

ORIGINAL
MANUAL



OWNER'S & INSTALLATION MANUAL

Centralised Control



KCCT-384B IPS (A)

KCCT-384B IPS (B)




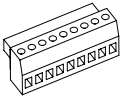
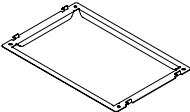



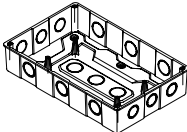




Thank you very much for purchasing our product.
Before using your product, please read this manual carefully and keep
it for future reference.

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Packing List

1X KCCT-384B IPS(A)/(B) 	1X 3-port terminal with gap of 5.08 mm 
1X Manual 	2X 9-port terminal with gap of 3.81 mm 
1X Mounting board 	3X 4-port terminal with gap of 3.81 mm 
8X Plastic washers (Ø 4mm hole) 	6X GB/T950 M4*20 screws (short) 
1X Embedded junction box 	4X GB/T823 M5*25 screws (long) 
6X Plastic expansion nails 	

Statement:

Along with upgrades in the product, the information in this document is subject to change without notice.

Important information

Product serial NO: you can find the serial number on the back of the product.

1. HARDWARE INSTALLATION

1.1. General Safety Precautions

Please read these general safety precautions carefully before installing the KCCT-384B IPS(A)/(B). After completing the installation, make sure the power supply and KCCT-384B IPS(A)/(B) operate properly during the startup operation.

1.1.1 General

If you are not sure how to install or operate KCCT-384B IPS(A)/(B), contact your dealer.



NOTICE

Improper installation or attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. Only use accessories, optional equipments and spare parts made or approved by manufacturer.



WARNING

Make sure installation, testing and applied materials comply with the applicable legislation.



CAUTION

Wear adequate personal protective equipment (protective gloves, safety glasses, etc.) while installing, maintaining or servicing the system.



WARNING

To avoid danger of suffocation, keep the plastic packaging bags away from the reach of children.

1.1.2 Installation Site

Do NOT install the equipment in a potentially explosive atmosphere.

1.1.3 Electrical



DANGER: RISK OF ELECTROCUTION

Turn OFF all power supply before connecting electrical wiring or touching electrical parts. Disconnect the power supply for more than 1 minute and measure the voltage at the terminals of main circuit capacitors or electrical components before servicing. The voltage must be less than 50 V DC before you can touch electrical components. For the location of the terminals, see the wiring diagram.
Do NOT touch electrical components with wet hands.
Do NOT leave the equipment unattended when the service cover is removed.



WARNING

A main switch or other means for disconnection, having a contact separation in all poles providing full disconnection under overvoltage category III condition, shall be installed in the fixed wiring.

**WARNING**

- Only use copper wires.
- Make sure the field wiring complies with the applicable legislation.
- All field wiring must be performed in accordance with the wiring diagram supplied with the product.
- Make sure to install earth wiring. Do NOT earth the unit to a utility pipe, surge absorber or telephone earth. Incomplete earthing may cause electrical shock.
- Make sure to use a dedicated power circuit. NEVER use a power supply shared by another appliance.
- Make sure to install the required fuses or circuit breakers.
- Make sure to install an earth leakage protector.
- Failure to do so may cause electric shock or fire.

Install the wires at least 1 meter away from televisions or radios to prevent interference. Depending on the radio waves, a distance of 1 meter may not be sufficient.

**WARNING**

- After finishing the electrical work, confirm that each electrical component and terminal inside the electrical cabinet is securely connected.
 - Make sure all covers are closed before starting up the units.
-

1.2 KCCT-384B IPS(A)/(B) Installation

Warning

- Do not install the KCCT-384B IPS(A)/(B) near areas of electromagnetic interference or next to a base station;
- Locate the KCCT-384B IPS(A)/(B) away from sources of steams, possible flammable gas leaks, heat or sulfurous gases.
- Reserve sufficient space for the installation, and leave adequate spacing between the device and surrounding community service network devices for heat dissipation.
- Make sure the installation site is indoors, and the KCCT-384B IPS(A)/(B) is installed at a height that is 50 cm above ground;
- Make sure the installation site is not affected by dust and electromagnetic interference;
- Make sure the installation site is not exposed to sun and heating devices;
- Make sure the device is not installed in humid places or where it is easy for the device to come in contact with water.
- Make sure the device is not installed in locations where it can be easily corroded or where there are flammable gases.
- Please install the KCCT-384B IPS(A)/(B) in strict accordance with the above, and do check the installation site carefully before installation.

Touch-screen KCCT-384B IPS(A)/(B) structure

1) Touch-screen KCCT-384B IPS(A)/(B): Front and side views

(Unit: mm)

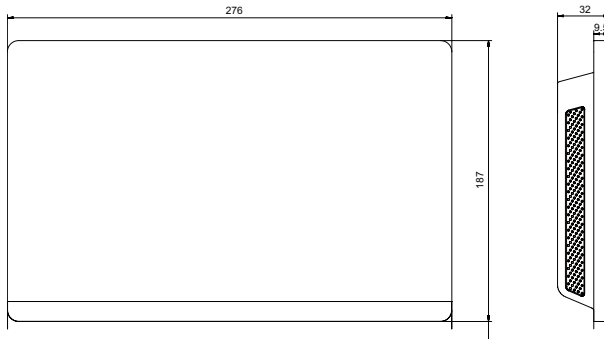


Figure 1.1

2) Structural dimensions of the embedded junction box

(unit: mm) Before you drill an opening in the wall, make sure that the opening is large enough to fit in the embedded junction box.

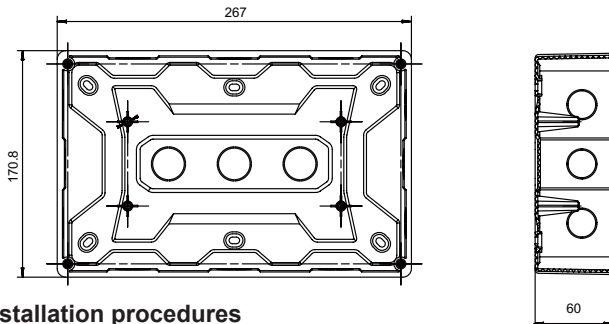
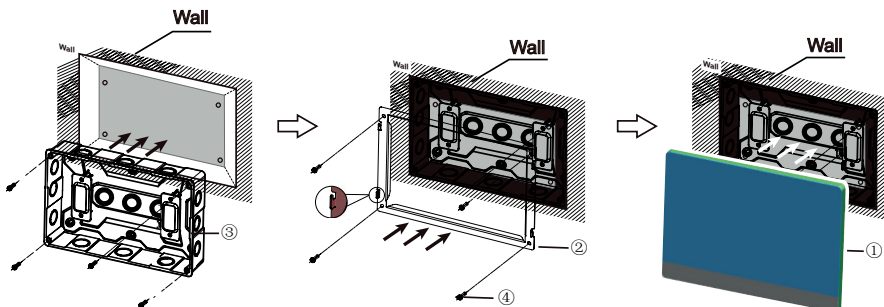


Figure 1.2

3) Installation procedures

①	KCCT-384B IPS(A)	②	Metal parts	③	Embedded junction box	④	Screws
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1

1. Mount the embedded junction box

Mount the embedded junction box within the wall. Ensure that the outer surface ③ of the embedded junction box is level with the wall surface.

2

2. Install metal parts

Make sure the hooks of the metal parts face upwards. Use 4 screws ④ provided as accessories to secure it on the installation base.

⚠ NOTE

Special note: Make sure you exert appropriate force to secure the metal parts with the screws. Excessive force may cause deformation of the four screw holes for the metal parts, making it harder to mount the metal mounting board.

3

3. Install KCCT-384B IPS(A)/(B)

Once the connections are done, place the main unit vertically on the installation base. You will feel a magnetic force at this point. Exert force downwards to mount it on the metal part.

1.3 System Architecture

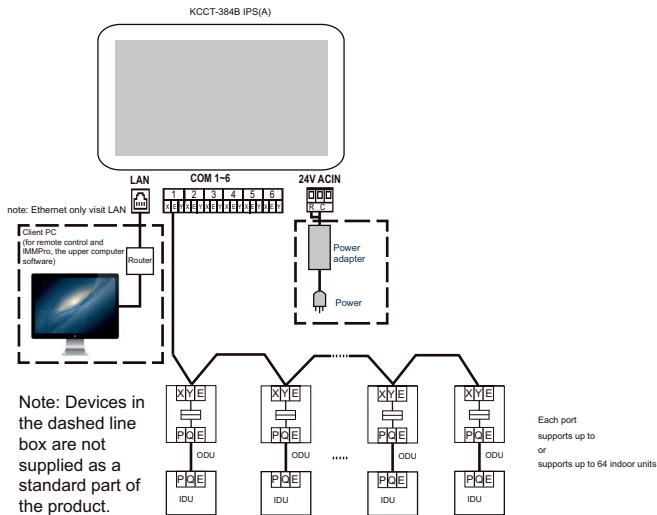
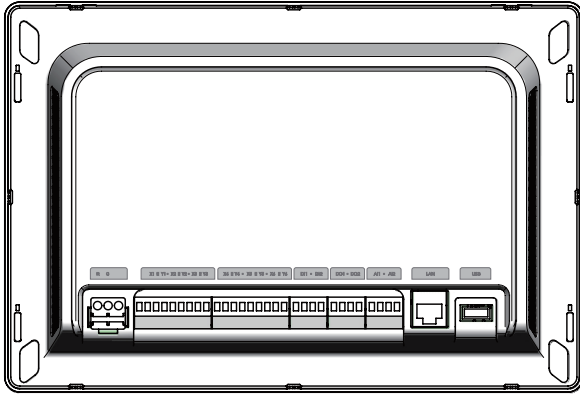


Figure 1.4

The KCCT-384B IPS(A)/(B) is used to query and control the indoor unit of the air conditioner, transmit the status information of the indoor unit to the computer and forward the control and query instructions from the computer to the indoor unit.

■ Back Wiring



KCCT-384B IPS(A)



KCCT-384B IPS(B)

Figure 1.5

The KCCT-384B IPS(A)/(B) has six M-net ports, one LAN port, one USB extension port and six reserved IO ports. It can connect to the MCAC central air conditioning system through the M-net ports and connect to the local area network through the LAN port. You may use a browser on a computer or other similar devices to access the KCCT-384B IPS(A)/(B) to monitor the VRF unit .

Caution

- The KCCT-384B IPS(A)/(B) is installed at one end of the M-net communication bus. Do not install it in the middle of the bus.
- You need a three-core shielded cable of 0.7~1.0 mm² for the signalling wires. For details, please consult a professional technician.
- Risk of explosion if battery is replaced by an incorrect type
Dispose off user battery according to the instruction.
(correct battery type is CR1220)

● Port Diagram

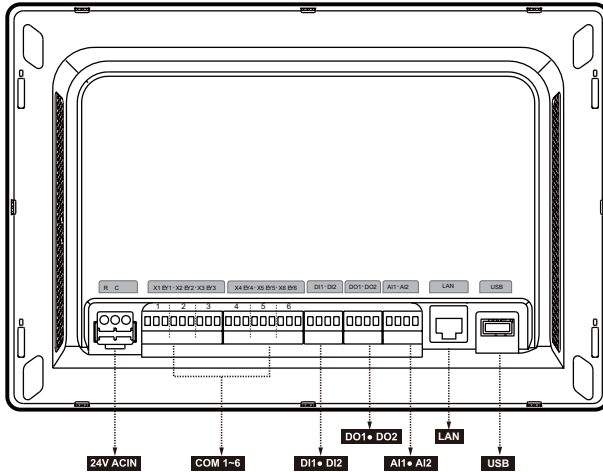


Figure 1.6

R	24VAC
C	24VAC
X	Interface X, XYE bus (COM1-6)
Y	Interface Y, XYE bus (COM1-6)
E	Interface E, XYE bus (COM1-6)
DI1	Reserved
DI2	Emergency stop dry contact
DO1	Reserved
DO2	Reserved
AI1	Reserved
AI2	Reserved
LAN	The Ethernet interface connected to the network is used to access the device.
USB	The USB 2.0 interface is used to export reports, import floor plans and topology files.

The touch-screen centralized controller detects the status of DI2 every 5 seconds. When DI2 is closed, emergency stop is triggered, and the controller records the operating modes and set temperatures of IDUs that are active at that moment, and sends a shutdown command to these IDUs. Then, the controller detects the statuses of DI2 and IDUs every 60 seconds. If DI2 is still closed, the controller continues to send shutdown commands to IDUs. If DI2 is open, the controller releases the emergency stop. If "Recovery after emergency stop" is enabled, the controller sends a startup command to these IDUs and restores the IDUs to the recorded operation statuses before the emergency stop. After emergency stop is released, the controller will enable "Recover devices after emergency stop" according to configurations in "Advanced Settings".

Note: Emergency stop can be triggered only on devices that have been started up for more than 3 minutes.

- KCCT-384B IPS(A)/(B) Specifications

Power Supply Specifications	Voltage range	Single phase, 24VAC, 50/60Hz
Operating Conditions	Power consumption	24W Maximum
	Voltage fluctuations	±10% of rated value
	Ambient temperature	0~40°C
	Ambient humidity	10~90%
	Storage temperature	-10~60°C
Dimensions	Unit (mm)	270(W)×183(H)×32(D)
Weight	0.76kg	
Device Colour	Black	

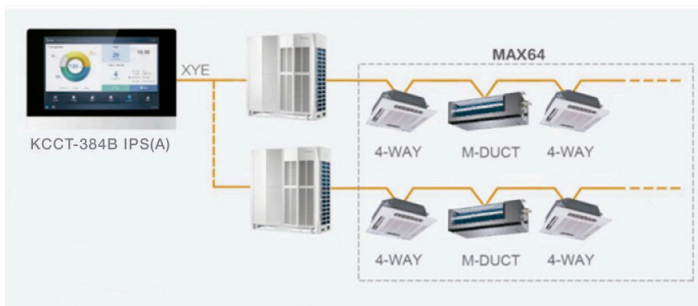
2. ABOUT KCCT-384B IPS(A)/(B)

2.1 System Overview

The KCCT-384B IPS(A)/(B) is the network gateway for Amazon V DN5S and Amazon IV HR series of VRF central air conditioning units, and is an important component smart management system MCAC (KAYNET CONTROL PRO) for VRF units. It can also work independently. The controller can connect to VRF unit through the M-net port. In the automatic topology mode, it supports up to 48 refrigerant systems (up to 384 indoor units).

2.2 KCCT-384B IPS(A)/(B) Network Architecture

The KCCT-384B IPS(A)/(B) uses the M-net port to connect to the VRF unit, and the LAN port to connect to the local area network or Internet. The network topology is shown in the following diagram:



The six M-Net ports are all XYE ports, and can connect to outdoor units directly. A converter is required to connect computer or other similar equipment to the network of the KCCT-384B IPS(A)/(B).

2.3 Supported Models

- 1) Supports the Amazon V DN5S/Amazon unitario DN4S of outdoor unit models.
- 2) Communication line to the M-net port must be connected from the outdoor unit.

*Please check with the engineer on the applicable outdoor and indoor unit models as well as the functions.

2.4 Based on Web Technologies

The KCCT-384B IPS(A)/(B) is a gateway controller based on Web technologies and has nothing to do with the operating systems of computer or other similar equipment. Once it is connected to the network, you can use the browser on the system platform to view the Web page any time, anywhere. The Chrome browser (version 52.0 or above) is recommended.

Note: When multiple accounts log in at the same time and related parameters (such as setting function parameters, schedule, group edit and map edit) are edited simultaneously, a modification conflict may occur. When an account is used to modify information other logged-in accounts must log in again to obtain the most recent information.

3. FUNCTION DESCRIPTION

Preparation

Local Network Connections

The KCCT-384B IPS(A)/(B) uses a switch to connect to the local area network. The IP addresses of the computer or other similar equipment and that of the KCCT-384B IPS(A)/(B) must be located in the same subnet segment.

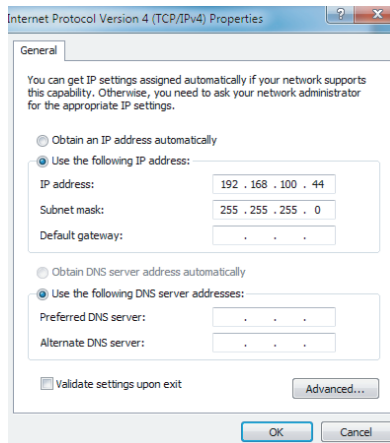
IP Settings

By default, the IP address of the KCCT-384B IPS(A)/(B) is 192.168.100.40 and the subnet mask is 255.255.255.0.

For the IP address of a computer or other similar equipment, you need to manually configure the static IP address that must be on the 192.168.100 segment with 255.255.255.0 as the subnet mask. If the computer only connects to the KCCT-384B IPS(A)/(B), then this is implemented using a single IP address. If the computer also connects to the local networks in addition to the KCCT-384B IPS(A)/(B) network, then you will need multiple IP addresses. The following figure shows the implementation method (Windows 7 system is taken as an example).

- Configure single IP address

Open the Internet Protocol TCP/IP Properties page to configure the IP address and subnet mask. For example, set the IP address to 192.168.100.44 and the subnet mask to 255.255.255.0.



Click "OK" when the configuration is done.

- Add multiple IP addresses

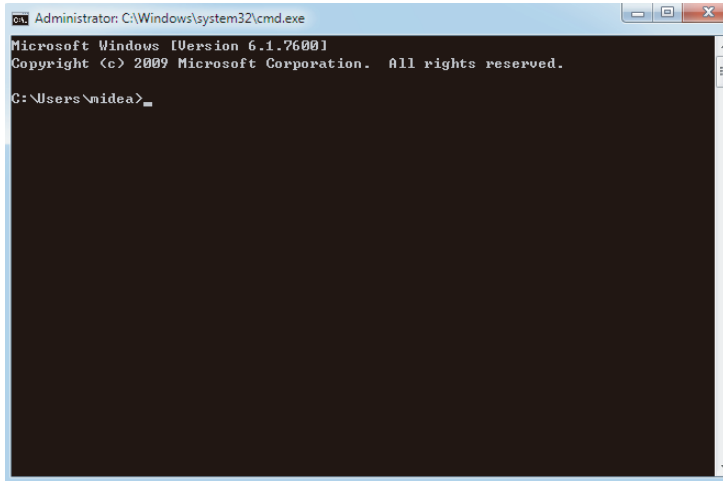
You need to first configure a static IP address before you can add multiple IP addresses. The steps to configure the static IP address are as follows:

1) Check local IP address

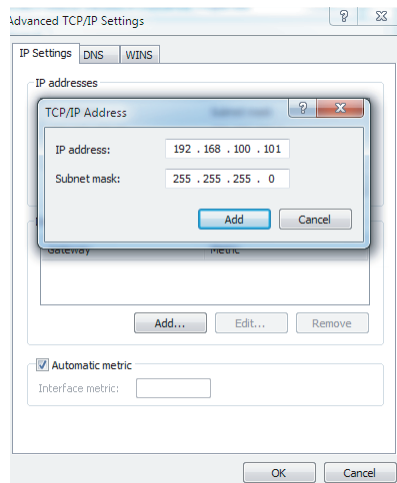
Open the Internet Protocol TCP/IP Properties page as shown in Figure 2.2. If the option "Use the following IP address:" is selected and there is an IP address listed here, it indicates that the local IP address is a static IP address. Otherwise, it is a dynamic IP address and you need to configure a static IP address.

2) Configure static IP address

Open the Run Command box from the Start Menu as shown in the following figure:



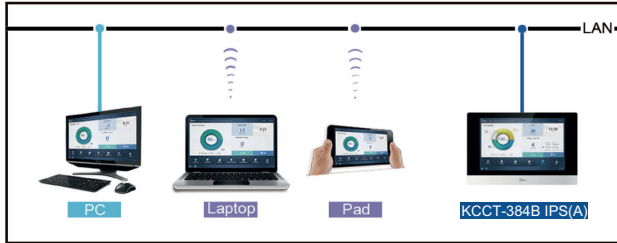
Enter "ipconfig" and press "Enter". The local dynamic IP address is displayed. Use this IP address as the IP address in the Internet Protocol TCP/IP Properties page to complete the static IP address configuration. Consult the local network administrator for details. Once the static IP address has been configured, open the Internet Protocol TCP/IP Properties page again. Select "Advanced..." to go to the TCP/IP Address page, as shown in the following figure.



Click "Add" under the IP addresses bar to add an IP address in the same segment as "192.168.100.40". For example, IP address is 192.168.100.101 with 255.255.255.0 as the subnet mask. Then, click "OK".

Local LAN Access

As long as the computer or other similar equipment in the LAN is in the same segment as the KCCT-384B IPS(A)/(B), you can use the address bar in the browser on its operating system to enter the address to link to the Web page of the KCCT-384B IPS(A)/(B) (for example: <http://192.168.100.40:8000/ui/login/login.html>) to directly access, operate and control the air conditioners. The topology of local access is as shown below:



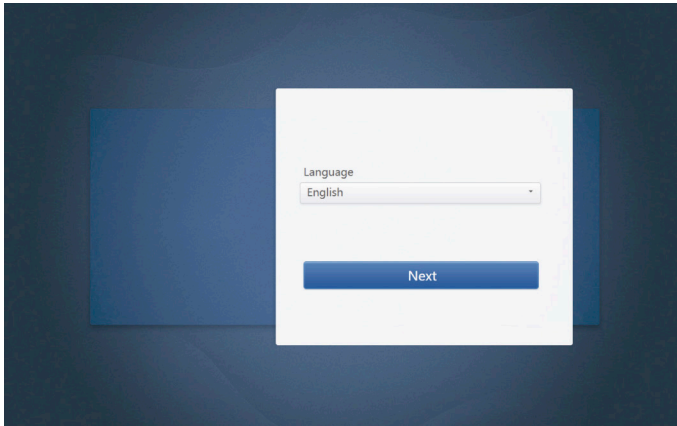
WIFI information

WIFI TRANSMISSION frequency range: 2.400~2.4835GHz.
WIFI TRANSMISSION power not more than 10dbm.

Select Language

The language selection interface appears only when the unit is powered on for the first time and no language has been selected.

Note: The language can be changed later in the Settings menu.

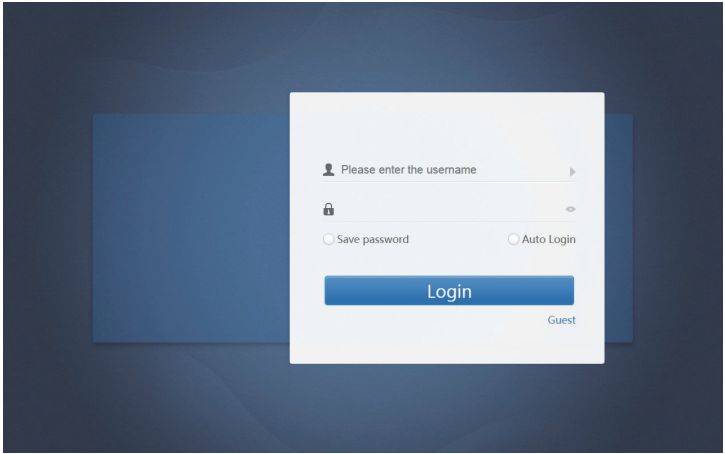





You can use a browser to enable the Web service functions:

The port number of the URL is 8000. For example, if the gateway IP address is 192.168.100.40, then its Web service address is <http://192.168.100.40:8000/ui/login/login.html>. The interface displayed on the browser is similar to that of the KCCT-384B IPS(A)/(B). The following only displays the functions.

3.0 Login

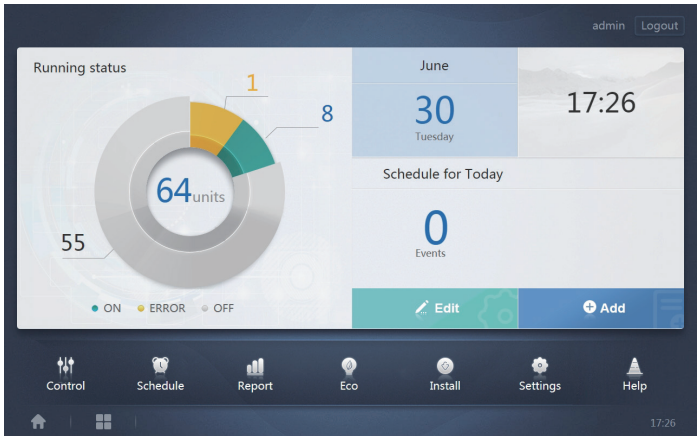
(Features in this section on the Web terminal and touch-screen are consistent. The "Save Password" may be available depending on the browser you used.)



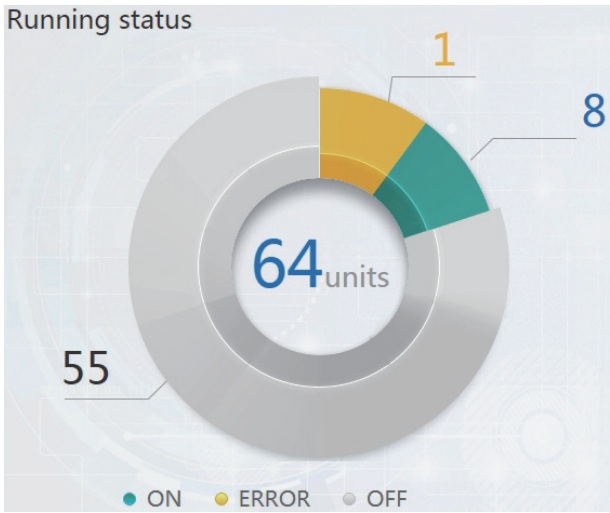
Username	 Please enter username
Password	<input type="password" value="*****"/>  <input type="password" value="123423 "/> 
Save password	<input type="radio"/> Save Password <input checked="" type="radio"/> Save Password
Auto login	<input type="radio"/> Auto Login <input checked="" type="radio"/> Auto Login
Login	<input type="button" value="Login"/>
Guest login	Anonymity
Default account name	normal
Initial password	123456

3.1 Home Page

Default software display page once you have logged in successfully:



3.1.1 Overview of Indoor Unit Running Status

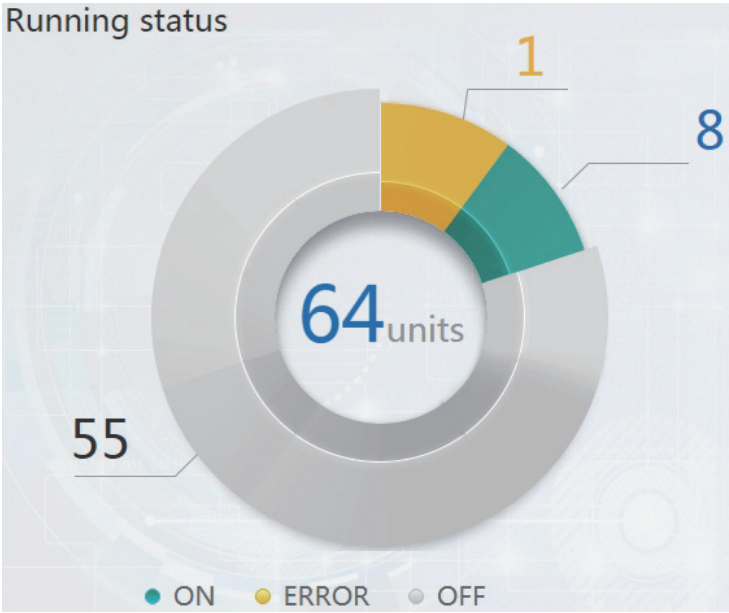


This section classifies the status of the indoor units into the following three categories:

Running	<input checked="" type="radio"/> ON
Error (Error includes error and offline)	<input type="radio"/> ERROR
Off	<input type="radio"/> OFF

3.1.2 Device Status List

Tap "Indoor Unit Status Statistics" to display the device status list.



Indoor Unit Status Statistics

IDU		ODU		HTHM						
Name	ID	Type	Group No.	Mode	Setpoint	C Setpoint	H Setpoint	Fan	Room temp.	Error code
idu-2-0-00	2-0	0	0	Cool	19	--	--	M	20	--
idu-2-0-01	2-1	0	0	Heat	19	--	--	M	20	--
idu-2-0-02	2-2	0	0	Dry	19	--	--	M	20	--
idu-2-0-03	2-3	0	0	Fan	--	--	--	M	20	--
idu-2-0-04	2-4	5	0	Cool	19	--	--	M	20	--
idu-2-0-05	2-5	5	0	Heat	19	--	--	M	20	--
idu-2-0-06	2-6	1	0	Heat	--	--	--	--	20	E4
idu-2-0-07	2-7	5	0	Heat	19	--	--	Off	20	--
idu-2-1-08	2-8	21	0	OFF	--	--	--	--	-25	--
idu-2-1-09	2-9	21	0	OFF	--	--	--	--	-25	--

First Prev 1/6 Next Last

11:22 PM

IDU		ODU		HTHM						
Name	ID	Mode	Error code	Ambient temp.	FAN1	FAN2	kWH	Power	Demand	Mode Priority
odu-2-0-00	2-0	Heat	--	10	10	44	0	8	2	Auto
odu-2-0-01	2-1	Heat	--	80	10	10	0	10	2	Auto
odu-2-0-02	2-2	Heat	--	80	10	44	0	13	2	Auto
odu-2-0-03	2-3	Heat	--	80	10	10	0	30	2	Auto
odu-2-1-04	2-4	OFF	H2	20	--	--	0	10	2	Auto
odu-2-1-05	2-5	OFF	--	20	--	--	0	13	2	Auto
odu-2-1-06	2-6	OFF	--	20	--	--	0	13	2	Auto
odu-2-1-07	2-7	OFF	--	20	--	--	0	13	2	Auto
odu-2-2-08	2-8	Heat	--	20	10	10	0	20	2	Auto
odu-2-2-09	2-9	Heat	--	20	10	10	0	15	2	Auto

First Prev 1/4 Next Last

11:23 PM

IDU		ODU		HTHM				
Name	ID	Type	Group No.	Mode	H Setpoint	WH Setpoint	Water inlet temp.	Water outlet temp.
idu-2-7-60	2-60	17	0	OFF	--	--	-25	-25
idu-2-7-61	2-61	17	0	OFF	--	--	-25	-25
idu-2-7-62	2-62	17	0	WH	25	25	90	90
idu-2-6-63	2-63	17	0	OFF	--	--	90	90

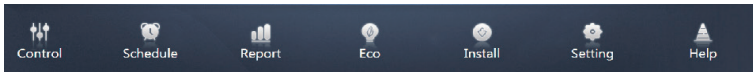
1 / 1

11:23 PM

Scroll through the interface horizontally to check more parameters of the IDU, ODU, and HTHM.



3.1.3 Function Menu

Navigate through all the functions at the bottom of the home page;



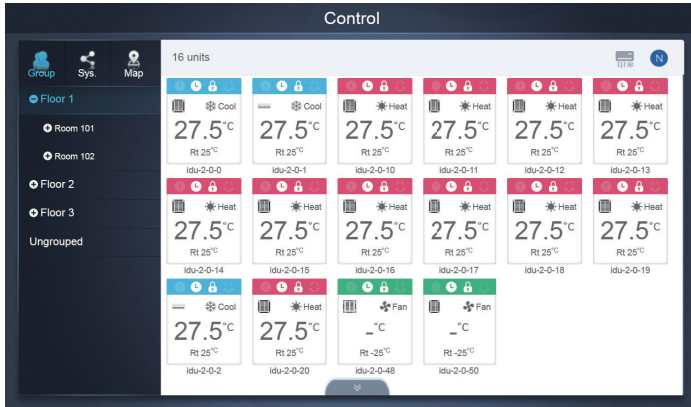
3.1.4 Special Menu



Function	Icon
Back to Home	
Operating History	

Note: The interface response time may lag if users query a long period of operation history.

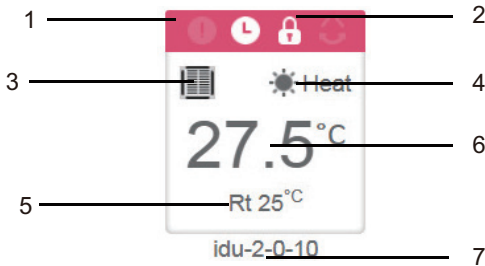
3.2 Control



Control





Function	Inactive	Active
Indoor Unit View - Group		
Indoor Unit View - System		
Indoor Unit View - Map		

Select "Group" to view information of the corresponding indoor unit on the right. A series of icons are displayed, and the details are as follows:




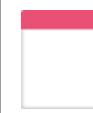












No.	Description
1	The colours here represent the operating modes. For details, refer to the Table of Basic Mode Images.
2	Indicators (in order from left to right): error, schedule, lock, swing. Icon is white when active, such as the lock indicator in the figure.
3	Displays the corresponding device model. For details, refer to the Model Table.
4	The icons here represent the operating modes. For details, refer to the Table of Basic Mode Images.
5	Ambient temperature
6	Set temperature
7	You can change the indoor unit name on the "Install" page.



















Note: The error code shown in the indoor unit on the old platform is different from the error code shown in the nixie tube display of the indoor unit.

Function	Remarks
	Error
	Schedule
	Lock
	Swing

Basic Mode Images

Off, Error, Offline (grey)	Auto (dark blue)	Cool, EXCH (light blue)	Heat, BYP (red)	WH (orange)	Fan, FREE (green)	Dry, (yellow)
						
						

Model:

Old IDU	
4-Way Cassette (4-WAY)	
Wall-mounted	
Medium Static Pressure Duct (M-Duct)	
Low Static Pressure Duct (L-Duct)	
Air Handling Unit (AHU)	
High Static Pressure Duct (H-Duct)	
Compact 4-Way Cassette (COMPACT)	
Ceiling & Floor	
Vertical Type Concealed	
1-Way Cassette	
2-Way Cassette	
Fresh Air Processing Unit	
HRV	
IDUs in Wired Controller Group	
HTHM	
Floor standing unit	
AHU	

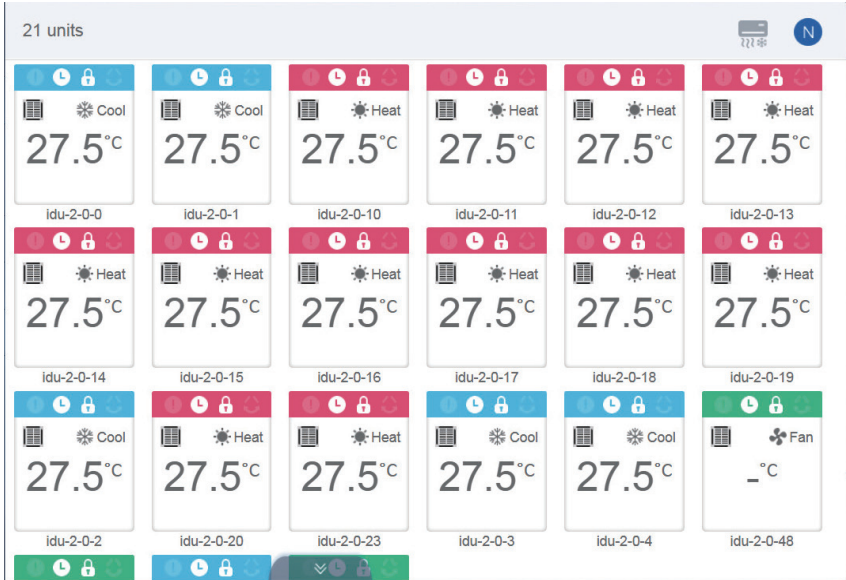
When the refrigerant system supports the use of auto mode for dual setpoints, a small horizontal bar will appear below the model icon, e.g.:

4-Way Cassette (4-WAY)		
------------------------	---	---

3.2.1 Indoor Unit View - Group

Note: The group interface has a default "Ungrouped". All the devices that have not been assigned a group are included here.

The user defined groups are shown on the left of the device monitor page. Once a group is selected, the indoor units of the selected group are shown on the right.



The top left corner shows the number of indoor units in the group.

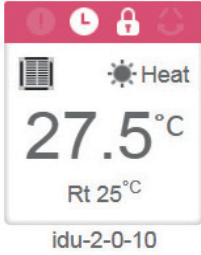
3.2.1.1 Order of Display for Indoor Unit

Indoor units can be sorted by name or mode.

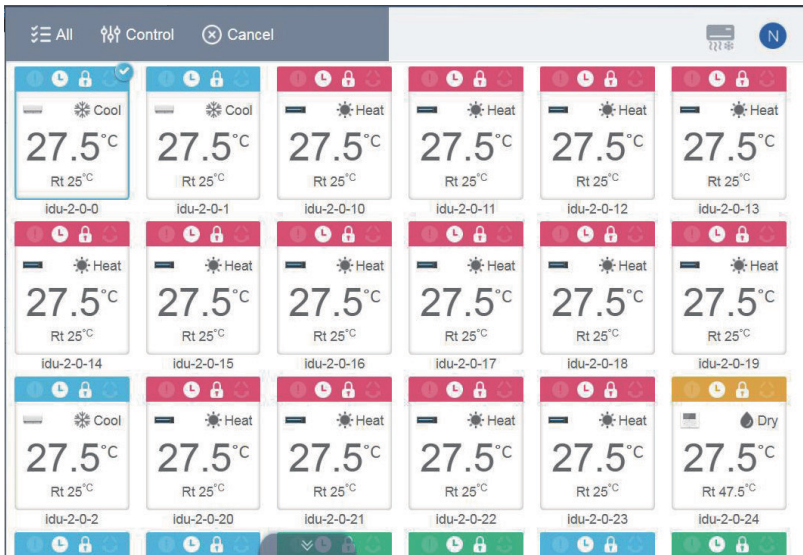
Function	Inactive	Active
Sort by mode Auto, Cool, Heat, Dry, Fan, Off, Error, Offline		
Sort by name		

3.2.1.2 General Controls for Indoor Unit

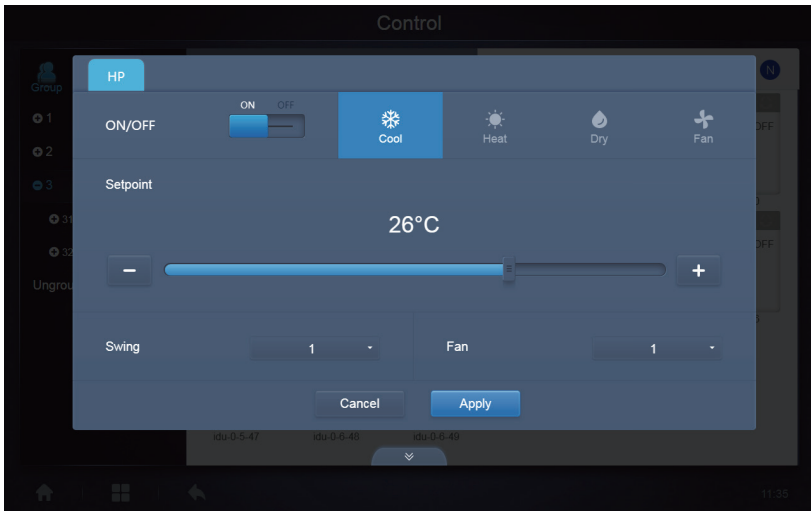
Tap to select the indoor unit and change its status to "selected".



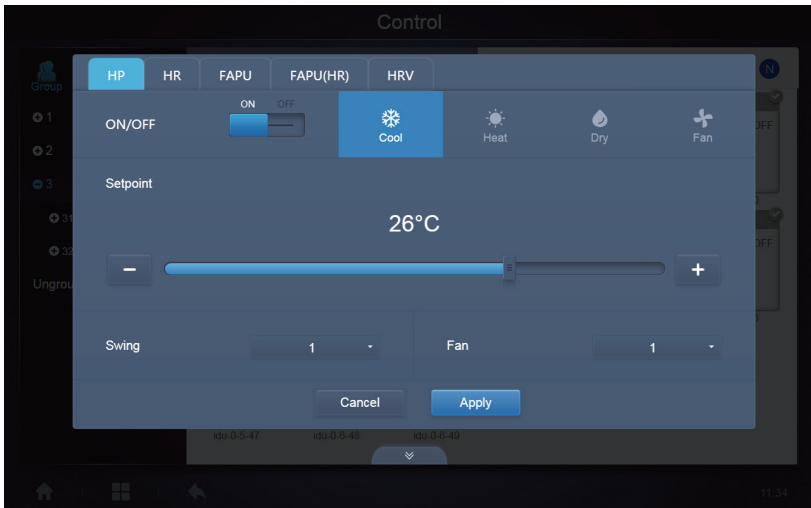
At the top left corner, you will see "All", "Control", and "Cancel".



Tap "All" to select all the indoor units on the interface. If you tap an indoor unit after "All" is selected, the indoor unit will be unchecked, and "All" will change to normal mode. If Cancel is selected, all indoor units will be unchecked.



When simultaneously controlling multiple indoor units:



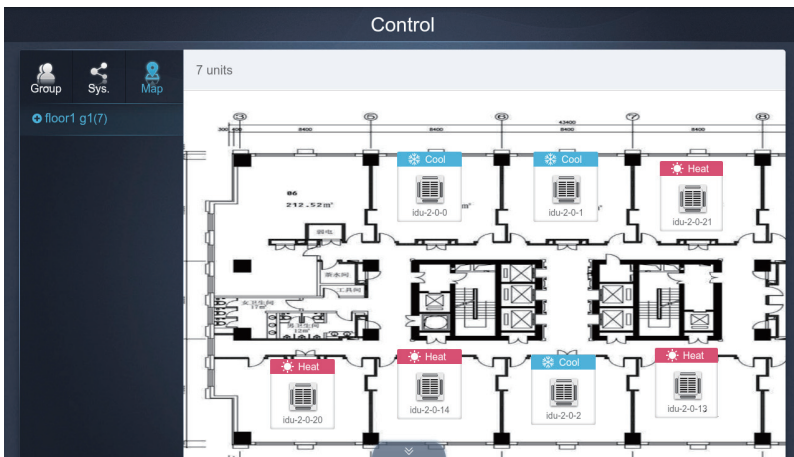
3.2.2 Indoor Unit View - System

This is similar to "Group Navigation", except that the system (instead of the groups) is on the left. System name is default and cannot change.

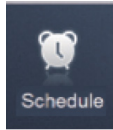


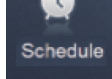
3.2.3 Indoor Unit View - Map (this function is not available for Web terminals)

You need to configure the map when you install the functions before you can use it.

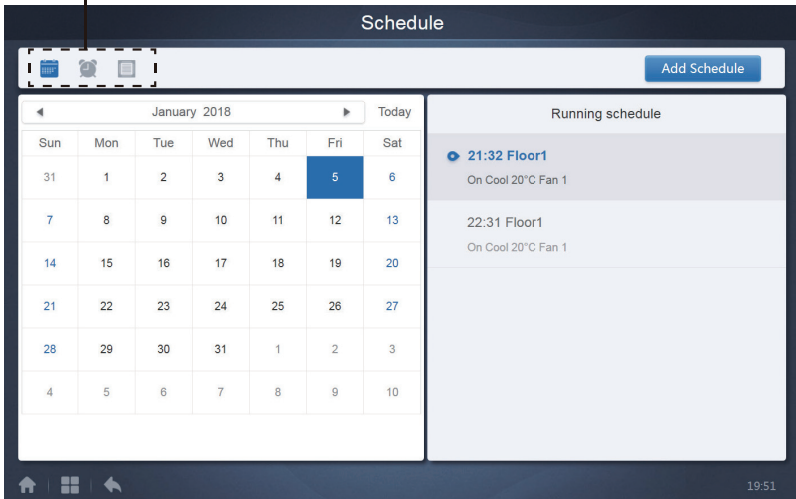


3.3 Schedule



Once you have tapped  on the Home Page to go to the function module, go to the page to view the schedules.

1



No.	Functions
1	<p>From left to right, the respective corresponding options to display the schedule are:</p> <ol style="list-style-type: none"> 1. Calendar View (by date); 2. Plan View (by plan); 3. Device View (by device); <p>Tap the corresponding icon to go to the respective schedule view. Default is the calendar view.</p>

Note: Different types of indoor units cannot be added to the same schedule.

3.2.1 View Schedule

3.3.1.1 Calendar View

With the calendar view, select the date on the left to retrieve and view the schedule corresponding to the selected date on the right.

The screenshot shows a calendar for January 2018 with Friday, January 5, selected. To the right, the 'Running schedule' panel displays two events for '21:32 Floor1' and '22:31 Floor1', both with the note 'On Cool 20°C Fan 1'.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Running schedule

- 21:32 Floor1
On Cool 20°C Fan 1
- 22:31 Floor1
On Cool 20°C Fan 1

Calendar View


The annotated calendar view shows the following callouts:

- 1: Navigation arrow (left)
- 2: Month and year (January 2018)
- 3: Navigation arrow (right)
- 4: Today button
- 5: Selected date (Friday, January 10)
- 6: Selected date (Friday, January 25)
- 7: Selected date (Friday, January 4)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Calendar view

No.	Functions
1	Tap to shift the calendar to display the previous month.
2	Displays the year and month information of the current date.
3	Tap to shift the calendar to display the next month.
4	Tap to quickly jump to the month that today's date belongs to, and select today's date.
5	Today's date that has not been selected (light blue background). Tap to select this date.
6	Date selected (dark blue background).
7	The grey numbers are dates not in the month shown now. Tap to jump to the month that the date belongs to.

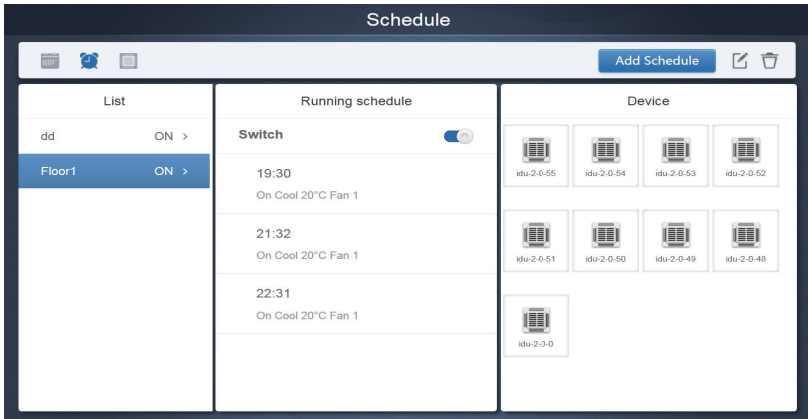
Running schedule
 21:32 Floor1 On Cool 20°C Fan 1
22:31 Floor1 On Cool 20°C Fan 1

Schedule view

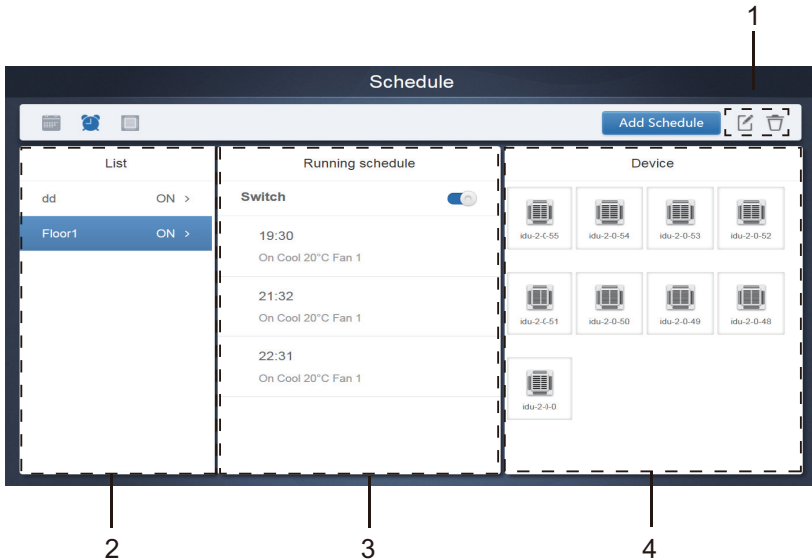
The schedule page only shows scheduled tasks that have not been performed for the selected date (arranged in the order of implementation time). The displayed information is as follows

1. Time
2. Schedule name
3. Details of the executed command (On/off, mode, set temperature, fan speed)

3.3.1.2 Plan View



Tap the second icon to view the schedule by plan as shown in the figure above.

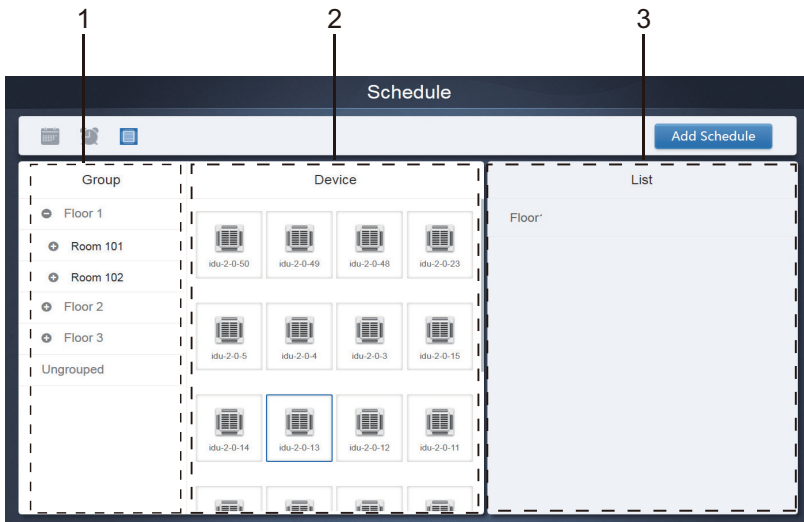


Calendar view (part)

No.	Functions
1	Tap the left icon to go to the schedule editor. Tap the right icon to delete the selected schedule.
2	The schedules are arranged in order of their time created. Tap to select the schedule you need. Selected schedule has a blue background colour. The schedule name is on the left of the schedule bar, and the status (ON/OFF) of the schedule is on the right.
3	Shows all the timings for the selected schedule. Use the On/Off slider to perform on/off operations on the schedule. All the events on the dates of the schedule that has been turned off are not implemented, and the status "OFF" is displayed on the schedule bar. The schedule will not come into effect until it is turned on again.
4	Shows all the indoor units associated with the schedule.

3.3.1.3 Device View

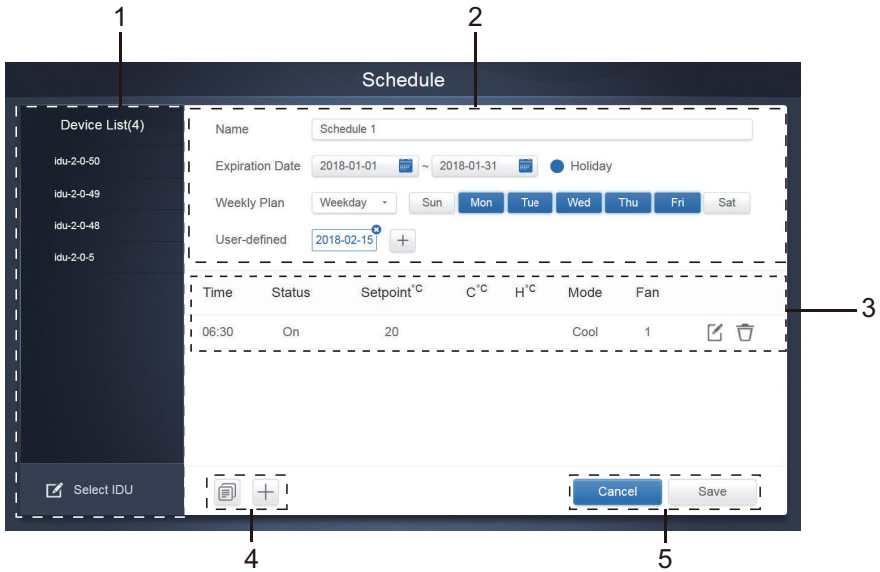
Tap the third icon to go to the device view.



The page is divided into three sections.

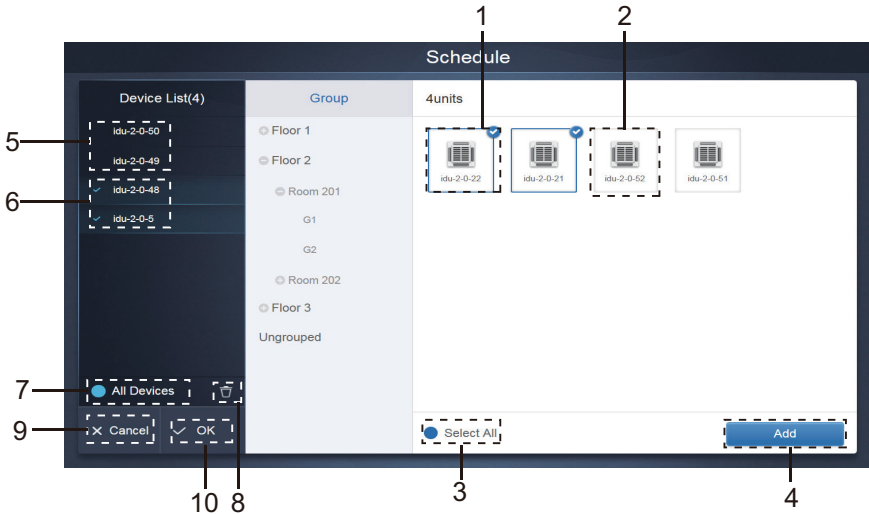
1. Group list: this makes it easy to locate the device quickly. Tap "+" to expand the group, and "-" to fold the group. All the IDUs in the selected group are displayed in the second column. Tap "Ungrouped" to view devices that have not been grouped.
2. The second column is a list of all the devices in the selected group.
3. The third column is the list of schedules, and displays names of all the schedules associated with the selected device.

3.3.2 Add Schedule











No.	Functions
1	The device list displays all the devices related to the schedule. Tap to select and add the IDU
2	Settings related to the schedule name and effective date.
3	Settings related to the timings and commands.
4	Copy and add the schedule timings.
5	Cancel and save

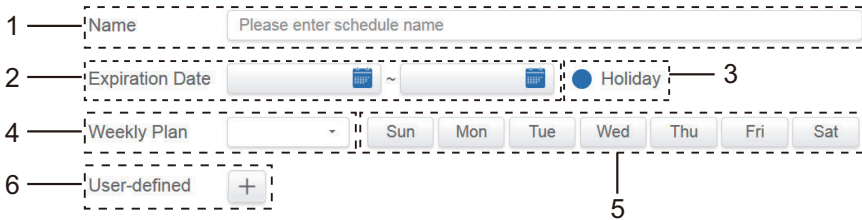
3.3.2.1 Add Device



3.3.2.1 Device Selection Page

No.	Functions
1	Devices waiting to be selected are displayed in the rightmost area, and these are the devices that have not been added to the selected subgroup. "1" is a selected device and its top right corner is marked with  .
2	"2" is a device that has not been selected. Tap the unselected device to select the device. Tap again to deselect the selected device.
3	Tap  to activate "Select All".  is an active status. After activation, all the devices waiting to be selected in the group are selected. Tap again to deselect all. Manually cancel the selected status of a few devices after "Select All" has been activated will not cancel "Select All". Tap  again to cancel the "Select All" option.
4	Tap to add the selected device.
5	Displays the device that has been added. Tap to select this operation. "5" is a device that has not been selected, tap to select it.
6	Displays the device that has been added. Tap to select this operation. "6" is a selected device, tap to deselect it. Left of the selected device is marked with  .
7	Tap  to activate "Select All".  is an active status. After activation, all the devices waiting to be selected in the group are selected. Tap again to deselect all. Manually cancel the selected status of a few devices after "Select All" has been activated will not cancel "Select All". Tap  again to cancel the "Select All" option.
8	Move the device that has been selected to be added to the group out of the "Add device" queue.
9	Exit without saving.
10	Save and exit.

3.3.2.2 Date Settings



No.	Functions
1	Tap the input box to enter a name. Maximum length is 80 English characters (40 Chinese characters). Note that system is unable to save the name if it contains the following symbols: ([~!#\$%^&*()= {}';:,.<>/...?~! ¥… () — 【 】 ‘ ’ : “ ” 。 , 、 ? ; 《 》])
2	Tap in the white space next to the blue icon on the left to activate the date selection dialog box. Tap to select the corresponding dates, the start date is on the left and the end date is on the right. The end date cannot be earlier than the start date.
3	Check the blue icon on the left next to Holiday to activate the holiday exception function which is to carry out all the plans in the schedule during the holiday period. The icons that are checked are active.
4	Quick select for the weekly plan. Select the particular day to implement the plan for the day. If the day falls on a working day (Mon to Fri), the schedule for the day is implemented on the day itself.
5	Manual option for weekly plan. Tap the date to activate or deactivate it. Blue indicates active status, while white indicates inactive status.
6	You can add a custom date to the schedule as an individual date. Tap the "+" sign to add a date each time, and you may add up to 5 dates. Tap once to select and add the date. Tap "x" at the top left corner to delete this date. Tap the date in other areas to deselect it.

Note:

The schedule will not be implemented during holidays unless Holiday is selected;

The schedule on the custom date will be implemented, regardless of whether the custom date falls within the effective dates, weekly plan or holidays;

The schedule for the remaining dates must meet the requirements of the effective dates and weekly plan.

3.3.2.3 Add Schedule Command

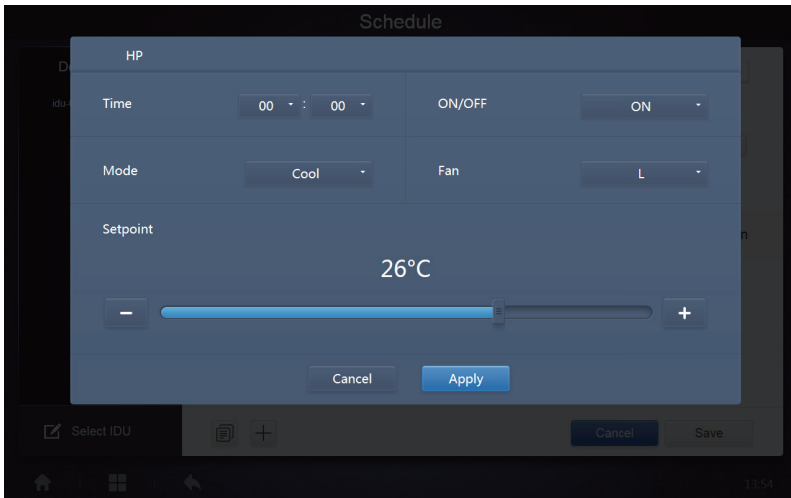
Tap  to display the dialog box for adding scheduled commands. The following types of

Please add a new schedule rules

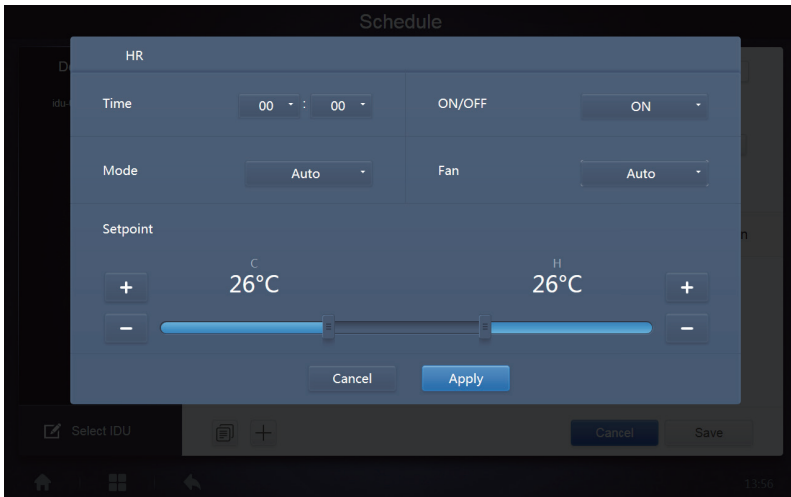
schedule command interfaces will be displayed according to the selected indoor unit type (you must add indoor units before creating a schedule command). After the first schedule command is created,

you can tap  to create a schedule command.

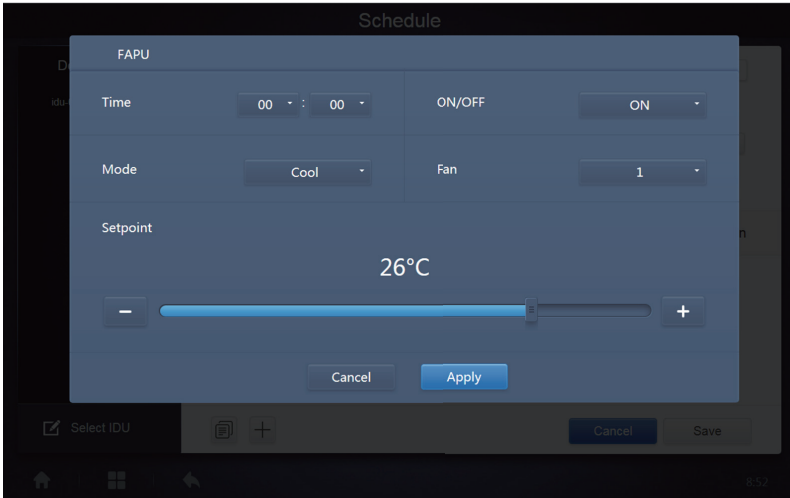
1. Heat pump indoor unit



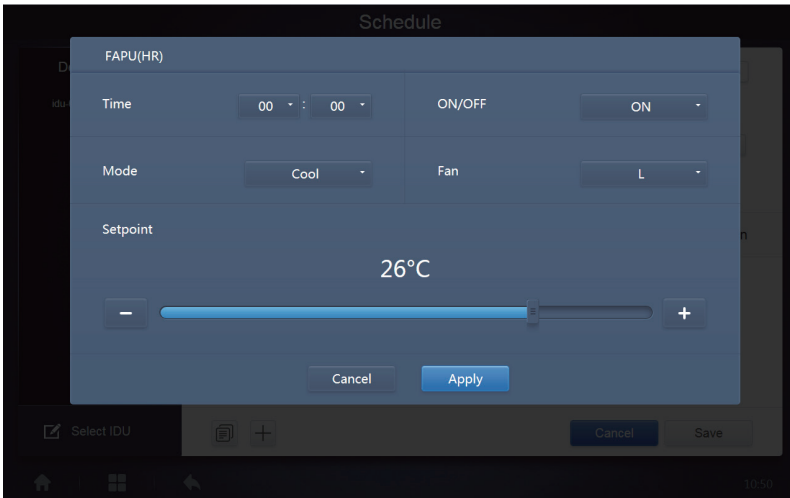
2. Heat recovery indoor unit



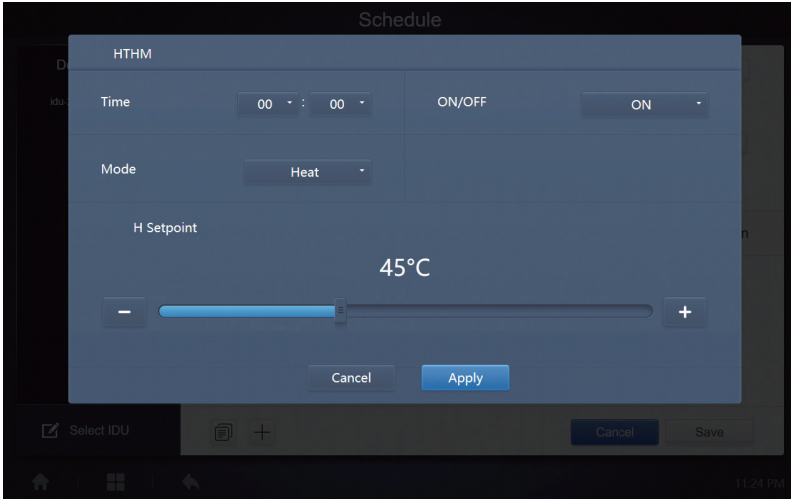
3. FAPU



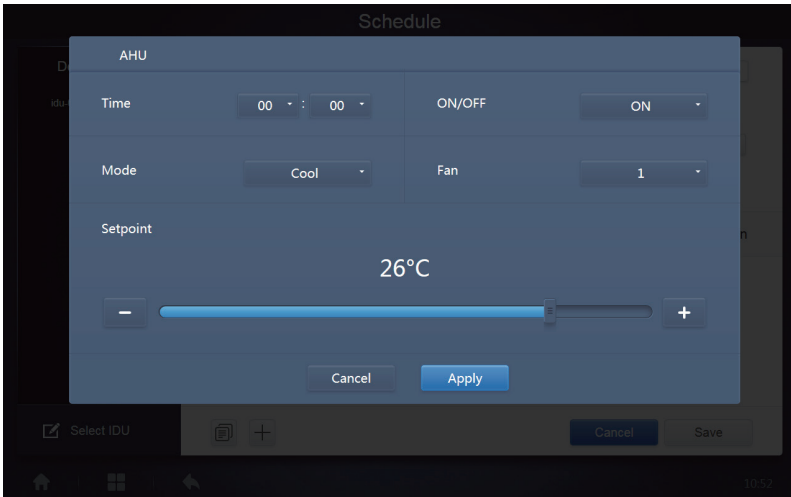
4. FAPU(HR)



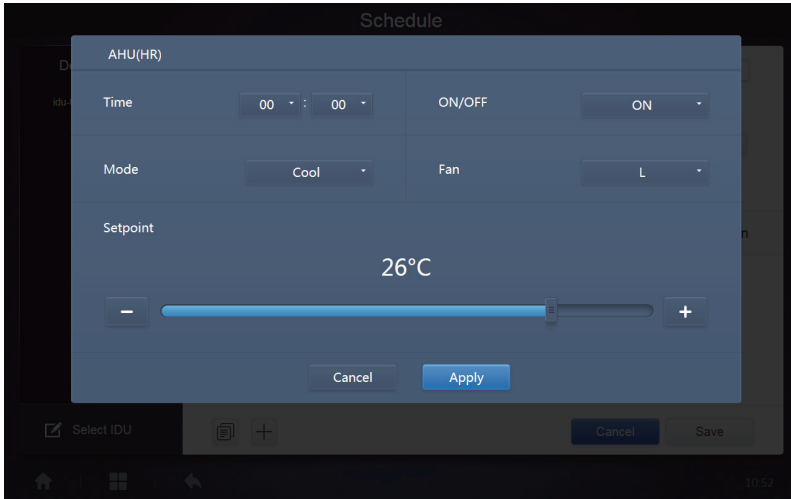
5. HTHM



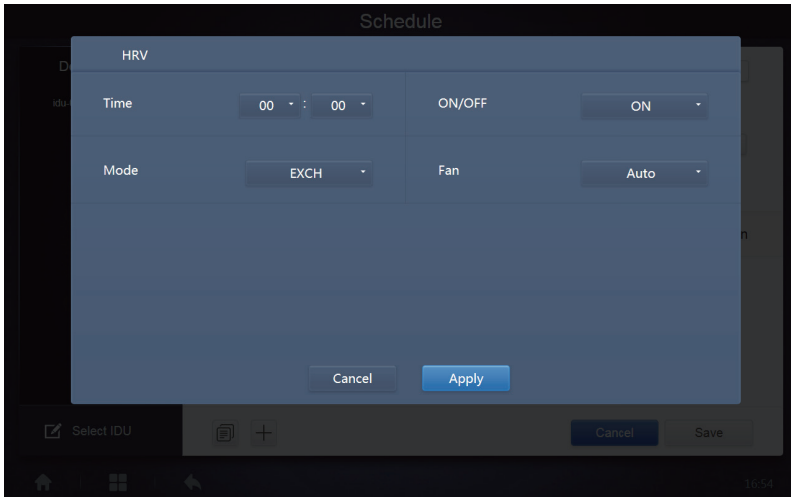
6. AHU






7. AHU (HR)





8. HRV



Note:

1. Tap "+" or "-" on "Setpoint" to increase or decrease the temperature by 0.5/1 (corresponding parameters are configured in settings);
2. Tap "+" or "-" on "Time" to increase or decrease the time by 1;
3. Tap  to copy the task with the latest implementation time and add one more minute to the implementation time. The 23:59 command cannot be copied.
4. For the times that have been saved, tap  to edit again, and  to delete.

Time	Status	Setpoint ^{°C}	C ^{°C}	H ^{°C}	Mode	Fan		
06:30	On	20			Cool	1		

Note: The time on the schedule command editing interface is fixed to the 24 hour system. The homepage display interface can be set to display the 24 or 12 hour system.


3.3.2.4 Save

Tap "Save" to save all the operations on this page, and open a new schedule to add pages. If there are illegal or incomplete items, you will receive the corresponding prompts.

Tap "Cancel" to cancel all operations to add this schedule, and exit to the calendar view for the schedule.


3.3.2.5 Change Schedule

Tap  on the Home Page or tap  on the schedule in the calendar view to change the schedule.

On the Home Page, the schedule is marked by . On the schedule view page, the entry point is the selected schedule.

The operating method for the schedule editor is similar to that for adding a new page. The difference is that the screen will remain on the schedule editor page for "Save".

3.4. Report

(Files are exported to local folder when the software is opened on a Web terminal.) On the Home Page, tap .

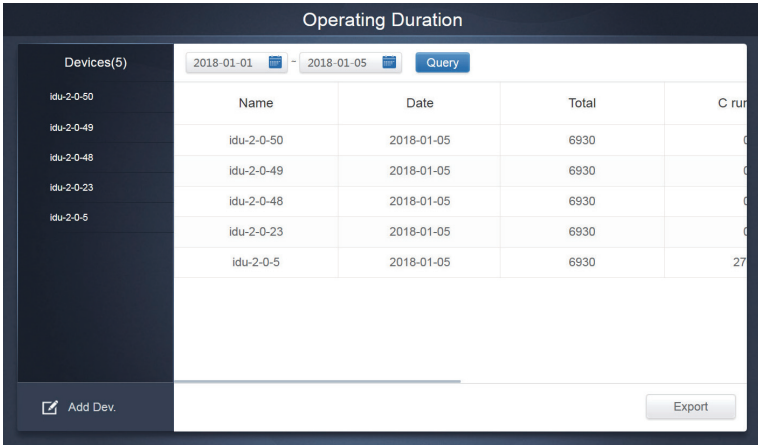
There are 3 modules for users to choose from:

1. Operating Duration
2. Running Record
3. Energy Statistics

Tap the corresponding key to enter the module.



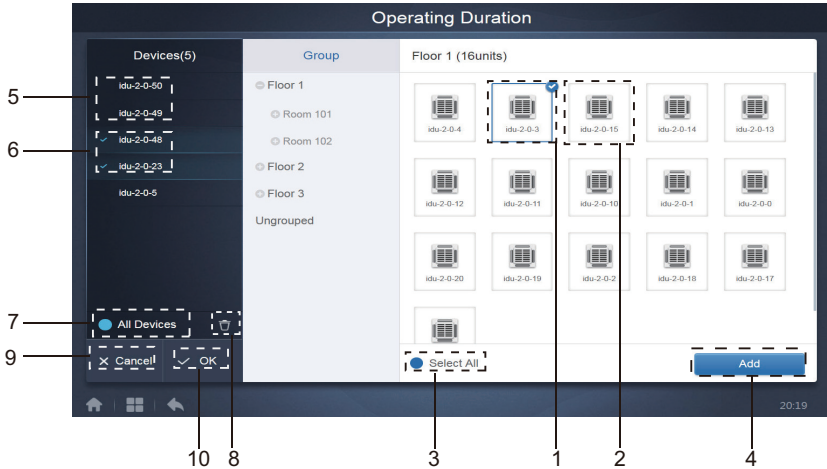
3.4.1.1 Query Operating Duration











3.4.1.1 Operating Duration

3.4.1.2 Operating Procedures

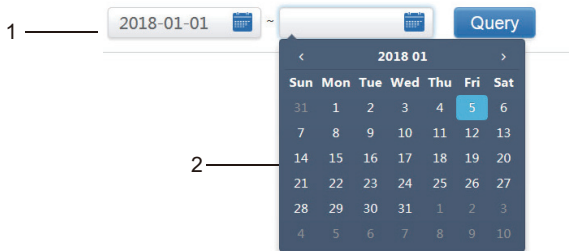
1. Tap the selected device to go to the device selection page.
2. Details of the device selection page are as follows:



3.4.1.2a Device Selection Page

No.	Functions
1	Devices waiting to be selected are displayed in the rightmost area, and these are the devices that have not been added to the selected subgroup. "1" is a selected device and its top right corner is marked with  .
2	"2" is a device that has not been selected. Tap the unselected device to select the device. Tap again to deselect the selected device.
3	Tap  to activate "Select All".  is an active status. After activation, all the devices waiting to be selected in the group are selected. Tap again to deselect all. Manually cancel the selected status of a few devices after "Select All" has been activated. Will not cancel "Select All". Tap  again to cancel the "Select All" option.
4	Tap to add the selected device.
5	Displays the device that has been added. Tap to select this operation. "5" is a device that has not been selected, tap to select it.
6	Displays the device that has been added. Tap to select this operation. "6" is a selected device, tap to deselect it. Left of the selected device is marked with  .
7	Tap  to activate "Select All".  is an active status. After activation, all the devices waiting to be selected in the group are selected. Tap again to deselect all. Manually cancel the selected status of a few devices after "Select All" has been activated will not cancel "Select All". Tap  again to cancel the "Select All" option.
8	Move the device that has been selected to be added to the group out of the "Add device" queue.
9	Exit without saving.
10	Save and exit.

3. Perform the time selection once the device has been added.



3.4.1.2b Time Selection Page

No.	Functions
1	Tap in this area (except the blue calendar icon) to activate the calendar.
2	Tap any number to select the date. Selected date in the box has a light blue background, otherwise today's date is selected. The grey text is a date that is outside this month. Tap to select it. Tap the time at the top to quickly locate the date. Tap once to go to the quick selection function for the month. Tap twice to go to the quick selection function for the year. Use the arrows on both sides at the top to quickly toggle the year and month. Each toggle is a 12-year duration for quick selection of year, 1-year duration for quick selection of month, and 1-month duration for quick selection of date. Tap the left arrow to move to previous month or year, and the right arrow to move to the next month or year.

Note: You cannot select an HTHM and a common IDU at the same time for query. Items on the list of an HTHM differ from those on the list of a common IDU.

Operating Duration

2019-01-30 - 2019-01-31 Query

Devices(62)	Name	Date	Total (H)	C running (H)	C standby (H)	H running (H)	H standby (H)
idu-0-0-00	idu-0-0-00	2019-01-31	0	0	0	0	0
idu-0-0-01	idu-0-0-01	2019-01-31	0.083	0	0	0.083	0
idu-0-0-02	idu-0-0-02	2019-01-31	0.083	0	0	0	0
idu-0-0-03	idu-0-0-03	2019-01-31	0.083	0	0	0	0
idu-0-0-04	idu-0-0-04	2019-01-31	0.083	0.083	0	0	0
idu-0-0-05	idu-0-0-05	2019-01-31	0.083	0	0	0.083	0
idu-0-0-06	idu-0-0-06	2019-01-31	0.083	0	0	0.083	0
idu-0-0-07	idu-0-0-07	2019-01-31	0.083	0	0	0.083	0
idu-0-1-08	idu-0-0-08	2019-01-31	0.083	0	0	0.083	0
idu-0-1-09	idu-0-0-09	2019-01-31	0.083	0	0	0.083	0

Email Export

4:35 PM

3.4.2 Running Record

The running record also needs to satisfy two conditions before the query is implemented. The operating procedures and query method are similar to 3.4.1 Operating Duration.

Running Record

Devices(62)

-
Query

	Operating Duration	Name	ID	Type	Group NO.	Mode	Setpoint	C Setpoint
idu-0-0-00	2019/01/31 16:33:45	idu-0-0-00	0-0	0	0	OFF	--	--
idu-0-0-01	2019/01/31 16:12:06	idu-0-0-00	0-0	0	0	OFF	--	--
idu-0-0-02	2019/01/31 03:23:54	idu-0-0-00	0-0	0	0	OFF	--	--
idu-0-0-03	2019/01/31 03:23:54	idu-0-0-00	0-0	0	0	OFF	--	--
idu-0-0-04	2019/01/31 16:33:45	idu-0-0-01	0-1	0	0	Heat	19	--
idu-0-0-05	2019/01/31 16:12:06	idu-0-0-01	0-1	0	0	Heat	19	--
idu-0-0-06	2019/01/31 03:23:54	idu-0-0-01	0-1	0	0	Heat	19	--
idu-0-0-07	2019/01/31 16:33:45	idu-0-0-02	0-2	0	0	Dry	19	--
idu-0-1-08	2019/01/31 16:12:06	idu-0-0-02	0-2	0	0	Dry	19	--
idu-0-1-09								

Add Dev.
First
Previous
1 / 5
Next
Last
Email
Export

3.4.3 Energy Statistics

The method to query energy statistics is similar to that for the previous two functions. However, in the coordinate mode, you can only add up to three devices to search. There are no restrictions in the table mode.

Use at the top right corner to select the different modes. The selected mode is blue. The three modes are histogram, line graph and table respectively.

3.4.3.1 List View

Energy Statistics

Devices(3)

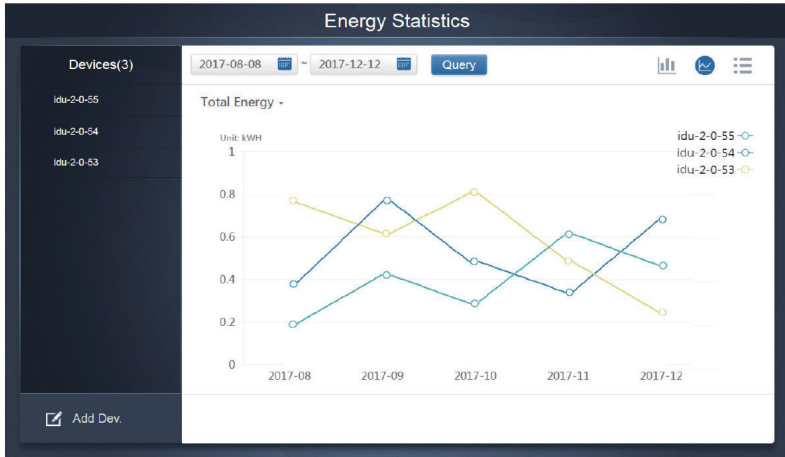
-
Query

	Name	ID	IDU Operating Power	IDU Standby Power	Total IDU Cost
idu-2-0-55	idu-2-0-55	2-55	0	0	0
idu-2-0-54	idu-2-0-54	2-54	0	0	0
idu-2-0-53	idu-2-0-53	2-53	0	0	0

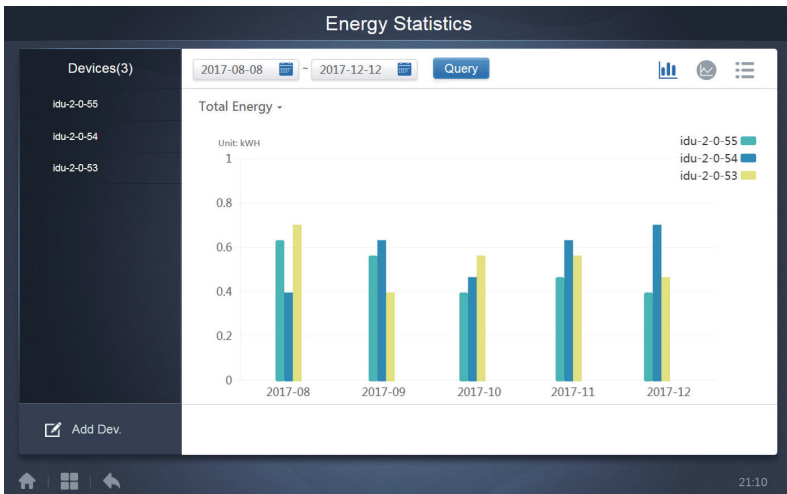
Add Dev.
Export

List View

3.4.3.2 Histogram and Graph



Line Chart




Histogram

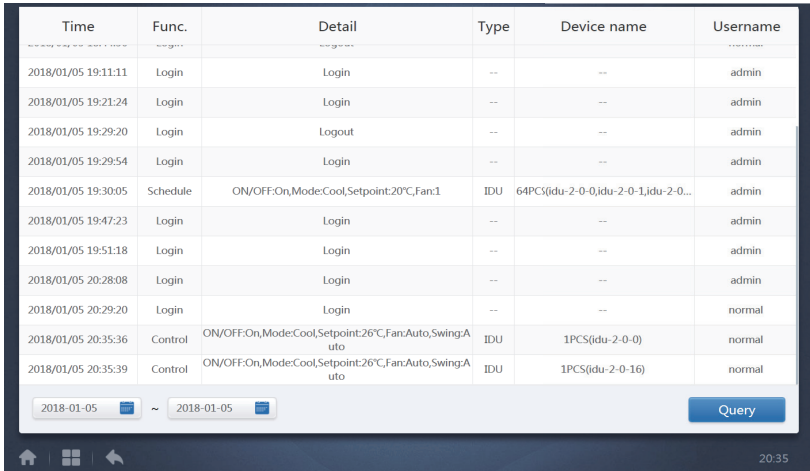
For histograms and graphs, you can only select three objects, and select either IDU or refrigerant system. The selected time for graphs and lists is based on the month (effective graph is based on day). There are only two options in total energy: total energy, and operating energy.

In the graphs, histograms and tables, the optional parameters are "Total Energy" and "Operating Energy".

	Operating Energy	Total Energy
IDU	Operating Electricity	Operating electricity + standby power
ODU	Operating Electricity	Operating electricity + standby power + exceptional energy

3.4.4 Log

Tap  at the lower-left corner of the Home Page to go to the log page.



Time	Func.	Detail	Type	Device name	Username
2018/01/05 19:11:11	Login	Login	--	--	admin
2018/01/05 19:21:24	Login	Login	--	--	admin
2018/01/05 19:29:20	Login	Logout	--	--	admin
2018/01/05 19:29:54	Login	Login	--	--	admin
2018/01/05 19:30:05	Schedule	ON/OFF:On,Mode:Cool,Setpoint:20°C,Fan1	IDU	64PCS(idu-2-0-0,idu-2-0-1,idu-2-0...	admin
2018/01/05 19:47:23	Login	Login	--	--	admin
2018/01/05 19:51:18	Login	Login	--	--	admin
2018/01/05 20:28:08	Login	Login	--	--	admin
2018/01/05 20:29:20	Login	Login	--	--	normal
2018/01/05 20:35:36	Control	ON/OFF:On,Mode:Cool,Setpoint:26°C,FansAuto,Swing:A uto	IDU	1PCS(idu-2-0-0)	normal
2018/01/05 20:35:39	Control	ON/OFF:On,Mode:Cool,Setpoint:26°C,FansAuto,Swing:A uto	IDU	1PCS(idu-2-0-16)	normal

2018-01-05 ~ 2018-01-05 Query

Certain operations of the software are recorded in logs, and these are classified into the following categories:

General control command

ECO control command

Schedule control command

Login and logout

Select the start time and end time at the lower-left corner. Tap "Query" to display the log contents within this statistic compilation period.

Note:

When you switch the language, the language used to record the data in the schedule is not refreshed, and the log record is based on the data language at the time of creation.

3.4.5 Export Function

For Operating Duration, Running Record, and Energy Statistics reports, there are functions to export the queries records to .csv files (except for histograms and graphs). The contents of the exported files are consistent with the current results of the queries. The format of the file is .csv, and it can be viewed and edited with Excel. Naming convention of the exported file is:

Operating Duration: running_timestamp.csv;

Running Record: record_timestamp.csv;

Energy Statistics: energy_timestamp.csv.

Running Record

Devices(21) 2018-01-05 2018-01-05 Query

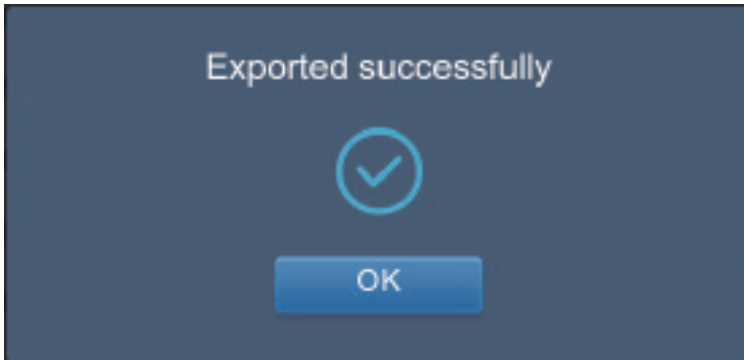
Operating Duration	Name	Type	Group
2018/01/05 19:15:55	idu-2-0-23	1	
2018/01/05 19:14:24	idu-2-0-5	1	
2018/01/05 19:14:24	idu-2-0-4	1	
2018/01/05 19:14:24	idu-2-0-3	1	
2018/01/05 19:14:50	idu-2-0-15	1	
2018/01/05 19:14:50	idu-2-0-14	1	
2018/01/05 19:14:50	idu-2-0-13	1	
2018/01/05 19:14:50	idu-2-0-12	1	

Add Dev. Email Export

20:29

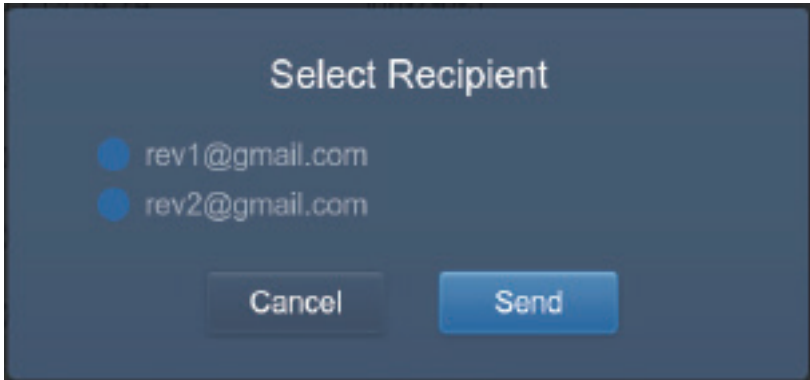
You can only save to local folder at the Web terminal, and the export target is the default download path for the current browser.

When the file is exported to a USB drive through the touch-screen, you will receive a prompt once the export is successful:

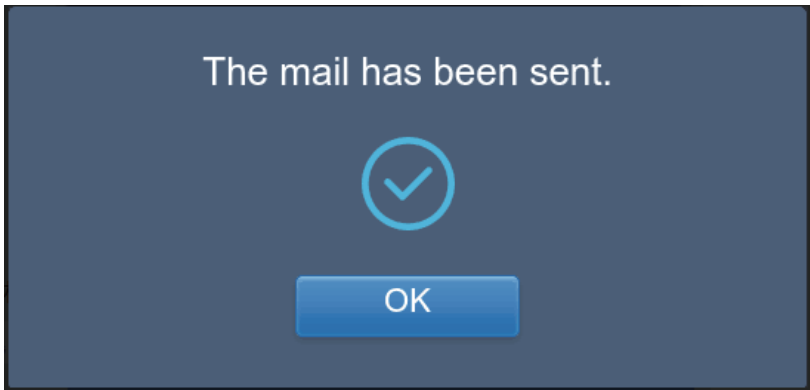


On the touch-screen, you can also use the configured mail address in the settings to export the report using mail and send the .csv file to the specified mailbox.

Tap mail export and you will be prompted to select the mail recipients. Once that is done, tap Send to send the mail.



If mail is sent successfully, you will receive the following prompt:



The recipients will receive the mail with the exported file as a mail attachment.

If the mailbox settings are wrong, the mail will not be sent successfully.

Note: Due to some mailbox server problems, the mail content may be compressed to a .bin file, and the attachment is not affected.

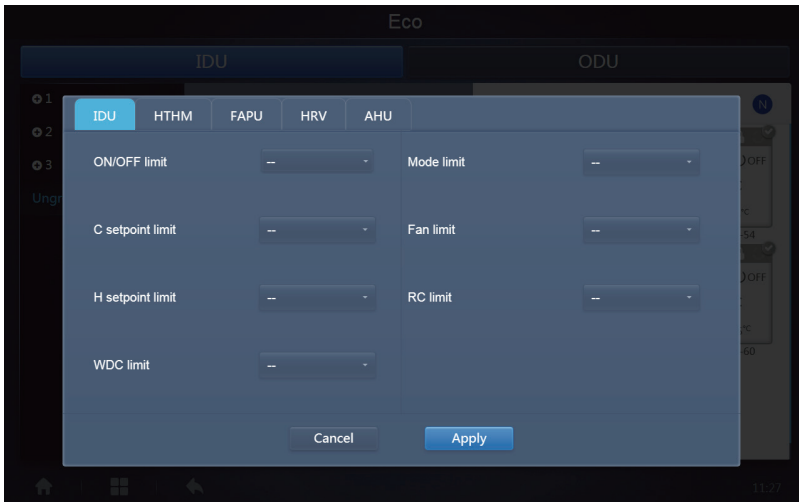
3.5 Eco



The ECO page has two parameters: IDU and ODU.

IDU:

The user groups are on the left, which is similar to the device monitor page, except that the control commands are different.



Certain indoor units may not support one or more locks described above.

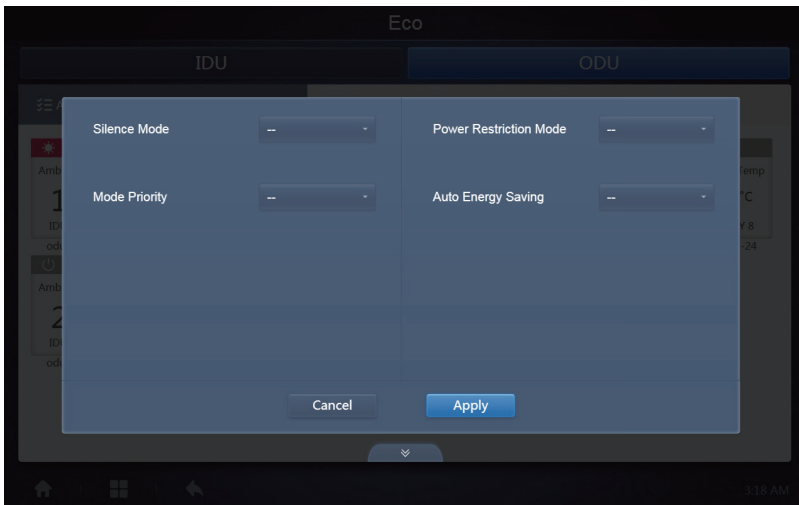
All parameters are "-" by default which means that no command is sent.

*Certain indoor unit models may not support all the lock functions mentioned above. Please consult the engineer on details regarding the different lock functions supported by different IDU models.

*Certain wired controllers may contain a "remote control/wired control, choose 1 of 2" function. This function is not related to the remote-lock in the KCCT-384B IPS(A)/(B), and they are independent.

ODU:

Outdoor unit page directly displays ODU objects.



Certain outdoor units may not support one or more lock commands described above.

The KCCT-384B IPS(A)/(B) can send any lock command to the outdoor unit. If the outdoor unit does not support the lock command, the outdoor unit will process the command based on its own logic. For details on the different lock functions supported by different outdoor units, refer to the function manual of the corresponding outdoor unit.

All parameters are "-" by default which means that no command is sent.

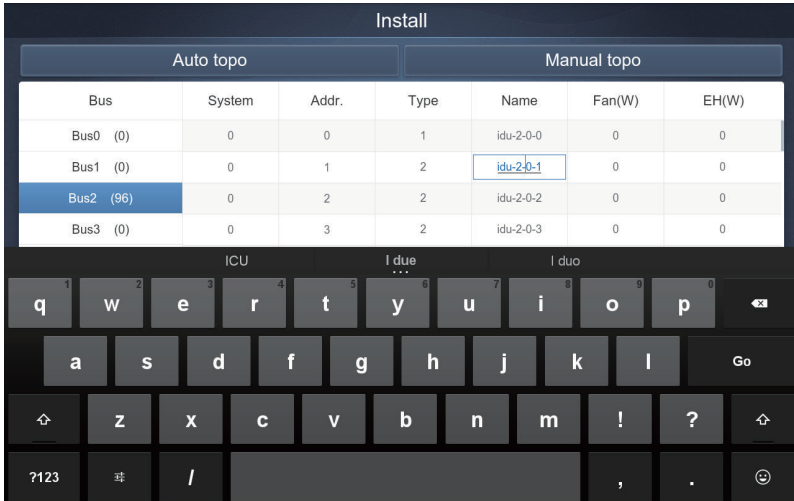
Definition	ODU Parameter	KCCT-384B IPS(A)/(B) Options
Silence Mode	0:Night silent time is 6h/10h (default)	8
	1:Night silent time is 6h/12h	9
	2:Night silent time is 8h/10h	10
	3:Night silent time is 8h/12h	11
	4:No silent mode	0
	5:Silent mode 1(only limit max. fan speed)	1
	6:Silent mode 2(only limit max. fan speed)	2
	7:Silent mode 3(only limit max. fan speed)	3
	8:Super silent mode 1(limit max. fan speedand compressor frequency)	4
	9:Super silent mode 2(limit max. fan speedand compressor frequency)	5
	A:Super silent mode 3(limit max. fan speedand compressor frequency)	6
	B:Super silent mode 4(limit max. fan speed and compressor frequency)	7
	F:Set silent mode via centralized controller (To use the software settings, the corresponding function dial code must be configured in the outdoor units)	
Mode Priority	000:Auto priority (default)	Auto Priority
	001:Cooling priority	Cool Priority
	010:VIPpriority or voting priority	VIP
	011:Heating only	Heat Only
	100:Cooling only	Cool Only
	111: Set priority mode via centralized controller(To use the software settings, the corresponding function dial code must be configured in the outdoor units)	- (Message is 15. This parameter is not modified)
Power Restriction Mode	n41: Power limitation mode 1(Only available for the master unit, 100% capacity output)	Speed 0
	n42: Power limitation mode2(Only available for the master unit, 90% capacity output)	Speed 1
	n43: Power limitation mode3(Only available for the master unit, 80% capacity output)	Speed 2
	n44: Power limitation mode4(Only available for the master unit, 70% capacity output)	Speed 3
	n45: Power limitation mode5(Only available for the master unit, 60% capacity output)	Speed 4
	n46: Power limitation mode6Only available for the master unit, 50% capacity output	Speed 5
	n47: Power limitation mode7(Only available for the master unit, 40% capacity output)	Speed 6
Auto Energy Saving	nb3::Exit auto power save mode	ON
	nb4:Enter auto power save mode	Off

3.6 Install

Under "Install", perform operations like device search, group edit, and name change when you use 10.1 for the first time.

3.6.1 Edit

Edit the name, model, fan power, auxiliary heating power (other parameters cannot be modified) of the indoor and outdoor units. Tap "Save" to save the edits.



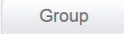
Note:

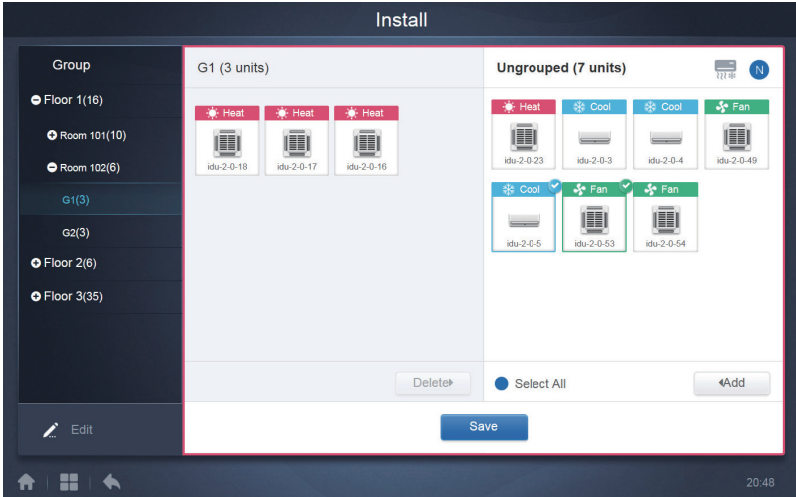
The acceptable range for the model is an integer from 0 to 12, and the model corresponds to the unit number in the device monitor.

The maximum values of the fan power and the auxiliary heating power must not exceed 65535, and must not be negative values.

The device name length cannot exceed 12 characters. Otherwise, you will receive a prompt that the name is ineligible. The device name cannot be duplicated.

3.6.2 Group

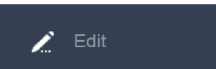
Tap  at the lower-left corner to go to the group editor from the installation page.



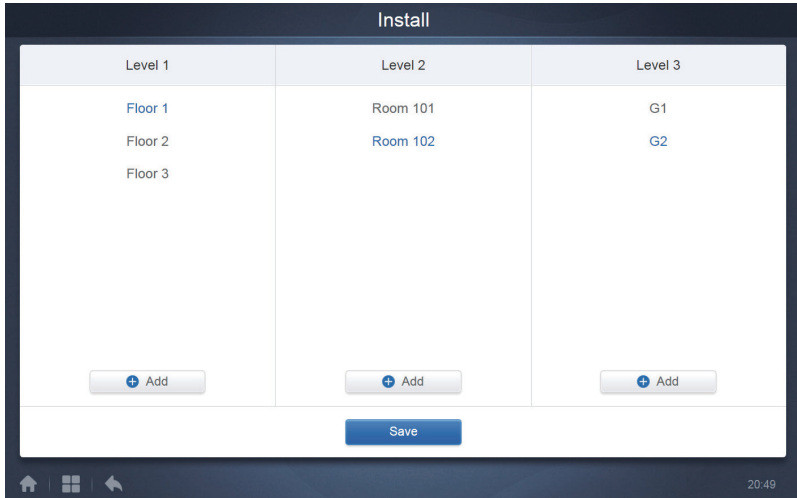
Group creation is on the left.

When a group is selected, the group and the indoor units in that group are shown in the middle. Indoor units that have not been grouped are shown on the left.

3.6.2.1 Create, Edit, and Delete Group


Tap  at the lower-left corner to go to the pages to create, edit and delete group.

The KCCT-384B IPS(A)/(B) supports three group levels.



Tap the back key at lower-left corner to return to the group page.

Create Group

Tap  and you will get a text box for you to edit the group at the corresponding level, and the mouse is active.

Enter the name. Tap the CR ("Go") key on the keyboard, or tap in the blank space to exit the editor. Groups at the same level cannot have the same names. A group name may include up to 12 characters. You will receive a prompt during "Save" if the name exceeds 12 characters.

Edit, Delete Group

When a group is selected, you will see the edit and delete function keys for the selected group.



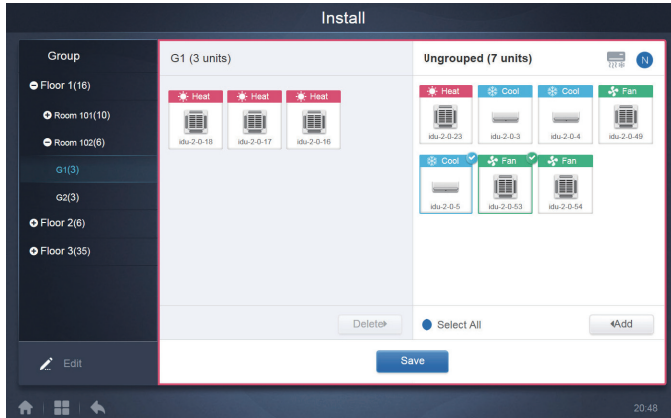
Tap the edit icon to go to the group name editor


Tap "Delete" to delete the group.

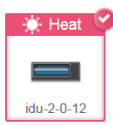
Note: Make sure you tap "Save" at the bottom of the page to save all create and edit operations. Otherwise, the changes will be discarded.

Add indoor unit to group

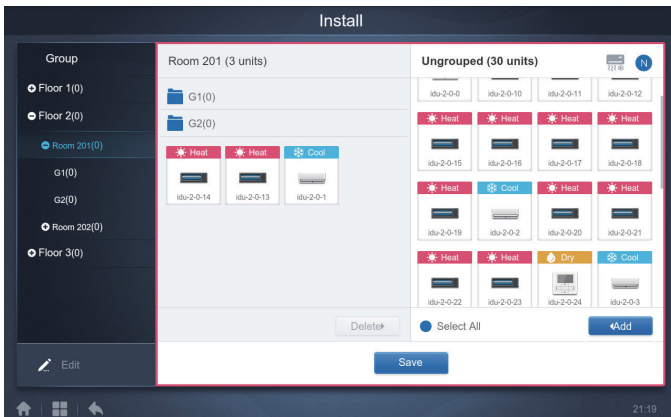
In the group page, you can add and delete the indoor units in the group.

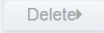



Select the indoor unit you need to operate from the group list on the left. Tap  to add the indoor unit to the corresponding group.



If the selected group has subgroups, they are displayed as follows:



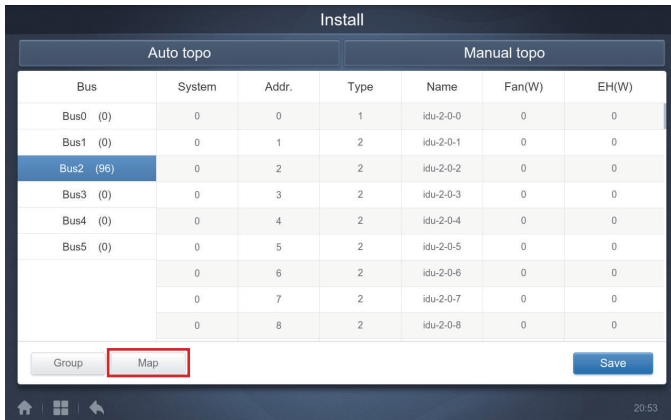
In the middle area, select the indoor unit to be deleted, tap  to remove the indoor unit from the corresponding group.

Note: Once the edits to the indoor units in the group have been completed, tap  (at the bottom of page) to save the changes. If the changes have not been saved and you directly switch to other groups, you will receive the following prompt, "Changes have not been saved. Save the changes?"

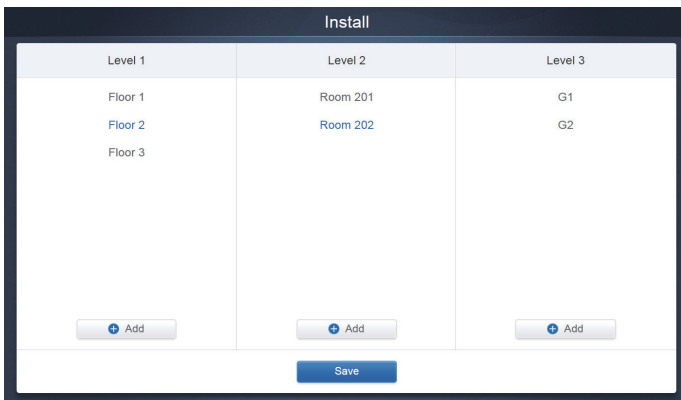
3.6.3 Edit Map

This function is invalid for the web page.

Once you are in the installation module, tap "Map" to enter the map editor to edit the map and the devices in it.



You will be taken to the group editor of the map when you enter the map editor for the first time to add groups to the map navigation function (Note: This group is independent of the group in the control function).



The method to add groups in this page is similar to that in section 3.6.2.1. For details, refer to 3.6.2.1. Once the edits are completed, tap **Save** to go to the map editor to edit the map, as well as to add and position the indoor units.

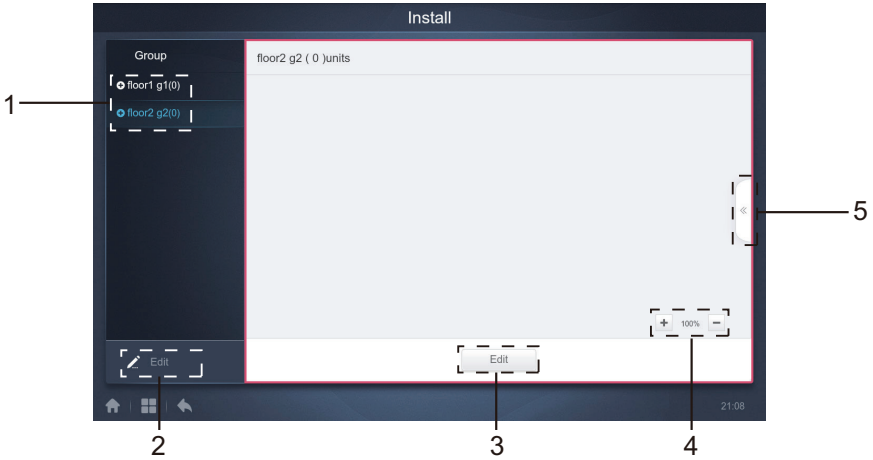


Figure 2.1

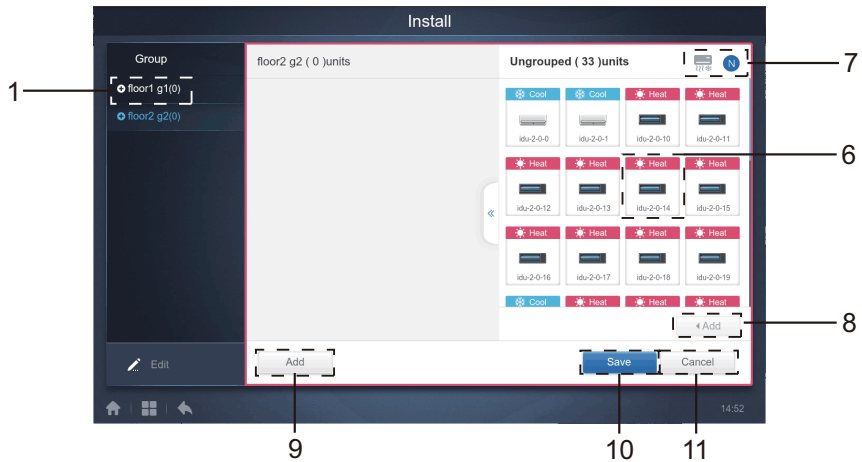




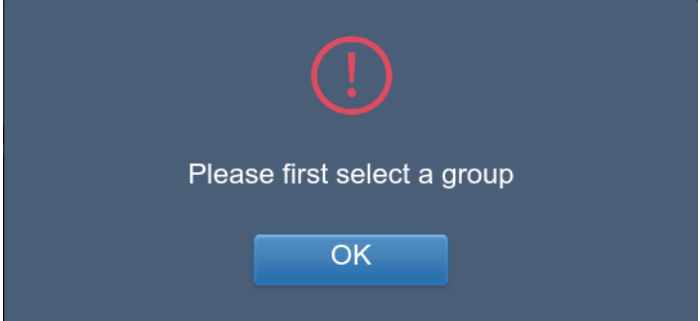
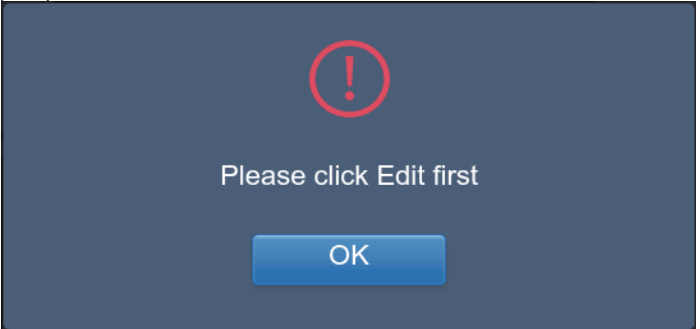


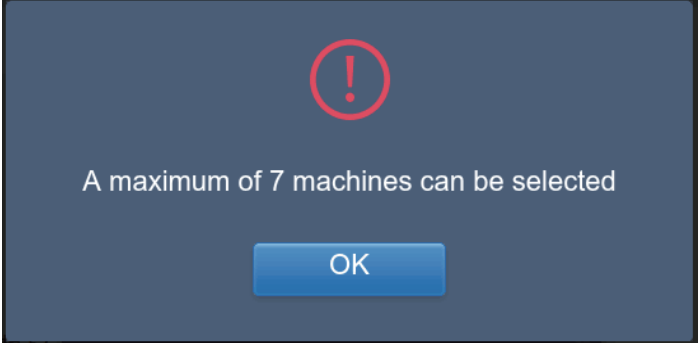
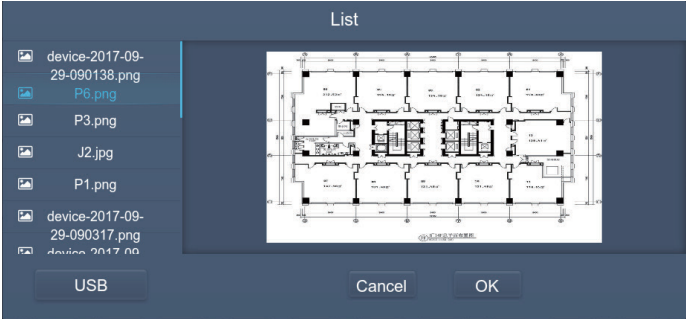
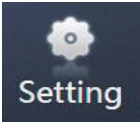


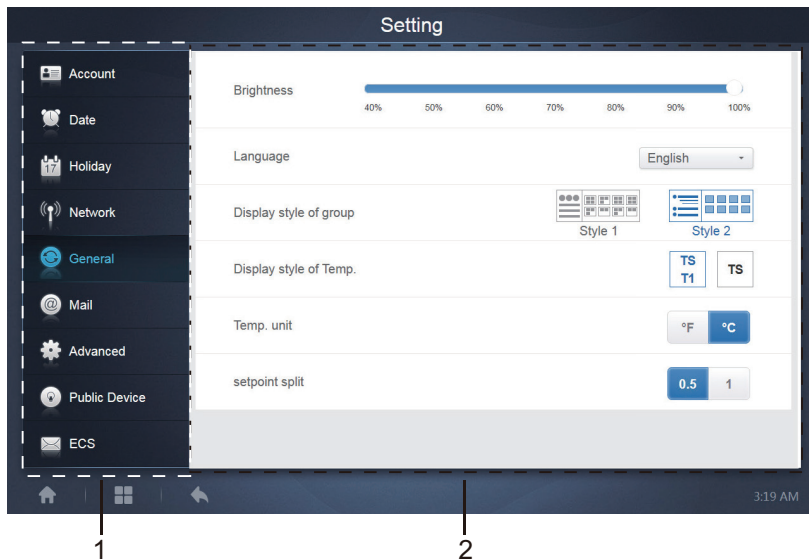
Figure 2.2

No.	Function Explanation
1	Group selection area. Tap "Edit" to edit the map in the selected group. Groups with subgroups are marked with an icon on the left of the group,  if the group has not been expanded, and  if the group has been expanded. Tap the icons to switch the status. Expand the tree structure to see the subgroups (branches).
2	Tap to go to the functions to add, delete, and edit group.
3	Tap to go to the edit function to add or move the devices, as well as add or change the map (floor plan). The edit page is shown in Figure 2.2.
4	Tap  to zoom into the map. Tap  to zoom out of the map. Zoom range is 75%-150%.
5	In the Edit mode, tap 5 to activate the Add panel, as shown in Figure 2.2. If you tap "Edit" before selecting any groups, the following error message is prompted:
	 <p data-bbox="268 869 968 917">If you tap 5 before entering the Edit mode, the following error message is prompted:</p> 

6	Shows devices that are not in the map. Default is to sort by name. Use 7 to switch to sort by mode. Tap to select the device. Tap again to deselect the device. Add up to seven devices each time.
7	The blue icon is the sort logic in the active status,  is to sort by mode,  is to sort by name.
8	Add the selected device. If you select more than seven devices, you will receive the following error prompt: 
9	Tap 9 when the Add panel is not activated to view a list of maps. System will search and display all .jpg and .png images that are less than 1MB in the root directory of the USB device.
	
10	Save all operations.
11	Cancel to exit the page.

3.7 Setting

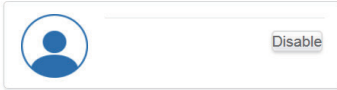
Tap  on the Home Page to go to the Settings page. Default is the General module.



No.	Functions
1	List of available functions in the settings page. Tap to jump to the corresponding tab.
2	Shows details of the different tabs.

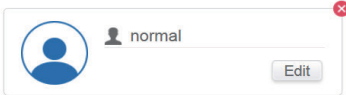
3.7.1 Account

Anonymity



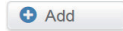
The interface shows a blue person icon on the left. To its right is a text input field that is currently empty. Further right is a button labeled "Disable".

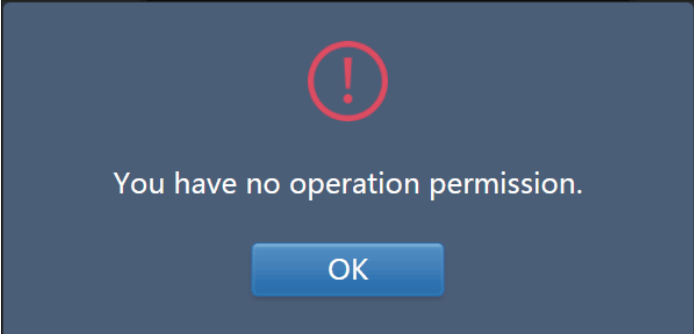
Normal

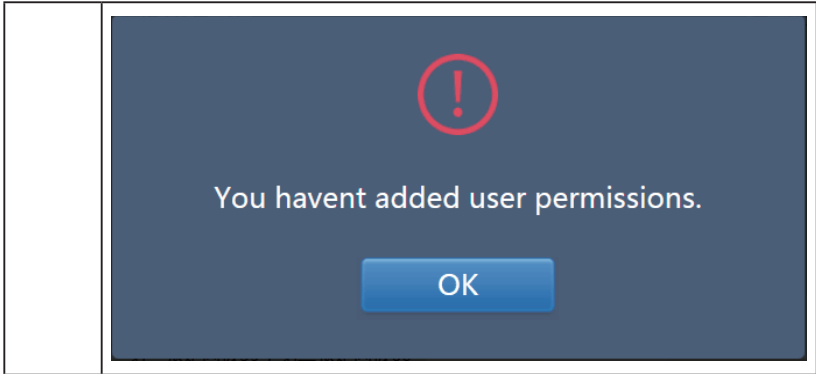


The interface shows a blue person icon on the left. To its right is a text input field containing the text "normal". Further right is a button labeled "Edit". A small red "x" icon is located in the top right corner of the form.

Normal user page

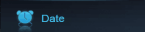
 + Add

No.	Functions
1	<p>View the status of the guest account. If the permissions have not been modified, tap to see</p>  <p>The dialog box has a dark blue background. At the top center is a red circle containing a white exclamation mark. Below this, the text "You have no operation permission." is displayed in white. At the bottom center is a blue button with the text "OK" in white.</p>
2	<p>Only display your own account information. You cannot delete your own account. You can only change the password. Operations to change password are similar to that for the administrator.</p>
3	<p>Tap when no operation permission has been set to see</p>



Default is maximum 15 characters for account name and password.
 Default account is "normal", password "123456";

3.7.2 Date

Tap the list to go to  tab to set the date and time as shown in Figure 3.7.2.1. Default is the No Edit page. View the current date and time. Use "◀" and "▶" or any grey numbers that do not belong to this month to jump to another month. Tap to check the blue icon on the left of "Modify date and time" to enter the Edit mode as shown in Figure 3.7.2.2.

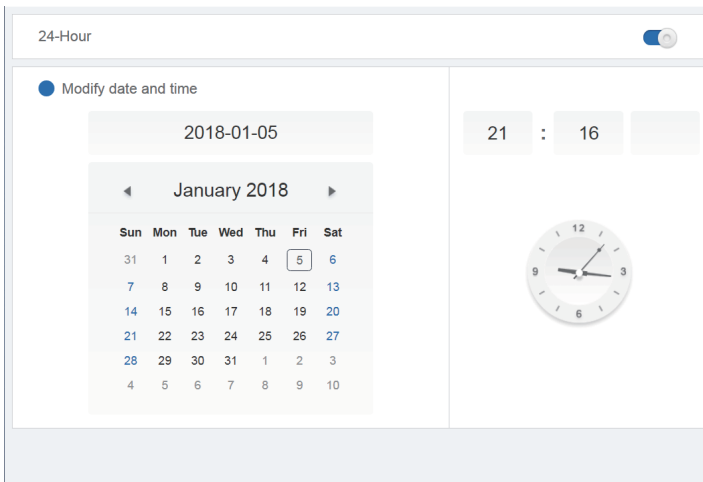


Figure 3.7.2.1 No Edit mode

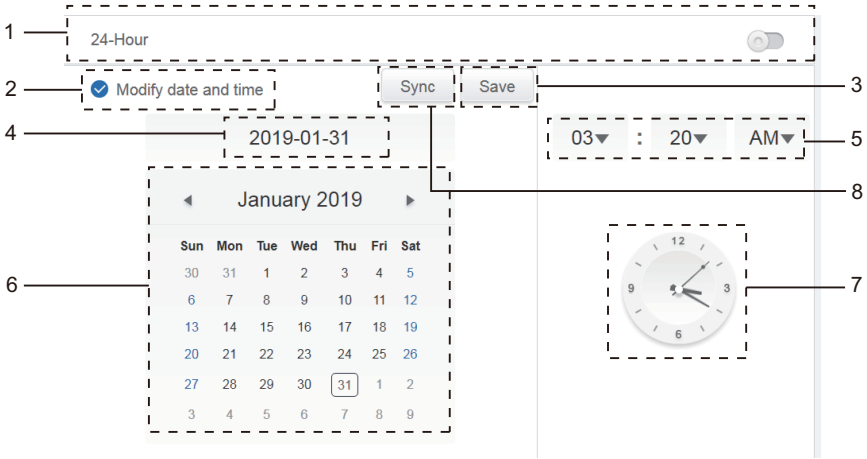


Figure 3.7.2.2 Edit mode

No.	Functions
1	Use to switch between 24-hour and 12-hour clock system. You can adjust the system timing system in both Edit and No Edit modes. When the slider is white and inactive, slide to the left, and the slider becomes blue and active, and the system switches to the 24-hour clock system. When the slider is active, slide to the right and the slider is now inactive, and system switches to a 12-hour clock system.
2	Tap the blue icon on the left side of "Modify date and time". Once this icon is checked, Edit mode is on. Tap again to uncheck the icon to exit the Edit mode, and all changes will be discarded.
3	Appears only when Edit is on to save the changes to the date and time. Tap to save the result and exit the Edit mode.
4	Displays the current system date when Edit is off. Displays the date selected when Edit is on.
5	Displays the current system time in the No Edit mode. Tap "▼" when Edit is on to activate the number selection list to adjust the time. Scroll the list to select the desired time, and close the list.
6	Displays dates in a calendar format with a solid box to frame today's date. Tap the grey numbers or "◀" and "▶" to change the month. When Edit is off, you can only view the calendar. When Edit is on, tap on any date to select and modify the date. Selected dates have a blue background.
7	Displays the current time in the form of a clock. Clock stops when Edit is on. Automatically skip to the modified time once the modified time is saved.
8	Sync (this function is available only on the WEB interface): Tap this button to synchronize the time with that of the connected PC (or an equivalent terminal).

Note: When KCCT-384B IPS(A)/(B) is powered off and powered on again, the time of KCCT-384B IPS(A)/(B) needs to be calibrated first.

3.7.3 Holiday Settings

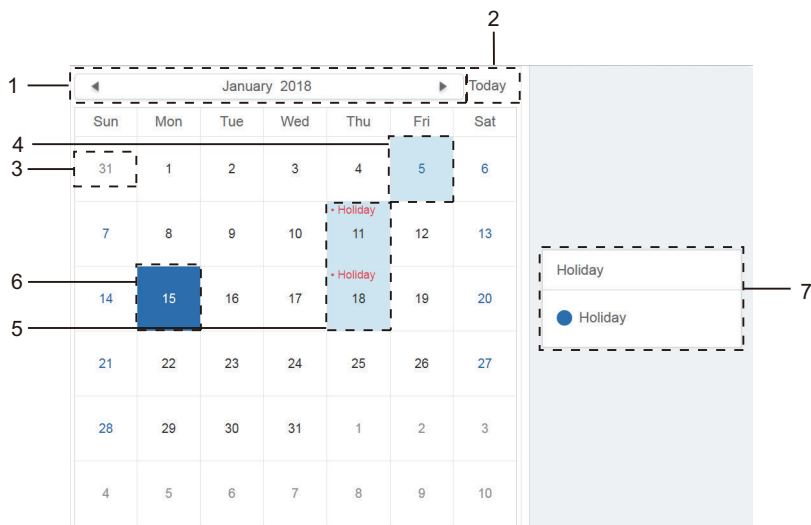


Figure 3.7.3.1

No.	Functions
1	Displays current year and month. Tap "◀" and "▶" to change the month.
2	Shortcut to return to the current system date. Tap to activate it immediately.
3	Dates in grey do not belong to the current displayed month. Tap to jump to the date that the grey number belongs to and select the date.
4	Light blue background colour and blue font for today's date.
5	Dates with light blue background and red text are marked as holidays.
6	Selected date has a dark blue background. Tap the dates in black or blue font to select the date.
7	Non-holidays are marked with ●. Holidays are marked with ●. Select the corresponding date to view its status. Tap the blue icon to switch the status.

3.7.4 Network Settings

(Wireless network settings are invalid for the web page.)

Wi-Fi

Wifi Name

IP

Netmask

Gateway

DNS1

DNS2

Local

Static IP

IP 192.168.100.40

Netmask 255.255.255.0

Gateway 192.168.100.1

DNS1 192.168.100.1

DNS2 192.168.100.1

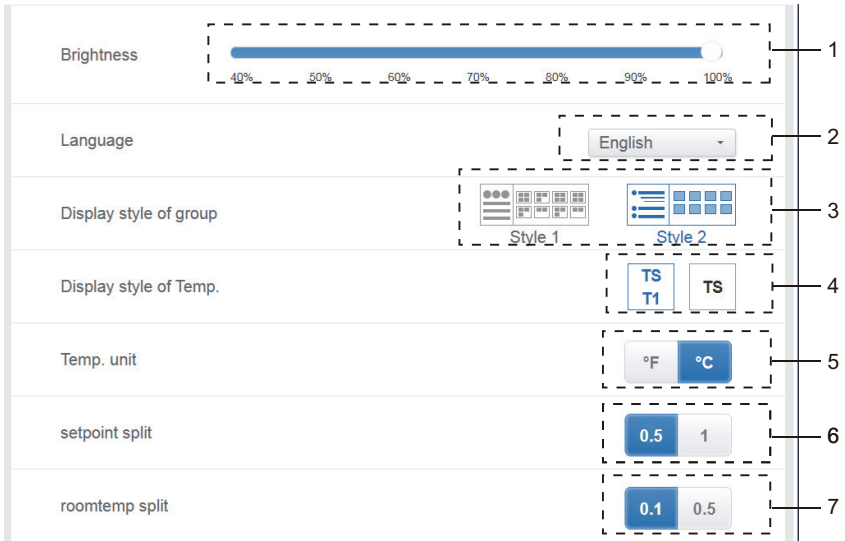
Save

No.	Functions
1	Wireless Network Select wireless network
2	Tap to display the Wi-Fi configuration interface: The available Wi-Fi list is displayed. Tap "Connect" to start connecting to Wi-Fi; tap "Cancel" to cancel this change. Note: The configuration button is displayed only when Wireless Network is selected.
3	Display the name of the Wi-Fi connection and the obtained IP address, etc. If there is no connection, the Wi-Fi and IP address are displayed as null.
4	Local Network (wired network) This option is selected by default.


5	<p>The default IP address is displayed in the above figure: IP: 192.168.100.40 Subnet mask: 255.255.255.0 Default gateway: 192.168.100.1</p> <p>DNS Server Preferred server: 192.168.100.1 Standby server: 192.168.100.1</p>
6	<p>After the local network is selected, you can modify the information such as the IP address (5 in the red box). After modifying, tap "Save" to apply the new configuration. Note: The Save button is displayed only when the local network is selected.</p>

3.7.5 General Settings

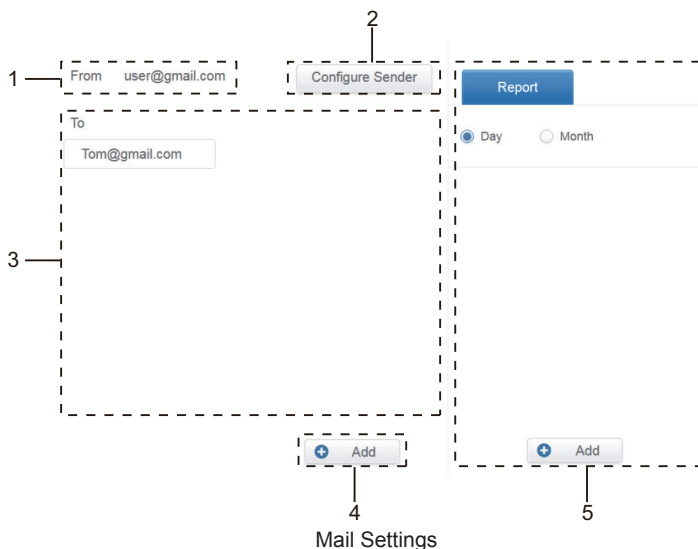
(Adjustment to screen brightness is only for the touch screen)




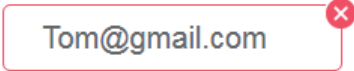

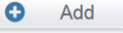
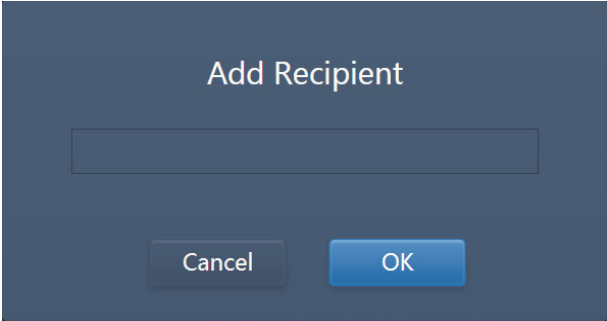
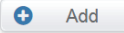
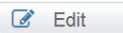
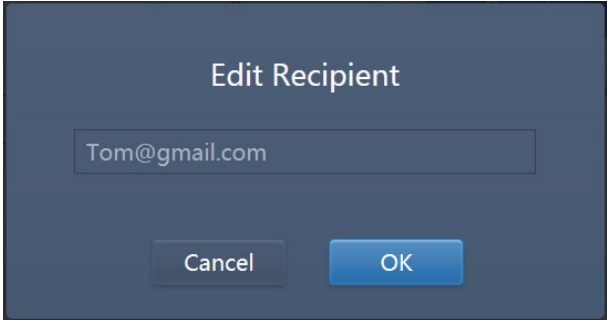
General Settings

No.	Functions
1	Adjusts the display brightness. Tap  to adjust. Slide left to reduce the brightness, and right to increase the brightness.
2	Changes the display language. Tap to activate the drop-down box, and tap to select the desired language.
3	Adjusts the group's display mode. Selected mode is highlighted in blue. Tap the grey icon to activate its mode. The two modes are mutually exclusive. The function targets the Group Navigation at the Device Monitor and Installation. Image on the right is related to the display of indoor units in the subgroups. Expand to display the indoor units in the subgroups on the right. Otherwise, the indoor units in the subgroups are merged into the subgroup folder and only the number of indoor units is displayed.
4	If the indoor ambient temperature for T1 is displayed. Left is Display, right is No Display. Selected mode is highlighted in blue. Tap the grey icon to activate its mode. The two modes are mutually exclusive.
5	Unit of temperature. Selected mode is highlighted in blue. Tap the grey icon to activate its mode. The two modes are mutually exclusive.
6	Set temperature, which is associated with option 5 Select °F. The set temperature interval can only be 1, which cannot be modified. Select °C. The set temperature interval can be 0.5 or 1, which are mutually exclusive.
7	Room temperature 0.1, 0.5. Only displayed under admin account and factory account. This option is not available for normal accounts. Related to the ambient temperature analysis, see the corresponding ambient temperature analysis instructions in detail.

3.7.6 Mail Settings (Invalid for Pure Gateway Web End)



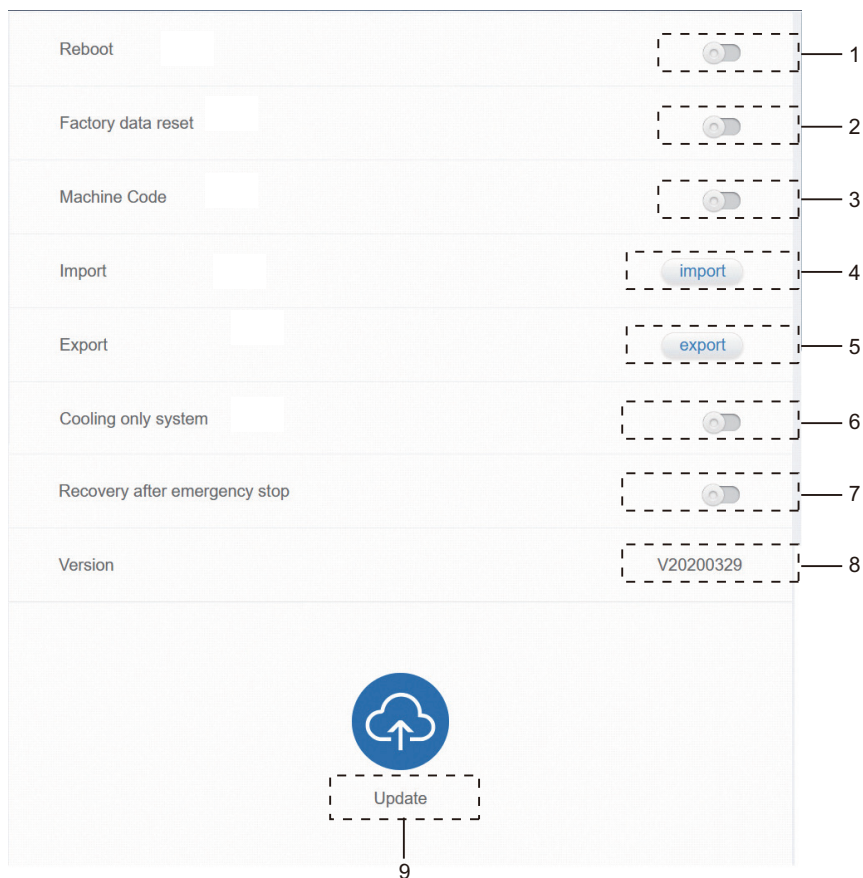
No.	Functions
1	Displays the configuration of the current sender
2	<p>Tap to configure and edit the sender</p> <div data-bbox="273 268 844 944" style="border: 1px solid black; padding: 10px; background-color: #2c3e50; color: white;"> <h3 style="text-align: center;">Configure Sender</h3> <p>Email subject: <input style="width: 100%; background-color: #34495e; color: white;" type="text" value="Report"/></p> <p>Sending server: <input style="width: 150px; background-color: #34495e; color: white;" type="text" value="mail.gmail.com"/> Port: <input style="width: 50px; background-color: #34495e; color: white;" type="text" value="94"/> Protocol: <input style="width: 50px; background-color: #34495e; color: white;" type="text" value="ssl"/> ▼</p> <hr/> <p>Sender address: <input style="width: 100%; background-color: #34495e; color: white;" type="text" value="user1@gmail.com"/></p> <p>Password: <input style="width: 100%; background-color: #34495e; color: white;" type="password" value="....."/> <input style="width: 20px; height: 20px; background-color: #34495e; color: white; border: 1px solid #34495e;" type="checkbox"/></p> <p style="text-align: center;"> <input style="width: 80px; height: 30px; background-color: #34495e; color: white; border: 1px solid #34495e;" type="button" value="Cancel"/> <input style="width: 80px; height: 30px; background-color: #2980b9; color: white; border: 1px solid #2980b9;" type="button" value="OK"/> </p> </div> <p>Note: The software will restart automatically after the sender is configured.</p> <div data-bbox="275 1002 880 1254" style="border: 2px solid black; padding: 10px; background-color: #2c3e50; color: white; text-align: center;">  <p style="font-size: 1.2em; margin-top: 10px;">Configuration information is successful and the controller will restart.</p> </div>

3	<p>Displays information about the recipient. Tap to select the recipient.</p>  <p>Select a recipient and tap  in the upper right corner to delete this user.</p>
4	<p>Tap  to add a recipient.</p>  <p>Select an added recipient. The  button changes to . Tap it to edit the recipient.</p>  <p>Fill in the corresponding details. Tap "OK" to save and exit. Tap "Cancel" to cancel all operations and exit.</p>
5	Reserved function

Note: The login name of the mailbox must be the same as the mailbox account; otherwise the mail function cannot work normally.

3.7.7 Advanced Settings

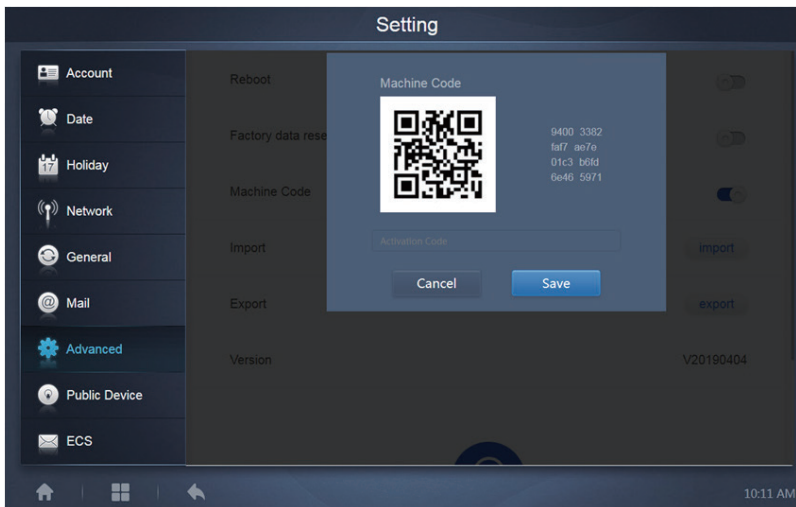
(version upgrade is only for the touch screen terminal)



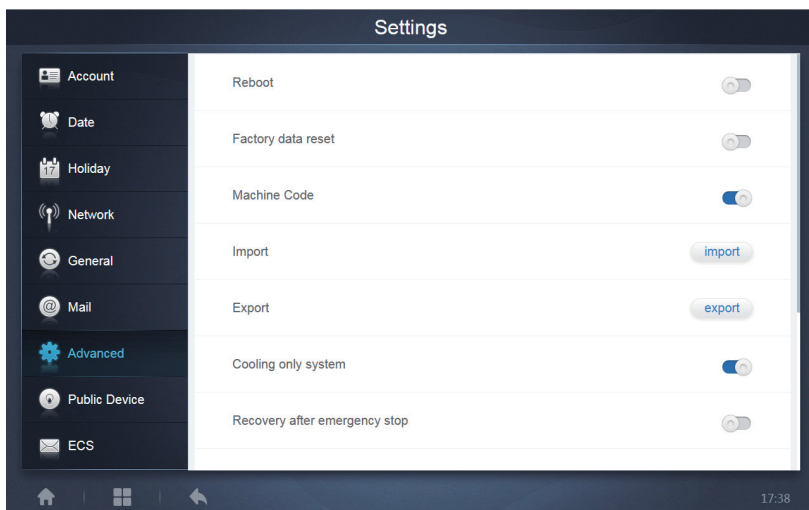
Advanced Settings

No.	Functions
1	Tap the slider to activate the dialog box. Tap "OK" to reboot the device. Tap "Cancel" to cancel all operations and exit.
2	Tap the slider to activate the dialog box. Tap "OK" to restore the device to factory settings (clear topology information, schedules, history, operating duration, running records, energy statistics, settings). Tap "Cancel" to cancel all operations and exit.
3	Indicates whether the power division function is enabled.
4	Import the device information, group information, and schedule information. Work together with the export function to quickly restore the controller operating status when the controller is replaced
5	Export the device information, group information, and schedule information. Works in coordination with the import function to quickly restore the controller operating status when the controller is replaced
6	Cooling only system: If a cooling only system is connected, click the slider to activate this item.
7	<p>Recovery after emergency stop: When this function is enabled, if the emergency stop is released, the touch screen centralized controller restores devices to the states that they were in before the emergency stop was engaged. (The touch screen centralized controller only restores the operating states of devices that are in the startup state at the time the emergency stop was triggered.)</p> <p>When this function is disabled, if the emergency stop is released, the touch screen centralized controller will not send a startup command.</p> <p>Note: This function restores only the operating mode and set temperature of started devices. After restoration, the fan speed and angle may be different from those at the moment when the emergency stop occurred.</p>
8	Displays the current version of the software.
9	<p>Tap the blue icon. The controller will automatically search for the update file in the inserted USB root directory. Follow the prompts on the screen to complete the operation.</p> <p>Note: Never modify the update file (including the file name). Otherwise, the system may fail to work.</p>

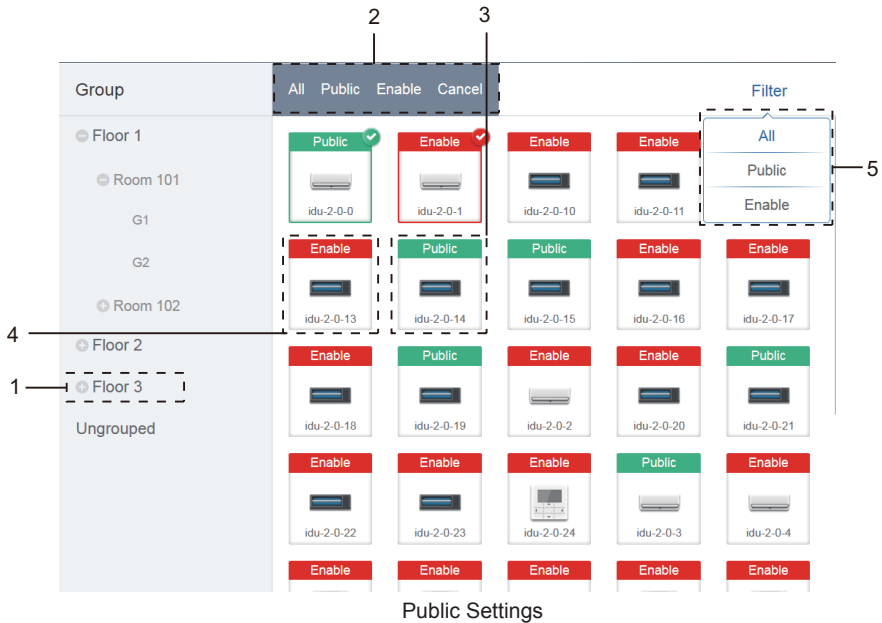
The power division function is activated. Tap it to display the machine code interface:





The activation status is as follows:



3.7.8 Public Device



No.	Functions
1	Displays the group option. All the devices in the groups (including subgroups) are displayed on the right, and the groups are arranged based on the time of creation.
2	Changes the properties of the selected devices. Public refers to public devices. Enabled refers to devices that have been enabled. Tap to select all the devices that can be selected. Tap "Cancel" to unselect all.
3	Method to display public devices.
4	Displays enabled devices. Selected device is marked by an icon at the top right corner.  indicates enabled devices that are selected.  indicates public devices that are selected.
5	Filters the devices in the group. Tap "All" to display all devices. Tap "Public" to display the public devices. Tap "Enable" to display all the enabled devices.

Note:

- For those marked as Public devices, its power will shared to all enabled devices during power allocation.
- Power from public devices is shared equally to other devices where fees are being charged. It does not distinguish the time settings. Once it is set as a public device, all queries will see that device as a public devices (power allocation is only effective during the query, the database records the original file, and the calculation is performed only during the query).
- Devices in the wired controller group do not support this function.

3.7.9 ECS

Price	<input type="text" value="1.0"/>	FTP	<input type="text" value="0"/>	version	<input type="text" value="Dec-26-2017"/>
Standby power division type:					
<input checked="" type="radio"/> The refrigerant system IDU undertakes the standby power of the corresponding refrigerant system.					
<input type="radio"/> The standby power of all the refrigerant systems is divided equally among all the IDUs.					
<input checked="" type="radio"/> Whether to estimate the power consumption of IDU					
Report output format:					
<input checked="" type="radio"/> Display the operating power and standby power in separate columns					
<input type="radio"/> Only display the total power (operating power and standby power)					

Energy Settings

4. APPENDIX

4.1 Table of Error Codes

This manual is intended for reference only, refer to the error shown on the actual device for troubleshooting.

Please consult the engineer to check if the error code of the specific model belongs to a "new generation of refrigerant system".

Table of Error Codes for Amazon V DN5S/Amazon unitario DN4S Outdoor Unit:

Error code ¹	Content
E0	Communication error between outdoor units
E1	Phase sequence error
E2	Communication error between indoor and master unit
E4	Outdoor heat exchanger temperature sensor (T3) error or outdoor ambient temperature sensor (T4) error
E5	Abnormal power supply voltage
E7	Compressor top or discharge pipe temperature sensor (T7C1/2) error
E8	Outdoor unit address error
xE9	EEPROM mismatch
xF1	DC bus voltage error
F3	Plate heat exchanger cooling refrigerant outlet temperature sensor (T6B) error
F5	Plate heat exchanger cooling refrigerant inlet temperature sensor (T6A) error
F6	Electronic expansion valve connection error
xH0	Communication error between main control chip and inverter driver chip
H2	Number of slave units detected by master unit has decreased
H3	Number of slave units detected by master unit has increased
xH4	Inverter module protection
H5	P2 protection appears three times in 60 minutes
H6	P4 protection appears three times in 100 minutes

Error code ¹	Content
H7	Number of indoor units detected by master unit not same as number set on main PCB
H8	High pressure sensor error
H9	P9 protection appears ten times in 120 minutes
yHd	Slave unit malfunction
C7	PL protection appears three times in 100 minutes
P1	Discharge pipe high pressure protection
P2	Suction pipe low pressure protection
xP3	Compressor current protection
P4	Discharge temperature protection
P5	Outdoor heat exchanger temperature protection
P9	Fan module protection
Error code ¹	Content
PL	Inverter module temperature protection
PP	Compressor discharge insufficient superheat protection
xL0	Inverter module protection
xL1	DC bus low voltage protection
xL2	DC bus high voltage protection
xL4	MCE error
xL5	Zero speed protection
xL7	Phase sequence error
xL8	Compressor frequency variation greater than 15Hz within one second protection
xL9	Actual compressor frequency differs from target frequency by more than 15Hz protection

Notes:

- 'x' is a placeholder for the compressor system (compressor and related electrical components), with 1 representing compressor system A and 2 representing compressor system B. 'y' is a placeholder for the address (1 or 2) of the slave unit with the error.
- For some error codes, a manual restart is required before the system can resume operation.
- Once the EXV has been connected properly, the error code will flash to indicate that the connection has been re-established. A manual restart is then required before the system can resume operation.

Table of Error Codes for Indoor Units

Error code	Content
E0	Mode conflict
E1	Communication error between indoor and outdoor units
E2	Indoor ambient temperature sensor error
E3	Indoor heat exchanger mid-point temperature sensor error
E4	Indoor heat exchanger outlet temperature sensor error
E6	Fan error
E7	EEPROM mismatch
Ed	Outdoor unit error
EE	Water level error
FE	Indoor unit has not been assigned an address

4.2 Software Use Precautions

- a) If there are display errors on the web page such as header errors and wrong icon placements, use the browser's mandatory refresh function to refresh the page (such as "Shift+F5" for the Chrome browser).
- b) You can only enter English characters on the touch-screen. Use the Web page if you need to use other language and characters.

4.3 Wired Controller Group

For the new units, certain wired controllers support the access of multiple indoor units (IDU) where these IDUs will then form a "wired controller group". In KAYNET CONTROL PRO, these IDUs will be treated as a single virtual IDU, and in the icon view in "Device Monitor" the wired controller group of IDUs will have its own icon. The name of the wired controller group is the same as the name of the smallest IDU.

Note: Refer to the relevant manuals on wired controllers, and indoor units for specific information on how to set the address of the wires controller group.

	IDUs in wired controller group
"Device monitor" icon view	When one or more IDUs are offline in the wired controller group, the wired controller group icon will display an offline status. When there are errors in one or more IDUs in the wired controller group, the wired controller group icon will display an error status, and the error code will be the error code in the IDU with the smallest address. When the wired controller group is normal, the wired controller group icon will show the operating state of the smallest IDU.
"Device monitoring" list view	In a list view, each IDU in the group is displayed on a separate line, and you can view the details of each IDU in the group.
"Statistical data", "Energy statistics"	Each IDU in the group is displayed on a separate line, and you can view the statistics of each IDU in the group.
Send control command	The same commands are sent to the wired controllers in the group.

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16111500001050 V1.0



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