HT3000-D Series Intelligent HMI User Manual

High-definition and high-speed intelligent HMI

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一、 Product description

1. The main function

The HT3000 embedded system is developed based on the embedded Linux system . It is an embedded system software that runs on industrial automation monitoring and management equipment. By running the configuration project, you can intuitively observe the industrial site conditions and communicate with various industrial control equipment. Communicate and monitor the production signals collected from the industrial site. Alarm information on industrial sites is notified to relevant staff in a timely manner through screens, computer languages, WeChat, text messages, emails, etc. Support the use of network engineering, so that multiple devices can act as clients and servers for each other, share data through the network, and achieve distributed control. Supports recording and storing data. Analyze and make statistics on recorded real-time working condition data and historical working condition data to solve production faults, improve production efficiency, and improve product quality.

2. Core Highlights

- LAN interconnection: Instant connection with mobile phones, tablets, computers, TVs, cameras and other HMIs
- Internet of Things function : Instantly connect to mobile phones, tablets, computers, TVs, cameras and other HMIs through the Internet
- Remote access: Breaking the traditional VNC solution, no need for secondary configuration, what you see is what you get; supports simultaneous asynchronous or synchronous monitoring by multiple people
- Data security: All data can be transferred and stored to designated servers, supporting local or public network deployment, safe and controllable
- Open interface : Supports MQTT, OPCUA, HTTP, TCP and other interfaces to easily connect with ERP, MES and other third-party applications
- Screen integration: Third-party software, APPs, applets and other applications can be directly embedded into the HMI screen to instantly have the remote control capabilities of the device.
- Equipment intelligence: supports text-to-speech broadcasting, full-scene voice intercom, audio file playback, camera monitoring and other applications
- Electronic signage: By networking with TVBOX , it can easily meet large-screen application scenarios such as data visualization and centralized equipment monitoring, and realize smart factories.
- A new definition of HMI: the entire series adopts high-definition screen and narrow bezel design

二、 Product specifications

Specification	model	HT3000-D4	HT3000-D7	HT3000-D10	HT3000-D15
show	monitor	4.3 〃 TFT	7 〃 TFT	10.1 〃 TFT	15.6 〃 TFT
	resolution	800x480 pixels	1024x600 pixels	1 280 x 8 00 pixels	1920x1080 pixels
	color	16.7M			262K
	brightness	450 cd / m2			350 cd / m2
	Viewing angle	8 0 '/8 0 '/8 0 '/8 0 '	85'/85'/85'/85'	85'/85'/85'/85'	85'/85'/85'/85'
	Touch type	Resistive			
backlight	Backlight type	led			
	Backlight life	5 0,000 hours			
	Automatic sleep function	Supported, configurable			
hardware	CPU	Quad-core A7 processor	Quad-core A53 processor		
	Flash	4GB _			

	Memory (RAM)	512M	1G		
	Ethernet port	10/100Base-T *1	10/100 Base-T *1 10/100/ 10 00 Base-T *1		10/100Base-T *1
	serial interface	COM1: RS232*1 COM2: RS485*1	COM1: RS232*1 COM2: RS485*1 COM3: RS485*1		
	USB HOST	USB2.0 *1	USB2.0 * 2		
	RTC	Built-in real-time clock			
power supply	Input power	24V DC ±20%			
	Power consumption	6 W @24VDC	8W@24VDC	10W@24VDC	15W@24VDC
	Power protection	Equipped with surge protection and anti-reverse connection protection			
	Withstand voltage	500VAC			
	Insulation resistance	More than 50MΩ @500VDC			
	Vibration resistant	10~25 Hz (X, Y, Z axis 2G/30 minutes)			
environment	cooling method	Natural wind cooling			
	Protection level	The panel complies with IP65 and the body complies with IP20			
	Storage environment temperature	-20 ~70℃			
	Operating ambient temperature	-10℃~60℃			
	Relative humidity	10 ~ 90% RH (no condensation)			
	Usage environment	Dust-proof, moisture-proof, corrosion-proof, and free from electric shock and external impact.			
shape	shell material	Engineering plastic ABS (flame retardant grade)			Aluminum alloy shell, glass panel
	Overall dimensions (WxHxD)	137x85x30mm _	194x120x32mm	261x168x33mm	394x256x41mm
	Opening size (WxH)	1 32x80mm	187x114mm	254x161mm	383x245mm
	weight	0.3kg _ _	0.8kg	1.3kg	2.6kg
	Installation method	Panel mounting			
Function	WiFi (optional)	802.11b/g/n			
	Wireless network (optional)	4G (full network)			
software	Programming management software	HTCloud Designer			

4.3 -inch intelligent HMI

model	TFT screen	storage	LAN	USB	COM	voice	WIFI	wireless network	Hole Size	Product size W*H*D
D4	4.3 " 800 * 480 HD screen	4G +512M	1	1	2	support			132x80mm	137x85x30mm _
D4W		4G +512M	1	1	2	support	have			
D4E		4G +512M	1	1	2	support		Global 4G		

7-inch intelligent HMI

model	TFT screen	storage	LAN	USB	COM	local video	voice	WIFI	wireless network	Hole Size	Product size W*H*D
D7	7" 1024 * 600 _ HD screen	4G + 1G	2	2	3	support	support			187x114mm	194x120x32 mm
D7W		4G + 1G	2	2	3	support	support	have			
D7E		4G + 1G	2	2	3	support	support		Global 4G		

10.1 -inch intelligent HMI

model	TFT screen	storage	LAN	USB	COM	local video	voice	WIFI	wireless network	Hole Size	Product size W*H*D
D10	10.1 " 1280 * 800 HD screen	4G + 1G	2	2	3	support	support			254x161mm	261x168x33 mm
D10W		4G + 1G	2	2	3	support	support	have			
D10E		4G + 1G	2	2	3	support	support		Global 4G		

15.6 -inch intelligent HMI

model	TFT screen	storage	LAN	USB	COM	local video	voice	WIFI	wireless network	Hole Size	Product size W*H*D
D15	15.6 " 1920 * 1080 HD screen	4G + 1G	1	2	3	support	support			383x245mm	394x256x41mm _
D15W		4G + 1G	1	2	3	support	support	have			
D15E		4G + 1G	1	2	3	support	support		Global 4G		
D15EW		4G + 1G	1	2	3	support	support	have	Global 4G		

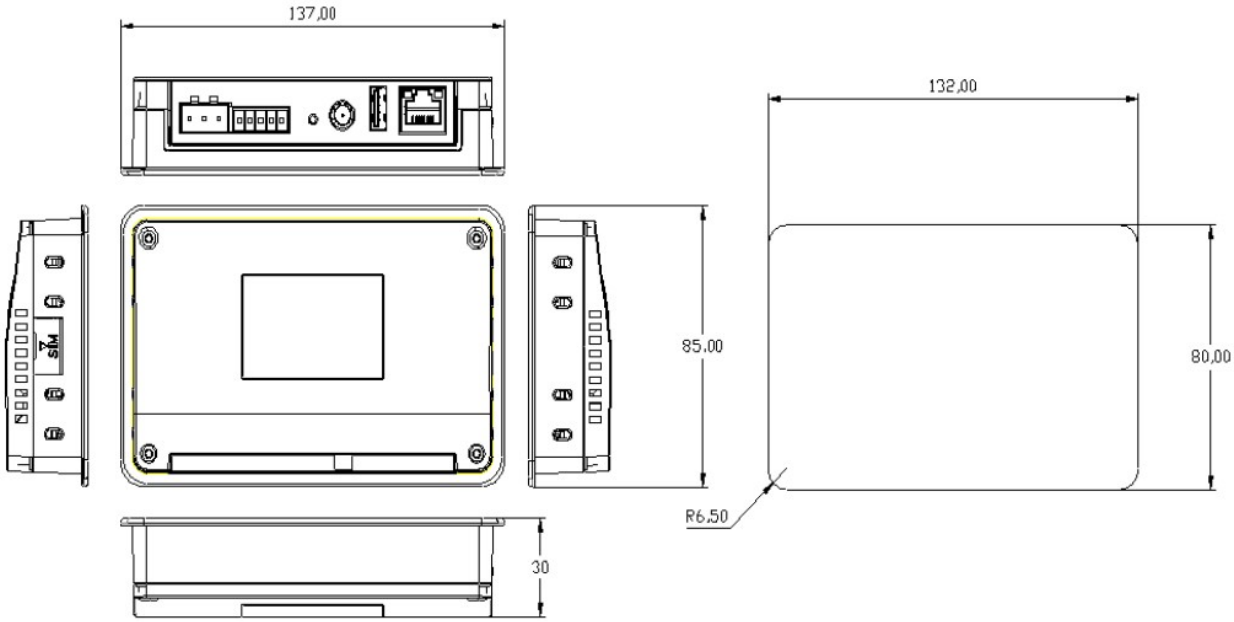
三、 HMI supporting software

1. HT3000 needs to be used with HTCloud Designer editing software. Please download from HNC official website: www.hncelectric.com
2. It is also recommended to download Cloud APP “IoTBus”
3. Cloud APP “IoTBus” download:

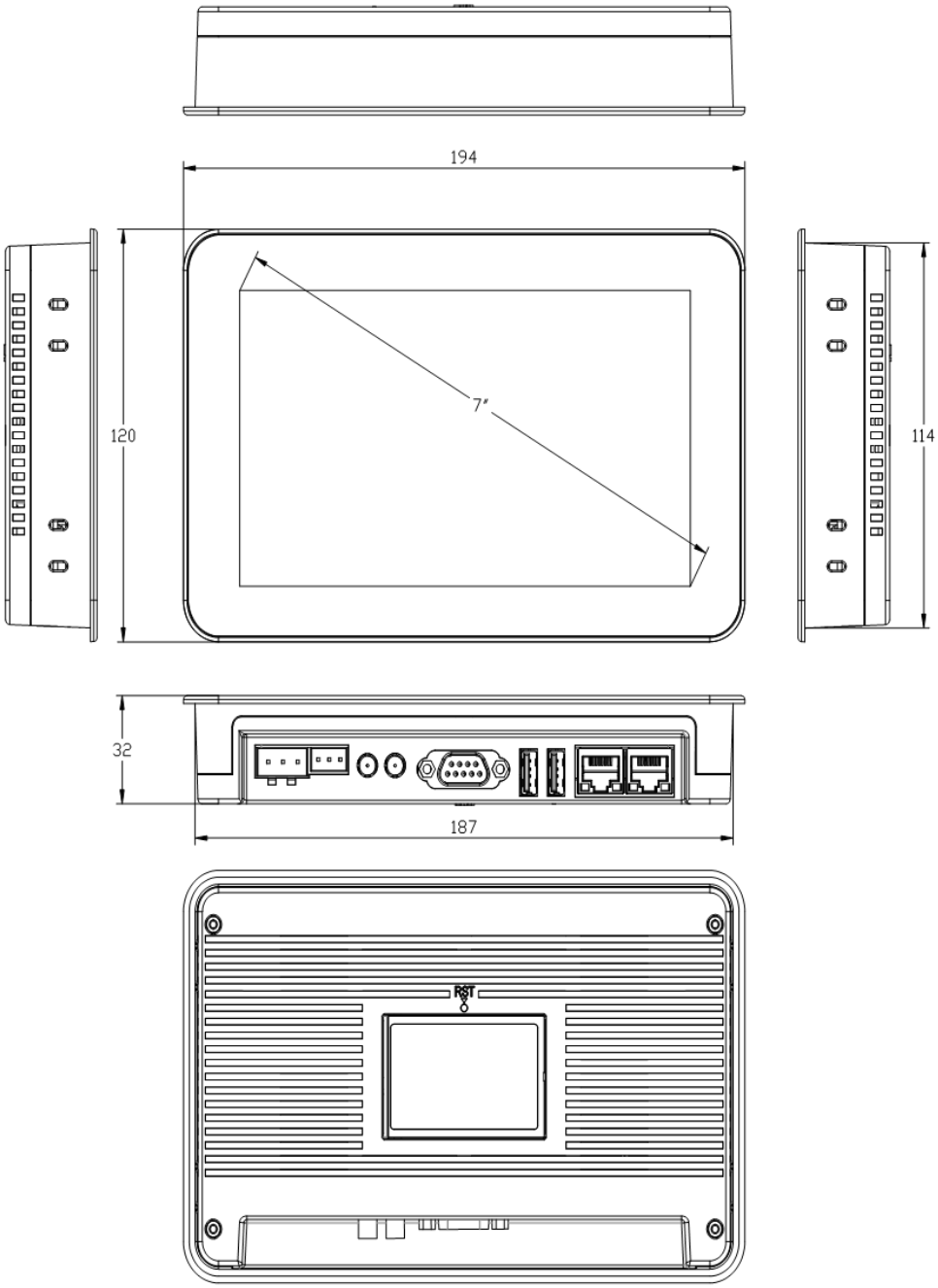
- ✓ Login and download from Cloud website: http://www.iotbus.net/#/login?language=en
- ✓ For iOS terminal, it can search and download "IoTBus"APP in Apple App Store.
- ✓ Scan the QR code below to download.

三、 Product Size

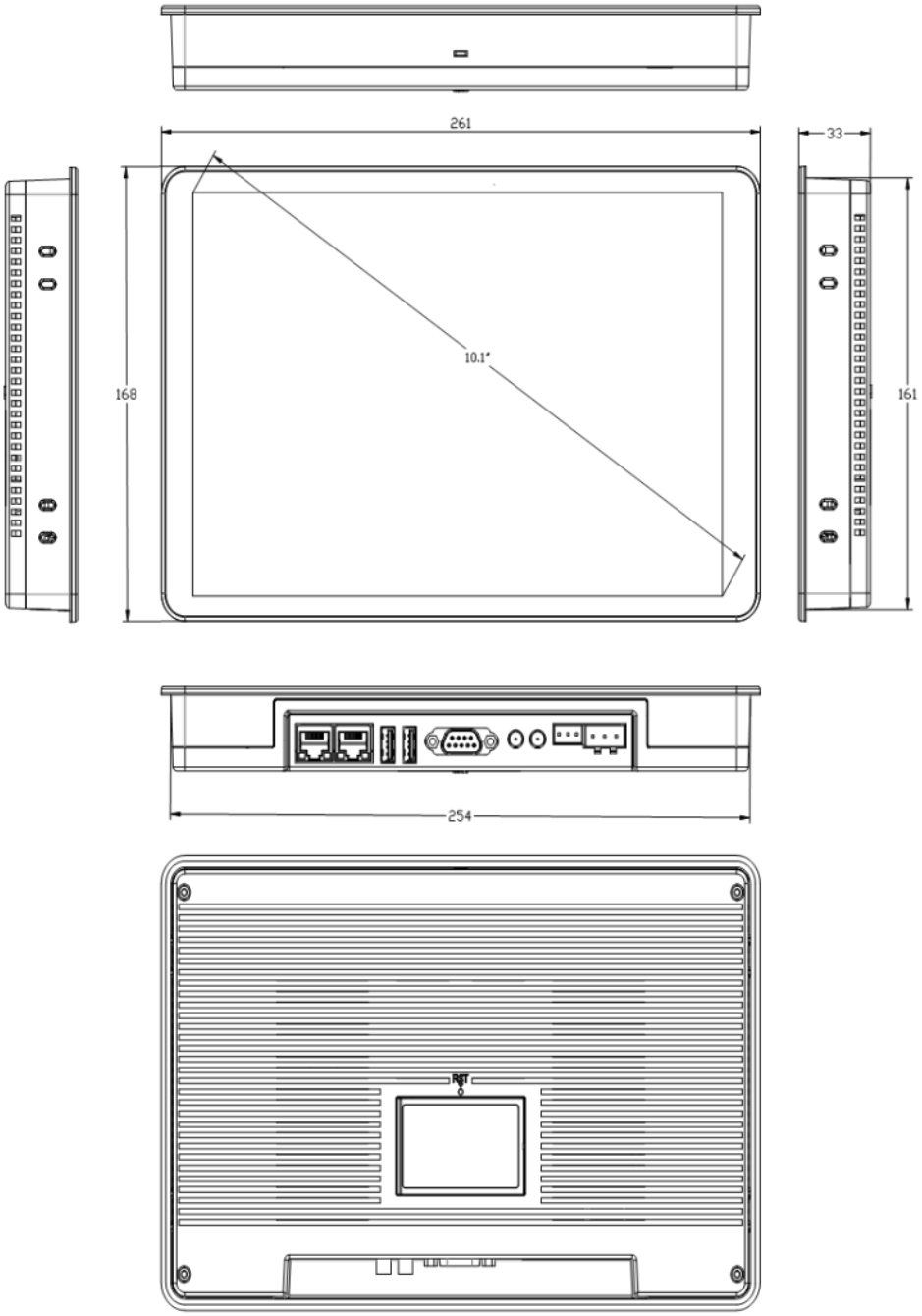
1. D4



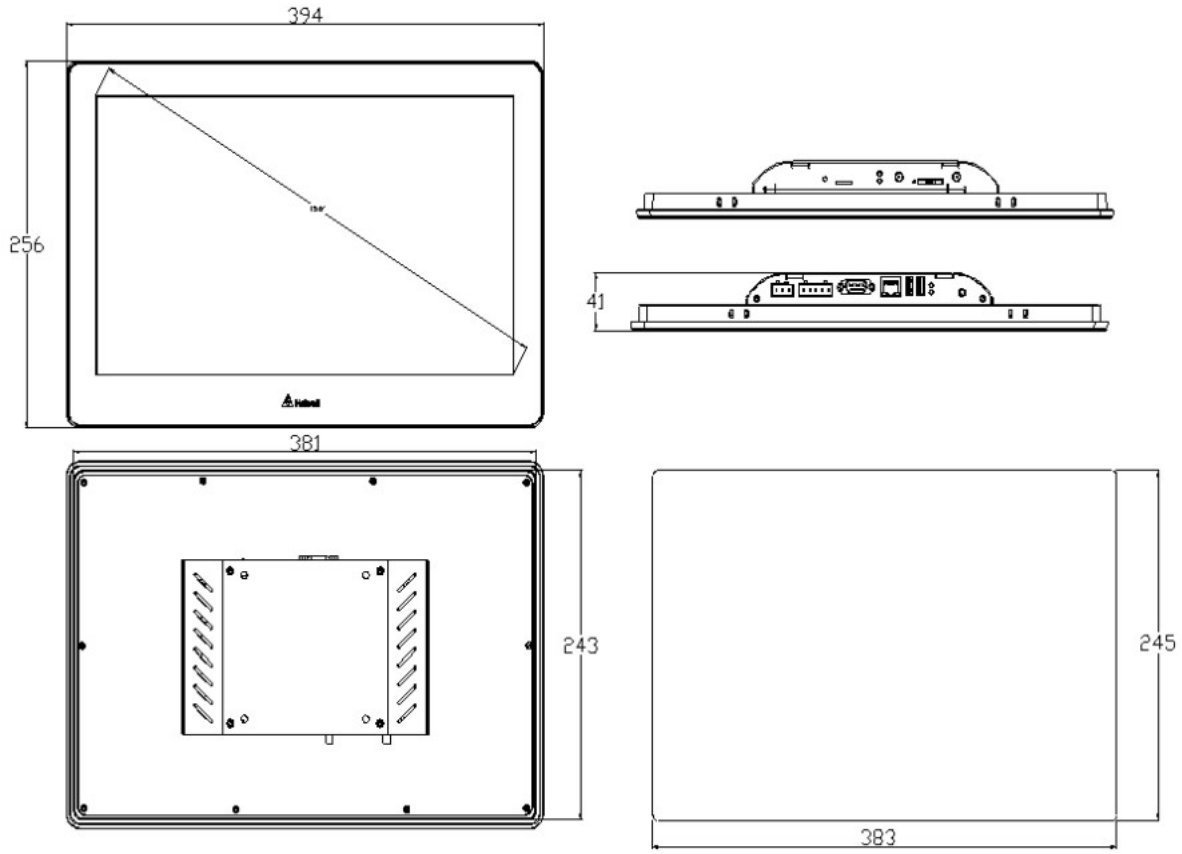
2. D7



3. D10

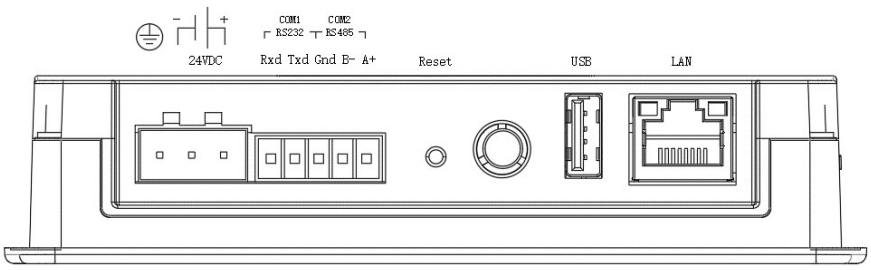


4. D15

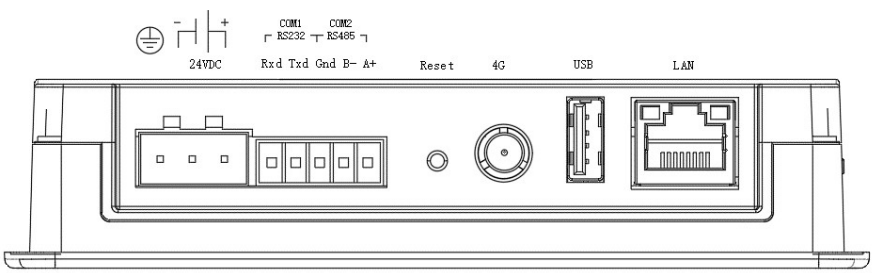


4 HMI interface diagram

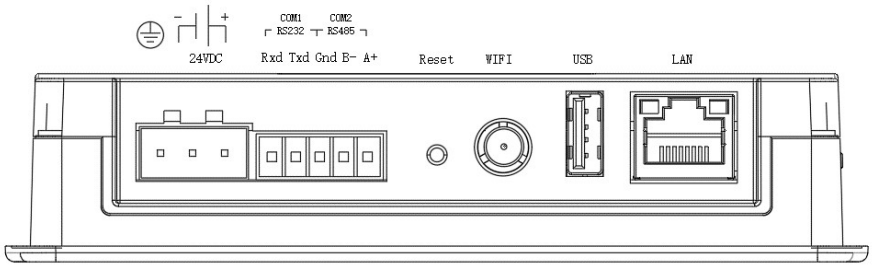
1. D4



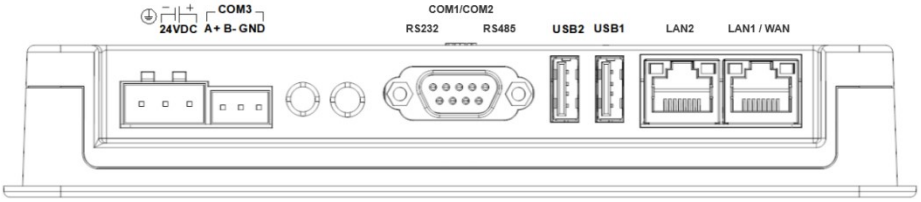
2. D4E



3. D4W

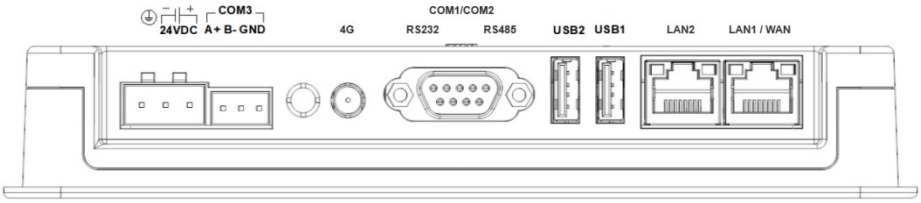


4. D7/D10



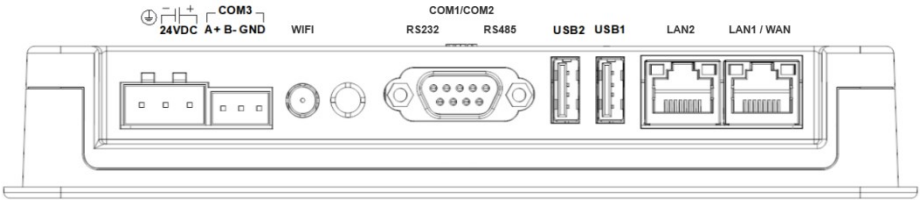
COM1 /2 pin definition			
pin	definition	pin	definition
1	Carrier Detect (DBD)	6	Data ready (DSR)
2	Accept data (RXD)	7	N.B.
3	Send data (TXD)	8	N.B.
4	N.B.	9	N.B.
5	Signal ground (SG)		

5. D7E/D10E



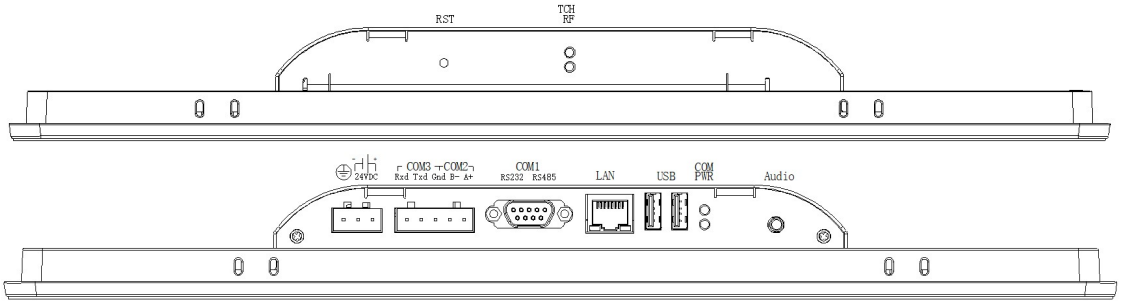
COM1 /2 pin definition			
pin	definition	pin	definition
1	Carrier Detect (DBD)	6	Data ready (DSR)
2	Accept data (RXD)	7	N.B.
3	Send data (TXD)	8	N.B.
4	N.B.	9	N.B.
5	Signal ground (SG)		

6. D7W/D10W



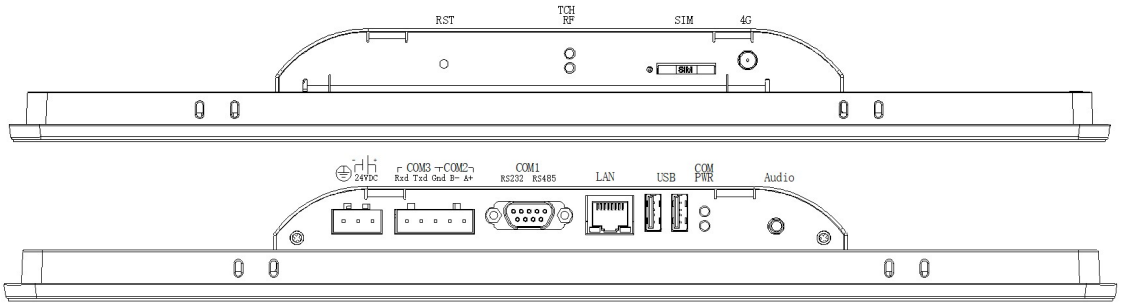
COM1 /2 pin definition			
pin	definition	pin	definition
1	Carrier Detect (DBD)	6	Data ready (DSR)
2	Accept data (RXD)	7	N.B.
3	Send data (TXD)	8	N.B.
4	N.B.	9	N.B.
5	Signal ground (SG)		

7. D15



COM 1 pin definition			
pin	definition	pin	definition
1	Carrier Detect (DBD)	6	Data ready (DSR)
2	Accept data (RXD)	7	N.B.
3	Send data (TXD)	8	N.B.
4	N.B.	9	N.B.
5	Signal ground (SG)		

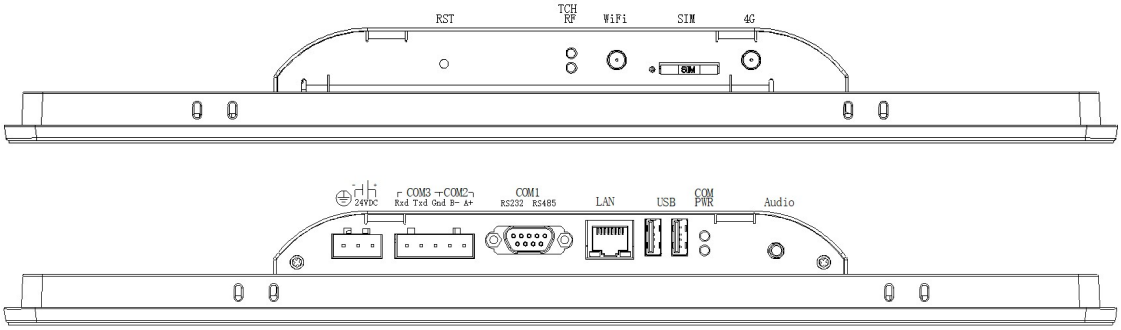
8. D15E



COM 1 pin definition			
pin	definition	pin	definition
1	Carrier Detect (DBD)	6	Data ready (DSR)

2	Accept data (RXD)	7	N.B.
3	Send data (TXD)	8	N.B.
4	N.B.	9	N.B.
5	Signal ground (SG)		

9. D15W/D15EW



COM 1 pin definition			
pin	definition	pin	definition
1	Carrier Detect (DBD)	6	Data ready (DSR)
2	Accept data (RXD)	7	N.B.
3	Send data (TXD)	8	N.B.
4	N.B.	9	N.B.
5	Signal ground (SG)		

5 HMI installation and use

1. Hardware installation

1.1 Precautions

① The installation direction must be in accordance with the provisions of this manual, and wiring must be strictly in accordance with the direction marked on the terminals, otherwise it may cause product failure or burnout.

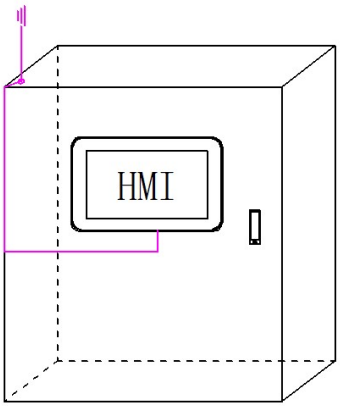
② Sufficient space must be maintained between the product and other components at the bottom to avoid equipment damage caused by poor heat dissipation.

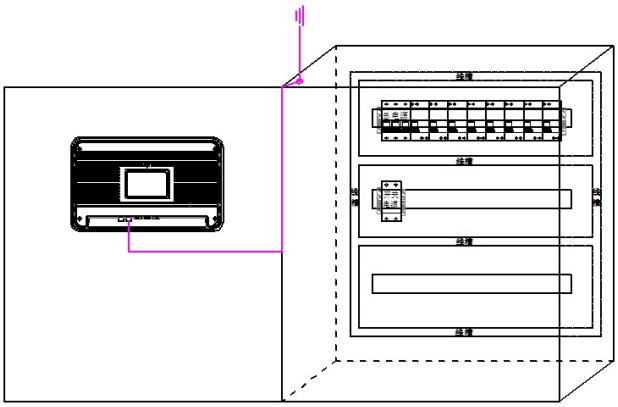
1.2 Hardware installation steps

Install the HMI into the opening panel and lock the four buckles on the side with the installation panel.

2. Antenna installation

HT3000-D HMI is optionally equipped with 4G/WiFi function. In order to obtain the best signal strength, please lead the antenna out of the control cabinet. After the antenna is led out from the HMI, route it on the cabinet door. Note that the antenna needs to avoid the power supply line . The antenna goes straight through the opening and closing of the cabinet door to the opening on the top of the cabinet to lead out the antenna, as shown in the figure below:





3. Screen calibration

It has a " power-on calibration " function .

Press and hold the HMI screen, then connect the power to the HMI. After hearing the buzzer beeps three times at intervals, the device will enter the calibration interface. A calibration mark will appear on the upper left side of the screen . Press and hold this icon for 1S to enter the next calibration position, and calibrate the device touch screen in sequence in the five order of "upper left, upper right, lower right, lower left, and middle".

Software Instructions

1. HMI connection settings

HT3000 communicates with the PLC through the RS232 serial port, RS485 serial port or Ethernet port. During the hardware wiring process, the HT3000-10 communicates with the PLC through the RS232 serial port and connects to the static Ethernet network.

a. Notes and hardware installation steps

- Notes

①The installation direction must be in accordance with the provisions of this manual, strictly in accordance with the direction of the terminal wiring, otherwise it will cause product failure or burnout.

②The HMI and other components which are at the bottom must maintain sufficient space to avoid equipment damage caused by poor heat dissipation

- Hardware installation steps

Install the HMI into the cut-out panel and lock the four buckles on the side with the mounting panel.

b. Hardware wiring

- Devices connected with power

HMI and PLC both connect with power.

- Devices connection

HMI's COM- RS232 interface is connected to the PLC's RS232 interface;

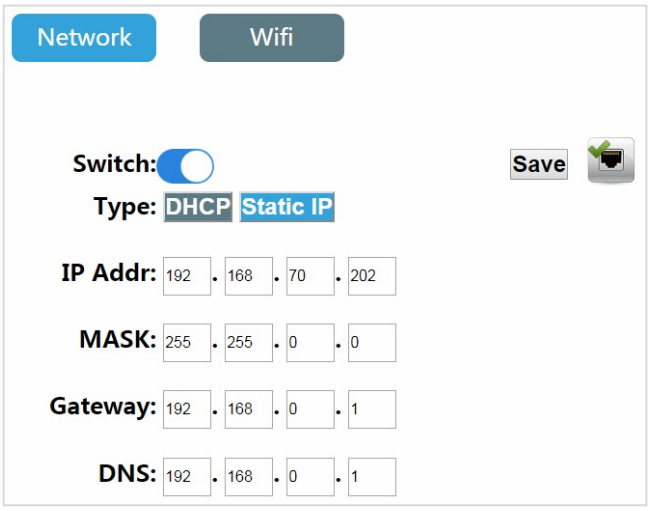
c. Network connection

Step 1: Long press the upper right corner of the HMI device to enter the background setting interface .

Step: 2: Click [Network] to enter the Ethernet settings interface ;

Step 3: Open [Switch] for network;

Step 4: You can select [Static IP] or [DHCP] as needed. When the network type selects [Static IP], you need to set the network parameters: enter the correct IP address, subnet mask, default gateway and DNS, click [Save] After the verification is passed, the HMI device can connect to the network via Ethernet.



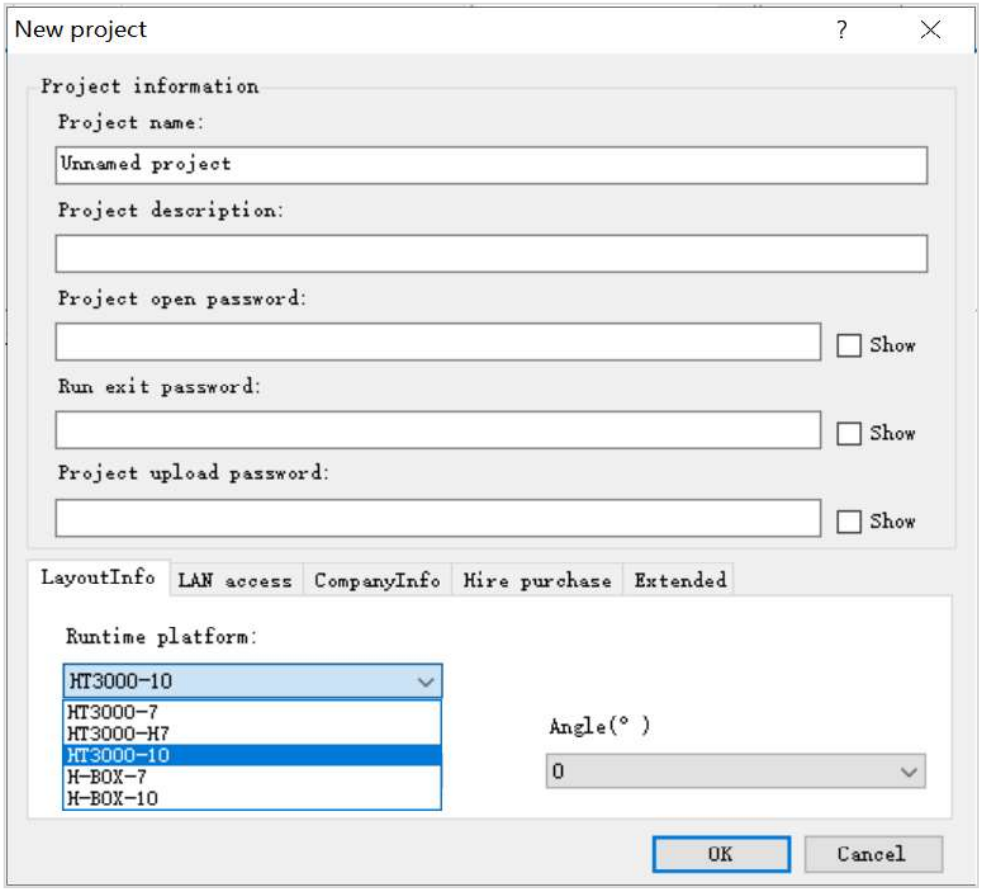
2. Project running

a. Select device models

Step 1: Open HTCloud Designer software and set up a new project;

Step 2: Open [Project configuration] in the project browser, and click [Project properties] to enter the project property configuration interface.

Step 3: Select the device model in the [Layout Info] field, which is consistent with the current device model. In this example, HT3000 -10 is taken as an example. Select HT3000 -10 and click [OK].



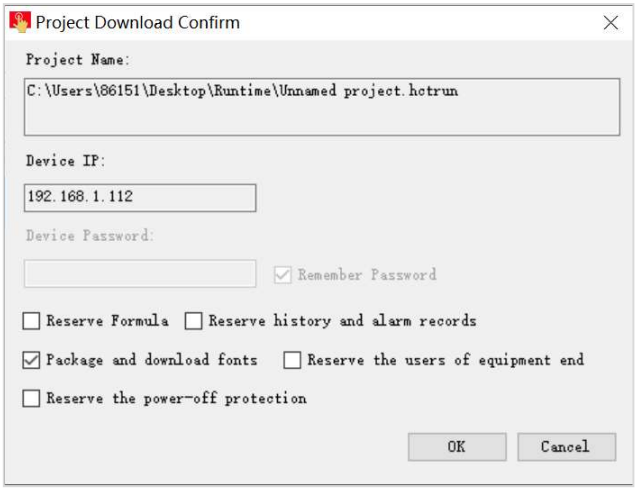
b. Download project

Project Step 1: Enter the device manager, you can choose to use the local manager or cloud manager;

Step 2: Click [Download project] to enter the project download confirmation interface;

Step 3: In the confirmation download interface, you can choose whether to reserve the history and alarm records, whether to reserve the formula and whether to package the font download. After the setting completed, click [OK];

Step 4: Wait for the pop-up prompt " Download successful! " and click [OK] to run the project on the device.



c. Run project

After the project successfully downloaded, wait for the HMI to restart, and after restart successfully, the HMI will automatically open the project startup screen, and users can use the project as needed.

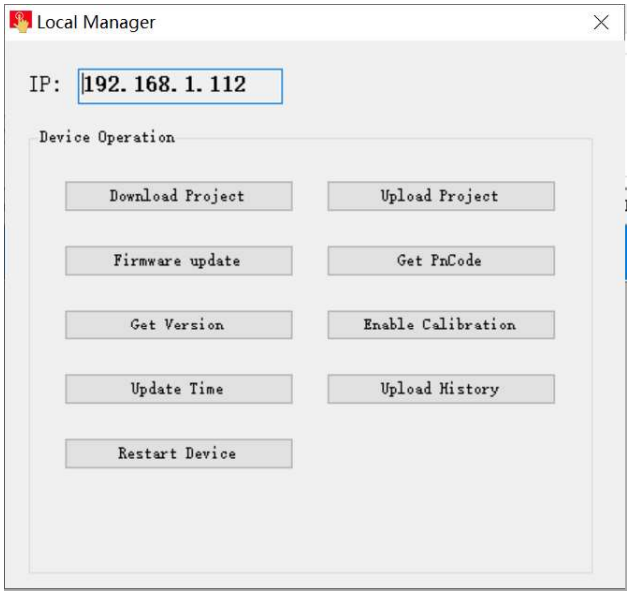
3. HTCloud manager

Open the HTCloud Designer software in computer, click the device manager icon of menu; or click the [project}, open the [HTCloud Designer] installation document ,open the [HTCloud Manager] and enter device manager. Support to use the local manager and cloud manager effective control HMI.

a. Enter device manager interface

- Local manager

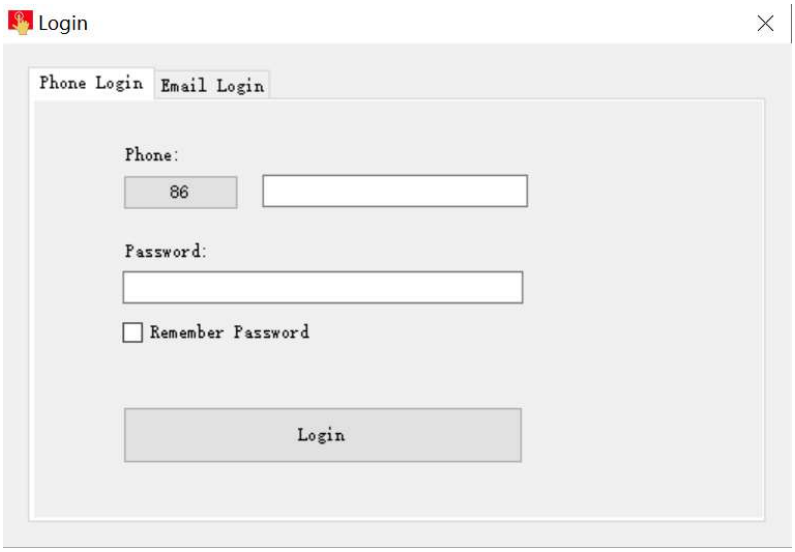
Enter device manager, click [local manager], set up IP address up on device and select device, click [mange] and enter currently device manger, you can operate the current device as shown below



- Could manager

Step 1: enter device manager, click [cloud manager], optional log in with mobile phone or email. PS: device administrator and machine owner can manage current device through cloud manager, common user don't have administrative authority.

Step 2: user input correct account and password, click [sign in] enter device manager, choice [manage]. enter current device manager, can operate current device, the following diagram:



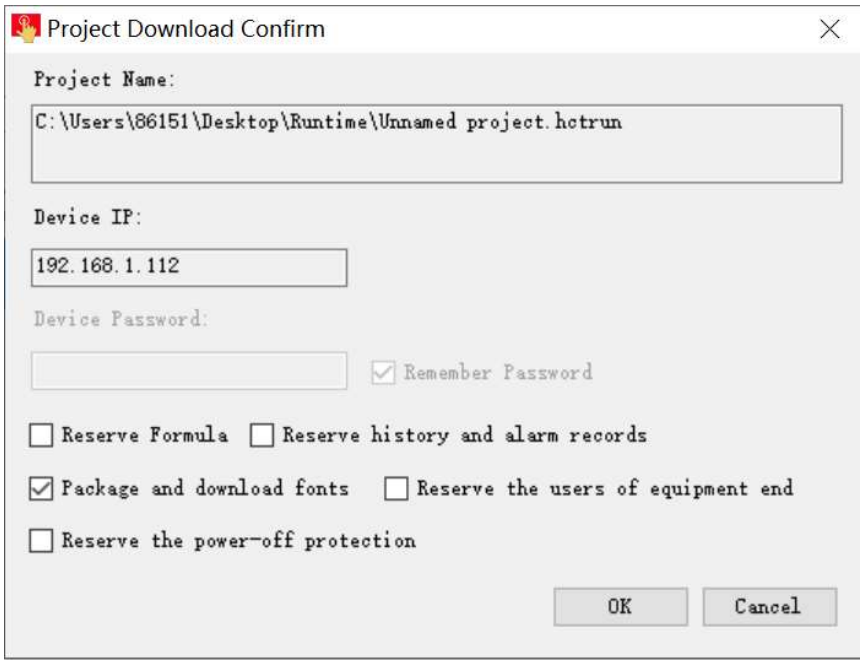
b. Excute device management

- Download project

Step 1: click [download project], enter project download confirm;

Step 2: In the confirmation download interface can choose whether to keep the history and alarm records, whether to keep the recipe, and whether to download the packaged fonts. After the setting are complete, click [OK];

Step 3: Wait for the pop-up prompt "Download successful!", click [OK], running the project in device.

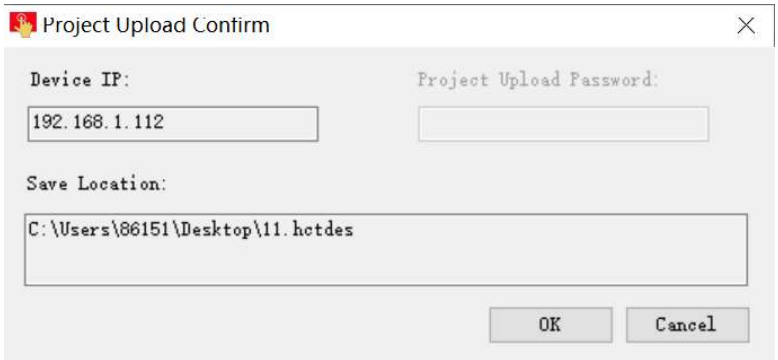


- U upload project

Step 1: click [upload project], choose the upload path and project name, click save;

Step 2: enter project upload and confirm interface, if project set up upload password, need to input the upload in [project upload password]; if the project don't have to set up the upload password, no pass word is required here;

Step 3: click [upload], wait for the pop-up prompt " upload successful! " , click [OK], running the project of device in PC.

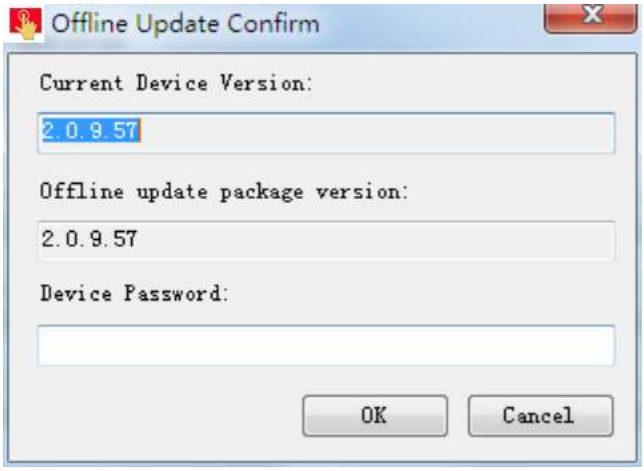


- Firmware update

Step 1: click [Firmware update],choice firm package, click [open] , The latest firmware update package can be get from HNC

Step 2: enter offline update confirm interface, click [update]

Step 3: waiting for update to complete, pop-up prompt " update success " , click [OK].



- Start calibration

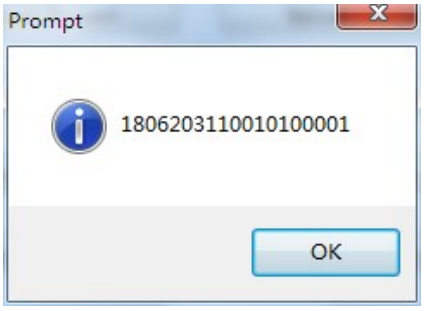
Click [start calibration], the device enter the calibration interface, press the calibration mark 1above the screen for long time, and enter next calibration site, calibration the device touch the screen in order of " left , right, up, down, mid "

- Update device-time

Click [update device time], can to update system time of device. When update to complete, you can device-time, device -time and system time of PC are same.

- G et the PN code

Click [get PN code], can to view the current PN code of device.

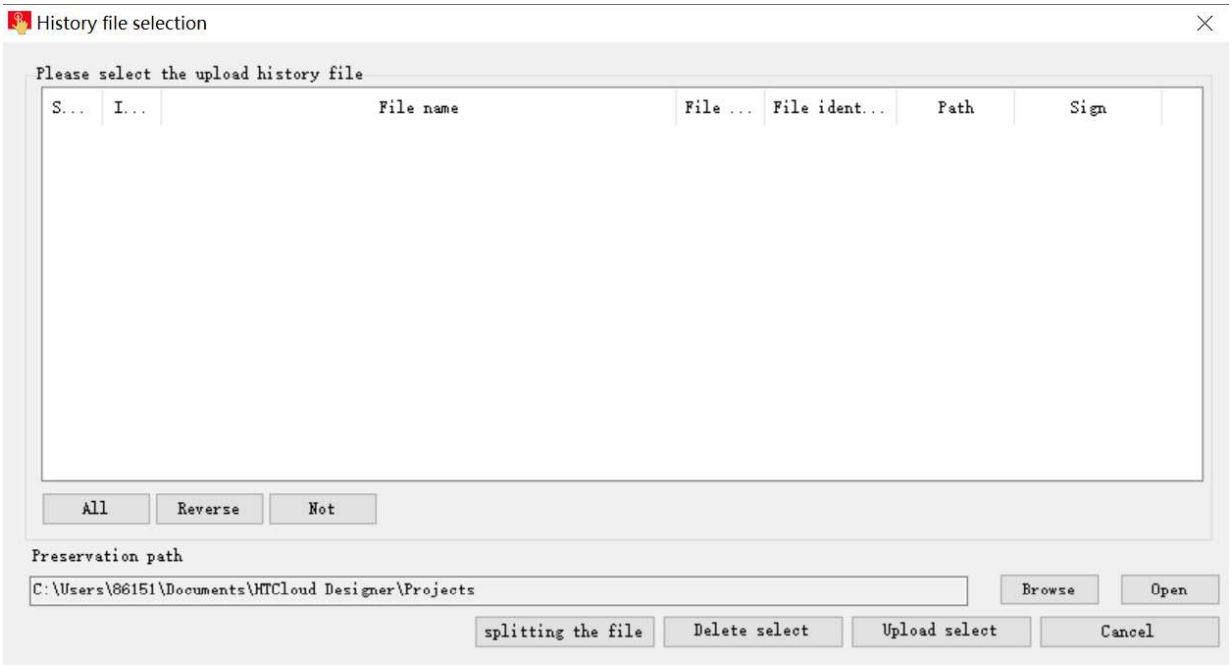


- Check the device version

Click[Get version], can to view the current version information of software and hardware of device.

- U upload the history record

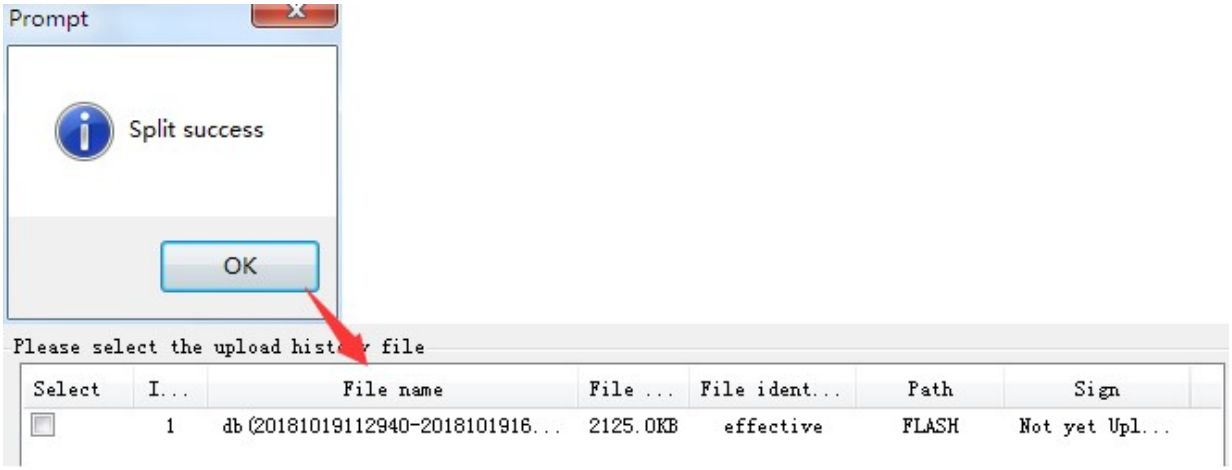
Click [upload the history record], enter the upload interface of history record.



①split history file

Step 1: click [start split file], you can split historical files for the recent period of time.

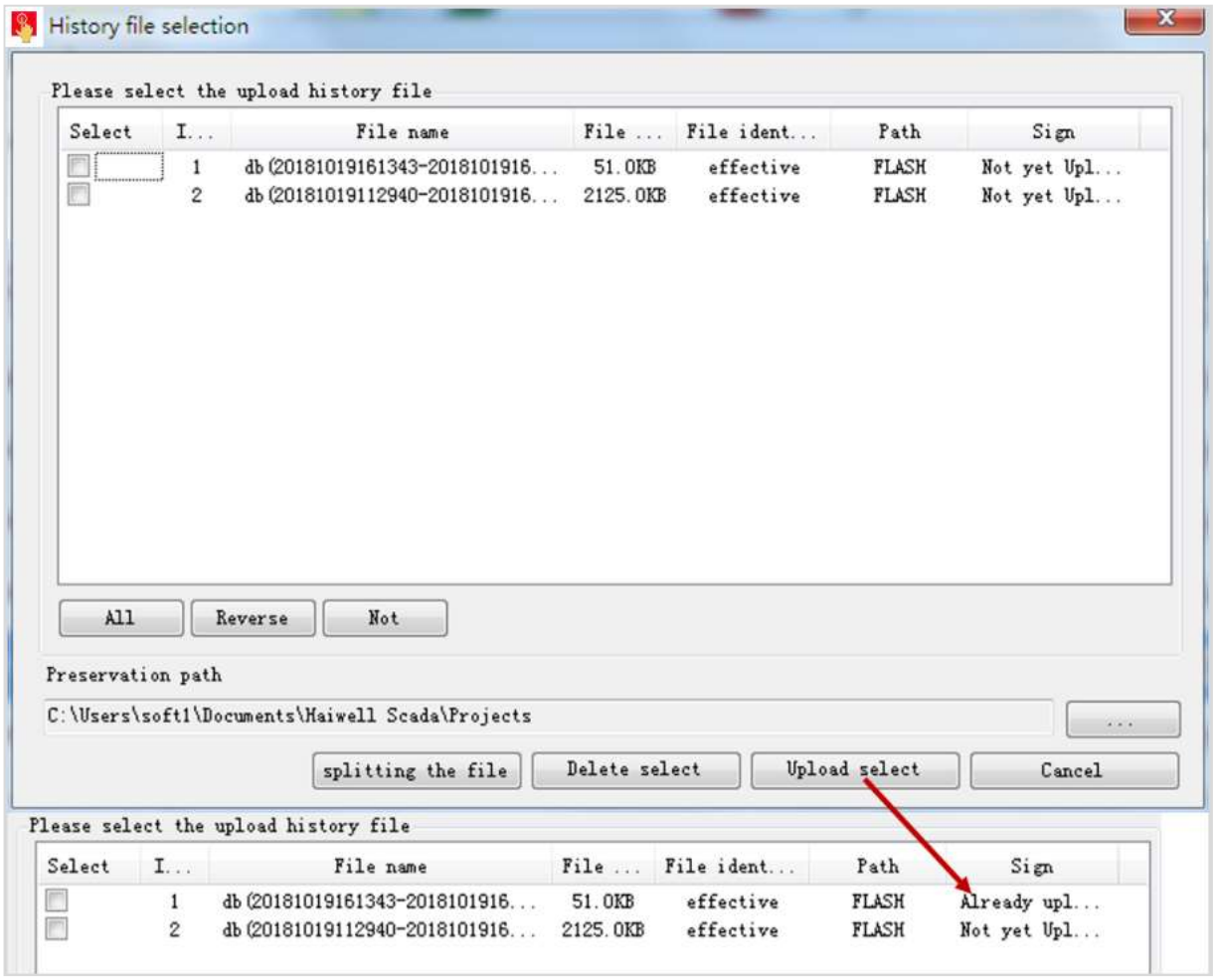
Step 2: waiting to split the historical record to complete, pop-up prompt [split success], click [OK], historical file list will add current split historical files.



②upload historical file

Step 1: select historical file in historical file list, input historical file storage. Path, click [upload select file];

Step 2: waiting for upload the historical file to complete, pop-up prompt " upload the historical record success " , click [OK] . When upload to complete, current historical file will remark " have uploaded " .

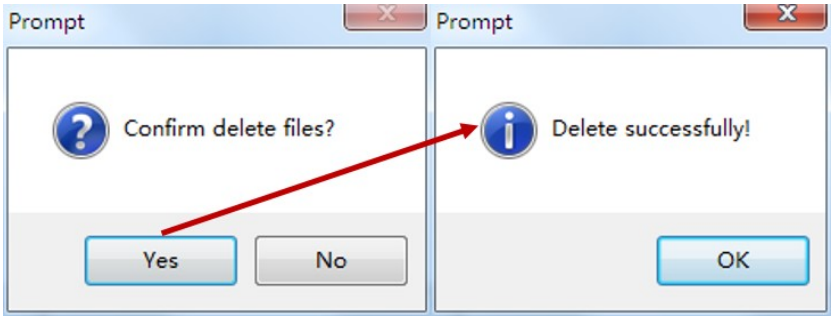


③ Delete history file

Step 1: Select the history file in the history file list and click [Delete Select File]

Step 2: Pop up the Confirm Delete File prompt box and click [Yes];

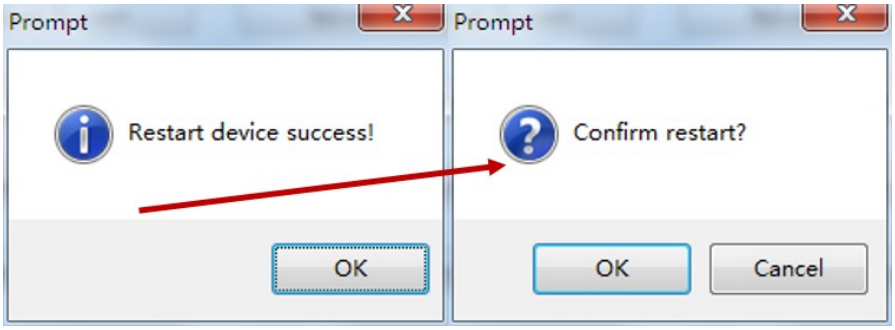
Step 3: Wait for the history file to be deleted successfully. The " Delete Successful! " prompt box will pop up, click [OK].



- Restart the device

Step 1: Click [Restart Device], pop-up confirmation restart prompt box click [Yes];

Step 2: Wait for the device to restart. After the restart is successful, the " Device Restart Successful " prompt box is displayed, and click [OK].



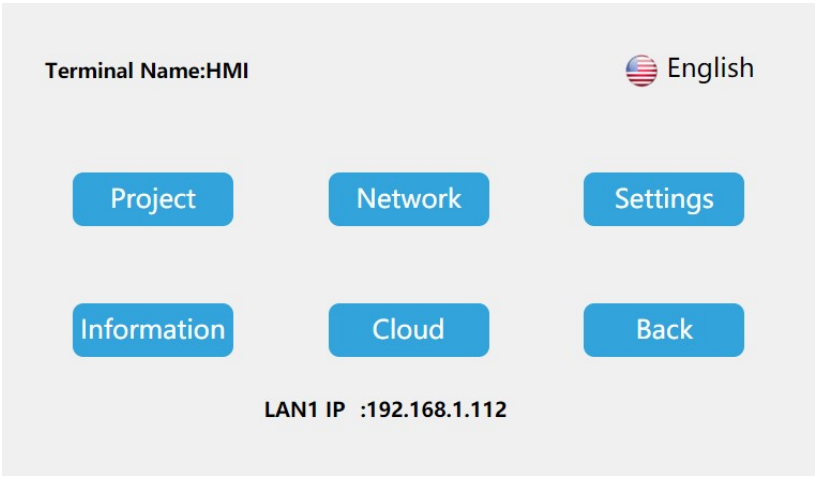
4. Background settings

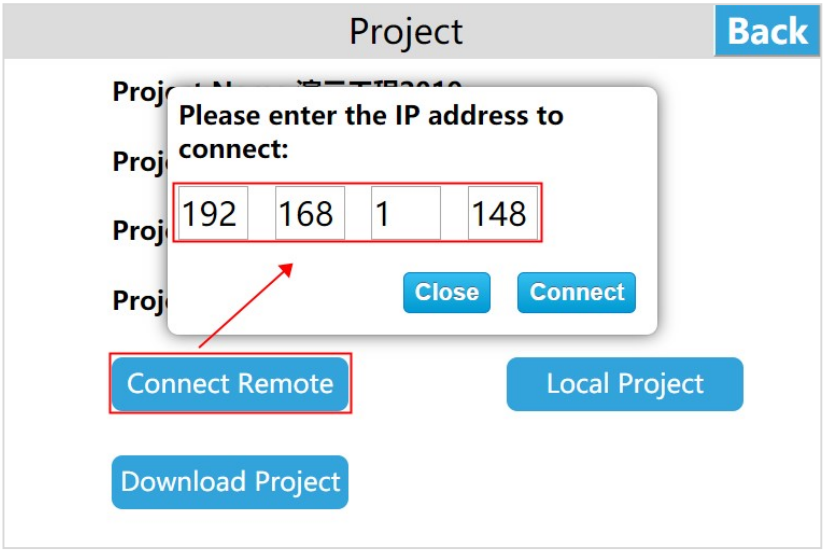
Long press the upper right corner of the HMI device to enter the background setting s interface, or access the HMI through a browser, enter IP / setting to enter the background setting s interface

a. Project Settings

- Connect Network Engineering

Enter the HT3000-10 background settings interface, click [Project], click [Connect Remote],enter the IP of the HMI in the LAN to be connected to for remote access between HMIs



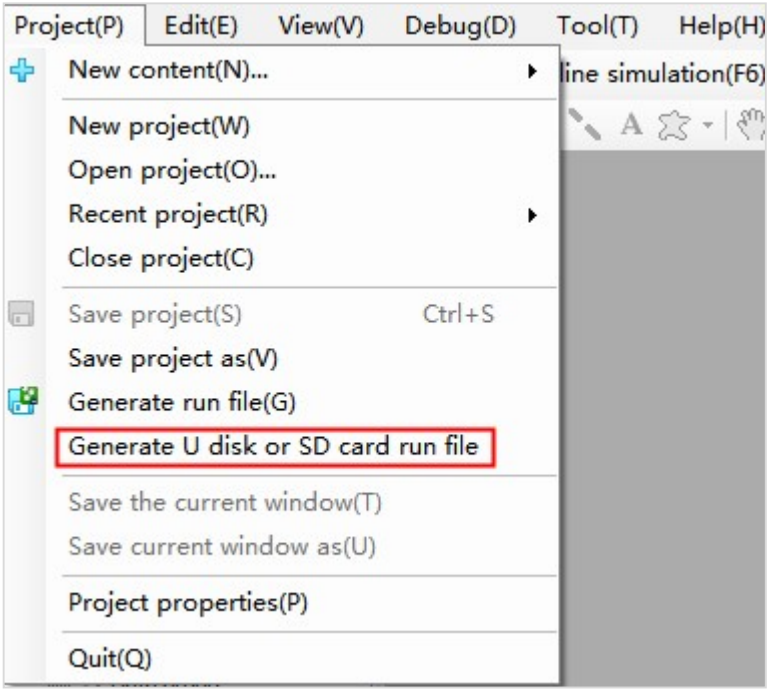


- Download project

Step 1: Create a project, click [Project] in the HTCloud Designer menu bar, expand the tab, and click [Generate U Disk or SD Card run file];

Step 2: Enter the compilation interface, set the appropriate output path after compilation, click [Save];

Step 3: After the running file is saved successfully, the system will pop up a prompt box of saving successfully, click [OK].



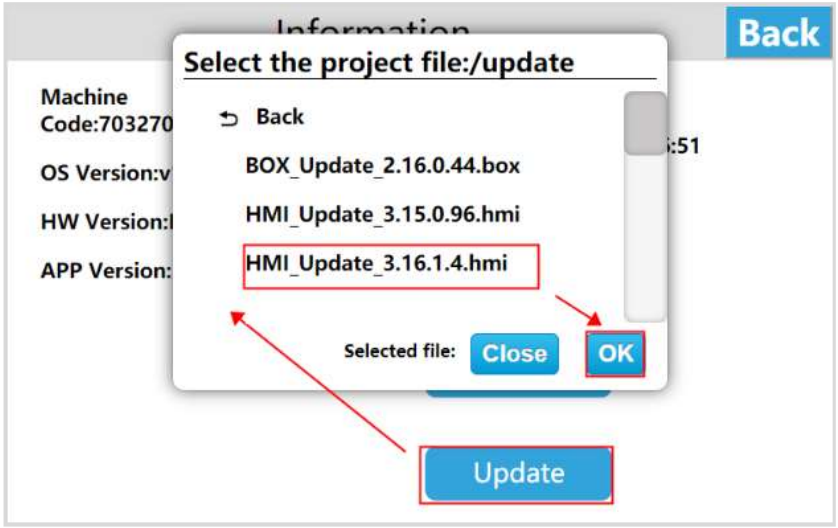
D ownload project

■ U dist download project

Step 1: Enter the HT3000-10 background setting s interface, click [Project] to enter the project setting s interface;

Step 2: Click [Download Project] to enter the project download interface;

Step 3: Insert the U disk, select [USB]; select the project according to the requirements, click [OK]. and the HT3000-10 device will automatically restart after the successful download.

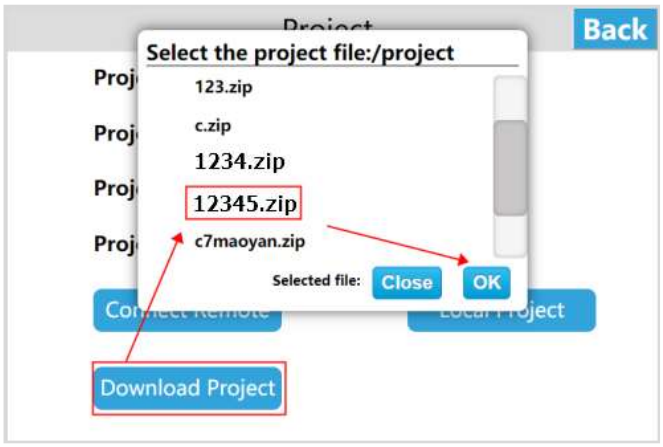


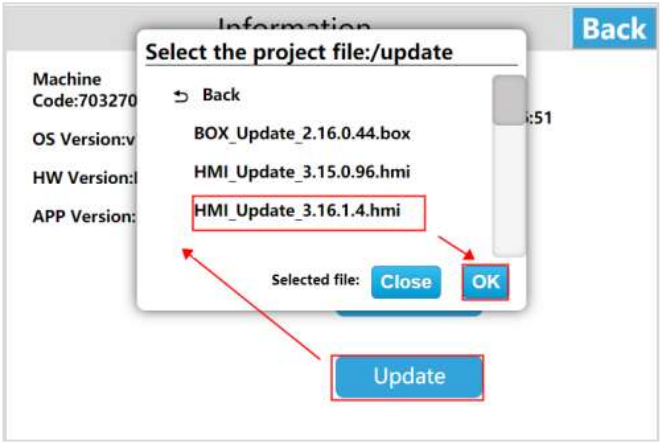
■ SD card download project

Step 1: Enter the HT3000-10 background setting s interface and click [Project];

Step 2: Enter the project setting s interface, click [Download Project] to enter the project download interface;

Step 3: Insert the U disk, select [SD], select the project according to the requirements, click [OK]. and the HT3000-10 device will automatically restart after the successful download.





b. Network Settings

- Ethernet connection

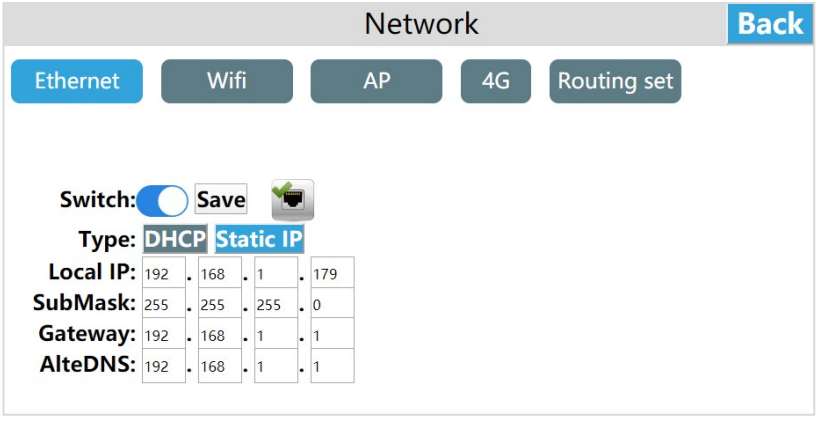
Enter the HT3000-10 background setting s interface, click [Network], enter the Ethernet setting s interface, open the [Switch], the network type includes DHCP and Static IP.

① Dynamic IP

Connect the network cable, select [DHCP] for the network type, and click [Save], the device will automatically obtain the IP.

② Static IP

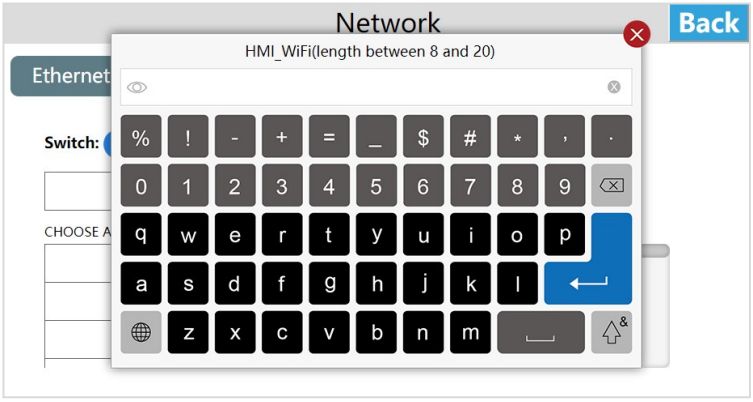
Connect the network cable, select [Static IP] for the network type, enter the correct IP address, subnet mask, default gateway, and DNS, and click [Save]. After verification, the device can be connected to the network via Ethernet.



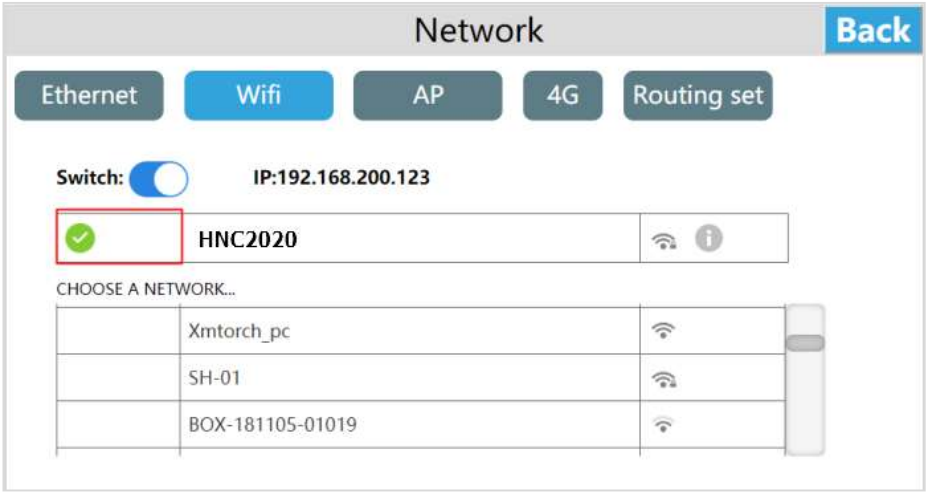
- WI-FI settings

Click [WI-FI] to enter the WI-FI setting s interface ,which support connecting to the network via WI-FI . Enter the WI-FI setting s interface, turn on the WI-FI switch, select the target WI-FI account, enter the correct WI-FI password, and connect to the WI-FI network

after verification.

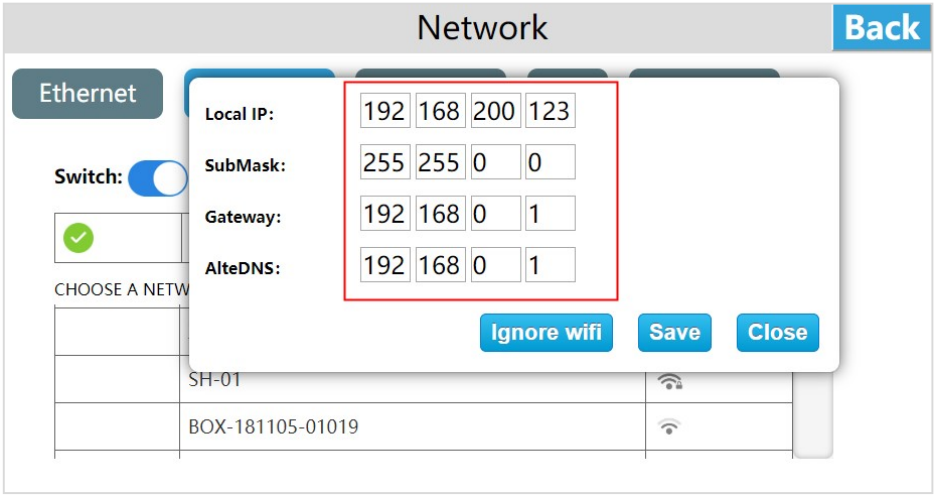


After the connection is successful, display the green tick " ".

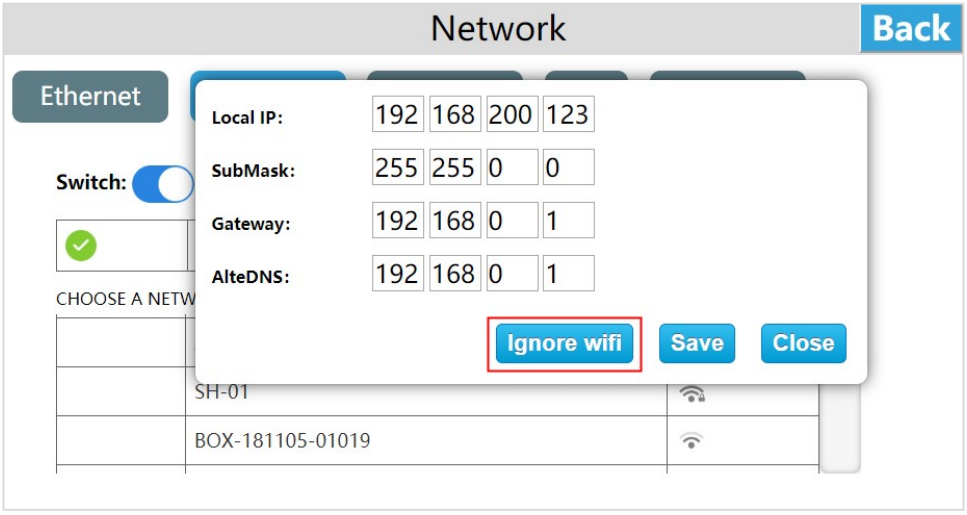


After the connection is successful, you can see the gray i "", click the gray i icon can set the IP address, subnet mask, default gateway, DNS.

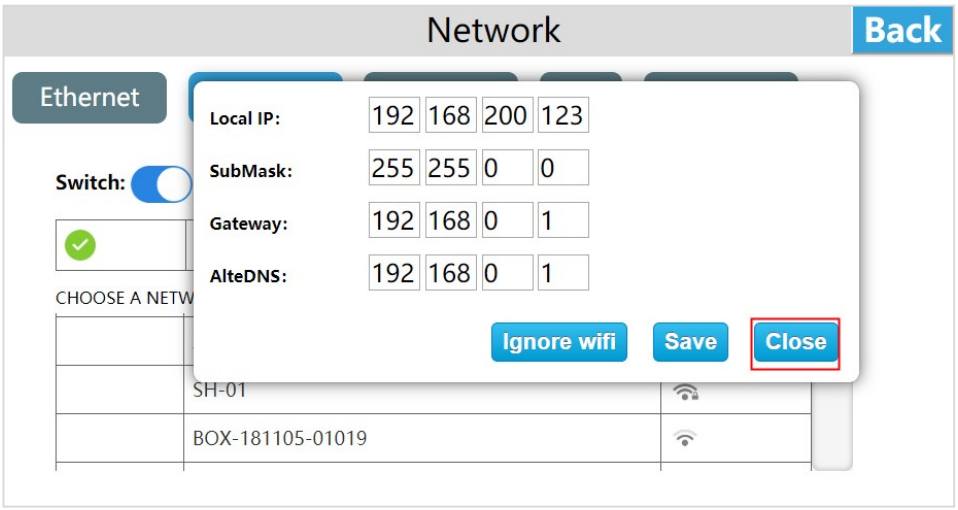
After setting, click [Save] to set WI-FI IP address information.



Click the gray i icon and then click "Ignore WI-FI" to disconnect the WI-FI connection. If you want to use the WI-FI, you need to re-enter the password to connect.

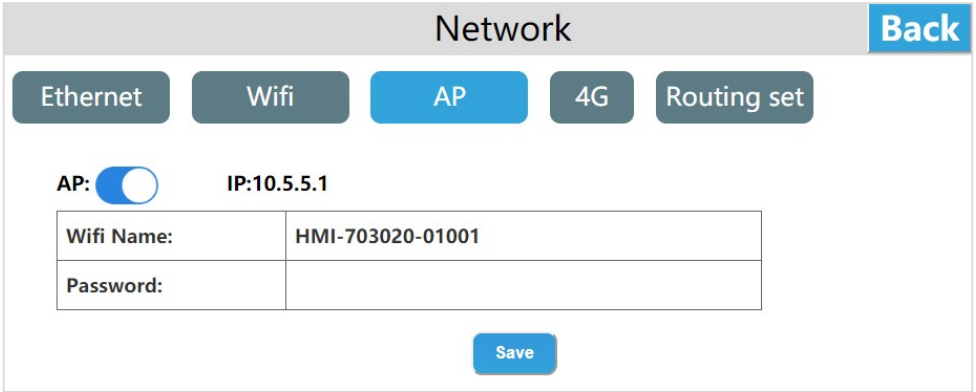


Click the gray i icon and then click [Close] to close the window.



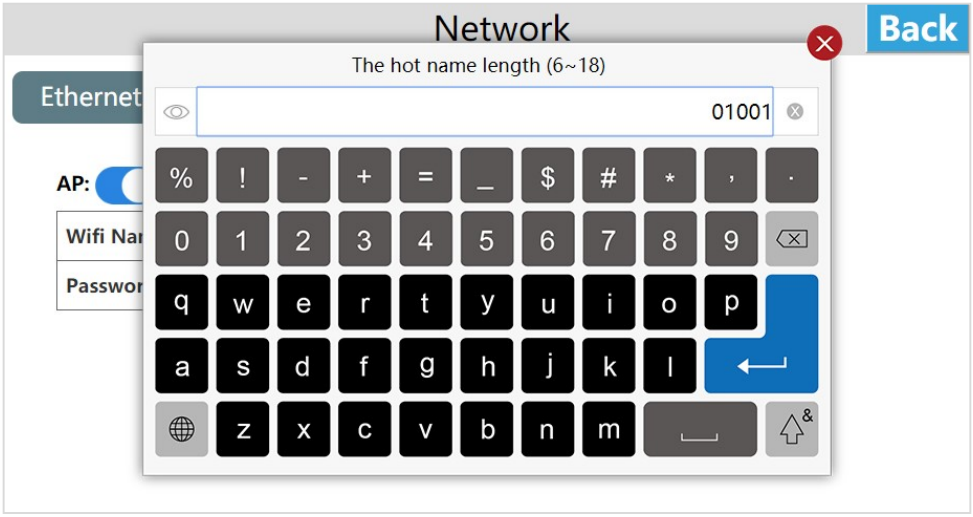
- Personal hot spot

Click [AP] to enter the personal hot spot interface, the HMI built-in network card can also be shared to share WI-FI hot spots for other users. Turn on the personal hot spot switch and set the hot spot name and password to share the WI-FI hot spot for other users.



Set the hot spot name, click "hot spot name", a hot spot name input box pops up.

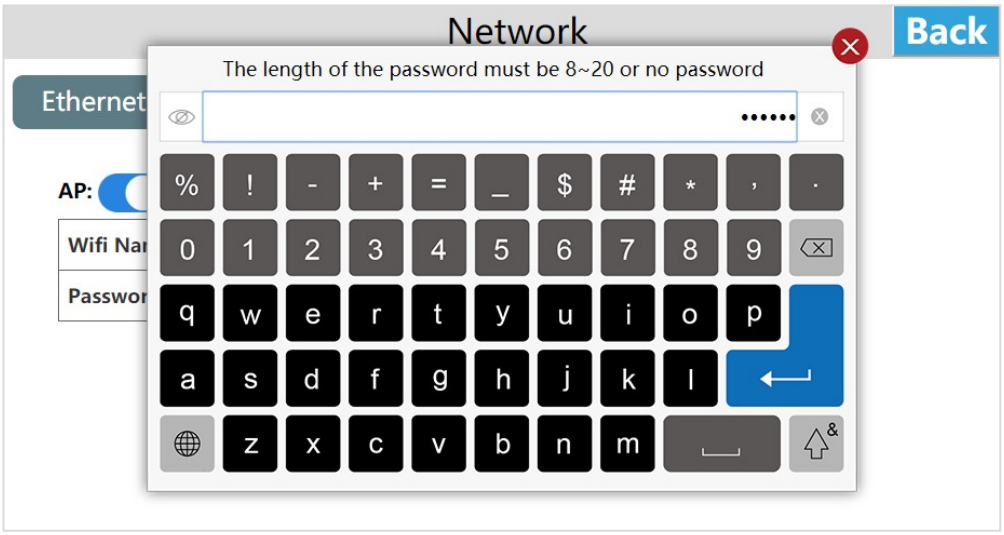
Enter the hot spot name, click [Enter], and click [Save] to save the added hot spot name information.



Set password, click "Password", a password input box pops up, click on the upper left corner of the input box to switch the plaintext ciphertext of the password.

Enter the password, click [Enter], and click [Save] to save the added password information.

The factory default WI-FI password is empty.



Note: The length of the hot spot name is 6 to 18 bits, and the password can be empty or set to 8 to 20 bits. when it exceeds the range, the entered hot spot name and password will not be displayed in the corresponding location and a prompt will pop up.

- Network configuration model

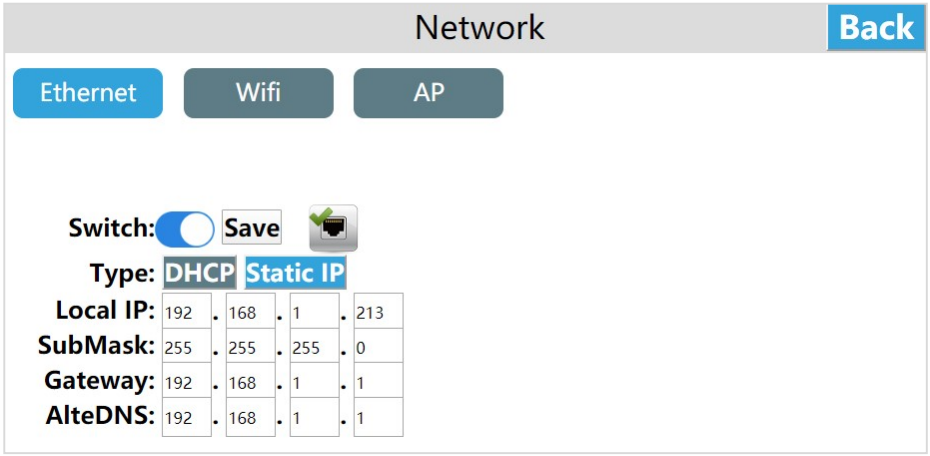
The new series of HMI has the following 4 different network configuration models (take HT3000-7 as an example).

➢ Standard(HT3000-7)

The HMI standard version only has Ethernet and does not include WI-FI / 4G / hot spot / routing modules, and the network onl procide y by the network cable

➢ With WI-FI (HT3000-7W)

HMI with WI-FI version only includes Ethernet and WI-FI, without 4G / hot spot / routing module, and the network is provided by network cable / WI-FI.



➢ With 4G (HT3000-7G)

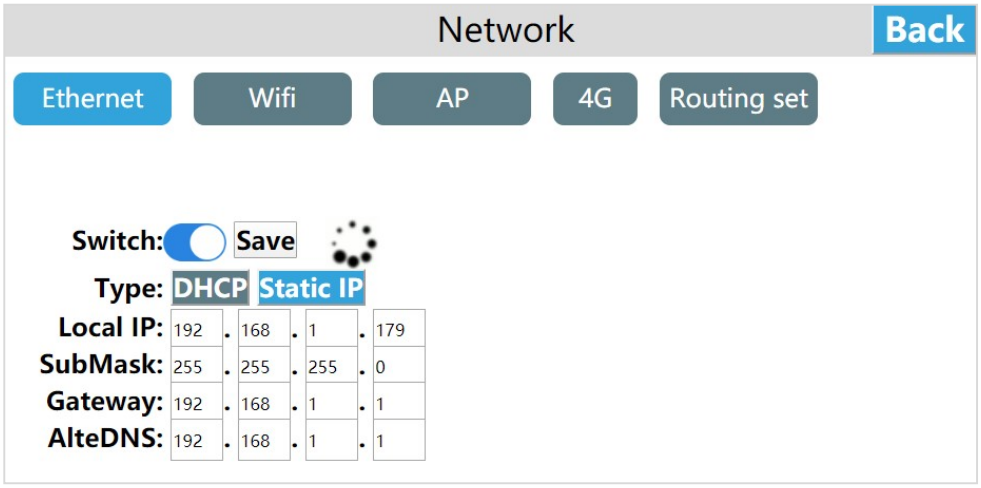
The HMI with WI-FI version includes Ethernet, 4G ,and routing modules, without WI-FI / hot spots, and the network is provided by the network cable / 4G.

The routing modes include: :close routing /4G client mode. The specific use of each routing mode will be explained below.

➢ With 4G with WI-FI (HT3000-7GW)

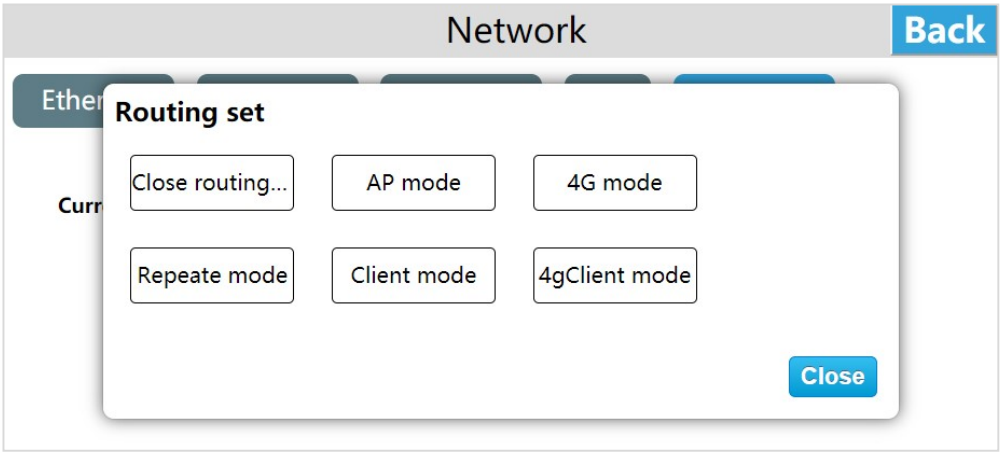
The HMI with 4G and WI-FI version includes Ethernet / WI-FI / 4G / routing module, and the network is provided by Ethernet / WI-FI / 4G.

The routing modes include:close routing / AP point mode / 4G routing mode / client mode / The repeater mode / 4G client mode, the specific use of each routing mode will be described below.



● Routing configuration

The routing modes include:close routing / AP point mode / 4G routing mode / The repeater mode / client mode/ 4G client mode, the default is "Close routing"



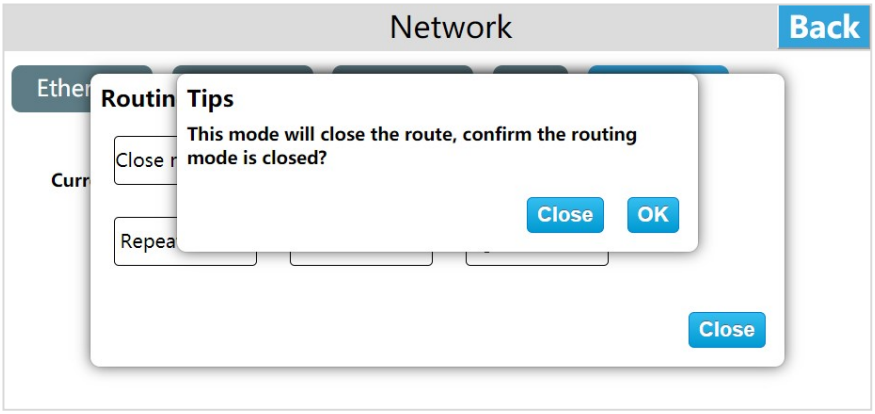
Comparison of various routing modes and network types:

	Close routing (Routing switch)	AP MODE	4G routing mode	Repeated mode _	Client mode	4G client mode
Ethernet	LAN/Internet	LAN/Internet	LAN	LAN	unsupported	unsupported
Wi-Fi	LAN/Internet	unsupported	unsupported	Connect to the Internet	Connect to the Internet	unsupported
Hotpot	LAN	LAN/Internet	LAN/Outer net	LAN/Internet	unsupported	unsupported
4G	Outer net	unsupported	Internet	unsupported	unsupported	Outer net
Network provided	Ethernet/ WI-FI /4G	Ethernet	4G	Wi-Fi	Wi-Fi	4G

Close routing mode

Enter the HMI background settings interface, click [Network], enter the route configuration interface, click "Settings", click "Close routing", a prompt "This mode will close the route, confirm the routing mode is closed" Click "OK " , it is set to close routing

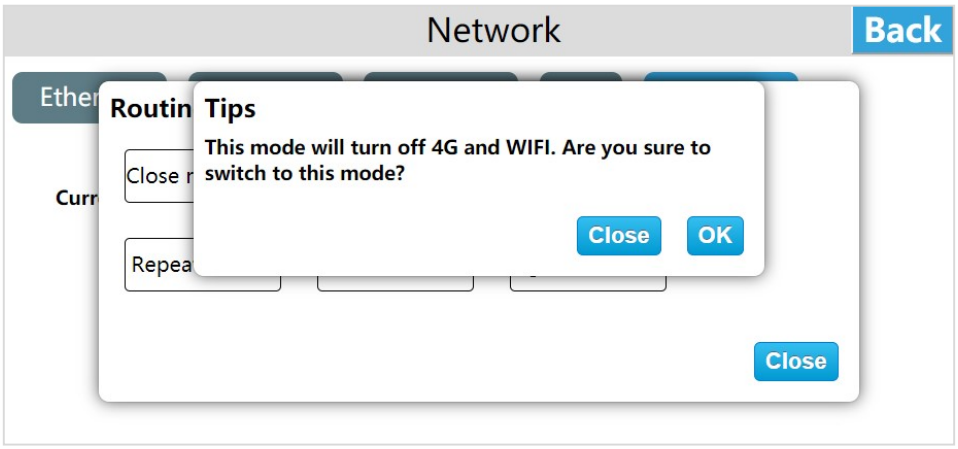
"Close routing" mode, only turn off the Ethernet, WI-FI, 4G routing function. The hot spots open in this mode only support LAN networks, and do not support Internet access. The function settings of Ethernet, WIIF and 4G remain unchanged .



AP mode

Enter the HMI background settings interface, click [Network], enter the routing configuration interface, click "Settings", click "AP Mode", a prompt "This mode will turn off 4G and WI-FI, are you sure to switch to this mode?", Click "OK" to set to wireless access point mode.

In the "AP" mode, only the wired network provides the network, and Other devices can access LAN and internet by connecting to the personal hot spot of the device.

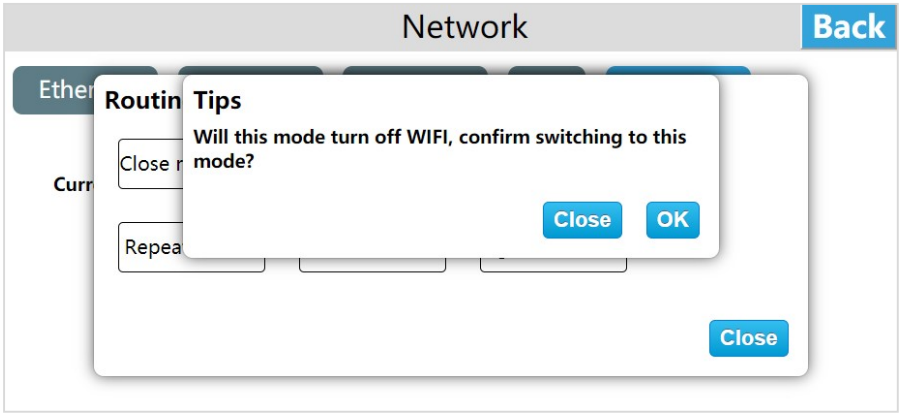


4G routing mode

Enter the HMI background settings interface, click [Network], enter the routing configuration interface, click "Settings", click "4G Routing Mode", a prompt "Will this turn off WI-FI,confirm switching to this mode?", click "ok" to set the 4G routing mode.

In "4G routing" mode, only 4G provides the network to the device, and other devices can connect to the local area network and external network by connecting the personal hot spot of the device. The wired network in this mode only supports LAN networks.

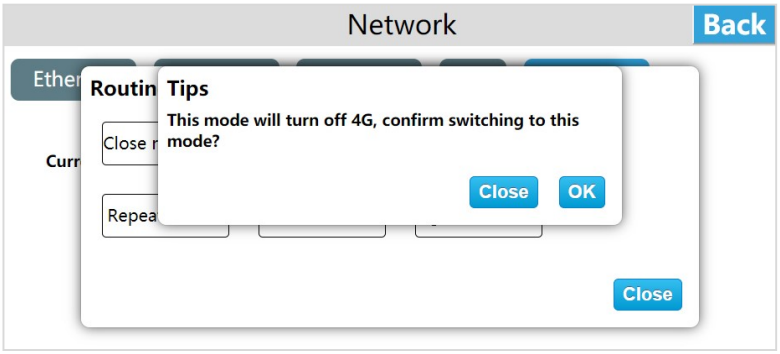
In the "4G routing" mode, only 4G provides the network to the device, and other devices can connect to the LAN and internet through the personal hot spot of the device. Wired networks in this mode only support LAN networks.



Repeater mode

Enter the HMI background settings interface, click [Network], enter the routing configuration interface, click "Settings", click "Repeater", a tips shown "This mode will turn off 4G, confirm switching to this mode?" , Click "OK " , set to repeater mode.

In "Repeater" mode, only connected hot spots of WI-FI provide the network. First, connect a hot spot that can be connected to the Internet, and then provide network to other devices through the personal hot spot of this device, supporting both local area network and extra-net. The wired network in this mode only supports LAN networks.

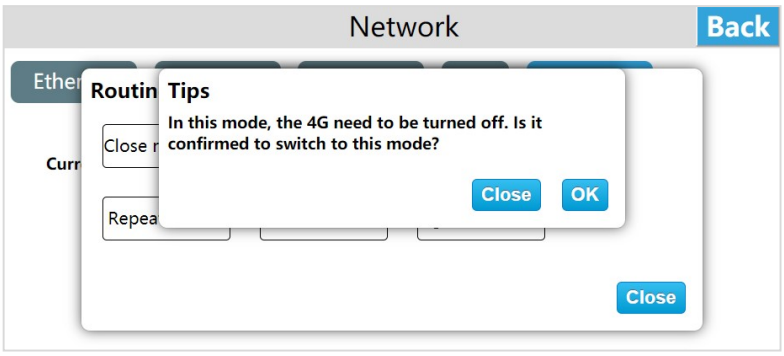


Client mode

Enter the HMI background settings interface, click [Network], enter the routing configuration interface, click "Settings", click "Client mode", a tips shown "This mode will turn off personal hot spots and 4G, confirm switching to this mode? ", Click "OK" to set the client

mode, The client mode will fix the IP to 192.168.255.1.

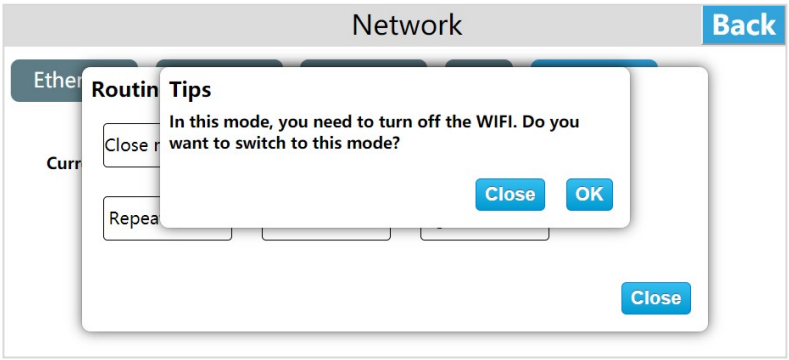
In the "Client" mode, the network is provided by the hot spot connected by WI-FI. At this time, the HMI is equivalent to a router. The HMI is connected to the wired network, and then connected to the device through the wire to provide the network to the device. In this mode, personal hot spot function is not supported.



4G client mode

Enter the HMI background settings interface, click [Network], enter the routing configuration interface, click "Settings", click "4G Client Mode", a tips shown "This mode will turn off personal hot spots and WI-FI, confirm switching to this mode?" , Click "OK" to set to 4G client mode.

In the "4G client" mode, 4G provides the network. The HMI at this time is equivalent to a router. The HMI connects to the wired network, and then connects to the device through the wire to provide the network to the device. In This mode, personal hot spot function is not supported.

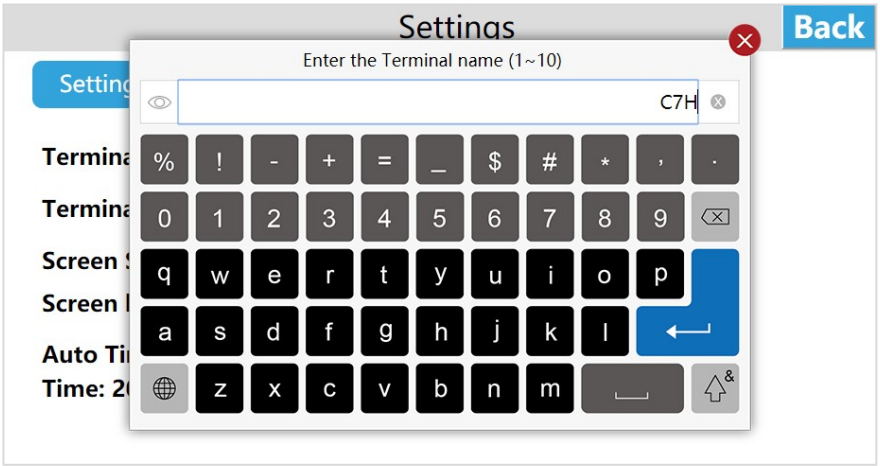


c. Settings

- Settings

① Set the terminal name

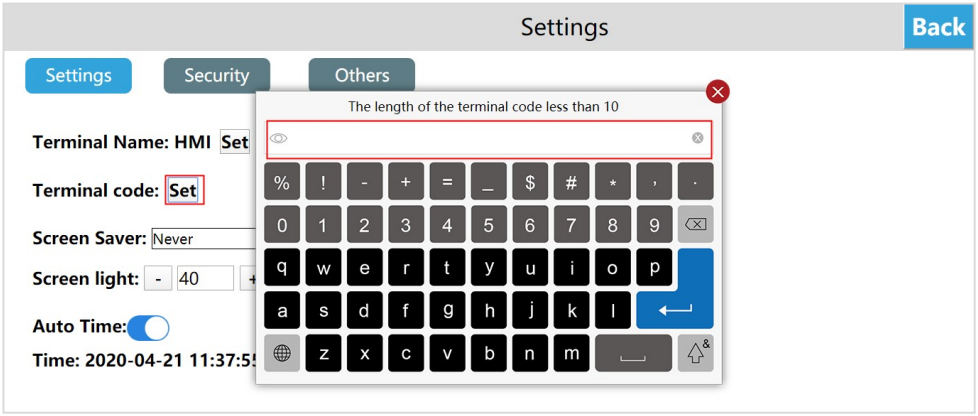
Enter the HMI background settings interface, click [Settings], in the [Settings] interface, you can see the [terminal name], click [Set], enter the new terminal name, click Enter on the keyboard Name. Terminal name: device name, terminal code: device number.



Note: The length of the terminal name is 1 ~ 10 characters.

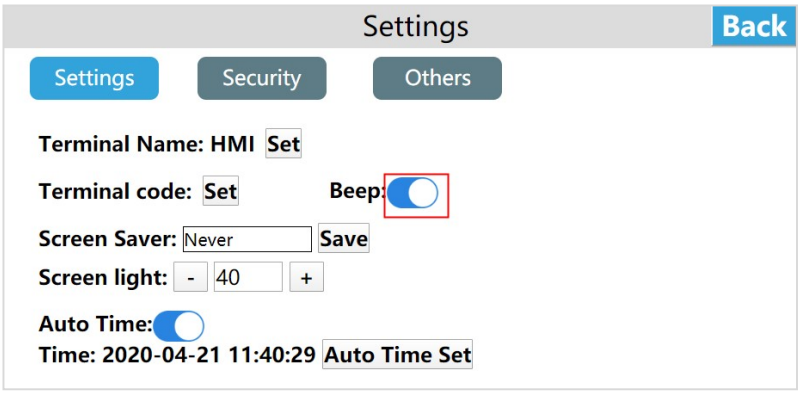
② Set terminal code

Enter the HMI background settings interface, click [Settings], in the [Settings] interface, you can see [Terminal code], click [Set], enter the new terminal code, and click Enter on the keyboard.



③ Set buzzer switch

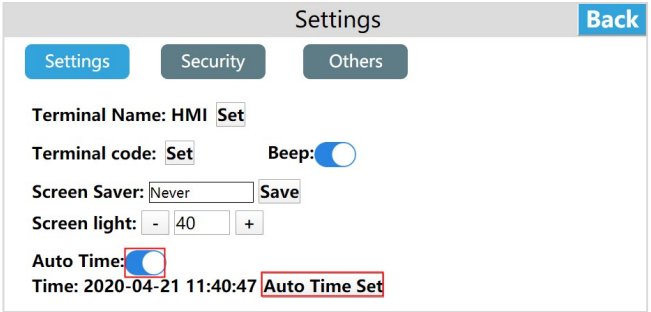
Enter the HMI background settings interface, click [Settings], in the [Settings] interface, you can see [Beep], turn on [Beep], when the user clicks the button, the buzzer will respond sound. Conversely, when the user clicks the button, the buzzer will respond sound. clicks the button, the buzzer will respond sound. clicks the button, there is no sound.



④ Set the network time

Enter the HMI background settings interface, click [Settings], open the [Auto time] in the [Settings] interface, and then click the [Auto time set], the current time will automatically correspond to the network time.

Enter the HMI background settings interface, click [Settings], turn off the [Auto time] on the [Settings] interface, and then click [Modify] change time, you can manually enter to set the time. After the input is complete, click OK; if click Cancel means not to save it.

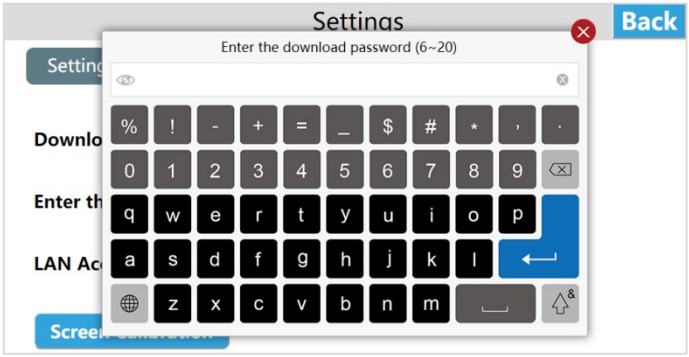


- Security settings

① Download project password

Enter the HMI background settings interface, click [Settings], open the [Download project password] function in the [Security] interface, set the project download password, after the setting is successful, the user needs to verify the password to download the project and update

the firmware, otherwise it cannot be executed related operations.



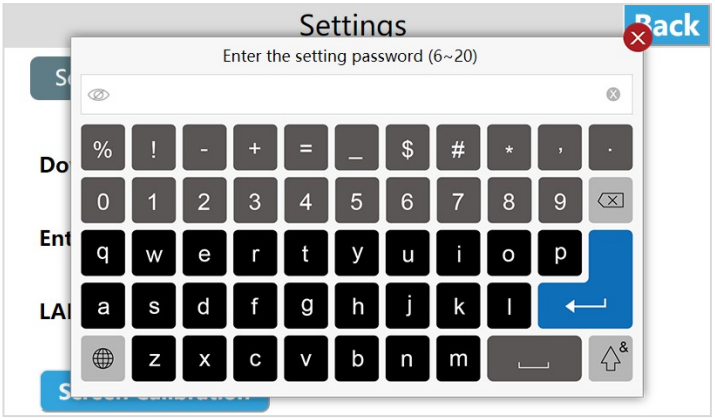
②Enter background password

Adding password verification into the background can avoid potential security risks and economic losses caused by misoperation of unrelated personnel. The specific operations are as follows:

Step 1: Enter the HMI background settings interface, click [Settings];

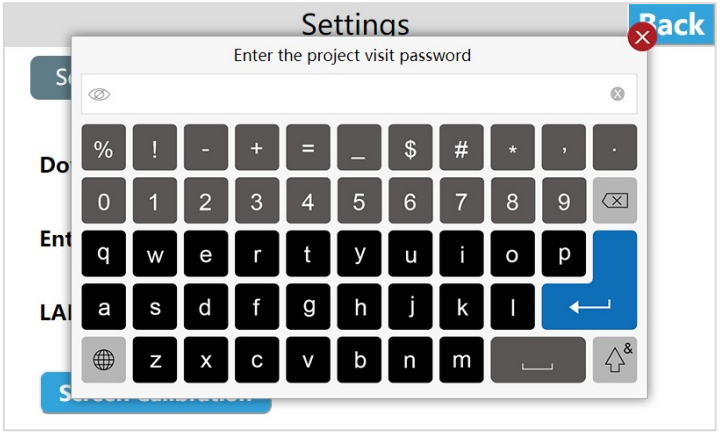
Step 2: Open the [Enter the set interface password] function on the [Security] interface;

Step 3: Set the password for entering the background. After the setting is successful, the user needs to verify the password when entering the background settings.

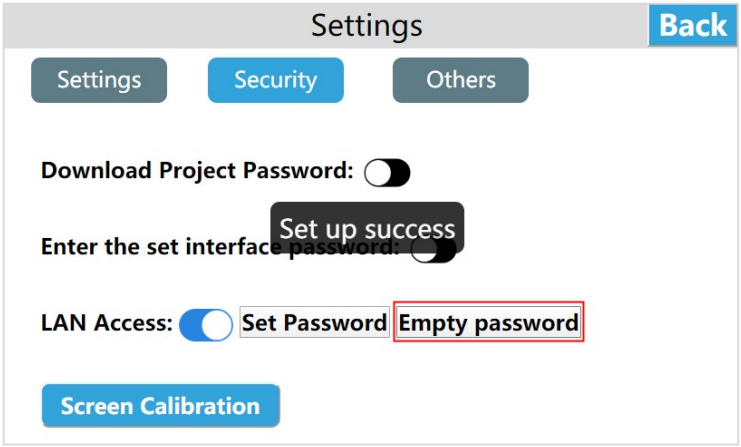


③LAN access

Enter the HMI background settings interface, click [Settings], switch to the [Security] interface, and enable LAN access by default. The user can click [Set password], enter the password to be set, click Enter, then enter the password again, and click Enter to save the LAN access password. To access the device via LAN / mobile APP / cloud website / TVBOX etc, the user must enter the correct LAN password.

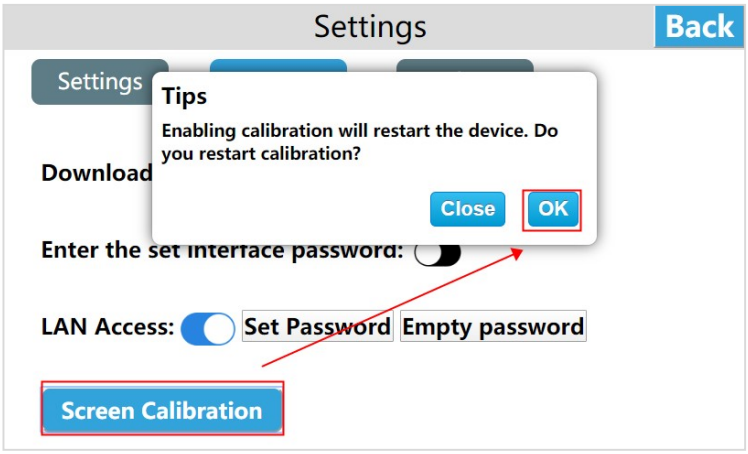


Click [Empty password], a pop-up "set up success", that is to clear the previous LAN password, users can access the HMI through the LAN (without entering any password).



④ Enable screen calibration

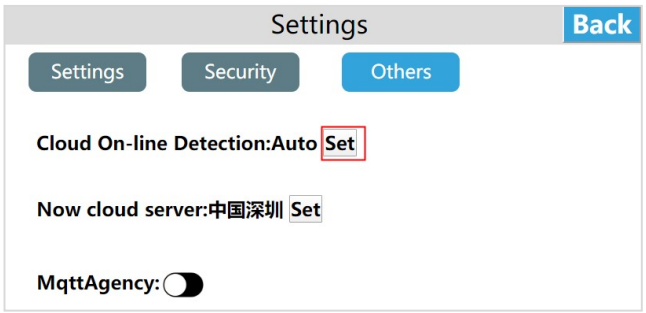
Click [Screen calibration], pop up [Enabling calibration will restart the device, whether to restart the calibration?], click OK to perform touch screen calibration.

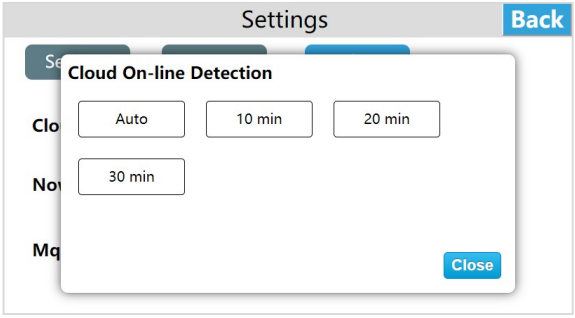


- Others

① Set the frequency of cloud online detection

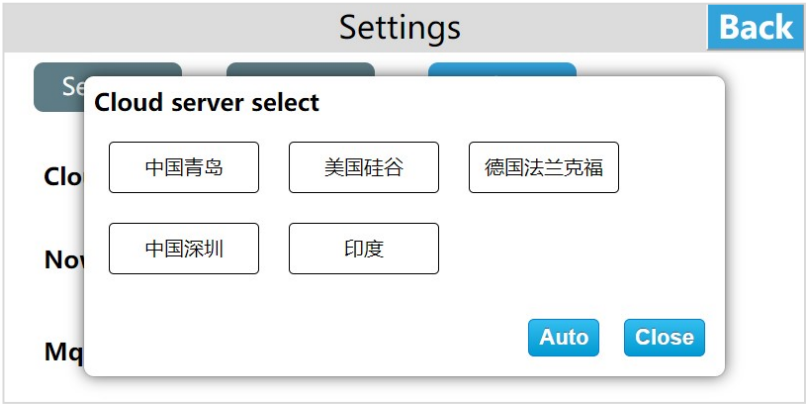
Enter the HMI background settings interface, click [Settings], switch to the [Others] interface, click Settings on [Cloud On-line Detection], select the cloud online detection frequency which we need.





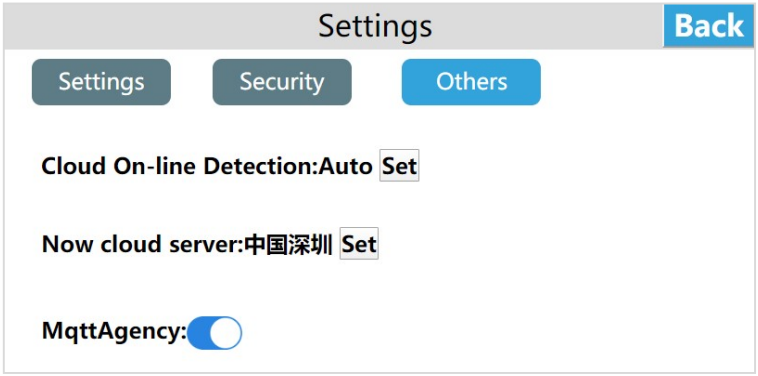
② Set the current cloud server

Enter the HMI background settings interface, click [Settings], switch to [Others] interface, click [Set] on "Now cloud server", select the cloud server address we need, then the current cloud server is displayed as selected server address. Click [Auto] to automatically select a relatively close cloud server address based on the IP address. Click [Close] to close the window.



③ MQTT Agency

The firmware version 3.16.0.20/2.16.0.20 and later versions add the MQTT agency function. Click on the "MQTT Agency" to turn on or off the MQTT agency. Turning on the MQTT agent means to use the HMI as a small MQTT server with the server address either Ethernet or WI-FI IP address from the device, please refer to the MQTT user manual. The MQTT agency function is turned off by default. It will continue to be turned on after enabling until manually turned off.

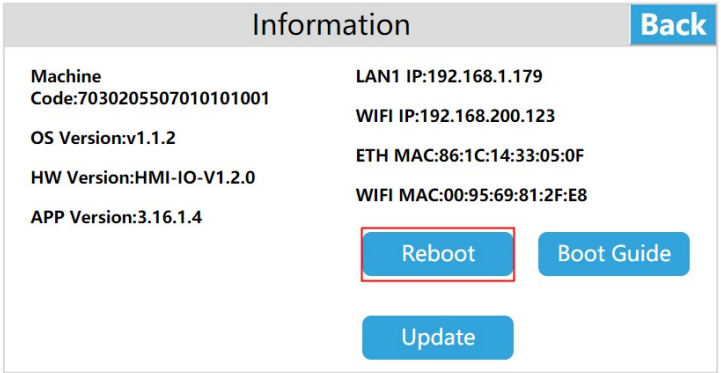


- System Information

① Reboot

The user enters the HMI background settings interface, click [Information], select [Reboot], then can restart the HMI device; also can restart the device through the device manager, the operation method can refer to "Device Manager-Restart Device" Instructions for use.

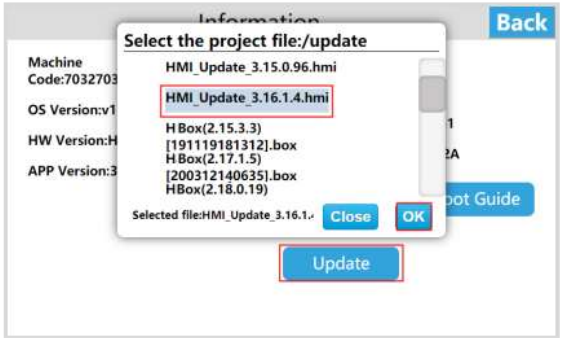
Related topic: How to restart the HMI device through the device manager?



② Firmware update

U disk update firmware

Enter the HMI background settings, click [Information], select [Update], enter the firmware upgrade interface, select [USB], then select the appropriate firmware update package, and click [OK] to upgrade the firmware. After the upgrade is successful , the device will restart.



SD card update firmware

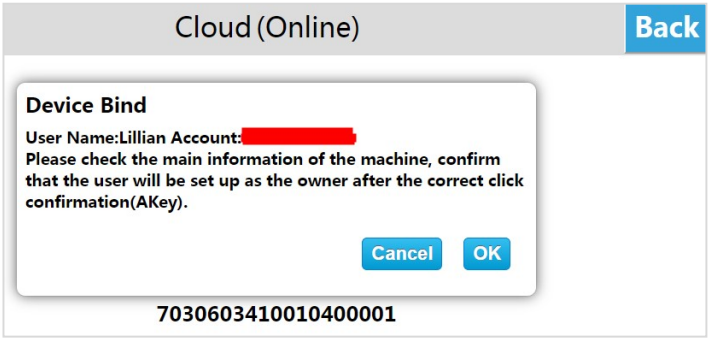
Enter the HMI background settings, click [Information], select [Update], enter the firmware update interface, select [SD], select the appropriate firmware update package, and click [OK] to update the firmware. After the update is successful, the device will restart.

- Cloud settings

Binding device

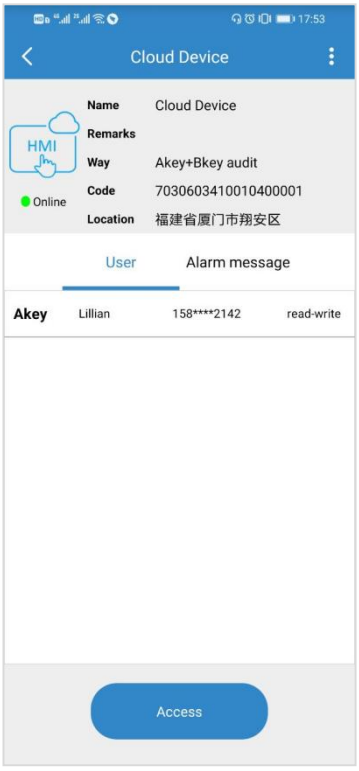
Enter the HMI background settings interface, click [Cloud], open the [Cloud Switch], and pop up the QR code and machine code.

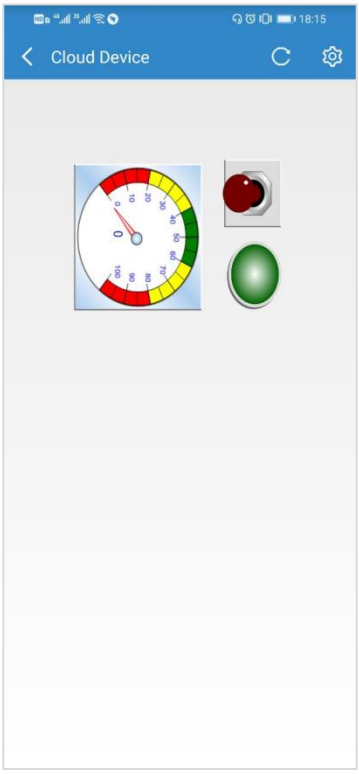
Log in to the cloud APP on your mobile phone, enter the [Device] interface, click the button in the upper left corner of the main interface, scan the QR code to add the device. A prompt box for confirming the binding pops up on the device, click [OK], the device is added successfully, and the user can remotely access the device.



Remote control

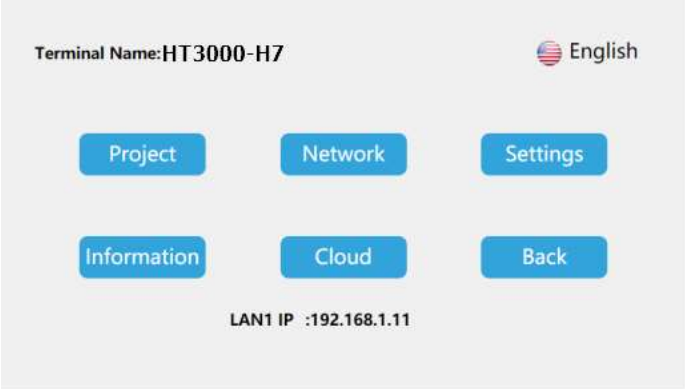
Enter the APP on mobile phone and enter the device; click [Access] to access the device. If the current project allows remote operation, the user can remotely control the device through the mobile phone.





- Multi-language settings

Enter the HMI background settings interface, click the language settings button at the top right of the screen, you can switch the system language, the device supports two languages: simplified Chinese and English.



- Exit background settings

On the HMI background settings interface, click [Back] to exit the background settings and enter the project running interface.