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User's Manual for Wired Controller XK55

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User's Notice

- The power supply method for all indoor units must be unified.
- Prohibit installing the wired controller at wet or sunshine places.
- Do not knock, throw or frequently disassemble the wired controller.
- Dot not operate the wired controller with wet hands.
- The photos in this instruction manual is only for reference, Please refer to the actual products for the final effect.
- In one system network, you must set one indoor unit as the master indoor unit. Others are slave indoor unit.
- The operation mode for the system is basing on that of master indoor unit. Master indoor unit can switch the mode freely, while slave indoor unit can't switch to the mode which will conflict with the master indoor unit.
- When the operation mode of indoor unit is conflicting with that of system because the master indoor unit is changing mode, the operation mode of slave indoor unit will switch to the operation mode of system automatically.
- When two wired controllers control one (or more) indoor unit(s), the address of wired controller should be different.
- Functions with "*" are optional for indoor units. If a function is not included in an indoor unit, wired controller can't set the function, or setting of this function is invalid to the indoor unit

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1 Installation Instruction

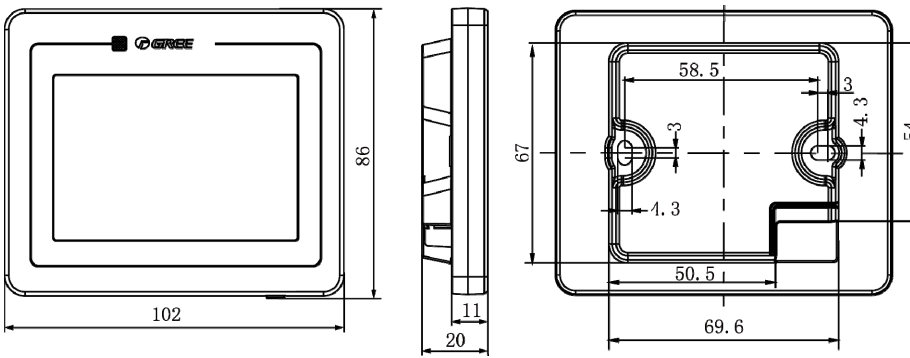


Fig 1.1 Dimension of wired controller

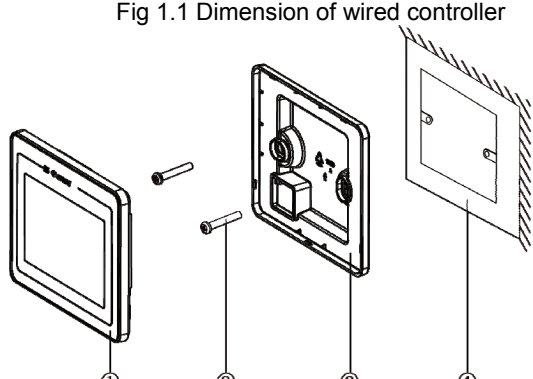


Fig 1.2 Wired controller parts

No.	1	2	3	4
Name	Panel of wired controller	Screw M4X25	Soleplate of wire controller	Terminal box installed in the wall
Q'ty	1	2	1	Provided by user

1.1 Selection requirement for communication wire

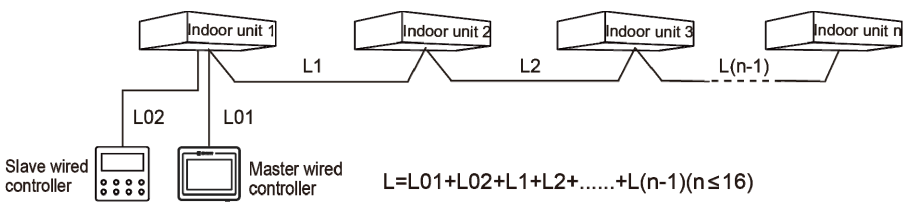


Fig 1.3 Length of communication wire

Wire material type	Total length of communication line between indoor unit and wired controller L (m)	Wire size (mm^2)	Material standard	Remarks
Light/Ordinary Polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53)	L⩽250	2×0.75~ 2×1.25	IEC 60227-5: 2007	1. Total length of communication line can't exceed 250m. 2. The cord shall be Circular cord (the cores shall be twisted together). 3. If unit is installed in places with intense magnetic field or strong interference, it is necessary to use shielded wire.

⚠Caution:

① If the air conditioner is installed the place with strong magnetic interference, the communication wire of wired controller must use shielding twisted pair wire.

② The communication wire of the wired controller must be selected according to this manual. Prohibit selecting the communication wire which is not comply with the requirement of this manual.

③ When operating two wire controllers, master wired controller and slave wired controller can't be this wire controller.

1.2 Installation requirement

(1). Prohibit installing the wired controller at wet place.

(2). Prohibit installing the wired controller at sunshine place.

(3). Prohibit installing the wired controller at the place where is closing to high-temperature objects or with splashing water.

(4). Prohibit installing the wired controller at the place where is facing to the window to prevent the interference from the same model remote controller in neighbor.

1.3 Wiring requirement

There are four kinds of wiring method for wired controller and indoor unit:

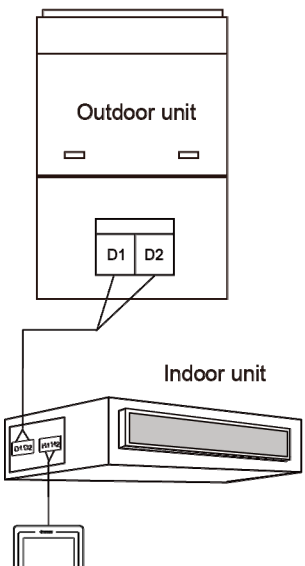


Fig 1.4 One wired controller controls one indoor unit

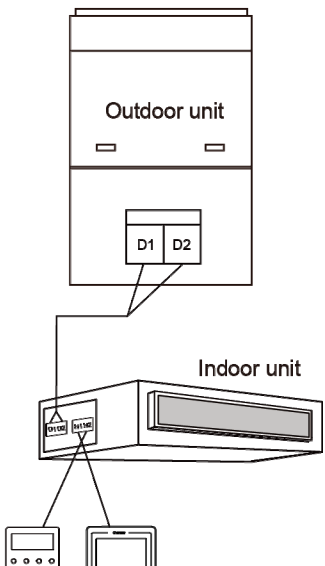


Fig 1.5 Two wires controllers control one indoor unit

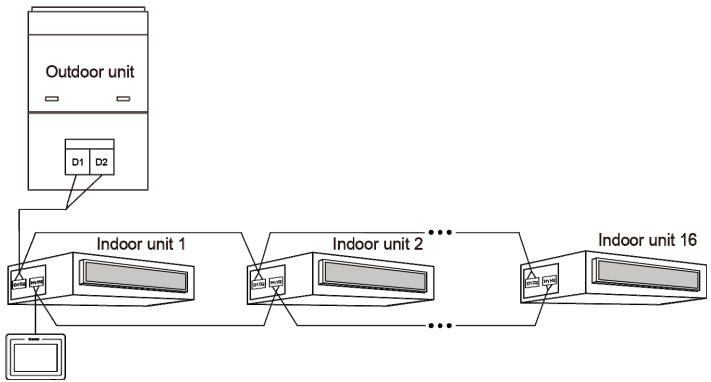


Fig 1.6 One wired controller controls more indoor units simultaneously

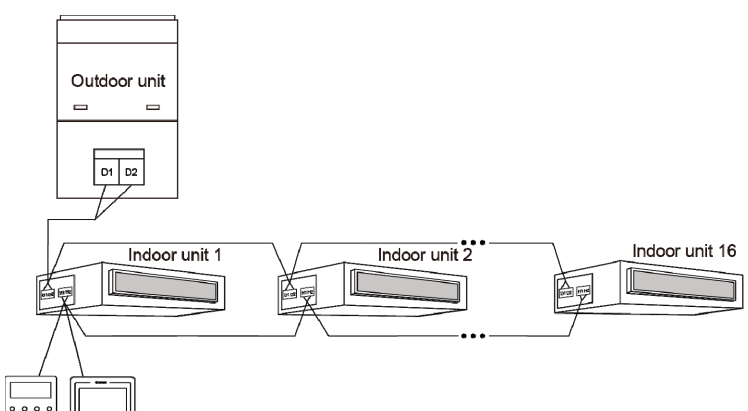


Fig 1.7 Two wired controllers control more indoor units simultaneously

Wiring instruction:

(1). When one wired controller controls more indoor units at the same time, wired controller can be connected to any one indoor unit and the connected indoor unit should be in the same series. The maximum quantity of indoor units controlled by the wired controller can't exceed 16 sets and the connected indoor units should be in the same system. Wired controller should set the Number of IDUs. Please refer to 3.2.12 Engineering Setting Page for the detailed setting method.

(2). When two wired controllers control one indoor unit, the addresses for those two wired controllers should be different. Please refer to the page of Engineering Setting for the address of wired controller.

(3). When two wired controllers control more indoor units, the wired controller can be connected to any one indoor unit. The connected indoor unit should be in the same series. The addresses for those two wire controllers should be different (set at 3.2.12 Engineering Setting page). The maximum quantity of indoor units controlled by the wired controller can't exceed 16 sets and the connected indoor units should be in the same system. Wired controller should set the Number of IDUs. Please refer to 3.2.12 Engineering Setting Page for the detailed setting method.

(4). When one (or two) wired controller (s) control (s) more indoor units, the setting for the controlled indoor unit should be the same.

(5). The wiring between wired controller and indoor unit must be according the wiring method of fig 1.4-1.7. In the wiring method of fig 1.5 and fig 1.7, only one master wired controller (address 1) and one slave wired controller (address 2) can be

set. The quantity of wired controller can't exceed two.

⚠ **Note:**

Series of indoor units include: ①Common Multi VRF Units; ②Fresh Air Units; ③Double-heat Sources Units; ④ Combined Units; Except for fresh air units, double-heat sources units and combined units, the rest of indoor units belong to common multi VRF units.

1.4 Installation

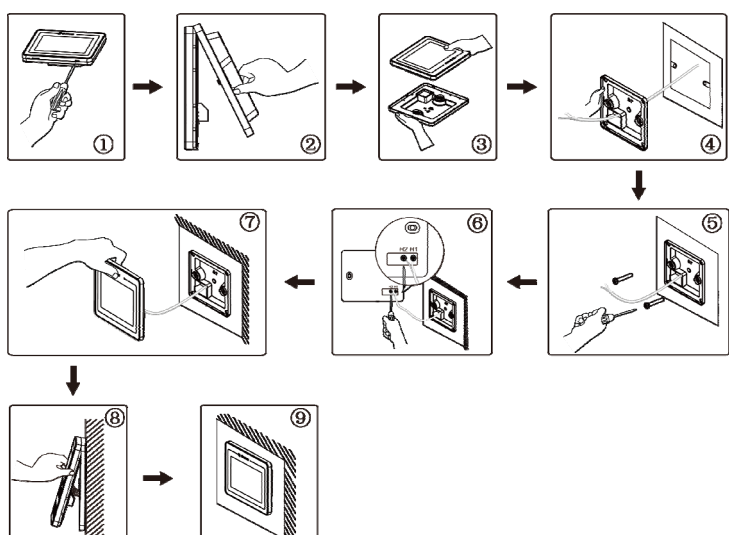


Fig 1.8 Installation sketch map of wired controller

Please pay attention to below items:

(1). Please disconnect the power support for indoor unit before installation. The power must be disconnected during the whole installation process.

(2). Pull out the 2-core dual twisted pair wire from the installation hole on wall and then pull it through the wiring hole at the back of soleplate plate of wired controller.

(3). Stick the soleplate on the wall and then use screw M4X25 to fix sole plate and installation hole on the wall together.

(4). Connect the two-core twisted pair wire to H1 and H2 wiring terminal and then tighten screws.

(5). Finally, bind the panel of wired controller and sole plate of wired controller together.

1.5 Disassembly

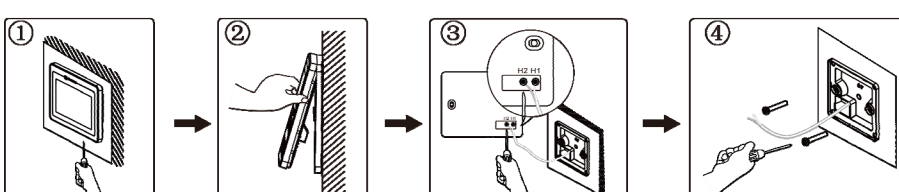


Fig 1.9 Disassembly sketch map of wired controller

2 Display Instruction

2.1 Outside view

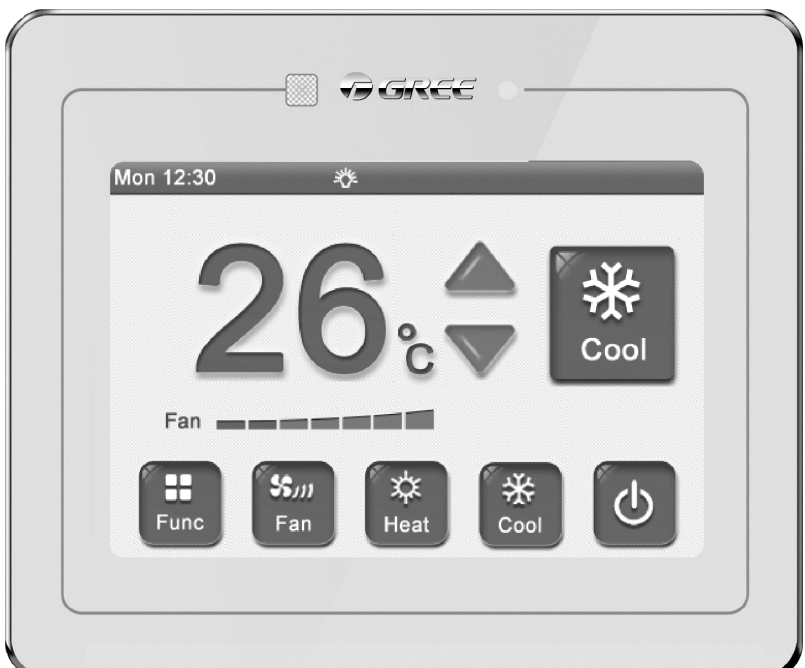


Fig 2.1 Appearance of wired controller

2.2 Buttons instruction

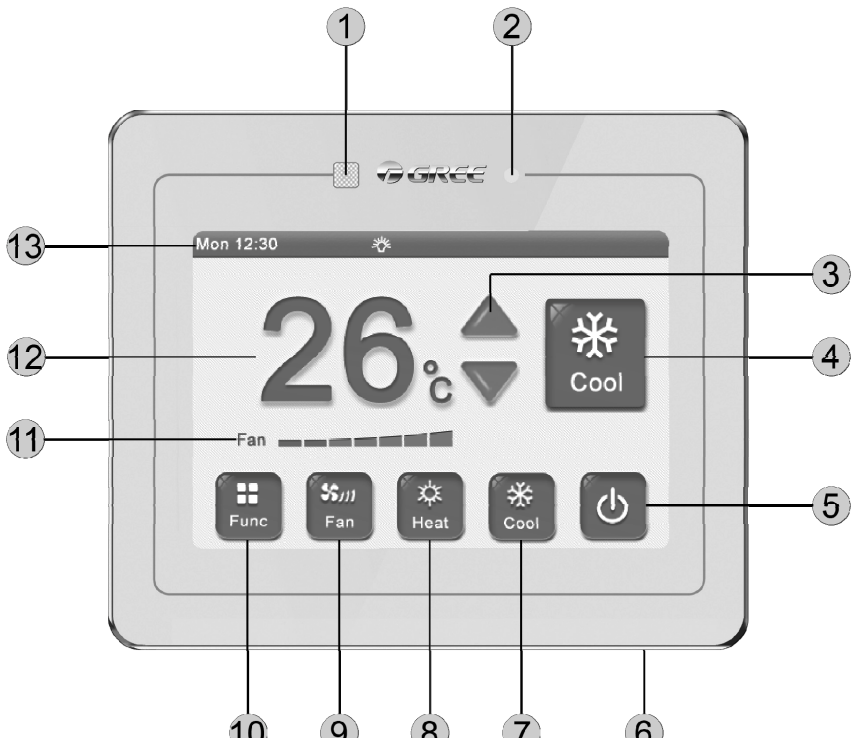


Fig 2.2 Button diagram

Button instruction

Number	Name	Definition
1	Receiving window of remote control signal	It's used for receiving the signal of remote controller
2	ON/OFF indicator	Red color indicates the unit is off and white color indicates the unit is on
3	Temp button	It's used for adjusting operating temperature
4	Mode button	It's used for switching operating mode
5	ON/OFF button	It's used for turning on or turning off the unit
6	Slight touch button	Short press this button to switch on/off status Long press this button for 5s to resume touch screen and LCD
7	Cooling button	It's used for selecting cooling mode
8	Heating mode	It's used for selecting heating mode
9	Fan button	It's used for switching fan speed
10	Function button	It's used for entering into next page
11	Status column	It' used for displaying time and starting up functions
12	Temperature display	It's used for displaying temperature
13	Fan speed display	It's used for display set fan speed

2.3 Icon instruction

Mode (base on the indoor unit)			
Display	Definition	Display	Definition
	Auto *		Cooling
	Dry		Fan
	Heating		Floor heating *
	3D heating *		Space heating *

Function, status			
Display	Definition	Display	Definition
	Air *		Gate-control
	Clean		Comfort(Reserved function)
	E-heater *		Error
	Health *		Defrost
	12-drying		Light
	Left&right swing *		Master indoor unit
	Memory		Absence
	Rapid		Quiet
	Save		Shield
	Slave wired controller		Sleep
	Timer		Up&down swing
	X-fan		Group control

3 Operation Instruction

3.1 Summary

This wired controller adopts 3.5 inch high-resolution lattice liquid crystal display, with capacitor type touch screen. Meanwhile, it's with a slightly touch button used for turning on or turning off the unit, convenient for installation:

(1). Separation of function pages are realized for clear demonstration and high readability.

(2). Except the homepage column, there's view page for viewing the operation status.

(3). It is with multiple timer function. You can set three weekly timers and one countdown timer simultaneously. Under weekly timer, you can preset unit-on mode, fan speed, set temperature and repeat days.

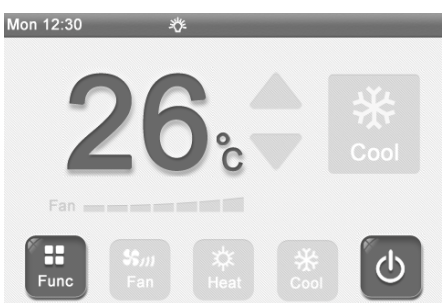
(4). You can set backlight time, lightness, language, etc..

(5). When there's no operation, it will enter into sleep mode automatically, only ON/OFF indicator is on (white indicator is on when the unit is turned on and the red indicator is on when the unit is turned off), which can not only save energy, but also not affect sleep. At the same time, you can also turn on the ON/OFF indicator through light function.

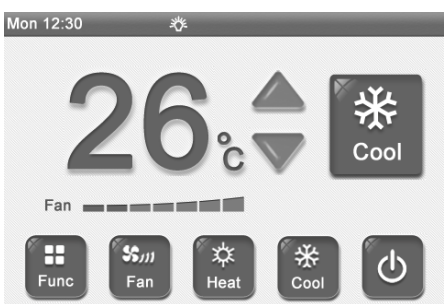
3.2 Page instruction

This wired controller is with clock time display function. For the first operation, if the system time is different from the current time. You can adjust the time on the setting page in order to ensure the accuracy of timer operation. Meanwhile, you can change backlight time, lightness, sound and language according to individual habit. The instruction for the detailed operation is as below.

3.2.1 Homepage



Unit is turned off



Unit is turned on

When turning on the unit, press mode button to switch the mode. After each pressing of the button, the mode will change in the sequence as below:

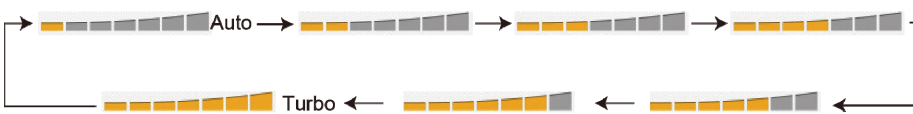
Auto-> Cooling-> Dry-> Fan-> Heating-> Floor heating-> 3D heating-> Space heating-> Auto

Note: Auto mode is only invalid for the indoor unit under main mode.

- After turning on the unit, press ▲ ▼ to adjust operating temperature and the temperature setting range is 16℃~30℃.

Note: Under auto mode, the temperature adjust button is invalid.

- Press ON/OFF button to turn on or turn off the unit.
- After turning on the unit, press Fan to select fan speed. After each pressing of that button, the fan speed will change in below sequence:



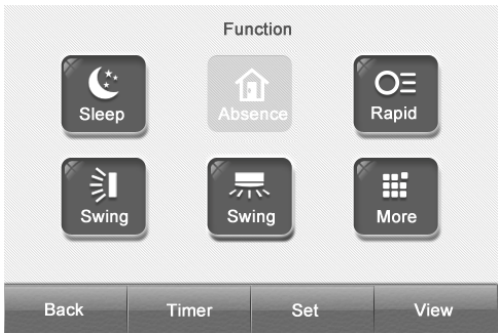
Note:

① Under drying mode, the fan speed is defaulted at low speed and it can't be adjusted.

② Under floor heating mode, the fan speed is invalid.

- Press function button to enter into function page.

3.2.2 Function page



Sleep function: Indoor unit will enter into sleeping operation status. It will operate according to the preset sleeping temperature curve to create comfortable sleeping ambient for improving sleeping quality.

Absence function: Maintain indoor ambient temperature and keep the rapid heating after the unit is turned on. Absence function can only started up under heating mode.

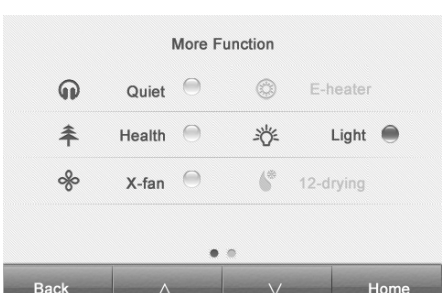
Rapid function: Decrease or increase temperature rapidly to reach to the set value when turning on the unit for improving comfort. Rapid function can only be started up under cooling or heating mode.

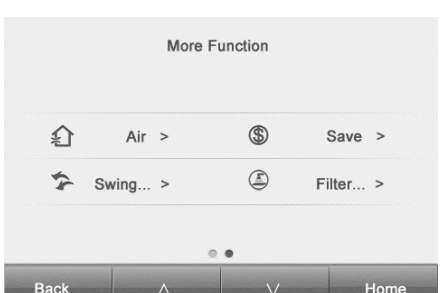
Swing function: It used to turn on or turn off swing function.

- After turning on the unit, press Sleep to turn on or turn off sleep function. Sleep function is invalid under auto, fan and floor heating mode.

- When the unit is operating under cooling or heating mode, press Rapid to start up or turn off rapid function.
- After the unit is turned on under heating mode, press Absence to turn on or turn off absence function. After absence function is started up, the set temperature on homepage displays 8℃.
- After turning on the unit, press Swing to turn on or turn off swing function (normal swing function).
- Press Timer to enter into timer page.
- Press More to enter into more functions operation.
- Preset Set to enter into set page.
- Press View to enter into view page.
- Press Back to turn back to previous page.

3.2.3 More function page





Quiet function: Reduce the noise of indoor unit. There are two kinds of mode for quiet function: quiet and auto quiet. Quiet function is not valid under auto, cooling, drying, fan, heating, 3D heating or space heating mode.

E-heater function*: Under drying mode, auxiliary electric heating is allowed to be turned on to increase air outlet temperature and improve the comfort. Under heating or 3D space heating mode, the auxiliary electric heating is allowed to be turned on for improving heating efficiency. Under heating or 3D space heating mode, turn off the auxiliary heating to save energy.

Health function*：Turn on or turn off the health function.

Light function：Turn on or turn off the light on indoor unit.

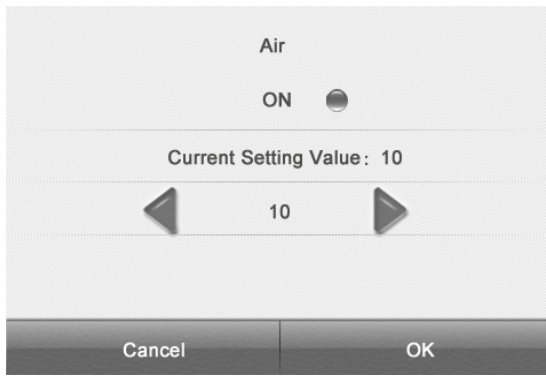
X-fan function：Dry the left water on the evaporator after turning off the unit to prevent mildew.

12-drying function: it can only be started up under dry mode. The set temperature on the homepage displays 12℃.

- Press ∧ or ∨ to switch functions.
- Press corresponding function button to turn on or turn off this function, or enter into the setting page.

Note: Operation is not available for the light black items, which indicates this function is invalid, such as the icon of E-heater.

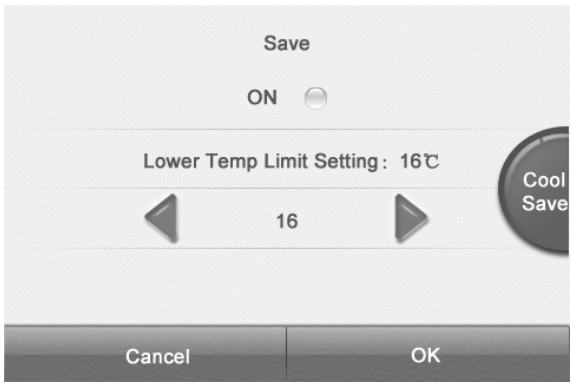
3.2.4 Air function page*



Air function: Improve air quality through adjust indoor fresh air volume.

- Press ON to turn on or turn off the air function.
- Press ◄ ► to set the air grade.

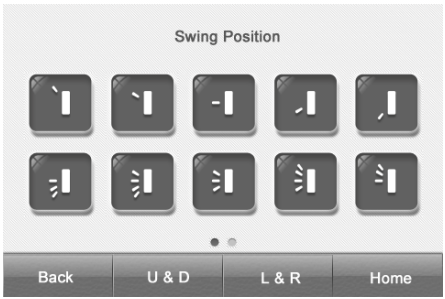
3.2.5 Save function page

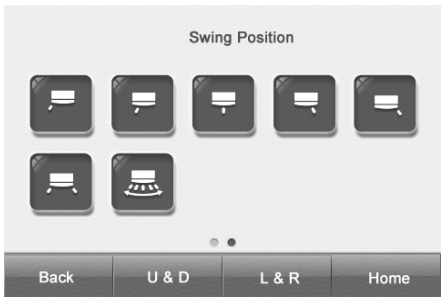


Save function: Set temperature lower limit under cooling or drying mode or temperature upper limit for heating or 3D heating or space heating mode to let the air conditioner operate at appointed temperature range for saving energy.

- Press ON to turn on or turn off save function.
- Press ◄ ► to adjust the limit temperature.
- Press save mode to switch different kinds of mode.

3.2.6 Fix-angle swing page

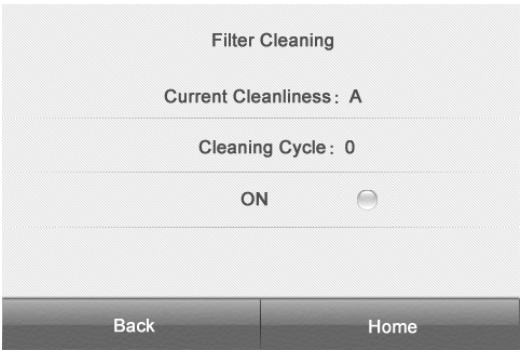




Fixed-angle swing function：It used for setting the swing position for up&down swing or left&right swing.

- Press U & D to switch up&down swing.
- Press L & R to switch left&right swing.
- Press your required swing position to start up corresponding swing function.

3.2.7 Filter cleaning page



The prompting function for filter cleaning: The air conditioning unit can record its operation time. When it is at setting time, it will remind the user to clean filter so as to avoid filth blockage of filter without cleaning for a long time. The filth blockage of filter will lead to bad effect of cooling and heating function, abnormal protection and bacteria-collecting, etc.

The prompting time for cleaning varies from different cleaning degree of current ambient and cleaning frequency. The following four conditions are classified as:

(1). Not set cleaning alarm function and the start button won't be bright.

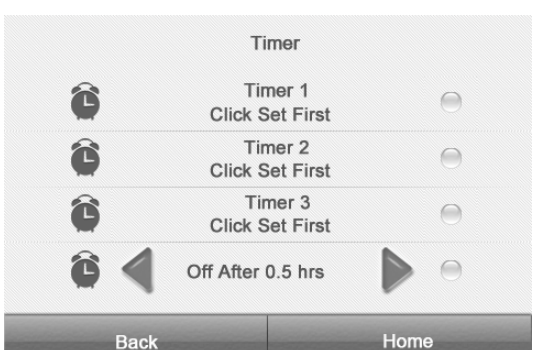
(2). Slight pollution (A): when the cleaning frequency is "0", it represents its accumulative operation time is 5500 hours. For every "1" increases, the accumulative operation time adds 500 hours. When the cleaning frequency is "9", the accumulative operation time is 10000 hours.

(3). Moderate pollution (B): when the cleaning frequency is “0”, it represents its accumulative operation time is 1400 hours. For every “1” increases, the accumulative operation time adds 400 hours. When the cleaning frequency is “9”, the accumulative operation time is 5000 hours.

(4). Severe pollution (C): when the cleaning frequency is “0”, it represents its accumulative operation time is 100 hours. For every “1” increases, the accumulative operation time adds 100 hours. When the cleaning frequency is “9”, the accumulative operation time is 1000 hours.

- Click Current Cleanliness to enter the setting of cleaning degree.
- Click Cleaning Cycle to enter frequency setting.
- Click ON to turn on or turn off filter cleaning function.

3.2.8 Timer function page



The timer can be set whenever the unit is turned on or turned off. Three weekly timers and one countdown timer can be chosen freely.

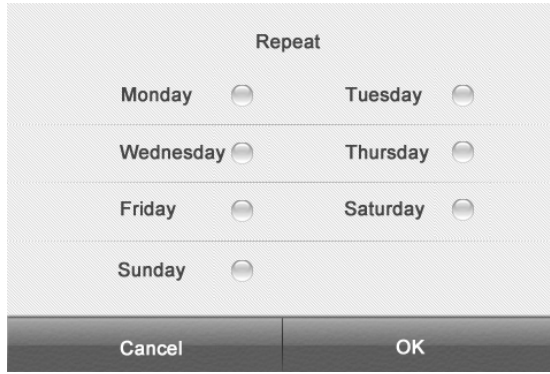
In order to maintain the accuracy of time, please check the system time whether to be the current time before setting up timing. If the system time is incorrect, reset it in the date and time.

- Click Timer * to enter the corresponding timer setting page.
- Click  to open or close the corresponding timing.
- Click ◄ ► to adjust the timing for count down.
- Click Back to return to the previous page.
- Click Home to directly return to homepage.

3.2.9 Weekly timer setting page

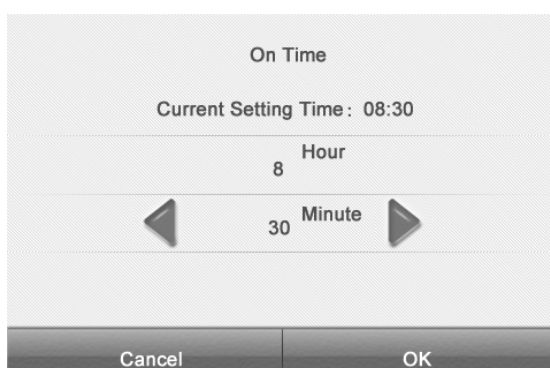
Timer 1, 2, 3 is the weekly timer. We can set the mode, setting temperature, fan speed and repeat days when setting the function of timer on. If you want to set timer on/timer off, you can only have to activate the time of turn on/timer off; If you want the timer on and timer off are valid simultaneously, you can activate the time for timer on and timer off. If you want the timer is valid in appointed days, you can select the days in Repeat.

- Click On Time* to set the timer for turning on the unit.
- Click Off Time* to set the timer for turning off the unit.
- Click  to turn on or turn off the relevant options.
- Click ▲ ▼ to set the temperature when turn on the unit.
- Click Mode to set the mode when turn on the unit.
- Click Fan to set the speed when turn on the unit.
- Click OK to save current timer setting and return to the previous page.
- Click Cancel, it will not save the setting and directly return to previous page.
- Click Repeat to set repeat days (shown as below):



In this case, you can tick the days for repeat operation.

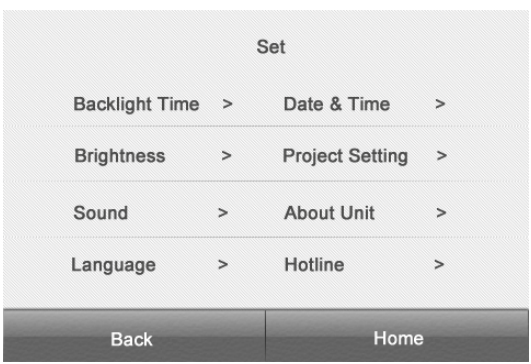
3.2.10 Time setting page



It is used for setting hour and second individually and show the current value through the display so as to read conveniently.

- Click * Hour to set the accurate hour.
- Click * Minute to set the accurate minute.
- Click ◄ ► to adjust the number value.
- If it belongs to a 12-hour clock. Click forenoon to choose afternoon, otherwise or not.

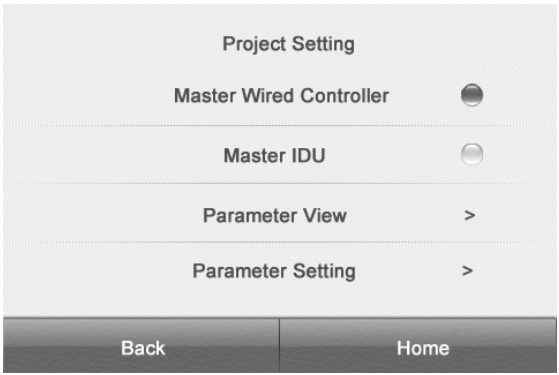
3.2.11 Setting page



It is used for setting the personalize function and content of engineering debugging.

- Click the corresponding setting items to enter the setting page of this function.

3.2.12 Engineering setting page



It is used for engineering debugging.

- Click the Master Wired Controller for turning up or turn off the master wired controller function.
- Click the Master IDU for turning up the indoor units function of main mode.
- Click Parameter View to enter the parameter inquiry page.
- Click Parameter Setting to enter the parameter setting page.

Note: The parameter setting is valid only if the master controller turns on.

Introduction on each setting parameter

Setting items	Setting scope	Acquiesce	Remarks
High Ceiling Installation	Turn on, turn off	turn off	Only applicable to cassette units
Prior Operation	Turn on, turn off	turn off	If the power supply is not enough, we permit giving priority on operation of indoor units to turn on/off. Other indoor units will turn off compulsively.
Use Remoter	Turn on, turn off	turn on	
Link with Fresh Air IDU*	Turn on, turn off	turn off	After setting linkage function, the new duct indoor unit will turn on or turn off automatically according to the turn on/off of ordinary indoor units, meanwhile we can turn on/off manually. **Note:** It is only applicable for new duct indoor units.
Indoor Fan Static Pressure	1~9	5	5 speed：3、4、5、6、7 9 speed：1、2、3、4、5、6、7、8、9
Number of IDUs	0: this function is forbidden 1-16: Numbers of indoor units	1	Set the relevant value according to the number of indoor unit received.

Angle of Air Return Board	Angle 1 Angle 2 Angle 3	Angle 1	Only applicable to units with Air Return Board.
Auto Temp	Automatic cooling：17℃～30℃ Automatic heating：16℃～29℃	Automatic cooling：25℃ Automatic heating：20℃	Cooling setting temperature - Heating setting temperature≥1.
Clear Filter Cleaning Time	Clear, not clear	not clear	
Fresh Air IDU Output Temp*	cooling：16℃~30℃ heating：16℃~30℃	cooling：18℃ heating：22℃	It is only applicable for new duct indoor units.

Note: After entering the parameter setting page, the remote controller signal is invalid.

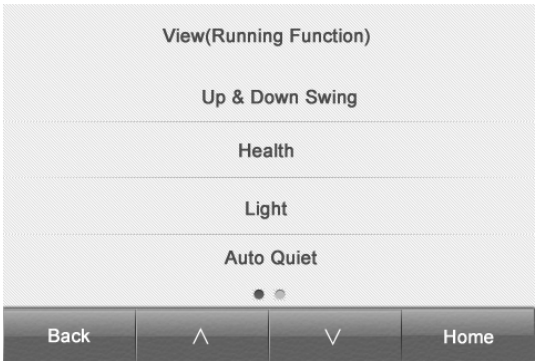
Introduction for parameters view

Parameter name	Display scope	Parameter name	Display scope
Number of IDUs	1~16	Filter Dirty Alarm	Actual value
Cool & Heat Modes	cool only, heat only, cool & heat, fan	Max Distribution Ratio	135%、150%、110%
Master IDU's Project No.	1~255	Wired Controller's Address	1、2
Online IDUs	1~80	CAN2 Address	1~255
Error IDU Location & IDU Project No.	1~255	IDU Error Log	5 historical defaults
IDU Capacity	Actual value	Prior Operation	Yes, no
EXV Status	0~20	View All IDU Project No.	1~255
Room Temp	-9~99℃	Inlet Temp	-9~99℃
Outlet Temp	-9~99℃	Relative Humidity	Actual value
Fresh Air IDU Output Temp	Actual value	ODU Static Pressure Setting	0、20、50、80
ODU Error Log	5 historical defaults		
The following parameter can be viewed only if the master wired controller is turned on .			
Unit Code	0~9，A~Z，a~z,-	Main Board Code	0~9，A~Z，a~z,-
Module HP	-40~70℃	Module LP	-69~38℃
Outdoor Temp	-30~139℃	Defrosting Temp	-30~139℃

Oil Return Temp	-30~139℃	Separator Outlet Temp	-30~139℃
ODU Heat EXV1	0~48	ODU Heat EXV2	0~48
Subcooler EXV	0~48	Subcooler Liquid Temp	-30~139℃
ODU Fan Operation Freq	0~100Hz	Comp1 Operation Freq	0~200Hz
Comp2 Operation Freq	0~200Hz	Comp3 Operation Freq	0~200Hz
Comp1 Discharge Temp	-30~150℃	Comp2 Discharge Temp	-30~150℃
Comp3 Discharge Temp	-30~150℃	Comp4 Discharge Temp	-30~150℃
Comp5 Discharge Temp	-30~150℃	Comp6 Discharge Temp	-30~150℃
Condenser Inlet Temp	-30～139℃	Condenser Outlet Temp	-30～139℃

Note: After entering the parameter viewing page, the remote controller signal is invalid.

3.2.13 View page



It is used for displaying the current operation function so as to let you learn the units status at the first time.

- Press ∧ or ∨ to switch page.

4 Special function explanation

4.1 Remote shield function

Remote shield function: Remote control or integrated controller can shield the remote control of relevant function of wired controller or button operation. Its operation is invalid so as to realize the function of remote control.

Remote shield function is divided into whole shield and partial shield. When it is whole shield, the operation towards remote control of wired controller or button

operation are invalid. When it is partial shield, the operation towards remote control of conductively-closed function of wired controller or button operation are invalid.

When remote control or integrated controller is conducting remote shield towards wire controller, the main page status bar will display . When the user is conducting remote control or key button operation towards wire controller, it indicates the operation is invalid.

4.2 Entrance guard display function

When there is access control system, the wired controller has the functions that if you insert card, it will begin operation and if you pull out the card, it will stop operation. After pulling out, it will memorize and restore the work if you insert the card again. If you do not insert the card (or imperfect contact of the card), the symbol for pulling out the card will be displayed, neither remote control nor operation of wired controller will be effective and icon will be flickering.

Note: This model cannot be connected with gate control system on its own because it cannot detect gate control signal directly. To realize gate control display and gate control function, it has to be used with wired controller that includes gate control signal detecting function (used as master and salve wired controller).

5 Abnormal code

When there is any abnormalities occur during system operation, the main interface of wired controller will show multifunction icon(!), the specific code and indoor units located so as to let you understand the operation status of air conditioner at first time.

Note: Please turn off the unit when malfunction occur and ask for profession staff for maintenance.

5.1 Code table for outdoor units malfunction

Code	content	Code	content	Code	content
E0	Outdoor units malfunction	FP	Malfunction of DC motor	b4	Subcooler liquid outlet temperature sensor malfunction
E1	High pressure protection	FU	Shell roof temperature sensor malfunction of compressor 1	b5	Subcooler air outlet temperature sensor malfunction
E2	Discharge low temperature protection	Fb	Shell roof temperature sensor malfunction of compressor 2	b6	Steam split inlet temperature sensor malfunction
E3	Low pressure protection	J1	Overcurrent protection of compressor 1	b7	Steam split outlet temperature sensor malfunction
E4	High discharge temperature protection of compressor	J2	Overcurrent protection of compressor 2	b8	Outdoor temperature sensor malfunction

F0	Imperfect main board of outdoor units	J3	Overcurrent protection of compressor 3	b9	Heat exchanger air outlet temperature sensor malfunction
F1	High pressure sensor malfunction	J4	Overcurrent protection of compressor 4	bA	Oil return temperature sensor malfunction
F3	Low pressure sensor malfunction	J5	Overcurrent protection of compressor 5	bH	Systematic hour abnormality
F5	Discharge temperature sensor malfunction of compressor 1	J6	Overcurrent protection of compressor 6	bC	Shell roof temperature sensor abscission protection of compressor 1
F6	Discharge temperature sensor malfunction of compressor 2	J7	Back flow protection of four-way valve	bL	Shell roof temperature sensor abscission protection of compressor 2
F7	Discharge temperature sensor malfunction of compressor 3	J8	High systematic pressure ratio protection	bE	Malfunction of inlet tube temperature sensor of condenser
F8	Discharge temperature sensor malfunction of compressor 4	J9	Low systematic pressure ratio protection	bF	Malfunction of outlet tube temperature sensor of condenser
F9	Discharge temperature sensor malfunction of compressor 5	JA	Abnormal pressure	bJ	High and low pressure sensors are connected inversely
FA	Discharge temperature sensor malfunction of compressor 6	JC	Water switch protection	P0	Driver board malfunction of compressor

FH	Current sensor abnormality of compressor 1	JL	Protection because high pressure is too low	P1	Driver board abnormality of compressor
FC	Current sensor abnormality of compressor 2	JE	Oil return pipe is blocked	P2	Supply voltage protection of compressor driver board
FL	Current sensor abnormality of compressor 3	JF	Oil return pipe is leaking	P3	Restoration protection of compressor driver module
FE	Current sensor abnormality of compressor 4	b1	Outdoor ambient temperature sensor malfunction	H0	Fan driver board malfunction
FF	Current sensor abnormality of compressor 5	b2	Defrosting temperature sensor 1 malfunction	H1	Fan driver board operation abnormality
FJ	Current sensor abnormality of compressor 6	b3	Defrosting temperature sensor 2 malfunction	H2	Supply voltage protection of fan driver board

5.2 Code table for indoor unit malfunction

Code	Content	Code	Content	Code	Content
L0	Indoor unit malfunction	LA	Inconsistent series of indoor units for one controlling multiple units	d7	Humidity sensor malfunction
L1	Indoor fan protection	LH	Severe turbidity of air quality alarm	d8	Water temperature sensor malfunction
L2	Auxiliary heating protection	LC	Mismatching of indoor and outdoor units' model	d9	Jumper malfunction
L3	Water full protection	LP	PG motor zero-crossing malfunction	dA	Indoor unit network address abnormality
L4	Wired Controller Power Supply Error	d1	Imperfect indoor circuit board	dH	Circuit board abnormality of wire controller
L5	Freeze prevention protection	d3	Ambient temperature sensor malfunction	dC	Setting abnormality of capacity dial-up
L7	Lacking master indoor unit	d4	Inlet temperature sensor malfunction	dL	Air outlet temperature sensor malfunction
L8	Insufficient power supply	d5	Malfunction of middle tube temperature sensor	dE	Indoor CO2 sensor malfunction
L9	Inconsistent number of indoor units for one-to-more units	d6	Outlet temperature sensor malfunction	db	Special code: engineering debugging code

5.3 Code table for debugging

Code	Content	Code	Content	Code	Content
U2	Outdoor units Capacity Code/Setting of jumper is wrong	UE	Invalid charge of refrigerant	CH	High rating capacity configuration
U3	Phase protection of power supply	UL	Dial-up error for emergent operation of compressor	CL	Low rating capacity configuration
U4	Protection of lack of Refrigerant	C0	Communication malfunction between indoor unit and outdoor unit, indoor unit and wired controller	CF	Malfunction of multiple master units
U5	The address for drive board of compressor is wrong	C2	Communication malfunction of master controller and the driver of inverter compressor	CJ	Dial-up conflict of systematic address
U6	Alarm due to abnormity of valve	C3	Drive communication malfunction between master control and inverter and inverter fan	CP	Malfunction of multiple master wired controller
U8	Malfunction of pipeline of indoor unit	C4	Indoor units deficiency malfunction	CU	Communication malfunction between indoor units and received lamp panel
U9	Malfunction of pipeline of outdoor unit	C5	Number conflict of indoor units engineering alarm	Cb	Address overflow of units IP
UC	Setting successfully for main indoor units	C6	Inconsistency of outdoor units number alarm		

5.4 Code table for state

Code	Content	Code	Content
A0	Unit is on standby for debugging	AU	Long-distance stop operation due to emergency
A1	Inquiry on operation parameter of press	Ab	Stop operation due to emergency status
A2	Recovery operation of refrigerant after sales	Ad	Limited operation
A3	Defrosting	An	High temperature prevention control
A4	Oil return	n3	Compulsory defrosting
A5	Online test	n5	Engineering series number of indoor unit is deviated
A8	Vacuum pumping mode	nL	Target low pressure modification
AH	Heating	nJ	High temperature prevention under heating mode
AC	Cooling	nP	Defrosting temperature adjustable value
AF	Fan	nU	Clean the long-distance shielding order of indoor unit
AJ	Cleaning warning		

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