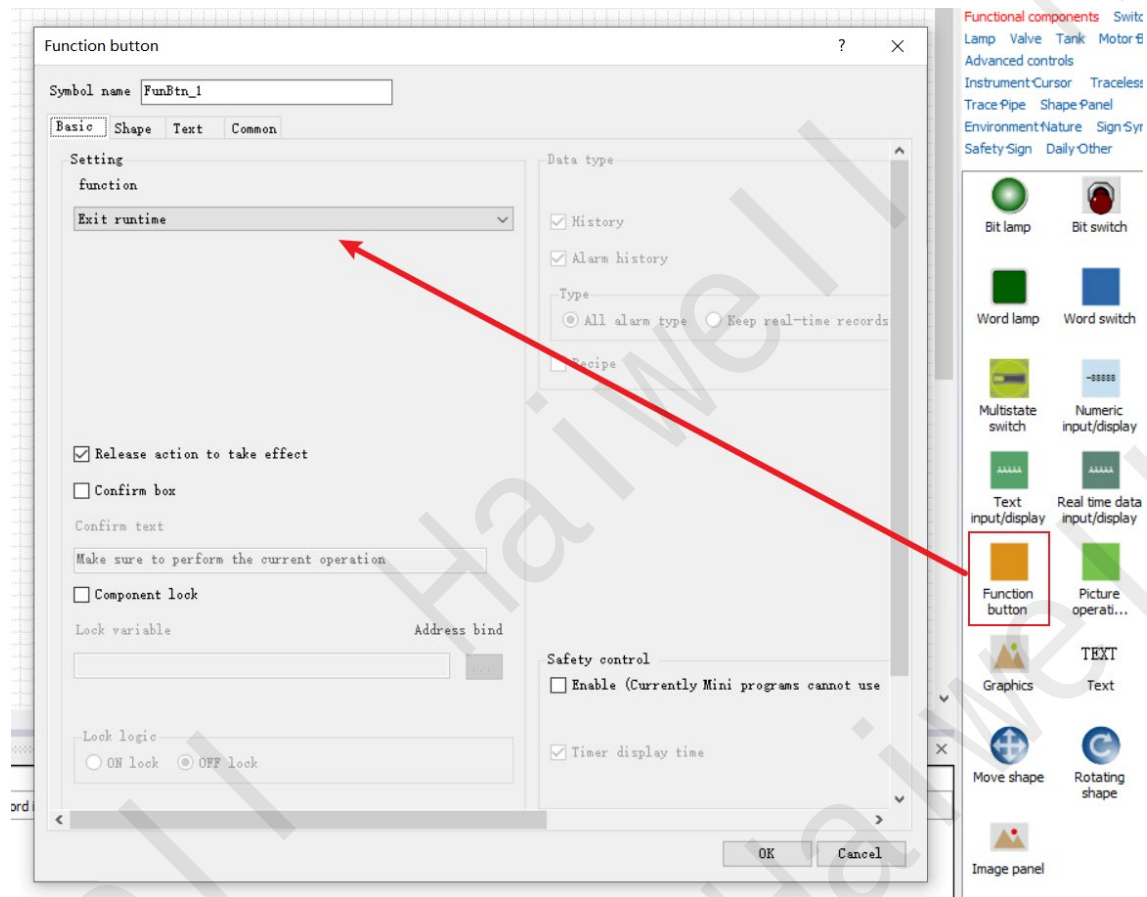


Figure22 Function Button Settings

VI. Linux Version IPC Remote Control Device

1. Binding the Device

Step 1: Double-click the **【Haiwell Cloud Setting】**  icon on the device desktop to pop up the QR code for cloud settings.



Figure23 Open Cloud Settings

Step 2: Log in to the APP on your mobile phone. Users can scan the QR code at the top left corner

of the main interface to add the device. A confirmation prompt box will pop up on the device. Click **【OK】** to successfully add the device. Users can remotely access the device and use the external keyboard shortcut **【Ctrl+Q】** to exit the cloud settings interface.

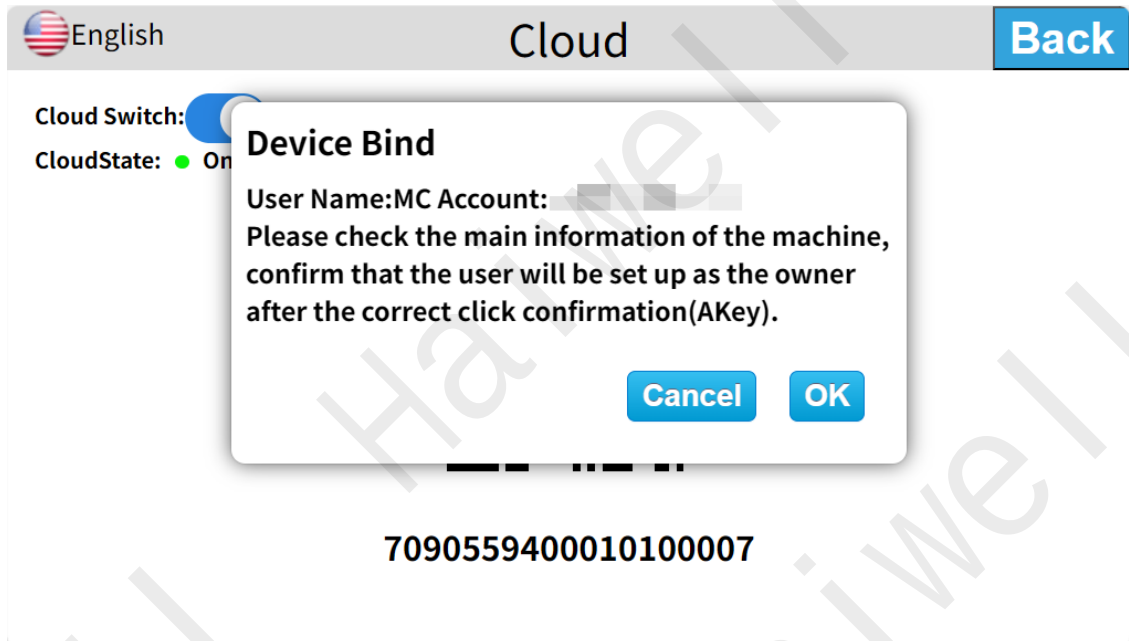


Figure24 Device Binding



Figure25 Cloud Settings Information

2. Remote Control

Open the mobile phone APP and enter the cloud device interface; select the device and click **【Direct Access】**, then users can access the device. If the current project allows remote operation, users can remotely control the device via their mobile phones.



Figure26 Remote Access via Mobile Phone

VII. Device Management Tools

To access the device management tools, open the configuration design end on your computer, click on the device management tool  icon in the menu bar to enter the device management tools; or click on **【Tools】**, then click on **【Device Management Tools】**. It supports both local management and cloud management to effectively control devices.

1. Local Management

Enter the device management tool, click on **【Local Management】**, select the device based on the IP address set for the device, and click **【Manage】** to enter the current device manager. Users can operate the current device as shown in the following figure:

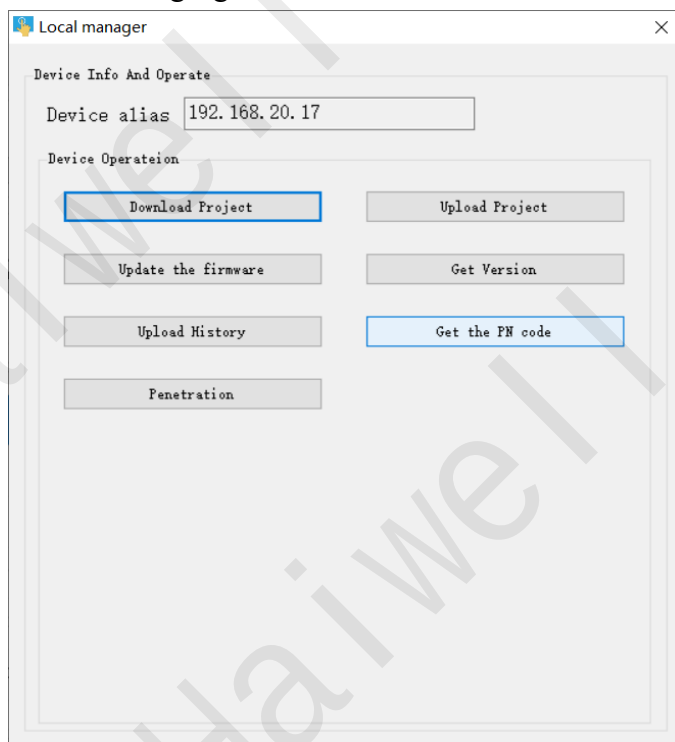


Figure27 Local Management

1.1 Download Project

Click on **【Download Project】** to enter the confirmation download interface. Users can check whether to retain historical records, alarm records, and recipes, etc. After setting, click on **【Confirm】**. Wait for the prompt "Download successful!" to pop up, then click on **【OK】**. The project can then be run on the device.

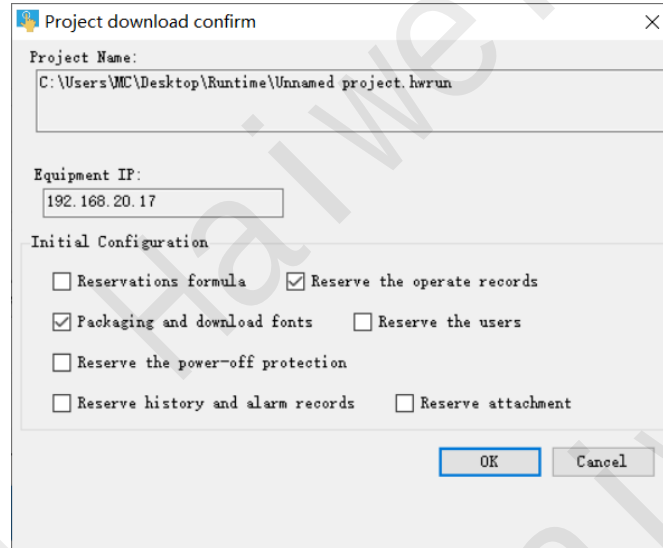


Figure28 Downloading Project

1.2 Uploading the Project

Click on **【Upload Project】**, select the project upload path and project name, and click Save. Enter the project upload confirmation interface, input the upload password, and click **【OK】** to upload to the computer. (When designing the project, **【Allow Project Upload】** needs to be checked to be able to upload the project.)

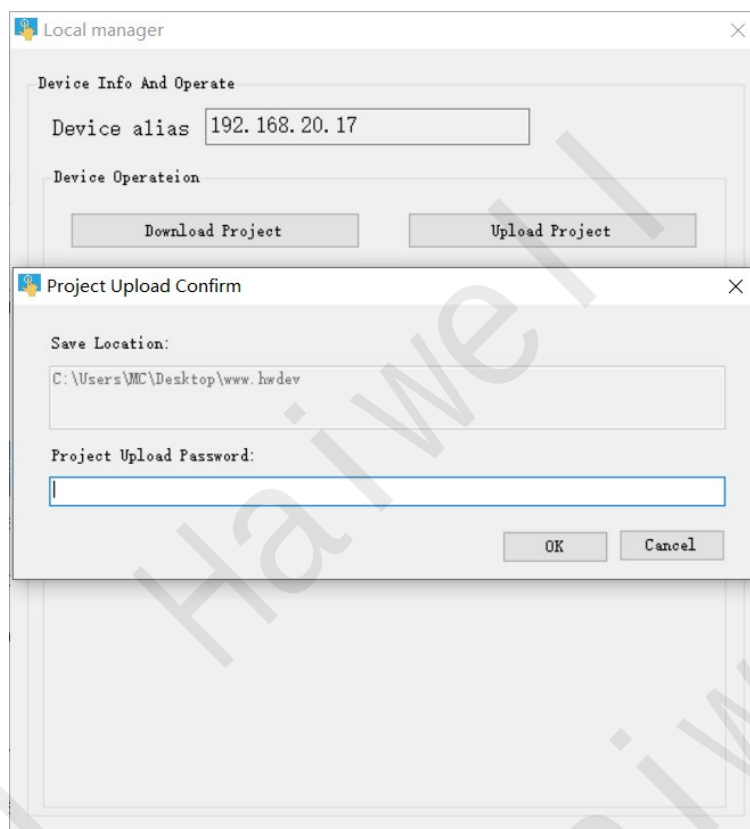


Figure29 Uploading Project

1.3 Update Firmware

Click on **【Update Firmware】**. By default, the current configuration firmware package will be automatically selected. Click on **【OK】** and wait for the update to complete. A prompt box will pop up saying "Update successful!", click on **【OK】**.

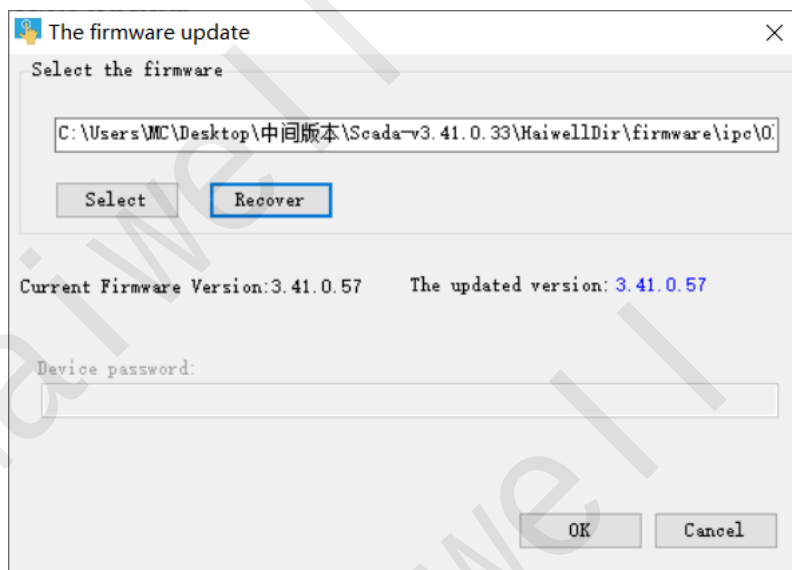


Figure30 Update Firmware

1.4 Get PN Code

Click on **【Get PN Code】** to view the current device's PN code.

1.5 Check Version

Click on **【Check Version】** to view the software version information of the current device.

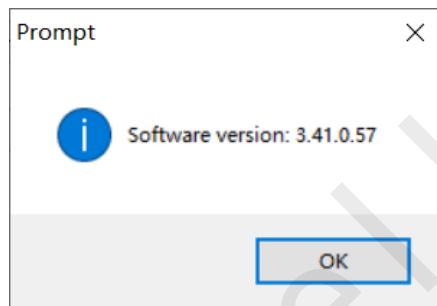


Figure31 Software Version

2. Cloud Management

Enter the device manager and click on **【Cloud Management】**, where users can choose to log in with your mobile phone or email. Note: A Key and B Key can be managed for the current device through the cloud manager. Visitors do not have device management permissions.

After entering the correct account and password, click **【Login】** to enter the device manager. Select the device and click **【Manage】** to enter the current device manager, where users can operate the current device as shown in the following figure:



Figure32 Cloud Management

2.1 Download Project

Click on **【Download Project】** to enter the confirmation download interface. Users can check whether to retain historical records, alarm records, and recipes, etc. After setting, click on **【Confirm】**. Wait for the prompt "Download successful!" to pop up, then click on **【OK】**. The project can now be run on the device.

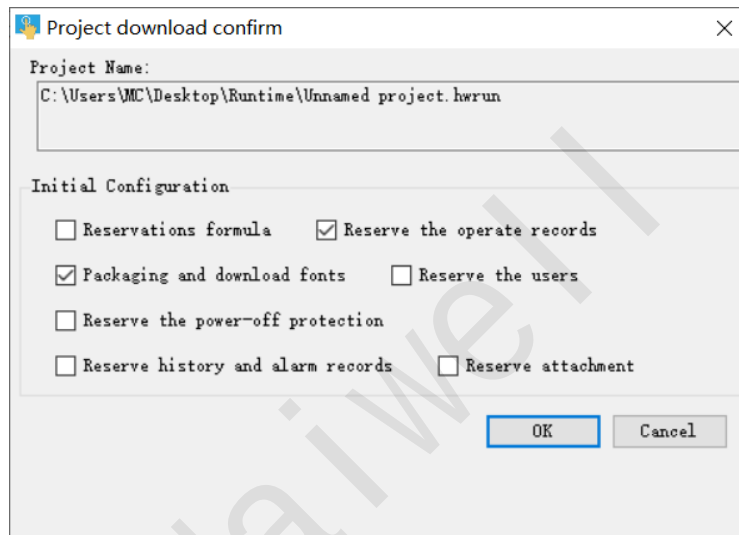


Figure33 Downloading Project

2.2 Uploading the Project

Click on **【Upload Project】**, select the project upload path and project name, and click Save. Enter the project upload confirmation interface, input the upload password, and click **【OK】** to upload to the computer. (When designing the project, **【Allow Project Upload】** needs to be checked to be able to upload the project.)

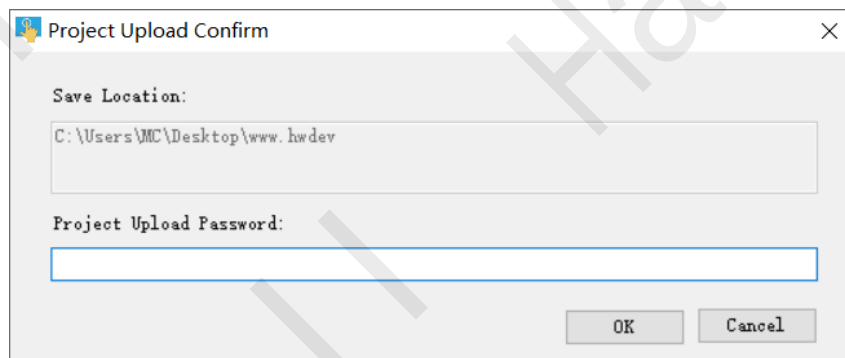


Figure34 Uploading Project

2.3 Update Firmware

Click on **【Update Firmware】**. By default, the current configuration firmware package will be automatically selected. Click on **【OK】** and wait for the update to complete. A prompt box will pop up saying "Update successful!", click on **【OK】**.

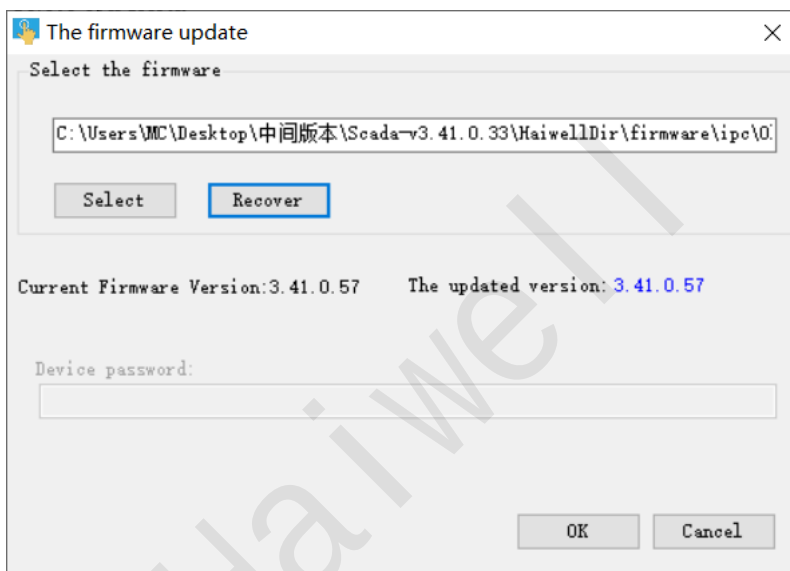


Figure35 Update Firmware

2.4 Check Version

Click on **【Check Version】** to view the software version information of the current device.

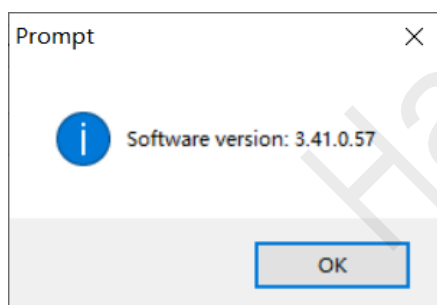


Figure36 Software Version

VIII. Quick Start for Windows Version IPC

1. Interface Diagram

Same as Linux version.

2. Project Execution

Step 1: Select the Execution Platform

Open the configuration software, create a new project, or click on **【Project Properties】** in the project browser to enter the project property configuration interface, and select PC in the **【Layout Information】** column.

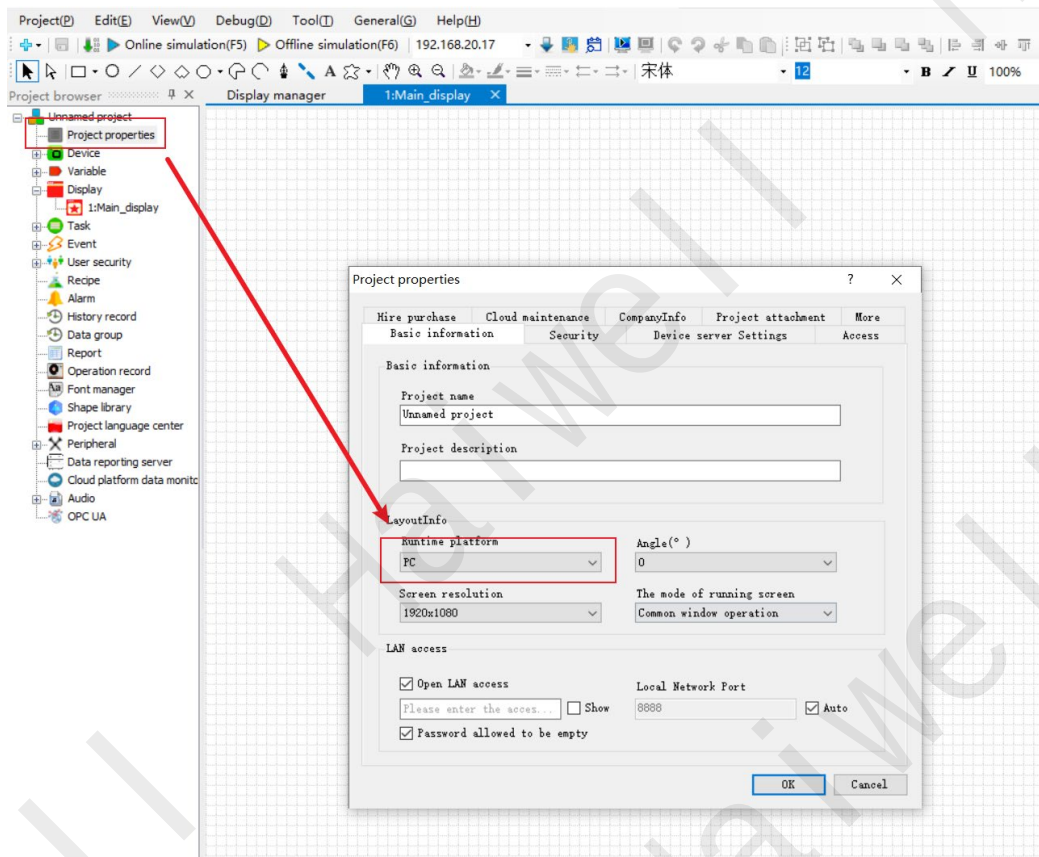


Figure37 Operating Platform

Step 2: Online Simulation or Generation of Running Files

If users need to run the project, users can do so through online simulation. Or, after generating the running file, double-click to open and run the project.

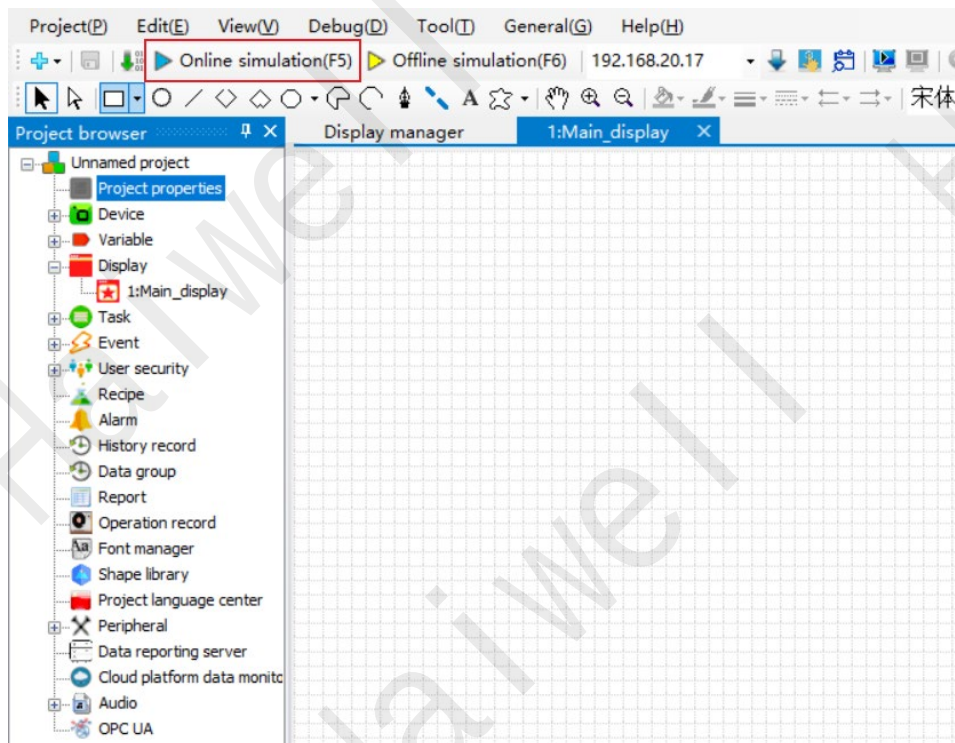


Figure38 Online Simulation

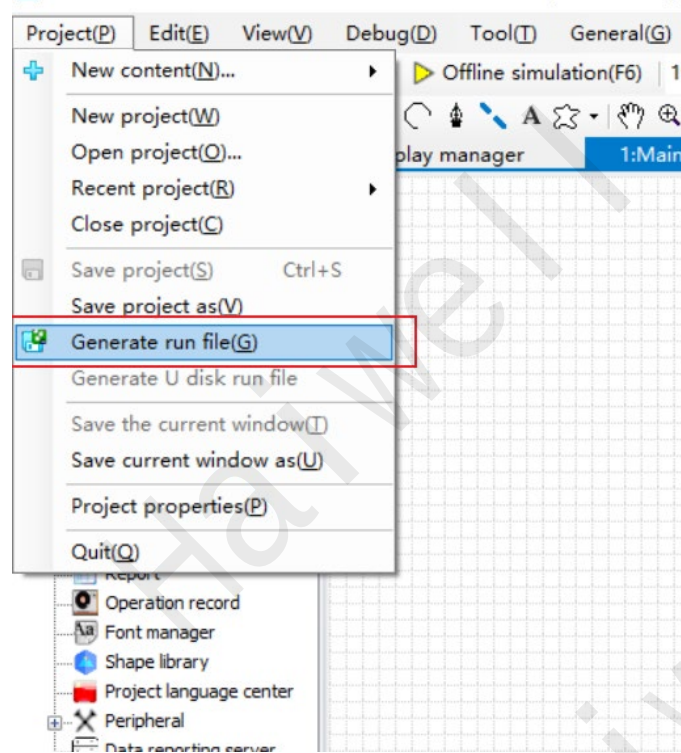


Figure39 Generate Run File

3. Binding Devices

Step 1: Press **【Ctrl + Shift + S】** on the project running page to pop up the QR code for cloud settings.



Figure40 Open Cloud Settings

Step 2: Log in to the APP on your mobile phone. Users can scan the QR code at the top left corner  of the main interface to add the device. A confirmation prompt box will pop up on the device. Click **【OK】** and the device will be added successfully. Users can access the device remotely.

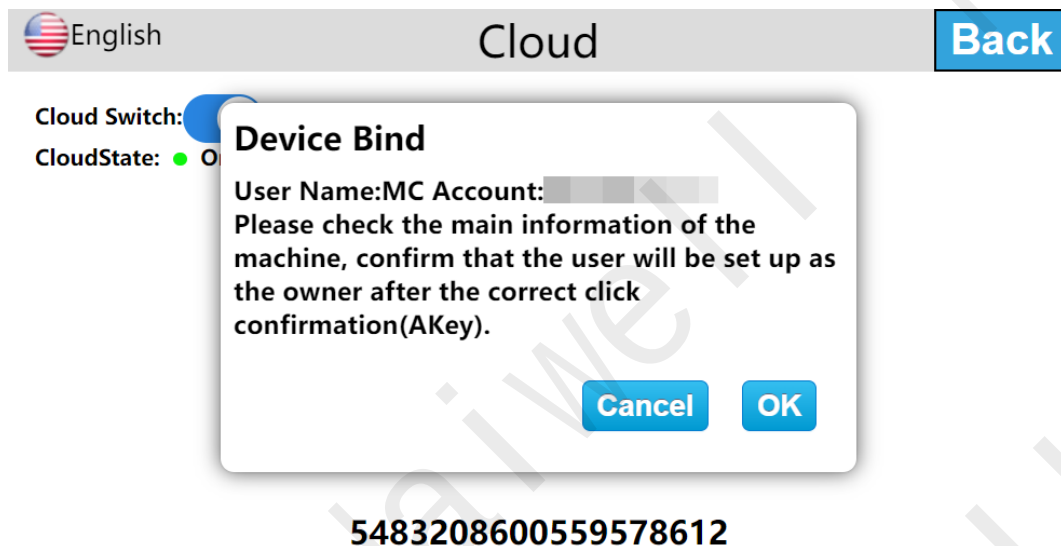


Figure41 Device Binding

4. Remote Control

Open the mobile phone APP and enter the cloud device interface; select the device and click **【Direct Access】**, then users can access the device. If the current project allows remote operation, users can remotely control the device via their mobile phones.



Figure43 Remote Access via Mobile Phone

IX. FAQs

1. How can one exit from the running project page to the desktop in the Linux version of IPC?

- ① If the device supports the use of an external keyboard, the shortcut key **【Ctrl + Q】** can be used to exit the project operation.
- ② If an external keyboard cannot be connected due to on-site environmental restrictions, the "Exit Operation" function button can be added through the configuration software. Clicking on this graphics at

the operation end will exit the project operation.

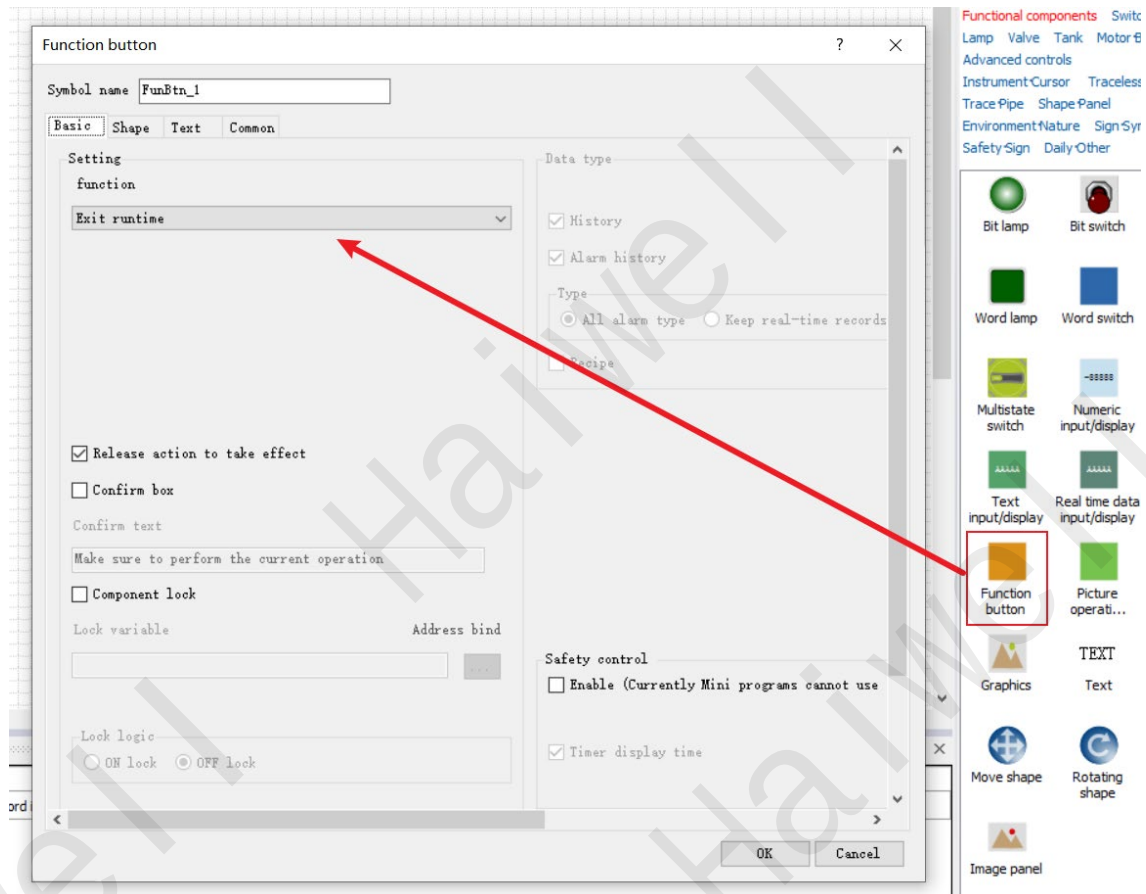


Figure44 Exit Operation

2. What is the upload password for the Linux version IPC factory demonstration project?

The upload password for the IPC factory demonstration project is AHMI.

3. What is the role of the VGA/HDMI interface in the Linux version of IPC?

IPC can be connected to a monitor or other large display screens through the VGA/HDMI interface to display various operation interfaces, monitoring images and data information. This connection method enables users to conveniently view the HMI from a distance through a monitor or other large display screens.

4. After the Linux version IPC boots up and the project is running, how to set the network information?

- ① Connect an external keyboard and use the F11 shortcut key to run the project in the background.
- ② Enter System Settings -> Network Settings; for the specific operation process, please refer to 2.

Network Settings.

5. What version of the Windows operating system is pre-installed on the Windows version IPC? Is it activated?

The device is pre-installed with an unactivated Microsoft Windows 10 Pro operating system. Users must activate it and obtain a legal license through official Microsoft channels by themselves.

6. Is the configuration pre-installed on the Windows version of IPC? If so, what version is it?

The Windows system IPC comes with a pre-installed configuration, which is the latest version available on the official website.