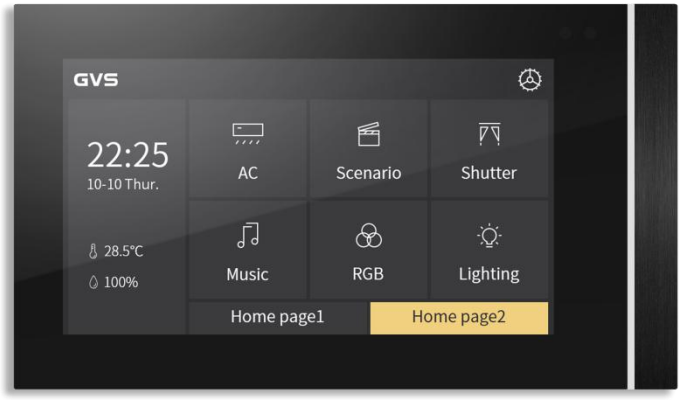
Appendix:

UI Description for KNX Smart Touch V50 (horizontal)



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Chapter 1 Introduction

This document is for the UI description of the KNX Smart Touch V50(horizontal). As an appendix of this product, it is necessary to understand the UI function by the relevant description in the manual of this product. For example, users need to configure specific parameters for the UI interface to be presented. Therefore, please refer carefully to the relevant documents and function description before using the product.

Chapter 2 UI Description

This chapter mainly introduces the interactive application of each function interface of this product in detail.

The main functions of UI are summarized as follows:

- Album and background can be replaced with customized pictures;
- Icons for home page and function page can be replaced with customized icons;
- Home page can display date and time, which can be modified manually on the screen;
- Home page can display temperature and humidity;
- Home page support 1/2/3/4/6 layout display, up to 2 home pages can be created;
- Multifunction page support 1/2/3/4/6 layout display, and support 2 UI styles with windows tile and list tile;
- Icon status of Multifunction page can be indicated by icons or block;
- Dimming and blind function pages are able to display status information in real time;
- Support to manually enable/disable weekly timer, and Weekly timer can be temporarily inactive through holiday setting;
- Support screen locking and function page locking, and display the locking status.
- Support screen-saver and password function;
- Proximity sense can be manually adjusted or off;
- Enable/disable vibration;
- Support manually adjusting screen brightness and touch volume;
- Support cleaning mode;
- System information of the device can be checked.

2.1 Home Page Navigation Interface

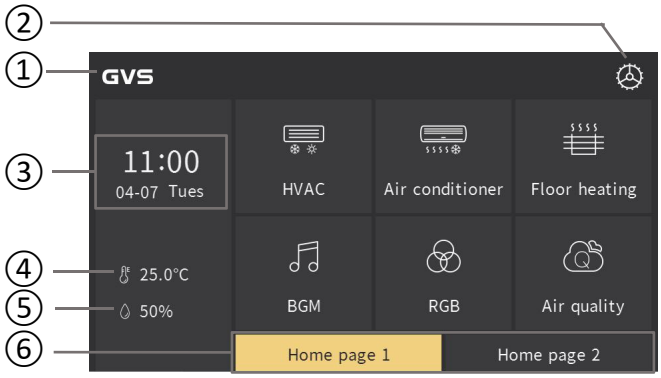


Fig.2.1

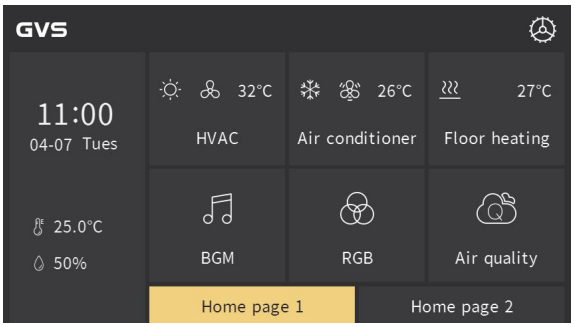


Fig.2.2



Fig.2.3

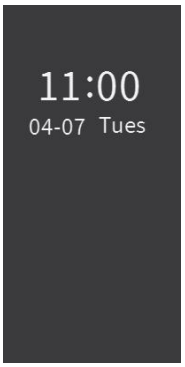


Fig.2.4



Fig.2.5

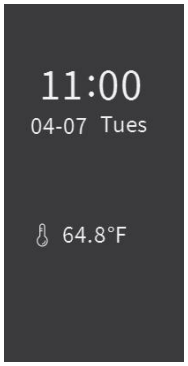


Fig.2.6

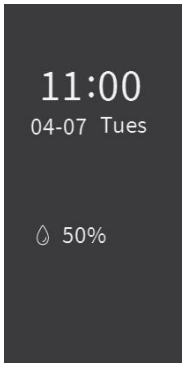


Fig.2.7



Fig.2.8

① This area displays the logo of GVS brand;

② This icon is the setting icon, enter the setting page, see section 2.11 for details by touching this icon;

③ This area displays the current date and time;

The date and time can be modified on the setting page or through the bus, see details in section 2.11.

④ When external temperature is configured, there is an "E" at the upper right corner of the icon; When internal temperature is configured, there is no "E" at the upper right corner of the icon, as shown in Fig.2.3;

When enable temperature display in the ETS but no temperature feedback is received, then no temperature display in the interface, as shown in Fig.2.4; when temperature feedback is faulted, the data bit is displayed as "---", as shown in Fig.2.5. When temperature unit is set to degrees Celsius (℃) through ETS, temperature display as shown in Fig.2.1. When temperature unit is set to Fahrenheit(℉), temperature display as shown in Fig.2.6. When disable temperature display in the ETS, there is no temperature display in the interface.

⑤ This area displays humidity, and the data is obtained from the external sensor;

When humidity from the external sensor feedback is received, humidity display in the interface as shown in Fig.2.7. When no humidity from the external sensor feedback is received, there is no humidity shown in the interface .

⑥ This area displays home page name, user can define the name by configuring the description in the ETS.

Home page navigation as shown in Fig.2.1, the number of home page navigation can be configured up to 2, to quickly jump to a function page or directly manipulate a function icon (switch, switch/dimming, blind, value send, scene).

If the association function of the shortcut, shown on the home page interface, link to a function page, its page icon can be configured in the ETS, and its description is the page description of the linked function page; where the HVAC, the air conditioner, the floor-heating default icon option is made up of individual sub-functional information (mode, fan speed, temperature setting, heating status), as shown in Fig.2.2; if the association function link to an icon function on a function page, the display effect is consistent with the icon configuration. If the linked page or icon does not exist, the corresponding location will be empty.

2.2 Multifunction Page

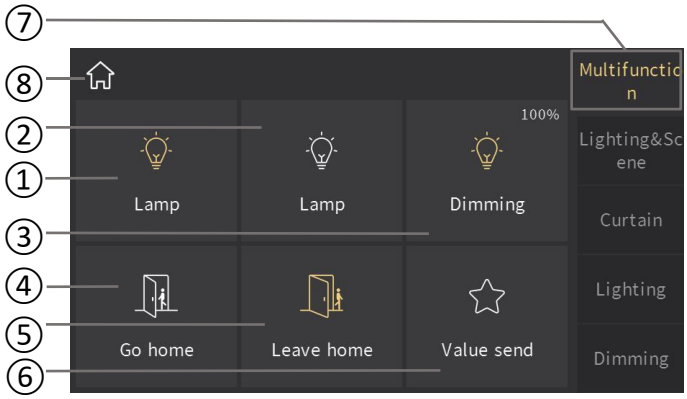


Fig.2.2.1

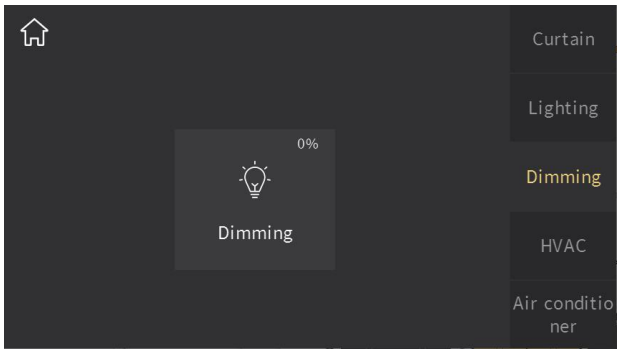


Fig.2.2.2



Fig.2.2.3

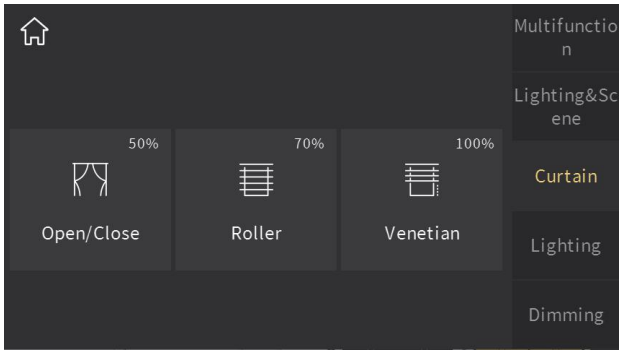


Fig.2.2.4

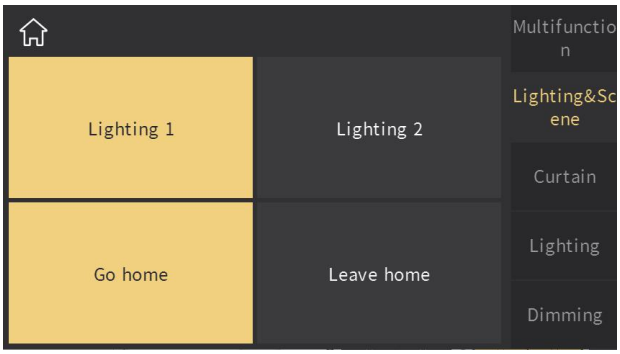


Fig.2.2.5

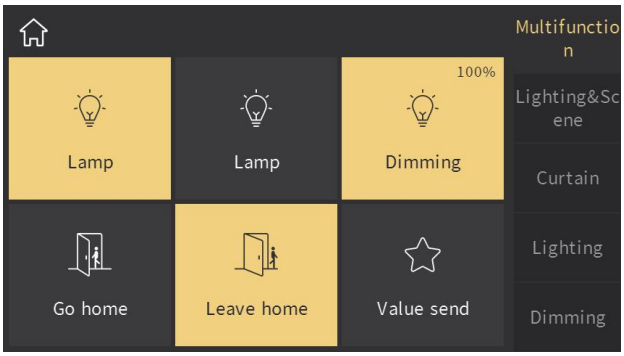


Fig.2.2.6

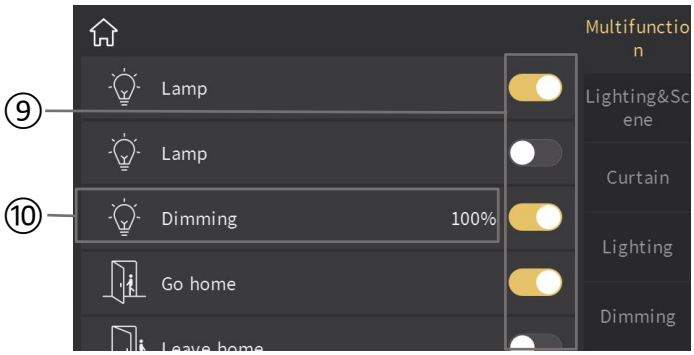


Fig.2.2.7



Fig.2.2.8

The interactive interface style of multifunction page is shown in Fig.2.2.1-Fig.2.2.8 above. The interface style, and the number of icons displayed, with a maximum of 6, can be set through parameters setting. The effects shown as Fig.2.2.2-Fig.2.2.6, the number of icons set to 1, 2, 3, 4, 6 respectively.

①~⑥：The serial number marked in Fig.2.2.1 above is consistent with the sequence number of the function icon in the ETS, that is, the placement principle of the function icon is from left to right and from top to bottom;

When multifunction icon is windows tile display, the function status is indicated by the icon in the block. For example, in Fig.2.2.1, the icon on indicates the lamp turn on and the icon off indicates the lamp turn off; in Fig.2.2.6, the icon block and icon on indicates the lamp turn on, and the icon block and icon off indicates the lamp turn off; in Fig.2.2.6, if the function is dimming, the upper right corner of the block displays the current brightness, which is from the output brightness feedback of the dimmer actuator. Except the light/off status display, the icon of value sending will shake when being manipulate and the icon of blind will show the position status; in Fig.2.2.5, the interface can set to display no icon but only text by parameter configuration, block on indicates the lamp turn on and block off indicates the lamp turn off.

⑦ This area is the page description identification of the multifunction page, user can define the description through ETS;

⑧ This icon is the main page icon, return to the home page by touching this icon;

When the multifunction icons are configured as list tile and display in the list, as shown in Fig.2.2.7：Up to 6 icons can be displayed in a page, slide down the page to view all.

⑨ The status of button icon indicate the corresponding function ;

⑩ Enter the control interface of the sub-function of dimming function by touching this tile;

⑪ The function of this area is value sending.

⑫ Enter the control interface of the sub-function of blind function by touching this tile;

The operation effects of the same icon for the following curtain function are the same and will not be described again.

Icons for different functions in list:

(1) For switch function, click the corresponding button icon in area⑨, the icon on indicates the lamp turn on

and the icon off indicates the lamp turn off;

(2) For switch/dimming function, click the corresponding button icon in area⑨, the icon on indicates the lamp to turn on and the icon off indicates the lamp to turn off, enter the dimming operation sub-interface by touching the tile, and the area next to the button shows the brightness feedback of the lamp;

(3) For value sending function, the icon wobbles according to when short pressing area⑪, and the icon shake horizontally when long pressing area⑪.

(4) For curtain function, click area⑫ to enter the control interface of the curtain function, and the area next to the button shows the position feedback of the curtain;

(5) For scene function, click the corresponding button icon in area⑨, the icon on indicates that the scene is successfully sent and called, the button status will be updated according to the scene currently called, the icon will shake when long pressing the button icon to saves the scene.

(6) When on the function page, by clicking the homepage icon⑧ in the upper right corner to return to the home page.

2.2.1 Switch Function



Fig.2.2.1.1



Fig.2.2.1.2

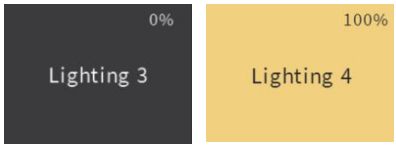


Fig.2.2.1.3

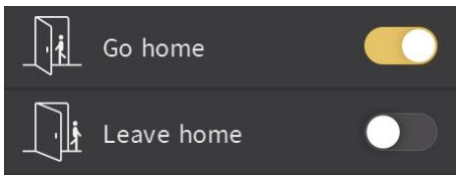


Fig.2.2.1.4

The status of the switch function in different UI styles is shown in the figure above.

(1) In Fig.2.2.1.1, the icon on (shown in the right figure) indicates the lamp to turn on and the icon off (shown in the left figure) indicates the lamp to turn off;

(2) In Fig. 2.2.1.2, the block and icon on (shown in the right figure) indicates the lamp to turn on, the block and icon off (shown in the left figure) indicates the lamp to turn off;

(3) In Fig. 2.2.1.3, the block on (shown in the right figure) indicates the lamp to turn on, and the block off (shown in the left figure) indicates the lamp to turn off;

(4) In Fig.2.2.1.4, the switch button icon on (shown in the right figure) indicates the lamp to turn on, and the switch button icon off (shown in the left figure) indicates the lamp to turn off. At the same time, it can be updated and displayed according to the switch status of the bus feedback.

2.2.2 Switching/Dimming Function

The status of switching/dimming function is similar to that of switch under different UI styles, as fig.2.2.1.1，Fig.2.2.1.2，Fig.2.2.1.3 and Fig.2.2.1.4 shown above, the difference is that the current brightness status is displayed at the same time on the icon, which needs to receive brightness feedback from the dimming actuator from the bus to be display accurately.

Enter the dimming function control interface as shown in Fig. 2.2.2.1 below.

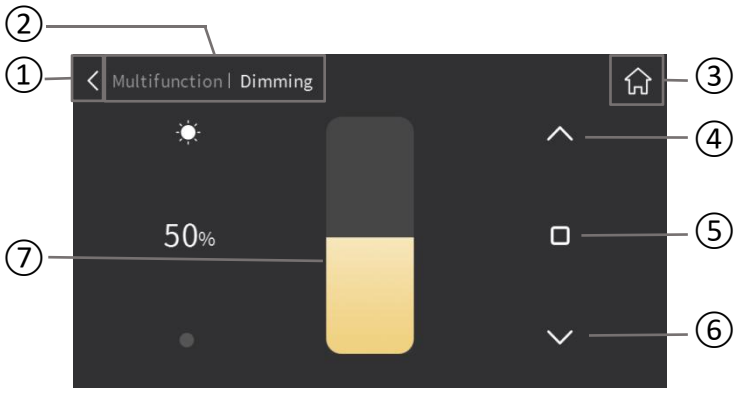


Fig.2.2.2.1

① Return to the previous level interface by touching this icon ;

② This area displays the identification of page description, format as: page description of previous level page | description of functional icon currently manipulated;

③ Return to the home page by touching this icon;

④ Adjust the brightness in the way of relative dimming by touching this icon, with the target brightness 100%;

⑤ Adjust the brightness in the way of relative dimming , and stop dimming by touching this icon;

⑥ Adjust the brightness in the way of relative dimming by touching this icon, with the target brightness 0%;

⑦ Adjust the brightness in the way of percentage by sliding this slider.

At the same time, the slider status can also be updated according to the brightness feedback received from the bus.

2.2.3 Value Send Function

By touching the icon, the device will send the corresponding telegram to the bus, and the icon will shake. If long operation is set, the long/ short operation of the icon will send the corresponding setting value.When in short press operation, the control telegram will be trigger when touch the icon, and if the long operation is enabled, only after the fixed time of the long operation (the default is 500ms) will the control telegram be triggered.

2.2.4 Blind Function

Blind function including 5 types: Open/Close Blind, Roller Blind (without slat), Venetian Blinds (with slat), Blind(open/close/stop) and Blind(up/down/stop). Besides, in the UI interface, the current position status of the curtain is displayed on the icons of all types of blinds, which needs to be accurately displayed based on the position of the blinds that is fed back from the curtain actuator received on the bus.

Open/Close Blind

This type is for Open/Close Blind controlling, supporting to adjust the position of blind by sliding the slider in the form of percentage as well as opening, closing and stop running by manipulating three controlling buttons. The control interface of Open/Close Blind function is shown in Fig.2.2.4.1 below.

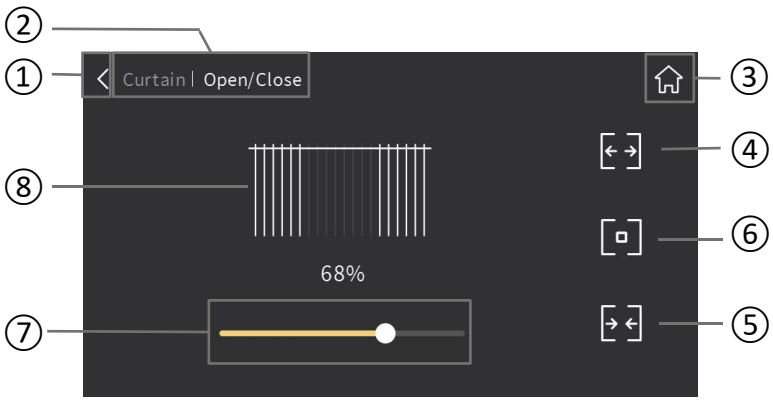


Fig.2.2.4.1

① Return to the previous level interface by touching this icon;

② This area displays the identification of the page description, format as: page description of previous level page | description of functional icon currently manipulated;

③ Return to the home page by touching this icon;

④ Open the blind by touching this icon;

⑤ Close the blind by touching this icon;

⑥ Stop running by touching this icon;

⑦ This icon is the slider icon, adjust the position of blind in the form of percentage by sliding this slider;

⑧ This icon displays the simulation of blind position.

By sliding the slider⑦ to adjust the position of blind in the form of percentage, during the sliding, icon⑧ will dynamically simulate the opening and closing behavior of curtains.

At the same time, the status of slider⑦ and icon⑧will also update according to the curtain position status feedback received from the bus.

Roller Blind (without slat)

This type is for Roller Blind(without slat) controlling, supporting to adjust the position of blinds by sliding the slider in the form of percentage as well as to opening, closing and stop running by manipulating three controlling buttons. The control interface of Roller Blind(without slat) function is shown in Fig. 2.2.4.2 below.

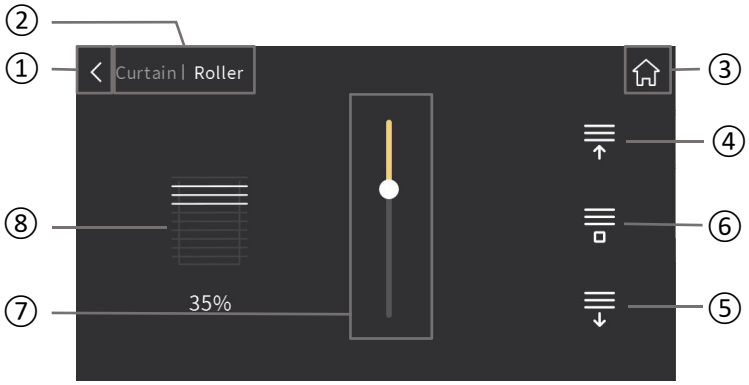


Fig.2.2.4.2

① Return to the previous level interface by touching this icon;

② This area displays the identification of the page description, format as: page description of previous level page | description of functional icon currently manipulated;

③ Return to the home page by touching this icon;

④ Run up the blind by touching this icon;

⑤ Run down the blind by touching this icon;

⑥ Stop running by touching this icon;

⑦ This icon is the slider icon, adjust the position of blind in the form of percentage by sliding this slider;

⑧ This icon displays the simulation of blind position.

By sliding the slider⑦ to adjust the position of blind in the form of percentage, during the sliding, icon⑧ will dynamically simulate the opening and closing behavior of curtains.

At the same time, the status of slider⑦ and icon⑧ will also be updated according to the curtain position status feedback received from the bus.

Venetian Blinds (with slat)

This type is for Venetian Blind(with slat) controlling, supporting to adjust the position of blind and angle of louver by sliding the slider in the form of percentage as well as to opening, closing and stop running by manipulating three controlling buttons. The control interface of Roller Blind(without slat) function is shown in Fig.2.2.4.3 below.

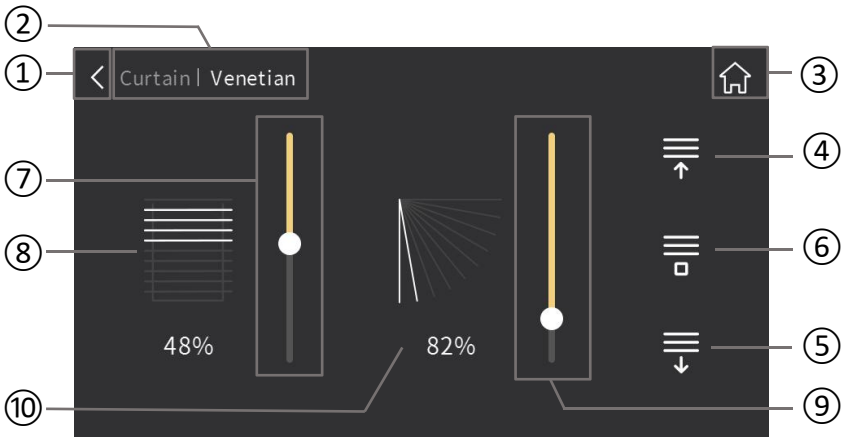


Fig.2.2.4.3

① Return to the previous level interface by touching this icon;

② This area displays the identification of the page description, format as: page description of previous level page | description of functional icon currently manipulated;

③ Return to the home page by touching this icon;

④ Run up the blind by touching this icon;

⑤ Run down the blind by touching this icon;

⑥ Stop running by touching this icon;

⑦ This icon is the slider icon of curtain position, adjust the position of blind in the form of percentage by sliding this slider;

⑧ This icon displays the simulation of blind position.

By sliding the slider⑦ to adjust the position of blind in the form of percentage, during the sliding, icon⑧ will dynamically simulate the opening and closing behavior of curtains.

⑨ This icon is the slider icon of louver angle,adjust the position of blind in the form of percentage by sliding this slider;

⑩ This icon displays the simulation of louver angle.

By sliding the slider⑨ to adjust the position of blind in the form of percentage, during the sliding, icon⑩ will dynamically simulate the changing behavior of louver angle.

At the same time, the status of slider⑦ and slider⑨, icon⑧ and icon⑩ will also be updated according to the curtain position status feedback received from the bus.

Blind (open/close/stop)

This type is for Open/Close Blind controlling, supports opening, closing and stop running by manipulating three controlling buttons. The control interface of Open/Close Blind function is shown in Fig.2.2.4.4 below.

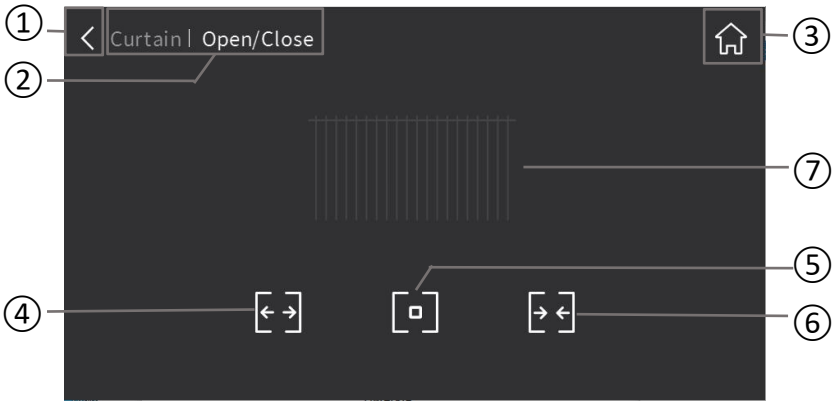


Fig.2.2.4.4

① Return to the previous level interface by touching this icon;

② This area displays the identification of the page description, format as: page description of previous level page | description of functional icon currently manipulated;

③ Return to the home page by touching this icon;

④ Open the blind by touching this icon;

⑤ Close the blind by touching this icon;

⑥ Stop running by touching this icon;

⑦ This icon displays the simulation of blind position.

Control the blind by touching icon④, icon⑤ and icon⑥, during operation, icon⑦ will dynamically simulate the opening and closing behavior of curtains.

At the same time, the status of icon⑦ will also update according to the curtain status feedback received from the bus.

Blind(up/down/stop)

This type is for Roller Blind controlling, supports opening, closing and stop running by manipulating three controlling buttons. The control interface of Roller Blind function is shown in Fig. 2.2.4.5 below.

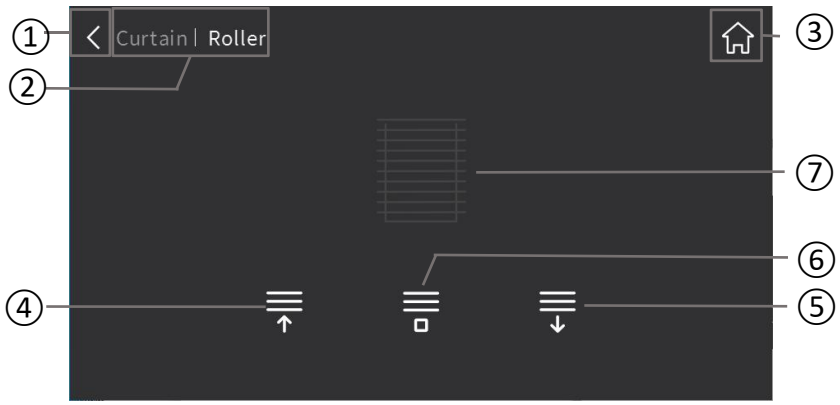


Fig.2.2.4.5

① Return to the previous level interface by touching this icon;

② This area displays the identification of the page description, format as: page description of previous level page | description of functional icon currently manipulated;

③ Return to the home page by touching this icon;

④ Run up the blind by touching this icon;

⑤ Run down the blind by touching this icon;

⑥ Stop running by touching this icon;

⑦ This icon displays the simulation of blind position.

Control the blind by touching icon④, icon⑤ and icon⑥, during operation, icon⑦ will dynamically simulate the opening and closing behavior of curtains.

At the same time, the status of icon⑦ will also update according to the curtain status feedback received from the bus.

2.2.5 Scene Function

By touching the icon, the device sends the corresponding scene telegram to the bus. If long operation is set, short pressing the icon for the scene call, long pressing the icon for the scene store. The icon status is updated according to the scene currently called, and if the scene is saved, the icon will shake (horizontally).

2.3 HVAC Function Page

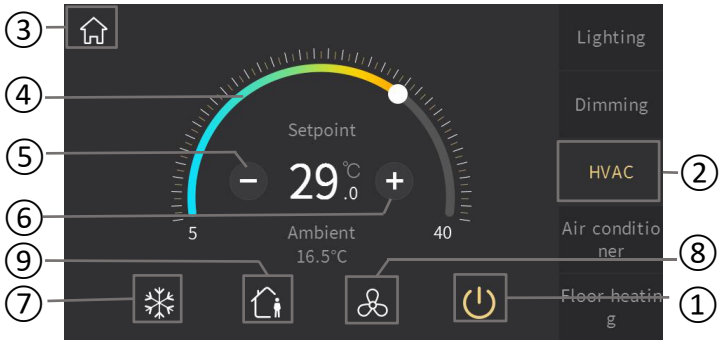


Fig.2.3.1

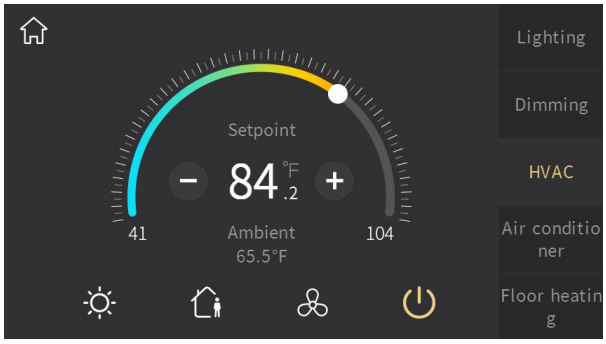


Fig.2.3.2

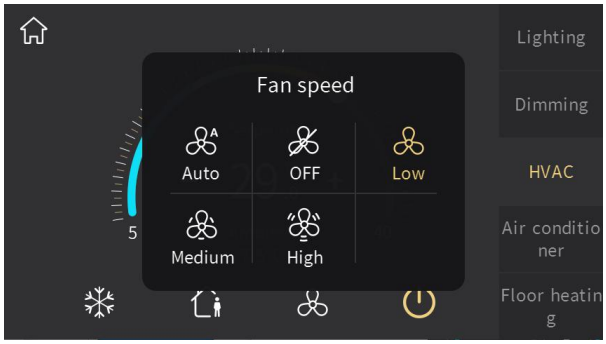


Fig.2.3.3

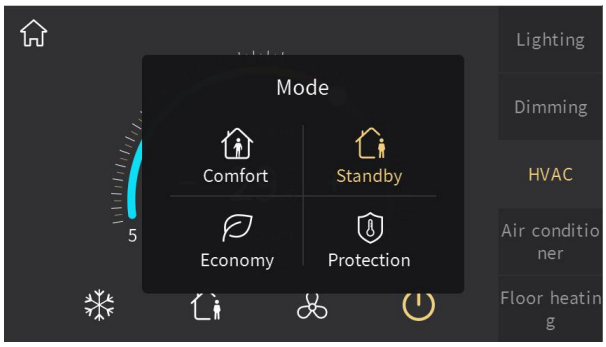


Fig.2.3.4

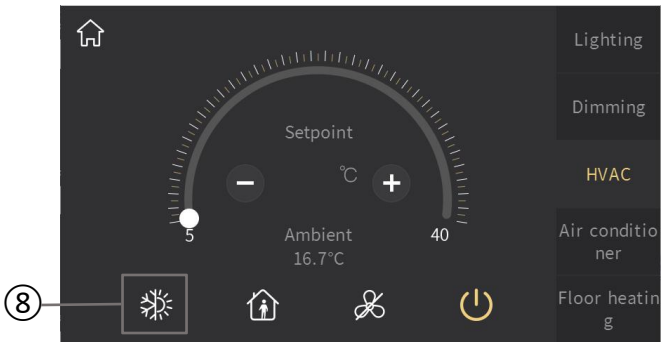


Fig.2.3.5

① This icon is ON/OFF button for the on/off of HVAC;

The initial state of power is defined according to the parameters, and it may also be in an uncertain state. When ON, the interface can be operated; when OFF, the other icons are not operable except the ON/OFF button.

② This area displays the page description identification of HVAC function page, user can define the description through ETS;

③ Return to the home page by touching this icon;

④ Sliding this ring slider to adjust the setting temperature;

⑤ The function of this icon is to decrease the temperature;

⑥ The function of this icon is to increase the temperature;

Adjusting the temperature by sliding the ring slider④ or touching the icon⑤ and icon⑥. For each touching of icon⑤ and icon⑥, the adjustment range is 0.5 degrees. When the setting temperature unit is set to degrees Celsius(℃), as shown in 2.3.1, adjustment range of the setting temperature is 5~40℃ by default; when the setting temperature unit is set to Fahrenheit(℉), the current temperature value will automatically convert to Fahrenheit value, as shown in Fig.2.3.2, adjustment range of the setting temperature is 41~104℉ by default. The temperature adjustment range can be modified through parameter setting.

The ambient temperature is displayed according to the parameter configuration.Temperature detected by internal sensor or external sensor can be displayed through configuration.

⑦ This icon is the Heating/Cooling icon, for heating and cooling switching;

This icon can be displayed individually as heating or cooling by parameter configuration.

⑧ This icon indicates the uncertain status of Heating/Cooling;

⑨ Enter the fan speed setting by touching this area, and will pop up a sub-window shown as Fig.2.3.3;

This window shows up to 5 options of fan speed: Auto, OFF, Low, Medium and High. Select one of these options then touch the area outside the sub-window to return the previous level function page. Under the auto fan speed, there would be no specific fan speed shown on the interface; the auto fan speed can be disable or enable by parameter configuration, when disable, there would be no Auto option on the window.

Fan speed adjustment of HVAC set to be disable or enable through parameter configuration. When disable, the fan speed icon will not be shown on the interface; when enable, fan speed can be adjusted.

⑩ Enter the mode setting by touching this area, and will pop up a sub-window shown as figure 2.3.4.

This window shows up to 4 options of mode: Comfort, Standby, Economy and Protection, select one of these options then touch the area outside the sub-window to return to the previous level function page.

Operation mode of HVAC set to be disable or enable through parameter configuration. When disable, the mode icon will not be shown on the interface; when enable, operation mode can be selected.

Remarks: ① When the setting temperature for operation mode is configured as relative adjustment,the adjustment of setting temperature under the protection mode only acts on the protection mode, for other modes, relative change of temperature adjustment are able to act on all modes (except the setting temperature of protection mode).

② When the setting temperature for operation mode is configured as absolute adjustment,the adjustment of setting temperature only acts on the current operating mode.

2.4 Air-Conditioner Function Page

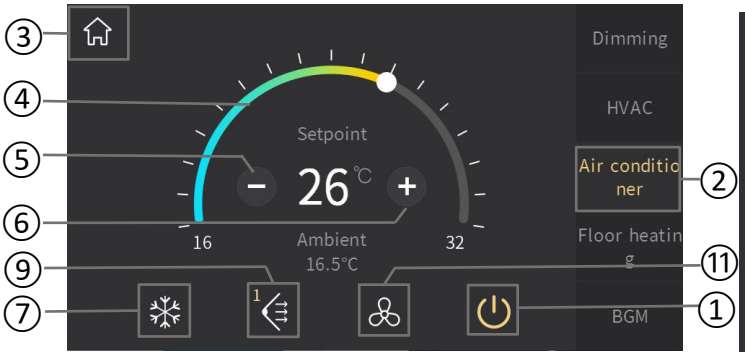


Fig.2.4.1

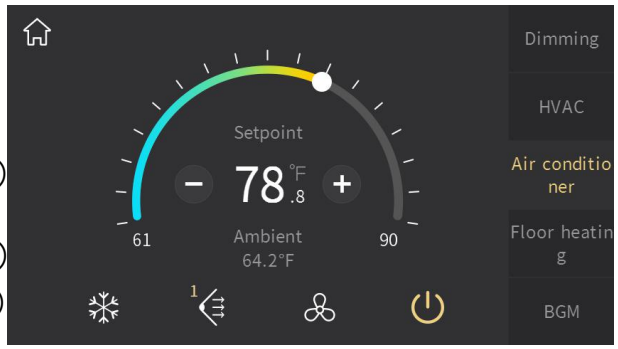


Fig.2.4.2

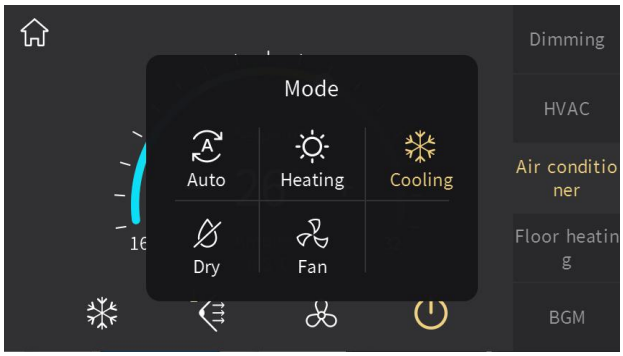


Fig.2.4.3

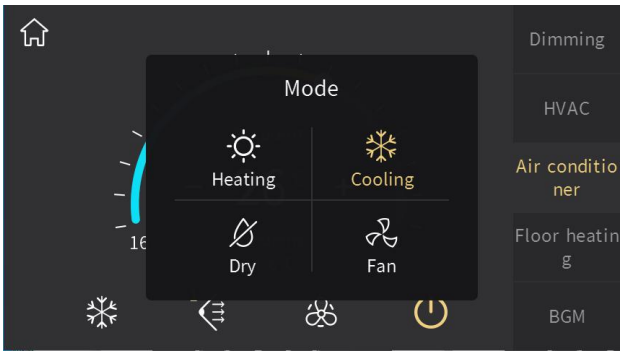


Fig.2.4.4

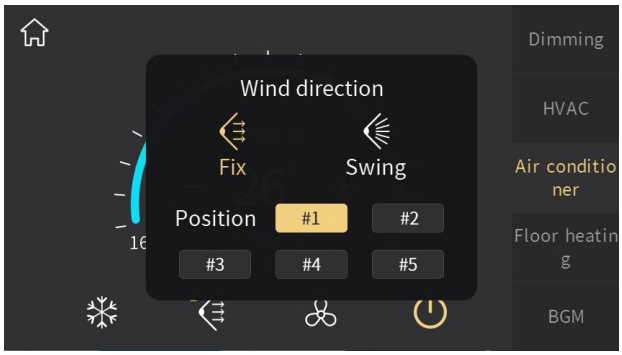


Fig.2.4.5

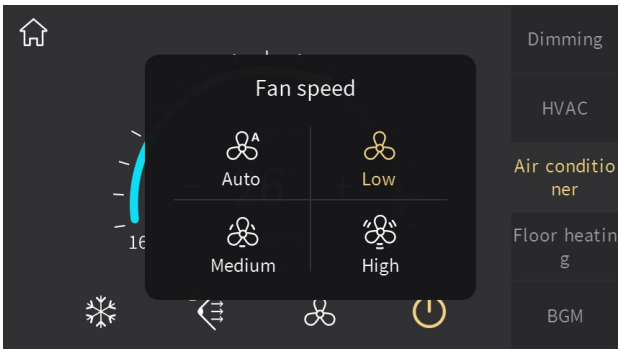


Fig.2.4.6

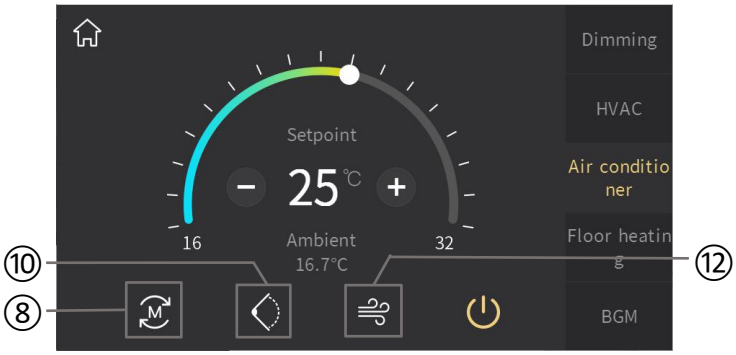


Fig.2.4.6

① This icon is ON/OFF button for the on/off of Air-Conditioner control;

When ON, the interface can be operated; when OFF, the other icons are not operable except the ON/OFF button.

Under the control mode of IR Split Unit, the mode of ON, Fan speed, and the setting temperature of Heating/Cooling can be configured through parameter; Under the control mode of Gateway Integrate, the status of ON mode, of Fan speed, and of Heating/Cooling setting temperature is the status before OFF. The Air-Conditioner control interface will recover to the status before power off.

② This area displays the page description identification of Air-Conditioner control, user can define the description through ETS;

③ Return to Home page by touching this icon;

④ Adjust the setting temperature by sliding this ring slider;

⑤ The function of this icon is to decrease the temperature;

⑥ The function of this icon is to increase the temperature.

Adjusting the temperature by sliding the ring slider④ or touching the icon⑤ and icon⑥. For each touching of icon⑤and icon⑥, the adjustment range is 1.0 degrees. When the setting temperature unit is set to degrees Celsius(℃), as shown in Fig.2.4.1, adjustment range of the setting temperature is 16~32℃ by default; when the setting temperature unit is set to Fahrenheit(℉), the current temperature value will automatically convert to Fahrenheit value, as shown in Fig.2.4.2, adjustment range of the setting temperature is 61~90℉ by default. The temperature adjustment range can be modified through parameter setting.

The ambient temperature is displayed according to the parameter configuration. Temperature detected by internal sensor or external sensor can be displayed through configuration.

⑦ Enter the mode setting by touching this icon, and will pop up a sub-window shown as Fig. 2.4.3 and Fig.2.4.4;

This dialogue window shows up to 5 options of Air-Conditioner mode: Auto, Heat, Cool, Dry and Fan. Select one of these options then touch the area outside the sub-window to return to the previous level function page.

Auto mode set to be disable or enable by parameter configuration. When disable, there will be no Auto item shown on the interface, as shown in Fig.2.4.4; when enable, there will be an Auto item shown on the interface, as shown in Fig.2.4.3.

⑧ This icon indicates the uncertain status of mode;

⑨ Enter to the fan direction setting by touching this icon, and will pop up a sub-window shown as Fig.2.4.5;

Fan direction setting is used to switch the working mode of fan direction, and there are two modes: fixed fan direction and swing fan direction. Select one of these options then touch the area outside the sub-window to return to the previous level function page.

Under fixed fan direction, select one of the 5 options (#1,#2,#3,#4,#5) for fan direction position, for instance, select #1, interface as shown in Fig.2.4.5, then touch the area outside the sub-window to return the previous level function page, the position selected will be shown on the fan direction icon of the function page, as shown in Fig.2.4.1. For swing fan direction, because fan direction change all the time, there would be no fixed position, only display swing fan direction icon on the interface.

Fan speed adjustment of fan direction set to be disable or enable by parameter configuration. When disable, there will be no fan speed item shown on the interface, as shown in Fig.2.4.1; when enable, fan direction can be adjusted.

⑩ This icon indicates the uncertain status of fan direction;

⑪ Enter the fan speed setting by touching this icon, and will pop up a sub-window shown as Fig.2.4.6;

This dialogue window shows up to 4 options of fan speed mode: Auto, Low, Medium and High. Select one of these options then touch the area outside the dialogue sub-window to return to the previous level function page.

⑫ This icon indicates the uncertain status of fan speed.

2.5 Floor Heating Function Page

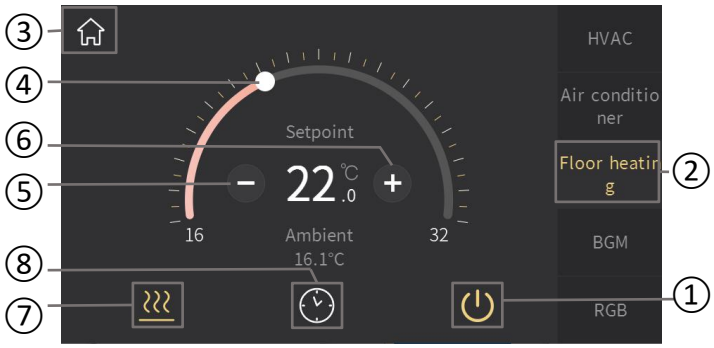


Fig.2.5.1

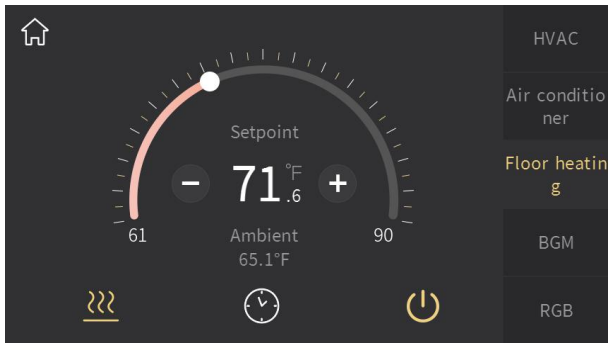


Fig.2.5.2

① This icon is ON/OFF button for the on/off of Floor Heating control;

When ON, the interface can be operated; when OFF, the other icons are not operable except the ON/OFF button and timing indication icon.

② This area displays the page description identification of Floor heating, user can define the description through ETS;

③ Return to the home page by touching this icon;

④ Adjust the setting temperature by sliding this ring sliver;

⑤ The function of this icon is to decrease the temperature;

⑥ The function of this icon is to increase the temperature;

Adjusting the temperature by sliding the ring slider④ or touching the icon⑤ and icon⑥. For each touching of icon⑤and icon⑥, the adjustment range is 0.5 degrees. When the setting temperature unit is set to degrees Celsius(℃), as shown in Fig.2.5.1, adjustment range of the setting temperature is 16~32℃ by default; when the setting temperature unit is set to Fahrenheit(℉), the current temperature value will automatically convert to Fahrenheit value, as shown in Fig.2.5.2, adjustment range of the setting temperature is 61~90℉ by default. The temperature adjustment range can be modified through parameter setting.

The ambient temperature is displayed according to the parameter configuration. Temperature detected by internal sensor or external sensor can be displayed through configuration.

⑦ This is the heating status indication icon.

Icon⑦ on indicates the heating valve to be open; icon⑦ off indicates the heating valve to stop heating, at this time, floor heating would be in the unheated state.

Floor heating compares the setting temperature with actual temperature of current environment to define control value according to 2-point control or PI control mode, so that realizes the automatic opening or closing of the heating valve.

⑧ This icon is the indicate icon of timing, for ON/OFF timer function and timer status indication.

Icon⑧ on indicates timer on, icon⑧ off indicates timer off.

By touching this timer icon to turn on or off timer function. Timer function will turn off when floor heating OFF or when scene function of floor heating is recalled.

2.6 Ventilation System Function Page

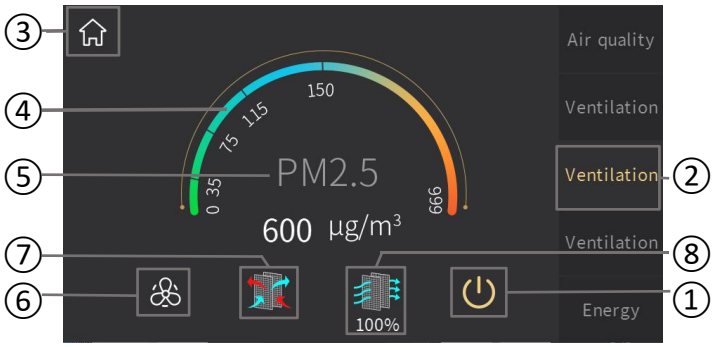


Fig.2.6.1

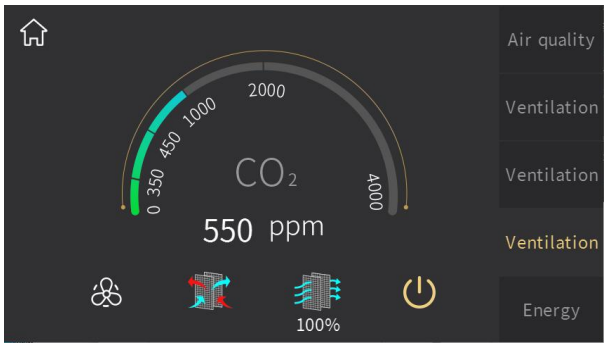


Fig.2.6.2

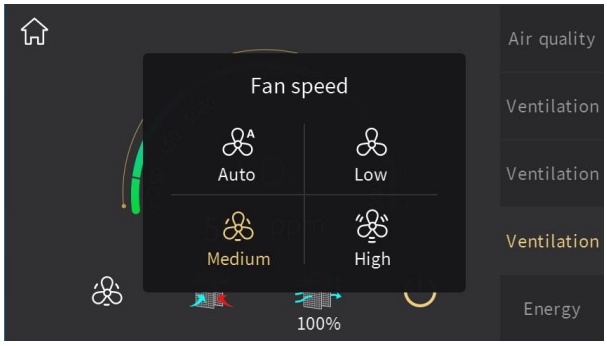


Fig.2.6.3

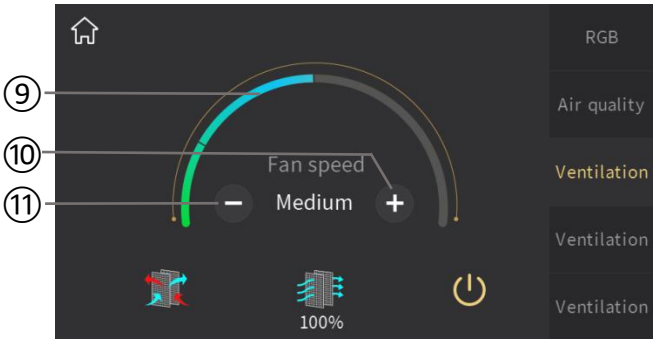


Fig.2.6.4

① This icon is ON/OFF button for the on/off of Ventilation System control;

The initial state of power is defined according to the parameters, and it may also be in an uncertain state. When ON, the interface can be operated; when OFF, the other icons are not operable except the ON/OFF button.

② This area displays the page description identification of Ventilation System, user can define the description through ETS;

③ Return to home page by touching this icon;

④ This ring bar displays the concentration value of CO_2/PM2.5 ;

⑤ This icon displays the concentration of CO_2/PM2.5;

Only when auto fan speed control of ventilation system is enable would this interface display, as shown in Fig.2.6.1 and Fig.2.6.2.

PM2.5 concentration as shown in Fig.2.6.1, according to the value received from the bus, range 0~999ug/m^3; if the data exceed 999ug/m^3,then the interface will display 999ug/m^3.

CO_2 concentration as shown in Fig.2.6.2, according to the value received from the bus, range 0~4000ppm; if the data exceed 4000ppm, then the interface will display 4000ppm.

⑥ This icon is for fan speed setting;

There is up to 4 options for fan speed mode： Auto, Low, Medium and High. When fan speed auto control is enable, auto fan speed adjustment will be displayed on the interface, shown as Fig.2.6.3. Whether fan speed auto control is enable or not is configured through parameter configuration.

When fan speed auto control is enable, fan speed level is calculated according to CO_2 or PM2.5 concentration. The interface displays only the auto icon, but no specific fan speed level.

⑦ This is the heat recovery icon, used to turn on or off heat recovery function;

Whether heat recovery function of ventilation system is enable or not is configured through parameter configuration. When disable, there will be no display of heat recovery function on the interface as shown in Fig. 2.6.1; when enable, heat recovery function is turned on by default when ventilation system is ON, and the heat recovery function can be turned on or off by touching icon⑦. The icon on indicates that the heat recovery is on; the icon off indicates that the heat recovery is off. In addition, heat recovery function can be turned on or off through the bus. After disable heat recovery, any touching of icon⑦ will respond.

⑧ This icon is the filter timer icon;

Whether the filter timer counter function is enable or not is configured through parameter configuration. When disable, there will be no display of filter timer counter function on the interface as shown in Fig.2.6.1; when enable, icon⑧ will be colorful after ventilation system ON, the remaining evaluation value will be displayed next to it. The value will be updated according to the use time, which will be updated through the bus.

The service life of the filter set by the parameter configuration. When the filter time reaches to the parameter setting value, the alarm state can be issued through the bus, and the remaining filter timer value can be displayed

to be 0%. When touch icon⑧, the filter time can be reset, as shown in Fig.2.6.5 below. After clicking “Confirm”, the filter timer value can be reset to 100%.

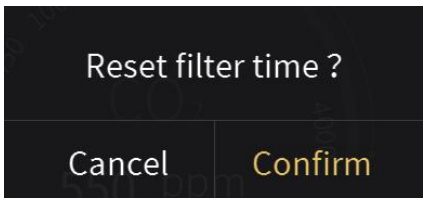


Fig.2.6.5

⑨ This ring bar displays specific fan speed level;

⑩ To increase fan speed level by touching this icon ;

⑪ To decrease fan speed level by touching this icon.

When fan speed is not configured as auto, as shown in Fig.2.6.4, by touching icon⑩ and icon⑪ to adjust fan speed; for each touch of icon⑩ and icon⑪ to adjust one level, there are 3 modes of fan speed: Low, Medium and High. At this time, the adjustment is manually, not automatically according to the concentration of CO_2 or PM2.5.

2.7 RGB Dimming Function Page

There are 3 control types of RGB dimming function: RGB, RGBW, RGBW+Color Temperature and Brightness+Color Temperature, are configured through parameter configuration. Among them, RGB is suitable for adjusting RGB lamp; RGBW is suitable for controlling RGBW strip; RGBW+Color Temperature is suitable for RGBW lamp, or RGB lamp and color temperature control; Brightness+Color Temperature is suitable for lamp color temperature control.

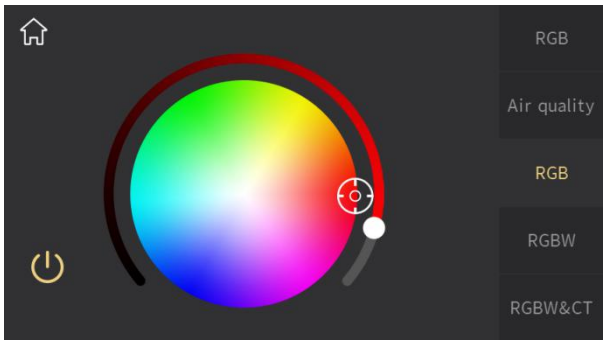


Fig.2.7.1



Fig.2.7.2

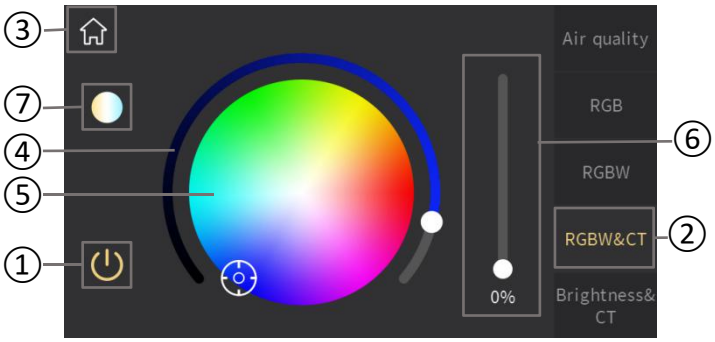


Fig.2.7.3



Fig.2.7.4

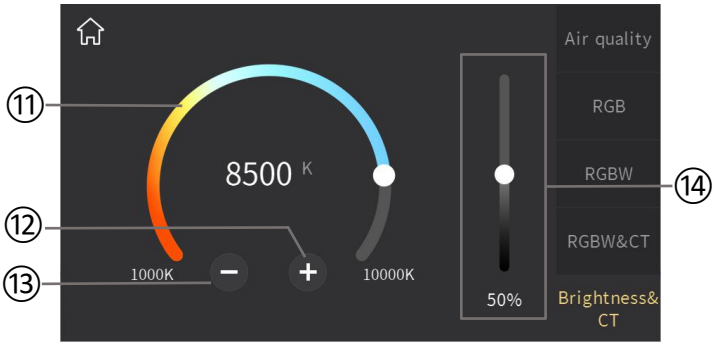


Fig.2.7.5

① This button-like icon is for RGB lamp off operation and status display.

When the icon on, touch this icon, the RGB color value will become 0, that is, the RGB lamp is turned off; when RGB color value is not 0 (i. e., ring slider④ is not slid to the left bottom), the icon will be on.

② This area displays the page description identification of RGB dimming function page, user can define the description through ETS.

③ Return to the home page by touching this icon;

④ This ring slider is used to adjust the color of RGB lamp;

⑤ This icon is the color palette;

When RGB dimming function is configured as RGB, function page interface as shown in Fig.2.7.1, sliding ring slider④ to adjust the color of RGB lamp, when ring slider④ is slid to the left bottom, RGB lamp is completely OFF, at this time, the button① become gray, and no reaction when operate the color palette⑤.

When RGB value of ring slider④ is not 0, the circular color palette is for selecting color, when touch the button①, RGB lamp off, and ring slider④ automatically slides to the left bottom, button① become gray.

When RGB dimming function is configured as RGBW, function page interface as shown in Fig.2.7.2, RGBW function page interface is similar to RGB function page interface, which is no longer described herein.

⑥ This slider for adjusting the brightness of white light, sliding the slider to adjust the brightness effect of white light.

When RGB dimming is configured as RGBW+Color Temperature, function page interface is similar to RGB but more a slider⑥ in the right side, as shown in Fig.2.7.3 and Fig.2.7.4. The adjustment of the white light is independent of the RGB type, RGB color adjustment refers to that of RGB type above, which is no longer described herein.

⑦ Enter the color temperature controlling interface by touching this icon, as shown in Fig2.7.4;

⑧ This ring slider is to adjust the color temperature of RGB lamp;

⑨ Increase the color temperature value by touching this icon;

⑩ Decrease the color temperature value by touching this icon;

Color temperature control interface shown as Fig.2.7.4, by sliding the ring slider⑧ or touching the icon⑨ and icon⑩ to control the color temperature of RGB lamp, the adjustment range for each touch of icon⑨ or icon⑩ is 100K. After finishing the adjustment, touch the area outside the sub-window to return to the previous level function page, as shown in Fig.2.7.3.

⑪ This ring slider is to adjust the color temperature of RGB lamp;

⑫ Increase the color temperature value by touching this icon;

⑬ Decrease the color temperature value by touching this icon;

When RGB dimming is configured as Brightness+Color Temperature, function page interface shown as Fig.2.7.5. Sliding the ring slider⑪ or touching the icon⑫ and icon⑬ to change the color temperature value, the adjustment range for each touch of icon⑫ or icon⑬ is 100K.

⑭ Adjust the brightness of the lamp by sliding this slider.

2.8 Energy Metering Display Function Page



Fig.2.8.1

① This area displays the page description identification of the Energy Metering Display Function Page, user can define the description through ETS;

② This area displays the identification of data description, user can define the description through ETS;

Energy Metering Display interface shown as Fig.2.8.1, current, voltage, power and energy consumption can be displayed through parameter configuration. There are up to 8 items displayed in the interface, these data can be updated and displayed through the bus, such as Switch Actuator with Current Detection can provide the present value of current, power or energy consumption, slide down the interface to view all the items.

2.9 Air Quality Display Function Page

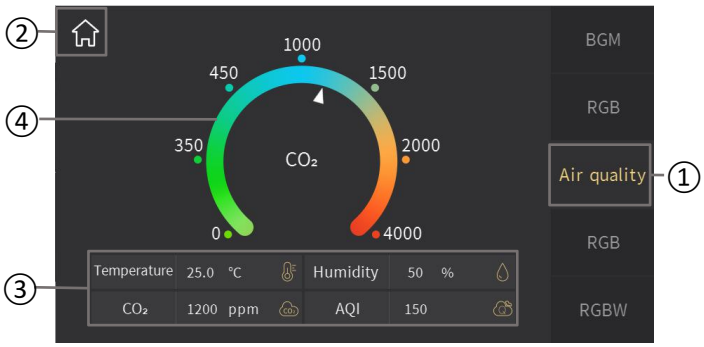


Fig.2.9.1

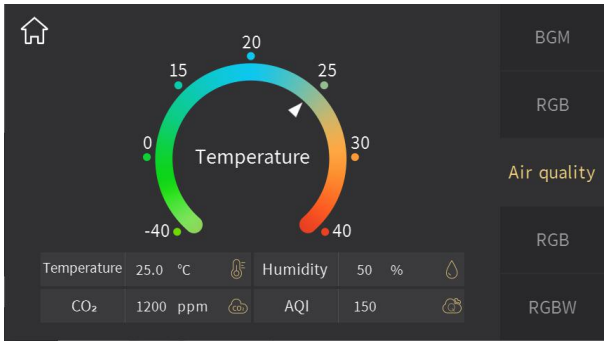


Fig.2.9.2

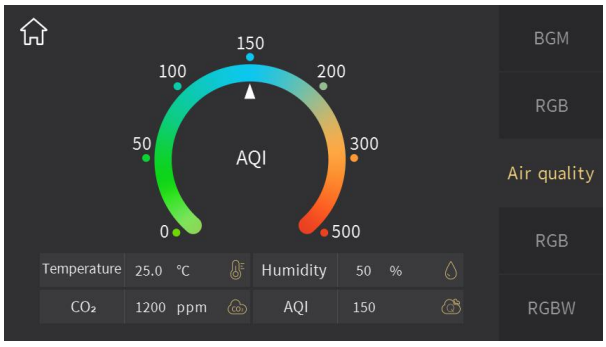


Fig.2.9.3

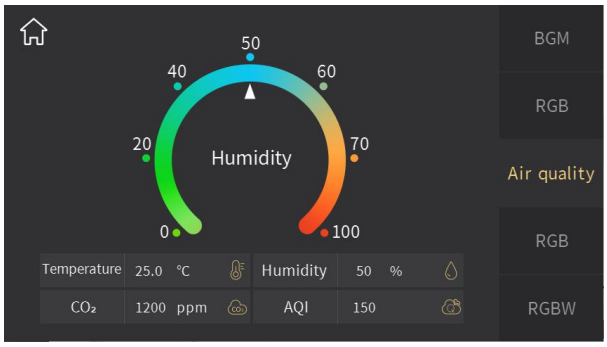


Fig.2.9.4

① This area displays the page description identification of Air Quality Display function page;

② Return to the home page by touching this icon;

③ This display area is the air quality parameter display list, can be configured through parameter configuration;

AQI, temperature, humidity, PM2.5, PM10, VOC, CO_2, brightness and wind speed can displayed by parameter configuration, an interface can be configured with up to four displays.

④ This ring strip is used for displaying the air quality parameter value;

Touch one of the items in the display list at the bottom of the interface, the pointer on the ring strip④ will point to the corresponding scale, such as Fig.2.9.1 above is the display effect of CO_2, Fig.2.9.2 is the display effect

of temperature, Fig.2.9.3 is the display effect of AQI and Fig.2.9.4 is the display effect of humidity.

You can see the display range of the corresponding item on the interface ring strip④:

Temperature: -40~40 ℃

Humidity: 0~100 %

PM2.5: 0~999 ug/m3

PM10: 0~999 ug/m3

CO2: 0~4000 ppm

VOC: 0~9.99 mg/m3 or 0~4000 ppm

AQI: 0~500

Brightness: 0~5000 lux

Wind speed: 0~50 m/s

The displayed data are usually provided by other external sensors on the system.

2.10 Background Music Function Page



Fig.2.10.1

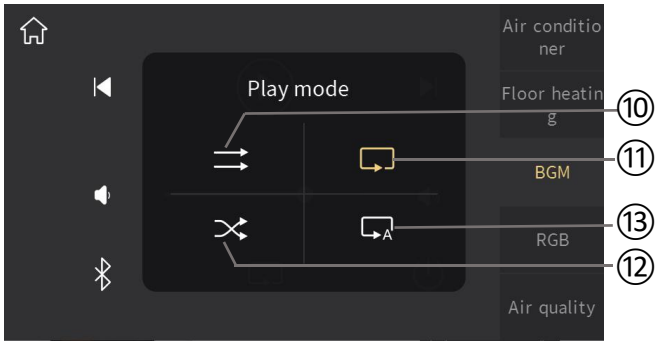


Fig.2.10.2

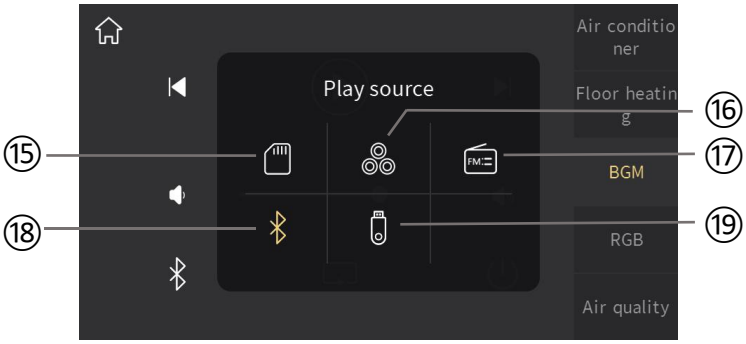


Fig.2.10.3

① This icon is ON/OFF button for the power on/off of Background Music;

As shown in Fig.2.10.1, when ON, the interface can be operated; when OFF, the other icons are not operable except the ON/OFF button.

② This area displays the page description identification of Background Music function page, user can define the description through ETS.

③ Return to the home page by touching this icon;

④ Select previous song by touching this icon;

⑤ Select next song by touching this icon;

⑥ Play or pause song by touching this icon;

⑦ This icon is for volume decreasing;

⑧ This icon is for volume increasing;

By touching the icon⑦ or ⑧ to adjust volume.

⑨ This icon is for the play mode selection;

⑩ Set the play mode as sequential playback by touching this icon;

⑪ Set the play mode as list loop by touching this icon;

⑫ Set the play mode as random playback by touching this icon;

⑬ Set the play mode as single loop by touching this icon;

As shown in Fig.2.10.2, select one of these play modes then touch the area outside the sub-window to return the previous level function page.

⑭ This icon is for the Music source selection;

⑮ Set the music source as SD card by touching this icon;

⑯ Set the music source as AUX audio by touching this icon;

⑰ Set the music source as FM radio by touching this icon;

⑱ Set the music source as blue teeth by touching this icon;

⑲ Set the music source as USB flash disk by touching this icon.

As shown in Fig.2.10.3, select one of these music sources then touch the area outside the sub-window to return the previous level function page.

2.11 Setting Page

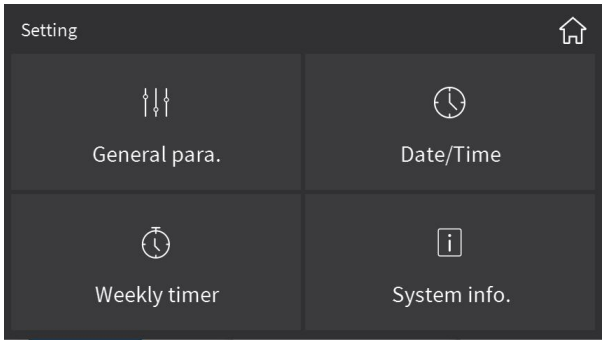


Fig.2.11.1

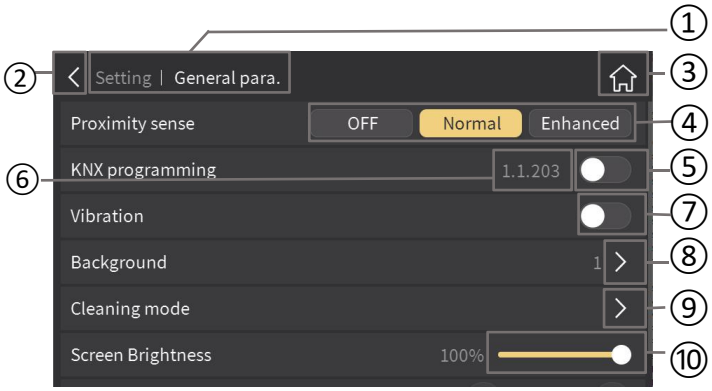


Fig.2.11.2

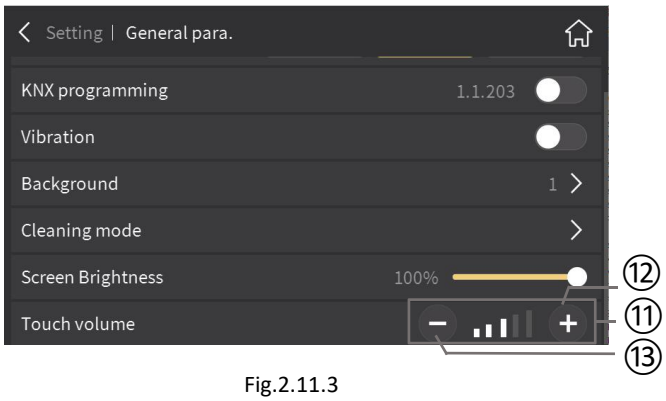


Fig.2.11.3



Fig.2.11.4

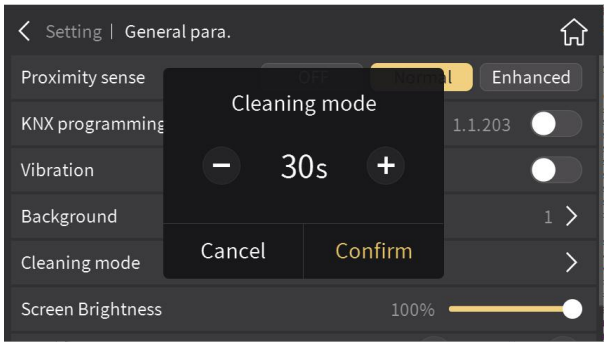


Fig.2.11.5

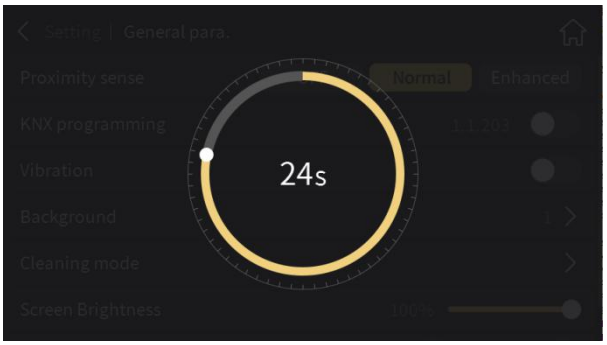


Fig.2.11.6

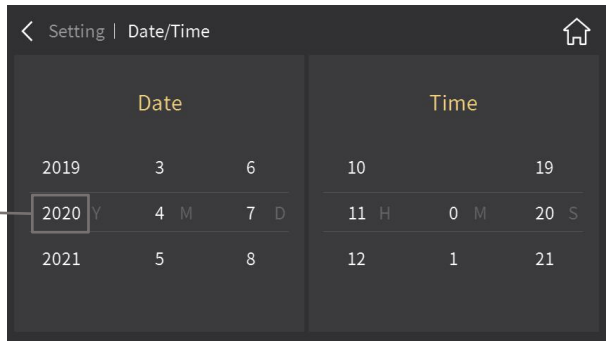


Fig.2.11.7

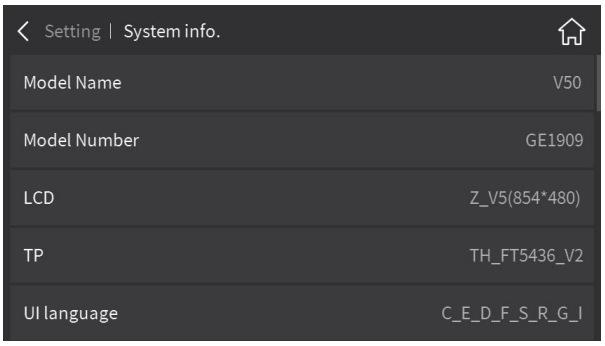


Fig.2.11.8



Fig.2.11.9

Click the setting icon in the upper-right corner of the main page to enter the setting page, as shown in Fig.2.11.1.

① This area displays the page description identification of Setting page, format as: setting | description of function page currently manipulated;

The sub-interface with the same area format are the same, the following will no longer describe .

② Return to the setting page by touching this icon;

③ Return to the home page by touching this icon;

④ This icon is to set the proximity sense;

There are three settings: OFF, Normal and Enhance, indicating the distance near the sensor, “Normal” distance is exceed 15cm and “Enhance” distance is exceed 30cm. When the device senses the human body approaching, then wake up the device and enter the operation interface or password interface.

⑤ This icon is KNX programming button;

⑥ This area displays the physical address of the device, the physical address can be set through ETS;

Touch the button icon⑤ on the right to enter or exit the physical address programming mode. In the programming mode, the device programming indicator light turns red, that is, the color light strip turns red. After exiting the programming mode, the color light strip returns to the normal indication.

⑦ This icon is a vibration-enabled button:

Touch the button icon⑦ on the right to disable or enable the vibration function. When enable, the device has a sense of vibration when operate the screen. When disable, there is no vibration.

⑧ This icon is used to set the screen background manually;

Touch the button icon, the pop-up window as shown in Fig.2.11.4, there are 3 pictures for selecting.

⑨ By touching this icon to enter the cleaning mode;

The pop-up window for setting the cleaning mode countdown as shown in Fig.2.11.5. The time increase/decrease in every 5 seconds when operating, the minimum setting time is 5s and the maximum is 60s, the default setting time is 30s; click "Confirm" to enter the cleaning mode countdown interface, as shown in Fig.2.11.6, it will return to the General Para. page when finish countdown, operation of interface is invalid during countdown; click "Cancel" return to the General Para. page.

⑩ This slider is used to set the screen brightness as a percentage;

⑪ This icon is the keystroke volume setting icon, which is used to increase/decrease keystroke volume;

⑫ This icon for keystroke volume increasing;

⑬ This icon for keystroke volume decreasing;

By touching icon⑫ and icon⑬ to increase/decrease keystroke volume, the volume is displayed by the proportion on the volume bar of 5 blocks, shown as icon⑪.

After the above setting, touch the return icon (top-left corner) to return to the Setting page.

⑭ Sliding the number to choose the current date and time;

Click "Date/Time" in Fig.2.11.1 to enter the date/time setting interface as shown in Fig.2.11.7. In this interface, slide a number to select the current date and time. After the completion of the setting, touch the return icon (upper-left corner) to return to the Setting page.

Click "System Info." in Fig.2.11.1 to enter the system information display interface as shown in Fig.2.11.8 and Fig.2.11.9. You can view the system information of the device, including name code, internal code, LCD screen, touch screen, interface language, system platform, system version , KNX version and program version.
(Note: only when program version is the same as database version in the ETS, the device is allowed to be downloaded in the ETS.)

Click "Weekly Timer" in Fig.2.11.1 to enter the weekly timer display interface as shown in Fig.2.11.10. The weekly timer needs to be enabled through parameter configuration. Weekly timer before being configured is not

operable. In the case of configuration, click “weekly timer” in Fig.2.11.1 to enter the weekly timer setting interface as shown in Fig.2.11.10.



Fig.2.11.9



Fig.2.11.10

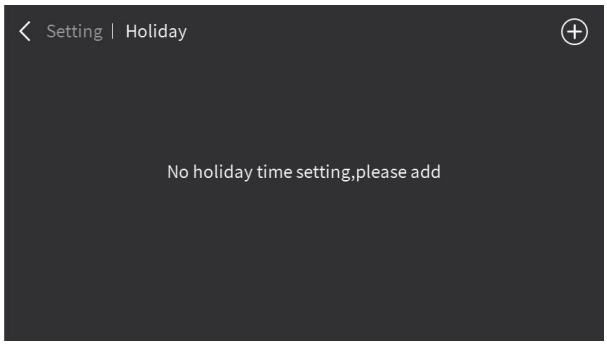


Fig.2.11.11

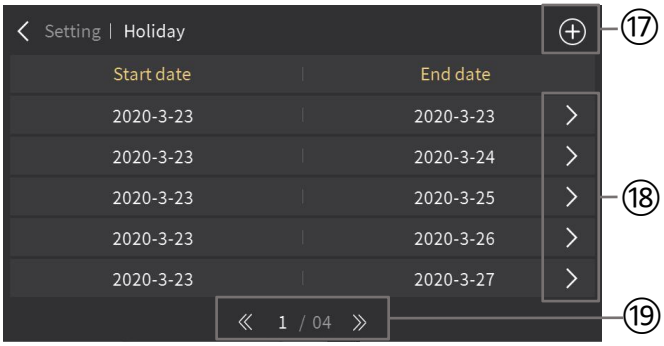


Fig.2.11.12

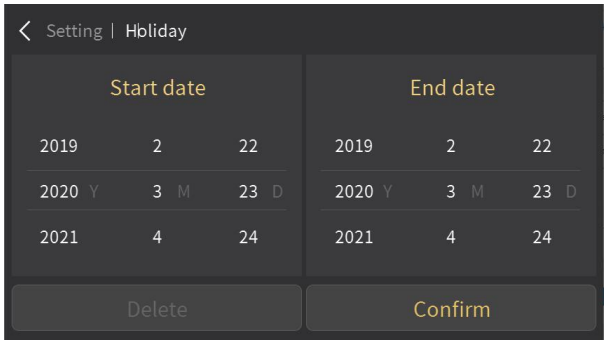


Fig.2.11.13

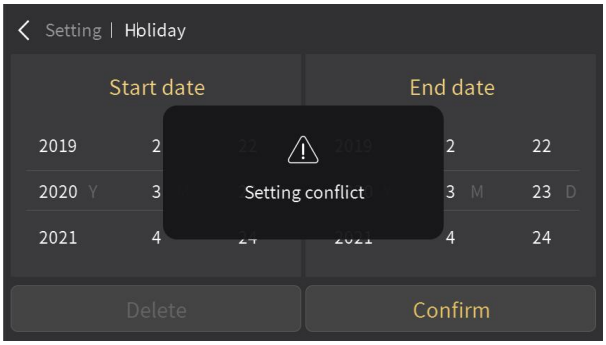


Fig.2.11.14

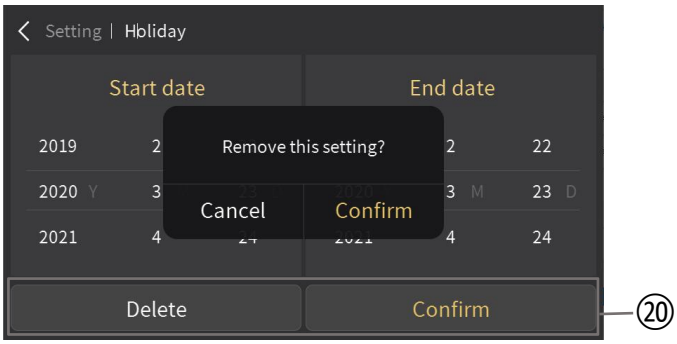


Fig.2.11.15

⑮ Enter the holiday setting interface by touching this area;

As shown in Fig.2.11.12, when there is no holiday added, the interface displays “No holiday timing setting, please add”.

⑯ Manually enable/disable the time function of every day in a week by touching this icon;

Weekly timer is enabled by default if the parameters are configured. If the timer of the day is turned on, corresponding actions will be performed when the timer is up. Specific timer and actions are configured by parameters. If timer is not required on the day, manually close it. The button on the right side of the interface is used to manually switch the timer of the day.

⑰ Add holidays by touching the icon;

Enter the interface as shown in Fig.2.11.14 by touching icon⑰. **Timing is off during holidays.**

⑱ Enter the holiday time setting by touching the icon ;

Touch icon⑱, enter the interface as shown in Fig.2.11.16, set the period of holiday, here set up after the start time and end time of the holiday, click “Confirm” to finish the setting. If the holiday time is repeated when setting, then will pop up a window as shown in Fig.2.11.15; touch the area outside the window to return to the setting page.

⑲ Slide the page left or right by touching the icon in this area to view holiday time list;

⑳ This icon is to confirm and delete setting.

If it is to be modified or deleted the setting time, touch this time period to the right of the icon⑱, then re-enter Fig.2.11.16 interface, in this period of time to modify or delete, click “Delete” as shown in Fig.2.11.16 pop-up window. In the pop-up window, click “Cancel” to return to the previous page, and click “Confirm” to delete it. If no modification or deletion is needed, the icon in the upper left corner of the touch interface returns to the holiday interface.

2.12 Screen-saver



Fig.2.12.1

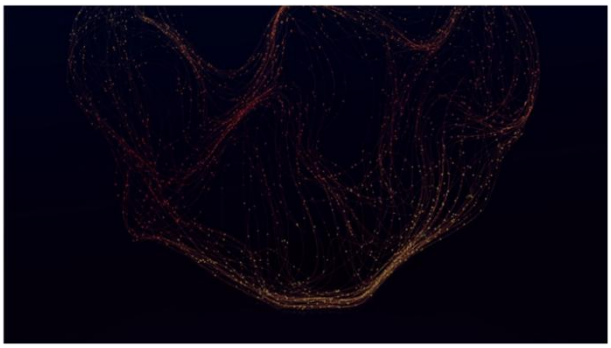


Fig.2.12.2

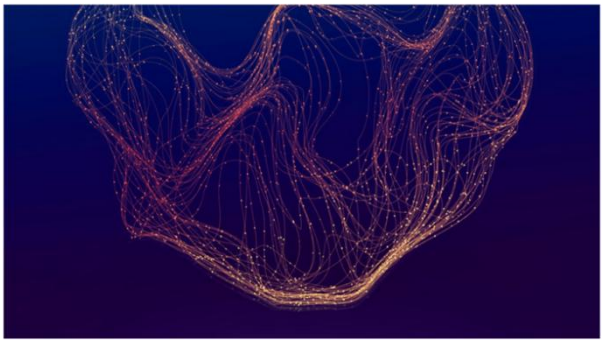


Fig.2.12.3



Fig.2.12.4

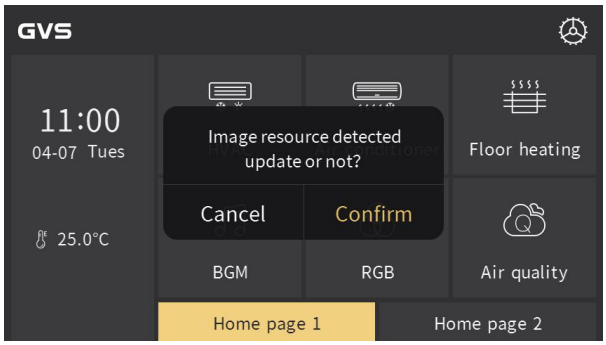


Fig.2.12.5

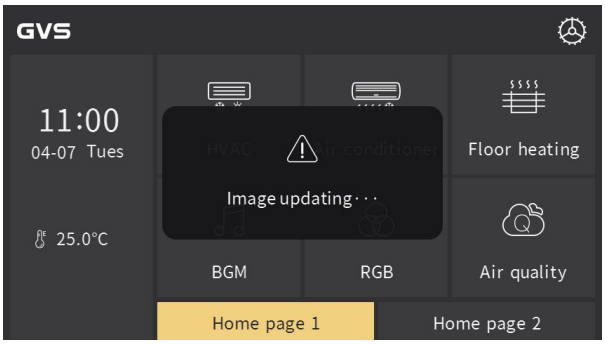


Fig.2.12.6

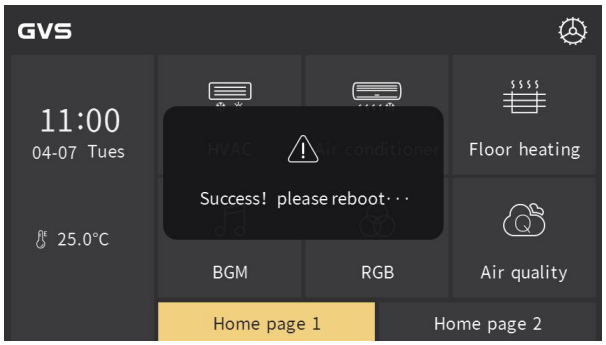


Fig.2.12.7

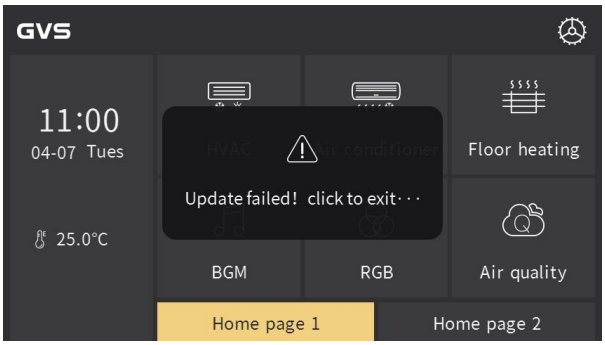


Fig.2.12.8

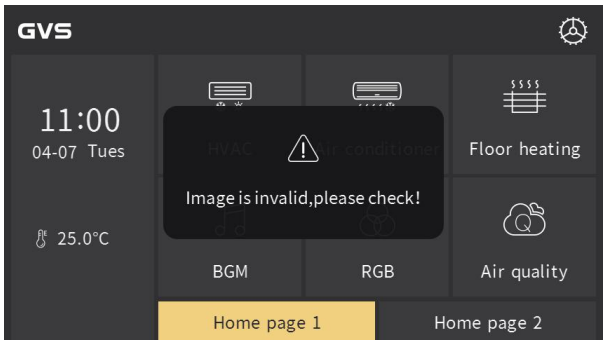


Fig.2.12.9

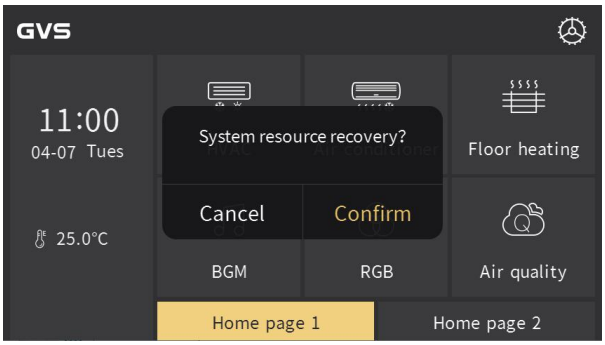


Fig.2.12.10

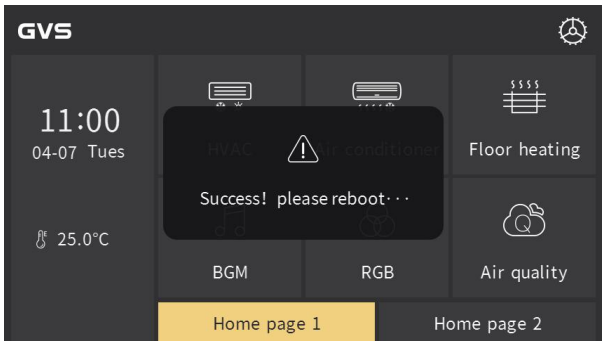


Fig.2.12.11

Screen-saver can be set as clock and album that system comes with through ETS parameter configuration, or insert new pictures through Micro SD card.

Clock screen-saver shown as Fig.2.12.1, three pictures of album screen-saver shown as Fig.2.12.2, Fig.2.12.3 and Fig.2.12.4. It will automatically switch picture in every 5 seconds.

Inserting new pictures through Micro SD card, specific steps are as follow:

Note: ① Only support SDHC card and the format should be FAT32 (if the format is not FAT32, it need to be formatted as FAT32); ②Only support Micro SD cards with capacity not greater than 32GB.

Micro SD card setting: create a new folder named "picture" under the root directory of Micro SD card, place three pictures in the folder and name as “Album_1”, “Album_2”, “Album_3”, the resolution must be 854 * 480. Supporting pictures with the suffix: jpg, bmp, tjpg, png (Among them, the background color of the “png” picture must be opaque.)

Note: ① Replacing pictures according to the name suffix of the new picture corresponding to the original album number of the system: for example, placing “Album_1” in the folder “picture”, it will replace the first one

of the system album; another example as, place “Album_1” and “Album_3 ”, it will replace the first one and the third one of the system album.

② Update pictures: when there is a folder named “picture” in the Micro SD card, and there is a picture in accordance with valid name and format, then it will update and store (even if the picture is the same as the last saved).

2. Insert Micro SD card into the device, if Micro SD card meet the above settings, and valid pictures are detected to be there, then will pop up a request window to confirm update, as shown in Fig.2.12.5;

3. Click “Confirm” to update picture; after upgrade, there will pop up a window of the result, if upgrade is successful, then reboot the device manually to apply the new picture to the album; if upgrade is failed, click any area outside the window to return to the page, as shown in Fig.2.12.6, Fig.2.12.7, Fig.2.12.8, Fig.2.12.9.

(3) Delete the customized picture that has already inserted through Micro SD card, specific steps are as follow:

When there is a folder named “picture” in the Micro SD card but no picture in accordance with valid name and format, there will pop up a window “System resource recovery?”, as shown in Fig.2.12.10, click “Confirm”, then will delete the customized picture that has already inserted and pop up a window “ Success! please reboot...”, as shown in Fig.2.12.11, you need to reboot the device manually to recover the original album of the system.

Note: If the total size of the valid picture in the Micro SD card is greater than 3.8MB in the same time, then will prompt that picture is invalid; if the single picture is larger than the remaining storage space of the device (the total size of the device picture storage disc is about 4 MB), the remaining valid pictures shall be stopped updating.

When no operation on the screen and the screen-saver set by parameter is over the delay time, screen will enter the screen-saver state; once an operation happened, it will exit screen-saver.

2.13 Password

Enable or disable the password function through parameter configuring, if enable, the interface shown as Fig.2.13.1, when the screen is in the state of screen-saver or screen-off, re-enter screen need to input password. Password only allow 4 digit number, configured by parameter setting.

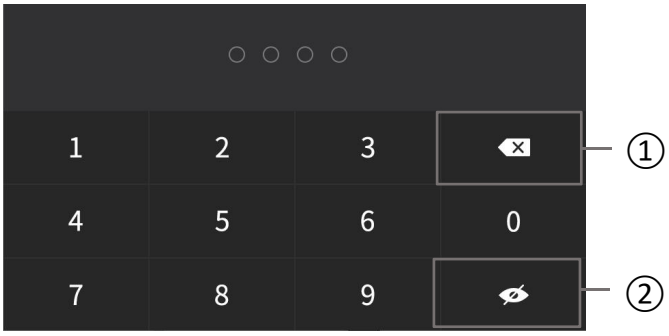


Fig.2.13.1

① **Delete password by touching this icon;**

② **Display or hide the password by touching this icon.**

2.14 Panel Lock

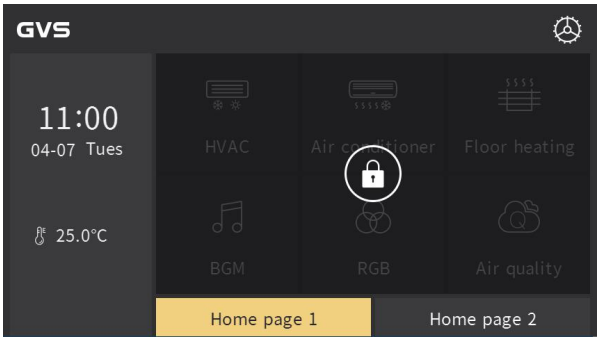


Fig.2.14.1

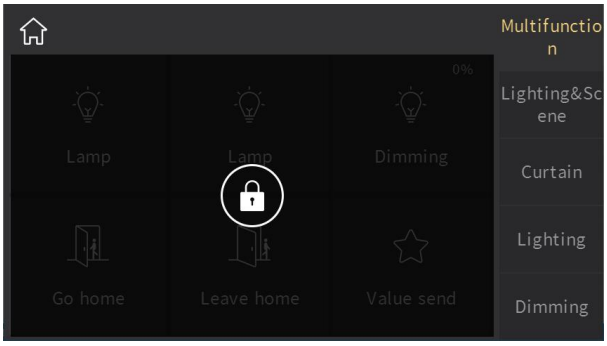


Fig.2.14.2

Device Locking

User can lock or unlock the operating interface of the device via the bus. After locking, interface shown as Fig.2.14.1, the entire device cannot be operated, except receiving telegram from the bus.

User can unlock the device via the bus.

Function Page Locking

User can lock or unlock each function page individually through the bus. After locking, interface shown as Fig.2.14.2, this interface cannot be operated except receiving telegram from the bus. Function page locking only locks each function page, and has no effect on switching between home page and each function page.

2.15 Other Functions

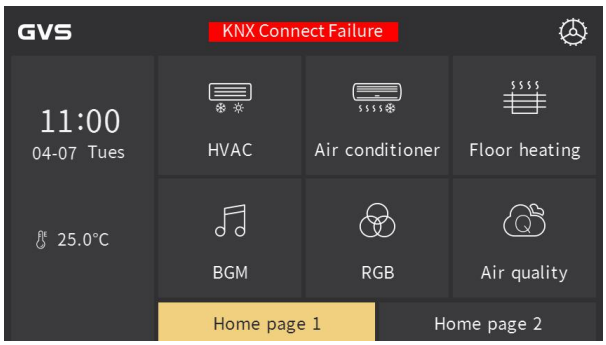


Fig.2.15.1

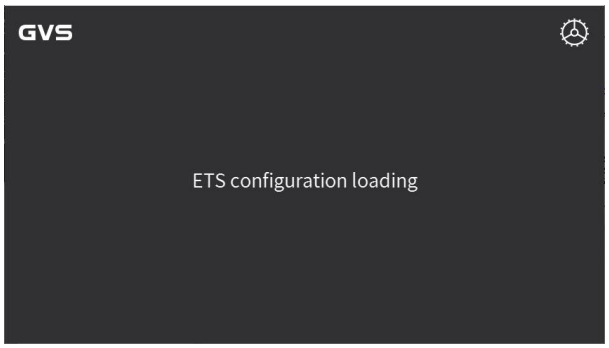


Fig.2.15.2

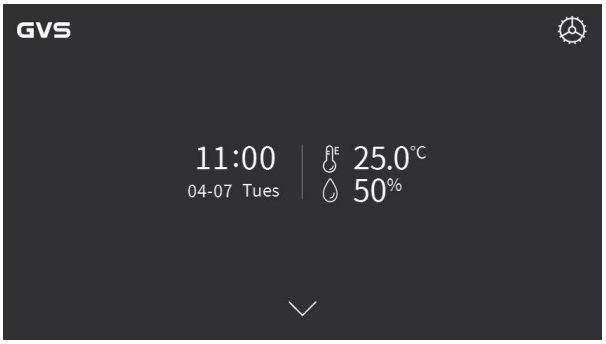


Fig.2.15.3

When the KNX bus connection of the device is abnormal, the "KNX Connect Failure" at the top of the interface shown as Fig.2.15.1 above, there is no prompt when the connection is normal.

When the application download of the device is completed or the device power recover, the device will initialize and load the parameter configuration of ETS, the interface as shown in Fig.2.15.2 below.

When the device is not configured with the home page navigation function or when the home page navigation function is configured as an invalid page or as functional icon, the home page interface is shown in Fig.2.15.3 above.

Chapter 3 Screen Background



Fig.3.1



Fig.3.2



Fig.3.3

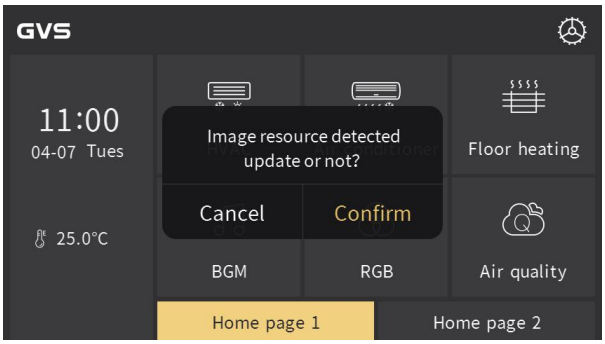


Fig.3.4

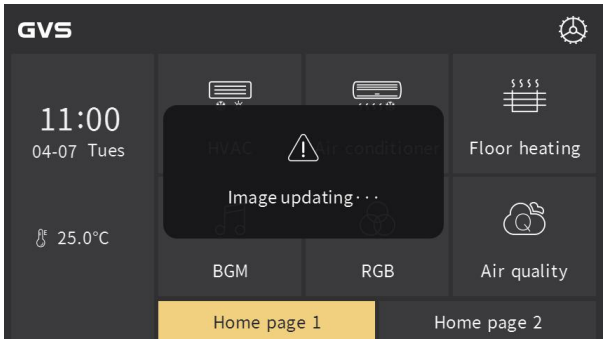


Fig.3.5

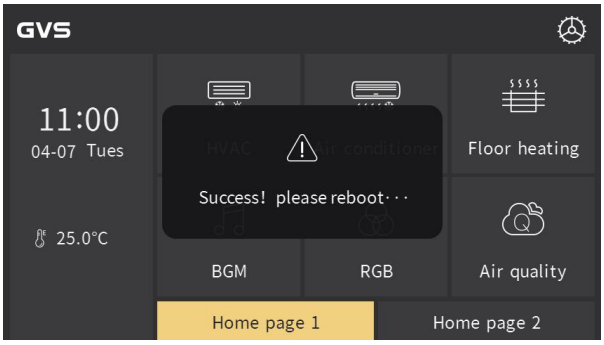


Fig.3.6

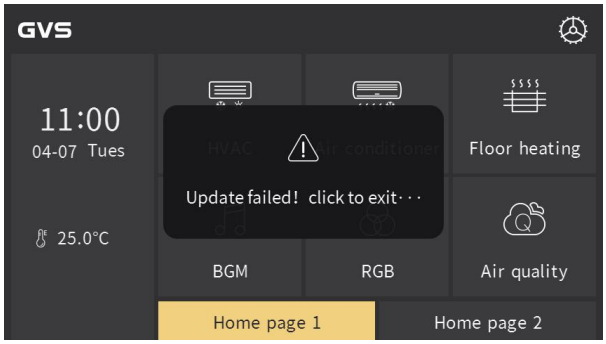


Fig.3.7

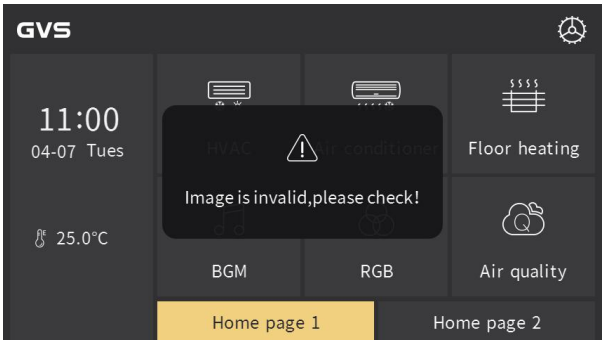


Fig.3.8

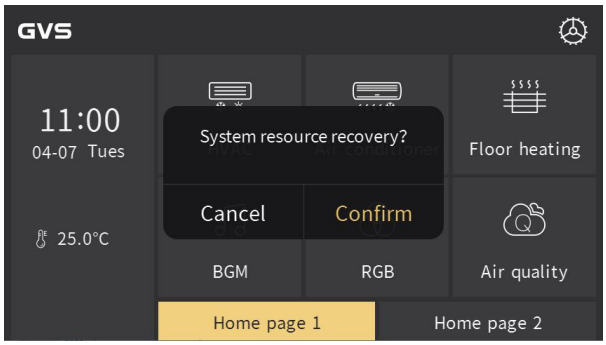


Fig.3.9

Screen background can be configured as the default background of the system through ETS parameter setting, or insert new pictures via Micro SD card.

(1) Configuring background through ETS configuration, there are 3 options: Default, Church and Water droplets, as shown in Fig.3.1, Fig.3.2 and Fig.3.3.

(2) Inserting new background through Micro SD card, specific steps are as follows:

Note: ①Only support SDHC card and the format should be FAT32 (if the format is not FAT32, it need to be formatted as FAT32); ②Only support Micro SD cards with capacity not greater than 32GB.

Micro SD card setting: placing the pictures in the root directory of the Micro SD card and name as "main_bg". The resolution must be 854 * 480.

Note: ①Supporting pictures with the suffix: jpg, bmp, tjpg, png (Among them, the background color of the "png" picture must be opaque.)

② New pictures take effect only when the parameter "Screen background setting" in the ETS is selected as "Default".

2. Insert Micro SD card into the device, if Micro SD card meet the above settings, and valid pictures are detected, then will pop up a request window to confirm update, as shown in Fig.3.4;

3. Click "Confirm" to update picture; after upgrade, there will pop up a window of the result, if upgrade is successful, then reboot the device manually to apply the new background to the system; if upgrade is failed, click any area outside the window to return to the page, as shown in Fig.3.5, Fig.3.6, Fig.3.7 and Fig.3.8.

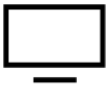
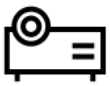
Note: If the total size of the valid picture in the Micro SD card is greater than 3.8MB in the same time, then will prompt that picture is invalid; if the single picture is larger than the remaining storage space of the device (the total size of the device picture storage disc is about 4 MB), the remaining valid pictures shall be stopped updating.

Chapter 4 Icons for Function Page

4.1 Icon List for Function Page

Replacing ID NO.	ETS options	Icon
0	Switch_default	
0	Switch/ Dimming_default	
1	Value send_default	
2	Scene control_default	
3	Open/Close curtain_default	
4	Roller blind_default	
5	Venetian blind_default	
11	No icon,only text	No specific icon,only display text
12	Ceiling light	
13	Downlight	
14	Wall light	
15	Spotlight	

Replacing ID NO.	ETS options	Icon
16	Chandelier	
22	All on	
23	All off	
24	Go home 1	
25	Leave home 1	
26	Go home 2	
27	Leave home 2	
28	Welcome	
29	Meeting (guest)	
30	Dinner	
31	Party	
32	Conference	

Replacing ID NO.	ETS options	Icon	Replacing ID NO.	ETS options	Icon
33	**Sleeping**		**45**	**Window 1**	
34	**Reading**		**46**	**Window 2**	
35	**Media**		**47**	**Alarm**	
36	**Cleaning**		**48**	**Timer**	
37	**TV**		**49**	**Projector**	
38	**Audio**		**50**	**Multimedia**	
39	**Socket (CHN)**		**51**	**Electronic heating**	
40	**Socket (EU)**		**52**	**Air conditioner 1**	
41	**Fan**		**53**	**Air conditioner 2**	
42	**Door lock**		**54**	**Air fresh**	
43	**Door access**		**55**	**General**	
44	**Power supply**				

4.2 Icon Replacement for Function Page

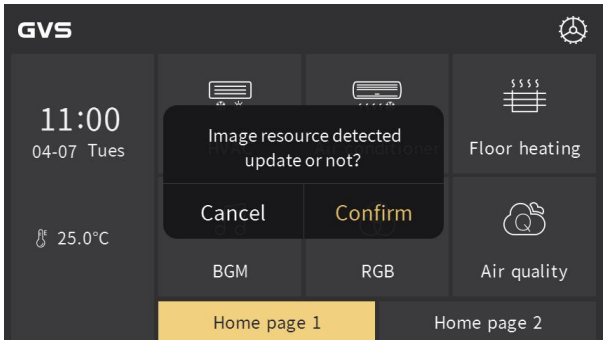


Fig.4.1

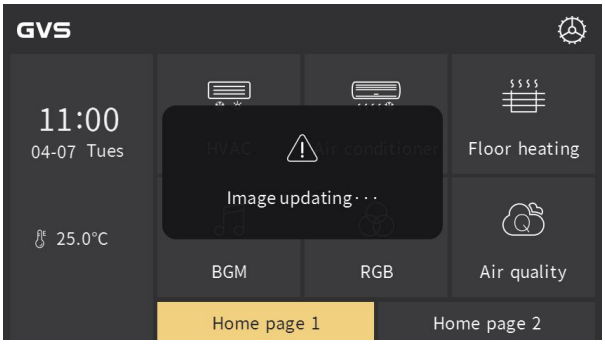


Fig.4.2

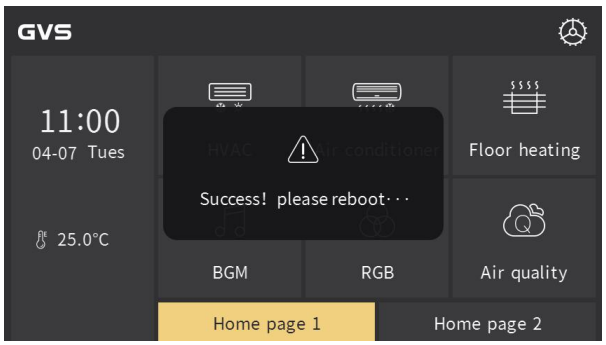


Fig.4.3

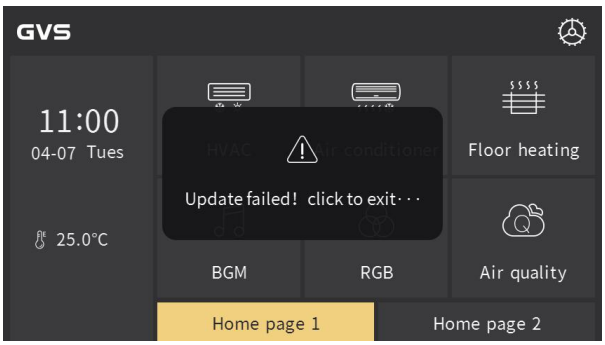


Fig.4.4

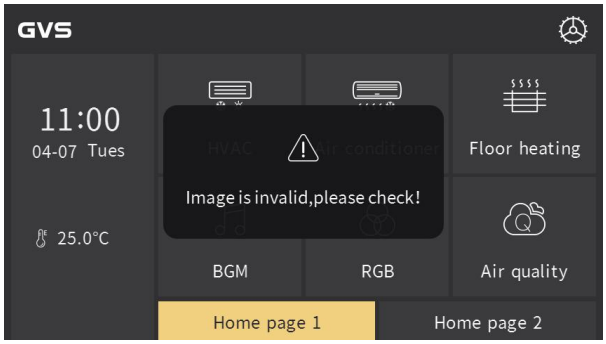


Fig.4.5

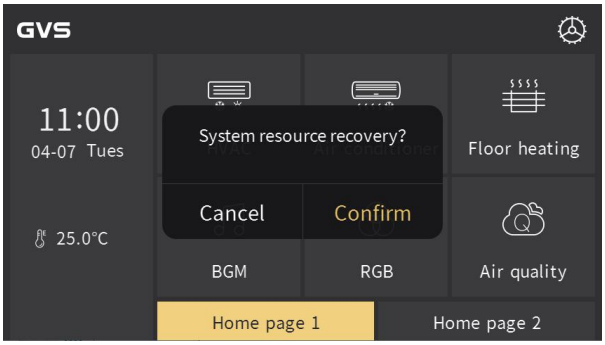


Fig.4.6

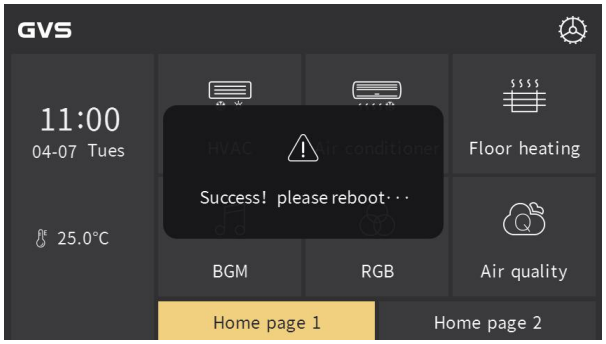


Fig.4.7



icon_0_a.png icon_0_b.png icon_0_c.png

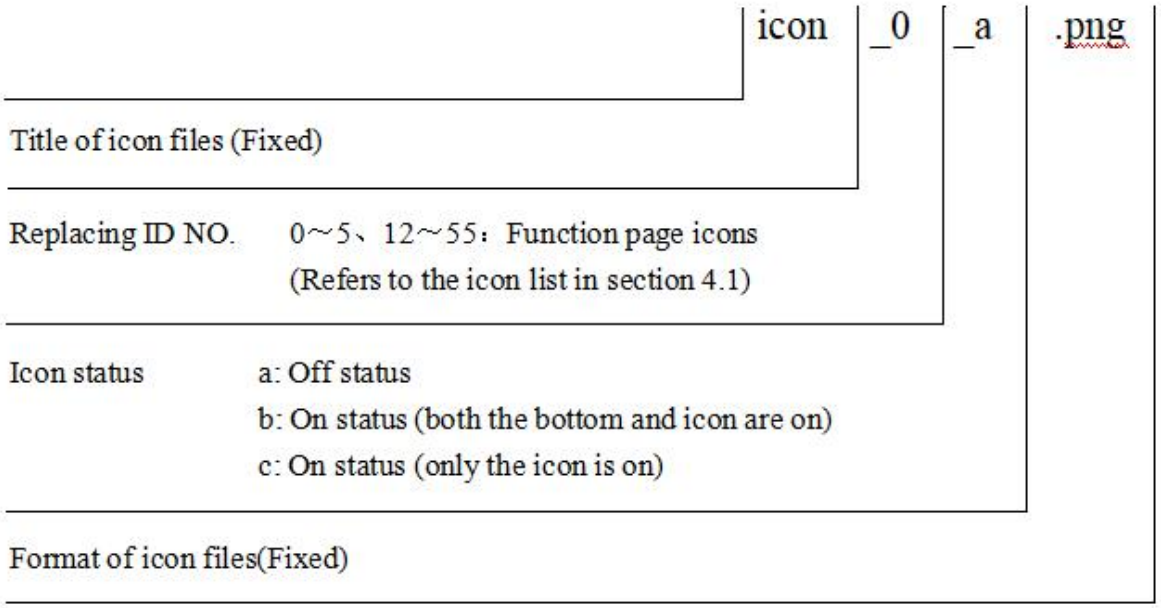
Fig.4.8

Insert customized icons to replace the original icons of the system through Micro SD card, specific steps as follows:

Note: ①Only support SDHC card and the format should be FAT32 (if the format is not FAT32, it need to be formatted as FAT32); ②Only support Micro SD cards with capacity not greater than 32GB.

Micro SD card setting: create a new folder named "Functionicon" under the root directory of Micro SD card, place icon files to be replaced and name them, specific naming rule refers to the note; the resolution should be 80*80. Only support “png” picture format.

Note: naming rule of the icon files in the Micro SD card as follows:



According to the naming rule in the figure above, for examples, icon in the Fig.4.8 is the default icon of which replacing ID number is 0, “icon_0_a.png” is off status icon,“icon_0_b.png” and “icon_0_c.png”are on status icons.

2. Insert Micro SD card into the device, if Micro SD card meet the above settings, and there are valid pictures, then pop up a window to request update, as shown in Fig.4.1;

Note: ① Replacing pictures according to the icon number of the new picture corresponding to the replacing ID number: for example, placing “icon_0_a.png”, “icon_0_b.png” and “icon_0_c.png” in the folder named

“Functionicon”, it will replace the original icon with ID NO.0; if there is no “icon_0_a.png”, which is necessary, then will not replace the icon with ID NO.0. If there are only “icon_0_a.png” and “icon_0_b.png” or only “icon_0_a.png” in the folder, the default icon will be supplemented with “icon_0_a.png”. The rest customized icon ID are the same principle.

② Update pictures: when there is a folder named “Functionicon” in the Micro SD card, and there is a picture in accordance with valid name and format, then it will update and store (even if the picture is the same as the last saved).

3. Click “Confirm” to update picture; after upgrade, there will pop up a window of the result, if upgrade is successful, then reboot the device manually to apply the new function icons to the system; if upgrade is failed, click any area outside the window to return to the page, as shown in Fig.4.2, Fig.4.3, Fig.4.4 and Fig.4.5.

4. Delete the customized function page icons that has already inserted through Micro SD card, specific steps are as follow:

When there is a folder named “Functionicon” in the Micro SD card but no picture in accordance with valid name and format, there will pop up a window “System resource recovery?”, as shown in Fig.4.6, click “Confirm”, then will delete the customized icons that has already inserted and pop up a window “ Success! please reboot...”, as shown in Fig.4.7, then you need to reboot the device manually to recover the original function icons of the system.

Note: If the total size of the valid picture in the Micro SD card is greater than 3.8MB in the same time, then will prompt that picture is invalid; if the single picture is larger than the remaining storage space of the device (the total size of the device picture storage disc is about 4 MB), the remaining valid pictures shall be stopped updating.

Chapter 5 Icons for Home Page

5.1 Icon List for Home Page

Replacing ID NO.	ETS options	Icon
70	Multi-function_default	
71	HVAC_default	No specific icon Display specific function information , such as Heating /Cooling, Fan speed,Temperature setting
72	Air Conditioner_default	No specific icon Display specific function information , such as Mode, Fan speed, Temperature setting
73	Floor heating_default	No specific icon Display specific function information , such as Heating status,Temperature setting
74	Background Music_default	
75	Air Quality_default	
76	RGB dimming_default	
77	Ventilation system_default	
78	Energy display_default	
91	Lighting	

Replacing ID NO.	ETS options	Icon
92	Scenario	
94	Shading	
100	Floor heating	
101	Water heating	
106	Ventilation system	
107	Power meter	
109	Heating	
110	Cooling	
111	Heating Cooling system	
112	Temperature	

Replacing ID NO.	ETS options	Icon	Replacing ID NO.	ETS options	Icon
113	**AV system**		**123**	**Basement**	
114	**Security**		**124**	**Office**	
115	**Bedroom 1**		**125**	**Conference room**	
116	**Bedroom 2**		**126**	**Exhibition hall**	
117	**Living room 1**		**127**	**Training room**	
118	**Living room 2**		**128**	**Warehouse**	
119	**Dinner room 1**		**129**	**Building**	
121	**Study room**		**130**	**Recreation**	
122	**Gym**		**131**	**Reception**	

5.2 Icon Replacement for Home Page

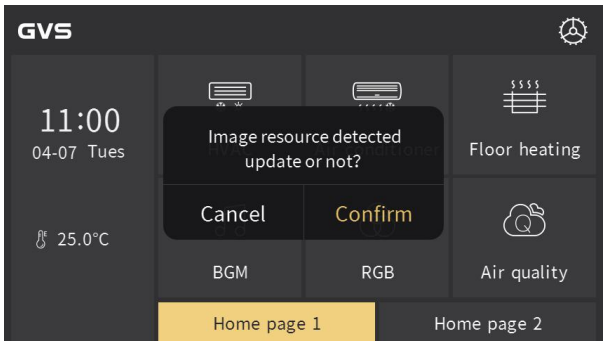


Fig.5.1

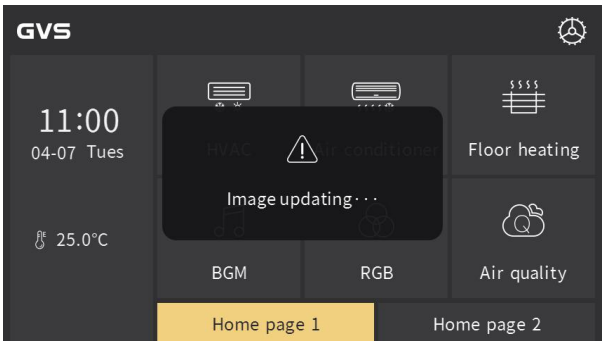


Fig.5.2

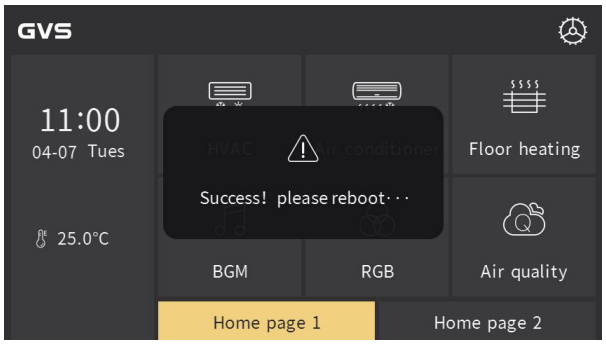


Fig.5.3

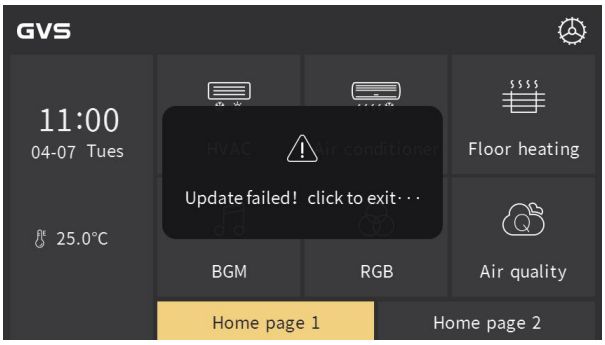


Fig.5.4

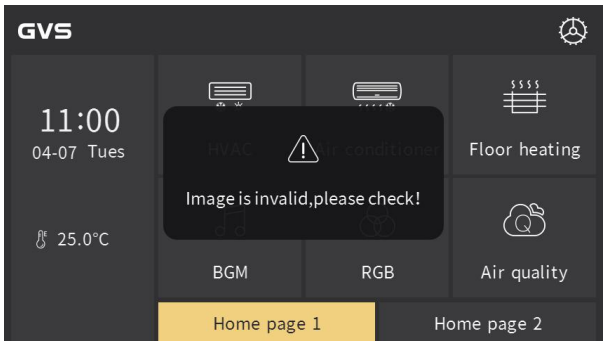


Fig.5.5

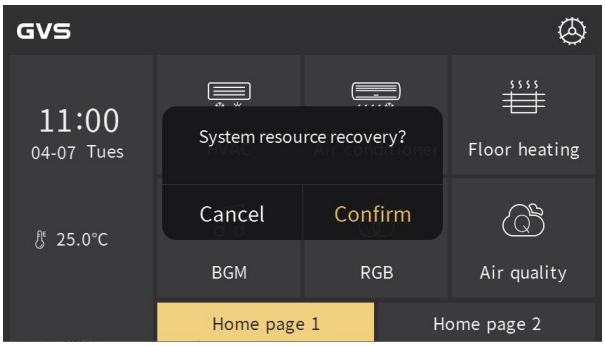


Fig.5.6

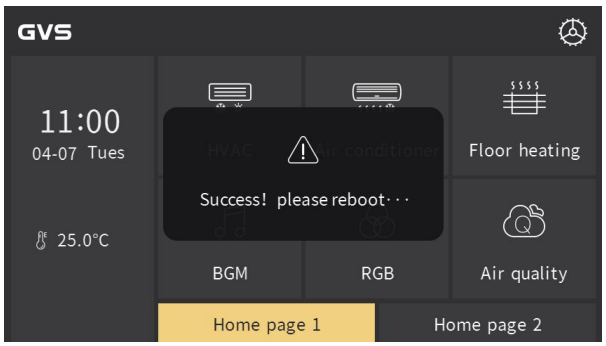
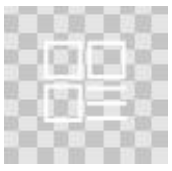
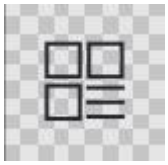


Fig.5.7



icon_70_a.png



icon_70_b.png

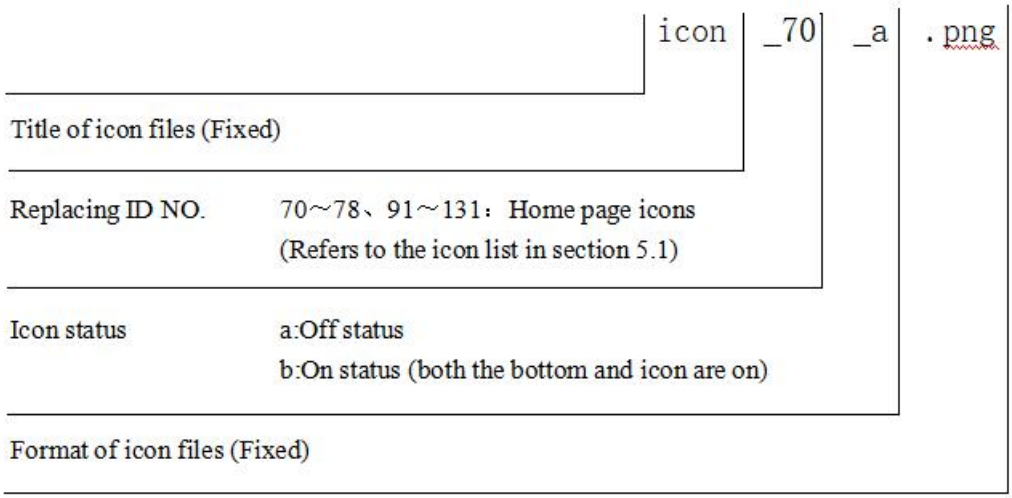
Fig.5.8

Insert customized icon to replace the original icons of the system through Micro SD card, specific steps as follows:

Note: ①Only support SDHC card and the format should be FAT32 (if the format is not FAT32, it need to be formatted as FAT32); ②Only support Micro SD cards with capacity not greater than 32GB.

1. Micro SD card setting: create a new folder named "Pageicon" under the root directory of Micro SD card , place icon files to be replaced and name them, specific naming rule refers to the note; the resolution should be 80*80. Only support "png" picture format.

Note: naming rule of the icon files in the Micro SD card as follows:



According to the naming rule in the figure above, for examples, icon in the Fig.5.8 is the default icon with replacing ID NO. 70, "icon_70_a.png" is off status icon,"icon_70_b.png" is on status icons.

2. Insert Micro SD card into the device, if Micro SD card meet the above settings, and there are valid pictures, then pop up a window to request update, as shown in Fig.5.1;

Note:① Replacing icons according to the icon number of the new picture corresponding to the replacing ID number: for example, placing "icon_70_a.png" and "icon_70_b.png" in the folder named "Pageicon", it will replace the original icon with ID NO.70; If there is only "icon_70_a.png" in the folder, the icons of on status and off status are the same. The rest customized icon ID are the same principle.

② Update pictures: when there is a folder named "Pageicon" in the Micro SD card, and there is a picture in

accordance with valid name and format, then it will update and store (even if the picture is the same as the last saved).

3. Click “Confirm” to update picture; after upgrade, there will pop up a window of the result, if upgrade is successful, reboot the device manually to apply the new page icons to the system; if upgrade is failed, click any area outside the window to return to the page, as shown in Fig.5.2, Fig.5.3, Fig.5.4 and Fig.5.5.

4. Delete the customized homepage icons that has already inserted through Micro SD card, specific steps are as follow:

When there is a folder named “Pageicon” in the Micro SD card but no picture in accordance with valid name and format, there will pop up a window “System resource recovery?”, as shown in Fig.5.6, click “Confirm”, then will delete the customized icons that has already inserted and pop up a window “ Success! please reboot...”, as shown in Fig.5.7, reboot the device manually, after reboot, it will recover the original icons of the system.

Note: If the total size of the valid picture in the Micro SD card is greater than 3.8MB in the same time, then will prompt that picture is invalid; if the single picture is larger than the remaining storage space of the device (the total size of the device picture storage disc is about 4 MB), the remaining valid pictures shall be stopped updating.