Haier YR-E16B Programmable Wired Controller Instruction Manual

Wired Controller
Operation & Installation Manual

- Please read this operation manual before using the air conditioner.
- Please keep this manual carefully and safely.

Contents

Parts and Functions

Interface Display

Key

Left ▬	According to the prompt message, the mode key is in the main interface and the return key in the other interface.
⌒	The intelligent key, press it to intelligent mode directly.
◀ ▶	Left/Right key, fan speed adjustment key, swing angle adjustment key in the main interface, direction adjustment key in another interface.
▲ ▼	Up/Down key, temp. adjustment key in the main interface, shift direction, and value adjustment key in another interface.
☐	Menu key in the main interface, enter key in another interface.
Right ▬	Swing the key in the main interface, back to the main interface through the key in another interface. When the swing function is invalid, press the key to adjust the fan speed.
⏻	On/Off key

Main Interface Display
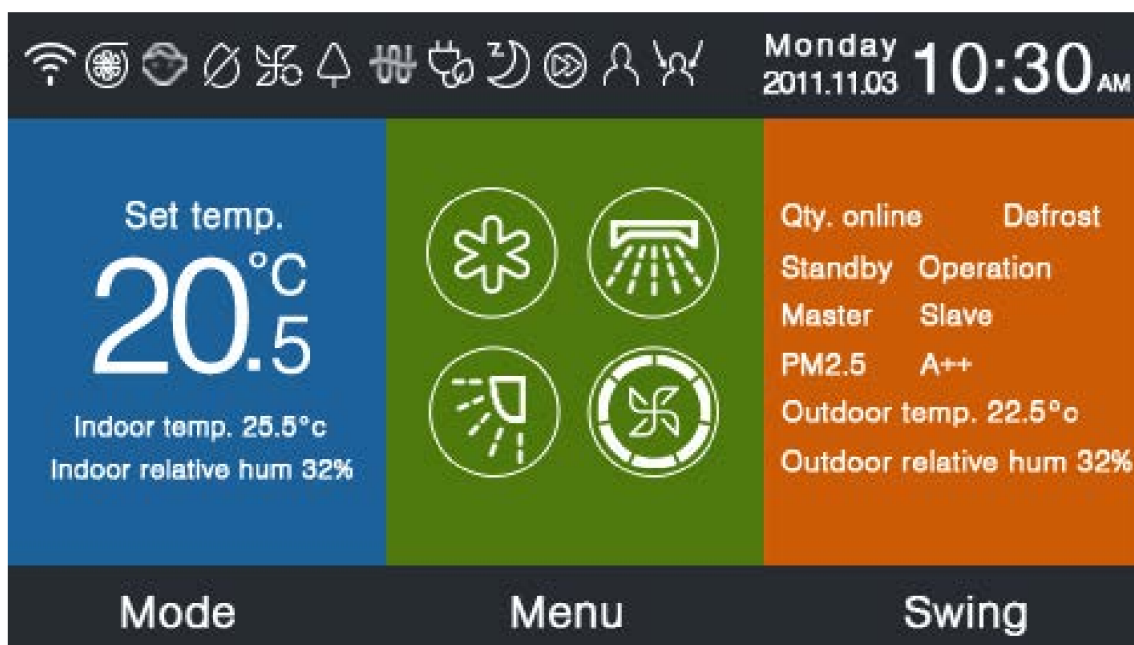
Icon Instruction:

	Quiet function.
	Turbo function.
	Child lock function. Pressing the Left and Right keys at the same time the main interface for 5s can set or cancel the function.
	Forced defrost function.
	Ventilation function
	Health function.
	Quick start function.
	Night quiet function, the function operations only in night when it is set.
	Electrical heating.
	Health airflow.

	Health airflow up.
	Health airflow down.
	Health airflow down.
	Error code function, the icon will display in the main interface when the wired controller or the indoor unit linked to the controller is malfunctioning.
	Schedule.
	Filter.
	Temp. ECO.
	Motion sensing.
	Motion sensing follows.
	Motion sensing evade.
Monday 2011.11.03 10:30 AM	Date, week, clock display area, and the type of data can be changed through the time function.
Set temp. 20.5°F	The temperature display area and set temperature can be adjusted by the Up/Down key. If energy saving function is not set, the range of set temperature is 16°C-30°C(60°F-86°F), or the adjustment range will be limited. The default lowest temp. of cooling/dry mode is 23°C(74°F), the default highest temp. of heating, the mode is 26°C (78°F). The adjustment step is 1°F when temp. is displayed in Fahrenheit, the range of set temp. is also limited by energy-saving functions.
Indoor temp. 25.5°c	In the indoor temperature display area, the value may be from the indoor unit or the wired controller, the display of this area can also be canceled through the function setting.
Indoor relative hum 32%	Indoor humidity display area.

	Mode.
		Intelligent	Cooling	Heating	Fan	Dry
	The mode cycle depends on the mode setting in the basic setting function.
	Up/Down swing and Left/Right swing function.
	Fan speed, the cycle type of fan speed can be set through a basic setting.
Qty. online	The number of indoor units linking to the wired controller.
Defrost	Defrost function.
Standby	The state of the indoor unit, this area also can display "operation".
Master	The state of the wired controller, this area also can display" slave". "Master" means the wired controller major controller, and "Slave" means the wired controller only can control parts of functions.
PM2.5 A++	Reserved function.
Outdoor temp. 22.5°F	Outdoor temperature display area. It can be set whether displayed or not.
Outdoor relative hum 32%	Outdoor humidity display area. It can be set whether displayed or not.
The above functions are only valid for parts of the model.	

Press the menu key in the main interface to the menu interface.
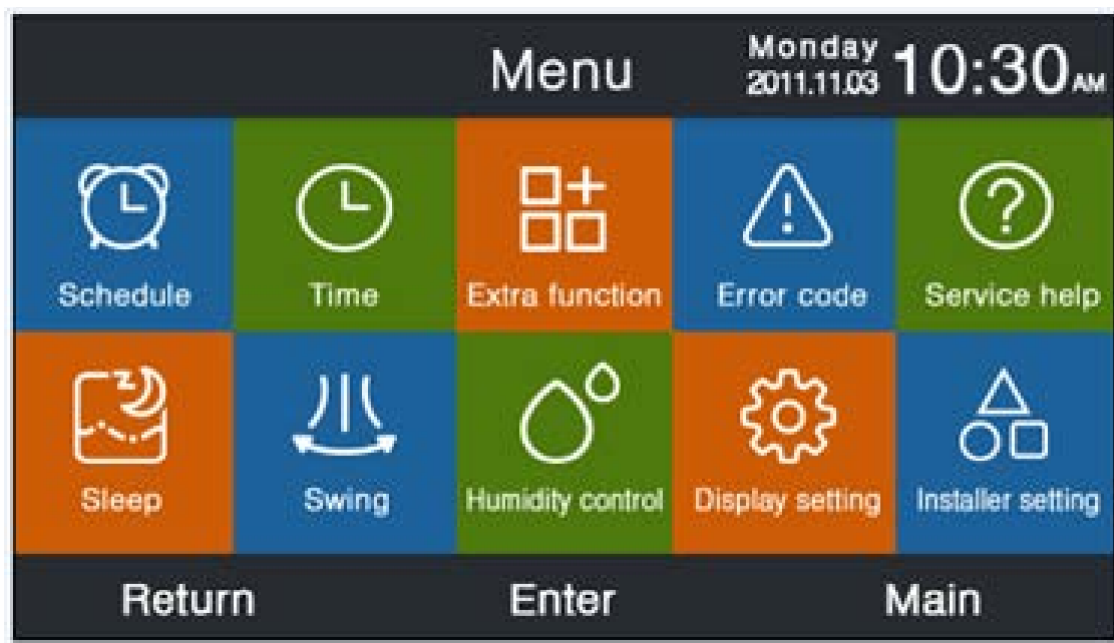
Schedule

Schedule concludes segmented timing and random timing, it can be selected through displaying sets. The default is segmented timing.

Segmented timing

1. The segmented timing will be operated only in cooling or heating mode. Time can be adjusted in 24 hours, the default format of time display is 12-hour. Temperature can be adjusted from 60°F to 86°F (16°C to 30°C), "OFF" also can be set meaning power off.
2. Firstly, the left and right arrows flash beside the time of wake-up, then press enter key, the arrows will be static, continue to press the left or right key to adjust time and enter key to confirm. Four direction keys can move the arrow when they flash.
3. Press the ok key to confirm the setting according to the prompt below the screen.
4. The default value is the same as the figure below.

5. Keep pressing the Left/Right key to accelerating time adjustment.

Random timing

1. When ⊕ flashes in the schedule adding an interface, press enter key to the setting interface.

2. Intelligent mode, 24°C(76°F), power off, 12:00, enable and weekday is the default.

3. If the schedule that is set has been set before, the interface will prompt you that the schedule is repetitive, you need to cancel it or revise relevant parameters. Press the Up/ Down key or Left/Right key to shift between "Cancel" and "Ok."

4. If the time of the timer you are setting conflicts with the existing timer off, the interface will prompt you to change the time. In the same way, the time of timer off needs to be different from the timer on. In summary, if the latter setting is conflicted with the previous, the prompting interface will display.

The Timer ON of this Unit is in conflict with the existing Timer OFF,please reset the Timer ON.

Cancel | Enter

TheTimer OFF of this Unit is in conflict with the existing Timer ON,please reset the Timer OFF.

Cancel | Enter

The Timing of this Unit has been set. Do you want to replace the previous setting?

Cancel | Enter

This Timing has been set,please revise relevant parameters.

Cancel | Enter

5. After setting, press Ok to confirm the timing and back to schedule interface simultaneously.

6. In the schedule display interface, the mode icon in white color means timer on and the gray mode icon means timer off.

Press the Up/Down key to select a different schedule, and the Left/Right key to turn the page. When the number flashes, press enter key to display the setting interface, it can be revised.

7. Celsius and Fahrenheit can be shifted from 12-hour and 24-hour also can be shifted.

8. Press enter key to delete the schedule when ⊖ flashes. The delete interface will display and then choose the number you want to delete through the direction keys and enter key.

Please select the No. you want to delete.

(all) ① ② ③ ④ ⑤ ⑥ ⑦ ⑧
⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰
⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖
㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟

Cancel | Enter
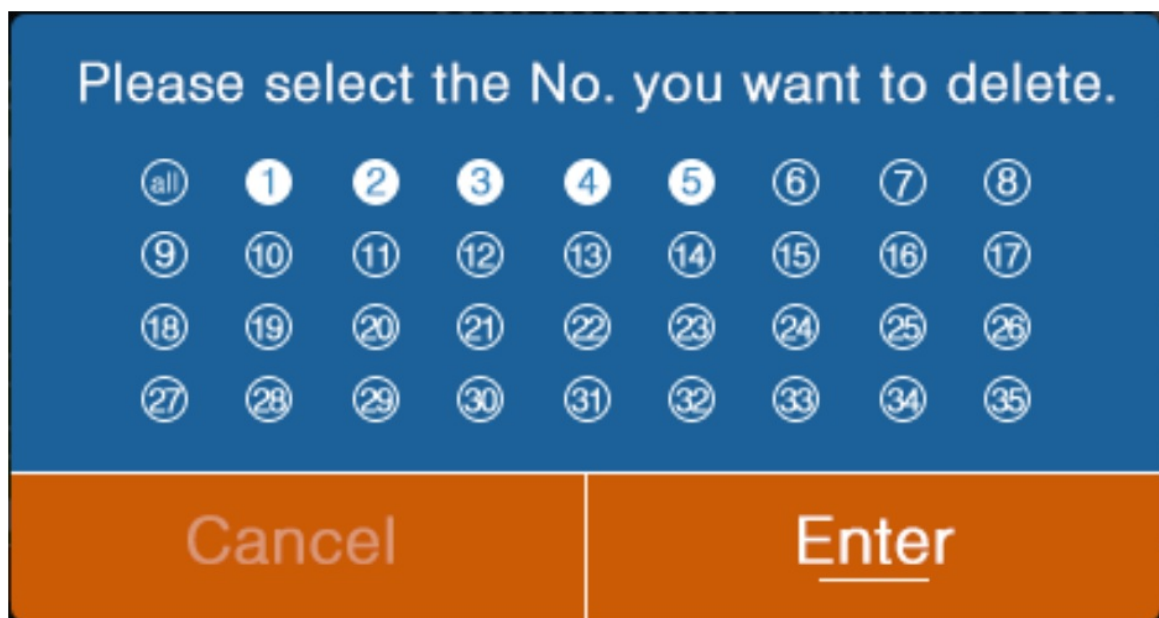
Time
When the time icon is flashing, press enters key to the time interface.

1. The default date is December 12th,2014, the time is 12:00PM and the week is Friday. the adjusting way is the same as schedule time adjusting.
2. The default format is 12-hour and Month/Day/Year.

Extra Function
Press enter key to the setting interface when the icon is flashing in the menu.

1. The default information for each function is decided by the indoor unit but child lock. The child lock function is off in default.
2. Move the arrows through the Up/Down or Left/Right key.
   Arrows will display statically when you press enter key, then press the Left/Right key to choose "ON" or "OFF". After setting, press the Up/Down key to confirm and move to the above or underneath function directly or press enter key to set again.
3. The corresponding function icon will display in the main interface when setting any function in an extra function.
4. Some functions are reserved for parts of models, the information is gray. Turbo and Quiet functions are conflicting, the latter setting will cancel the former. The same to health airflow up and down.
5. When the child lock is set ON, the interface skips to the main automatically, the function also can be set or canceled by pressing the Left and Right keys together for 5s in the main interface.
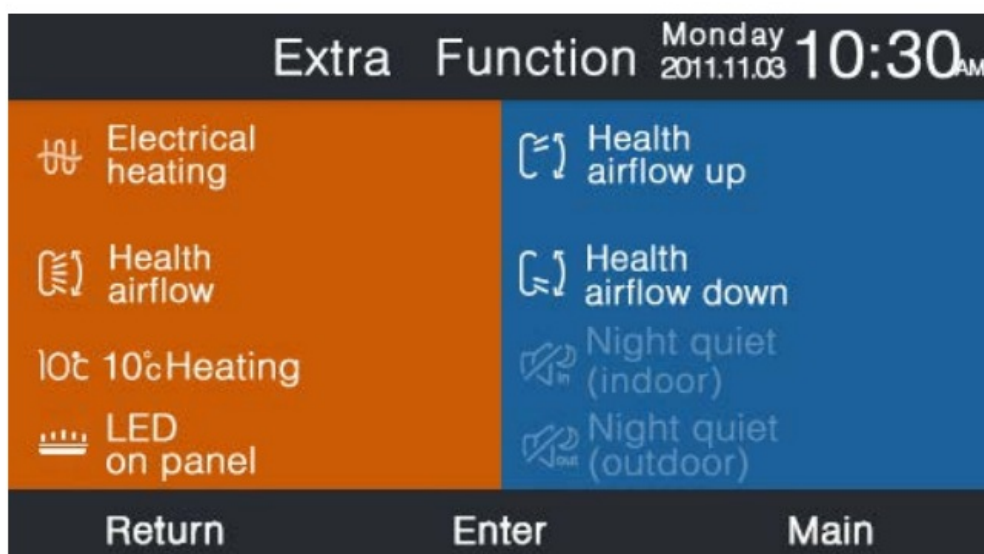
6. a. "Quiet (outdoor)" is set ON, and the outdoor quiet function is activated;

b. Both "Quiet(outdoor)" and "time setting of outdoor quiet" are set ON, the outdoor unit will be at quiet mode only during set time;

c. If ON and OFF time of the"time setting of outdoor quiet" are the same, quiet(outdoor) function OFF.

d. IF "ON time of "time setting of outdoor quiet" is set 00:00, OFF time of"time setting of outdoor quiet" is set 23:59, the quiet(outdoor) function is always ON, the outdoor unit is always at quiet mode.

e. The default ON time of "time setting of outdoor quiet" is 20:00, and the default time of "time setting of outdoor quiet" is 8:00.If ON and OFF time is changed, the new time will always be used…

f. Time format of "time of outdoor quiet" is the same as the clock: 12-hour/24-hour.

Error Code
Press enter key to the error code inquiring interface when the icon is flashing in the menu.

1. Up/Down key to choose the unit. The left/Right key is used for page turning.
2. One current error information displays only and thirty-five error history information is displayed at most for each unit.
3. Press the Left and Right keys together for 5s to clear away the error history information of the current unit. Press Up and Down keys together for 5s to clear away the error history information of all the units online. The combination method is only valid in the error interface.
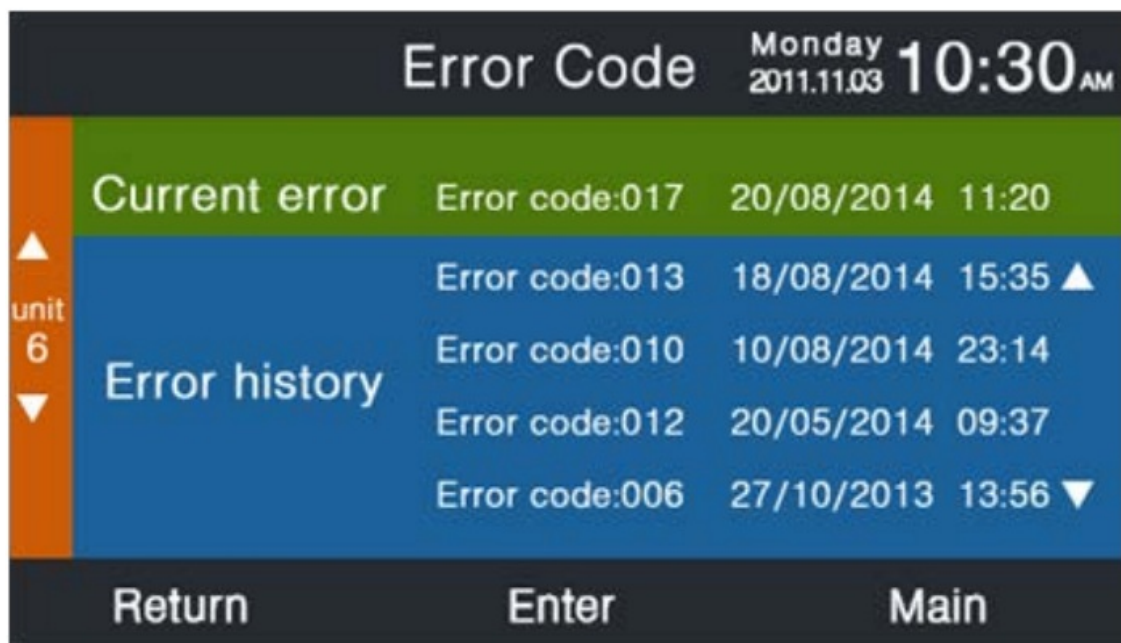
Service Help

Press enter key to the service help interface when the icon is flashing in the menu.

1. Password function concludes password setting and recovery, the default code is 841226. When finished code input, press the direction key to cancel or enter, then press enter key to confirm, or continue to press enter key to confirm after inputting six numbers.

2. If password recovery is set, the interface will prompt as follows, then cancel or enter.
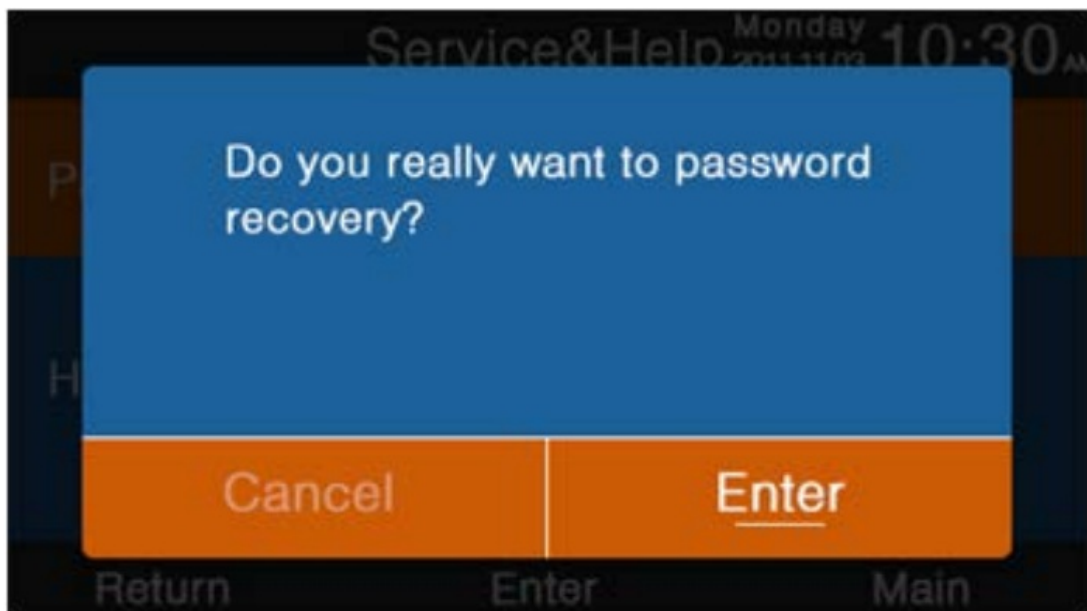
3. The help function is reserved for parts of models. The information is gray when it is invalid.

Sleep

The function is reserved for some models.

Swing

Press enter key to the interface when the swing icon is flashing in the menu. Code is needed.

1. The default information of swing type and angle control is decided by the indoor unit. When type and angle control are set in a different combination, the main interface will display the corresponding icon, and then the swing function will be refreshed by the indoor unit last.

2. If some combination is limited, the information will be gray.

3. If no swing is set, the swing key in the main interface is used for adjusting the fan speed.

4. If the Up/Down and Left/Right swing with no angle is set, the swing key in the main interface controls the open and close of the swing.

5. If the Up/Down and Left/Right swing with angle is set, the swing icon will flash after pressing the swing key in the main interface, then press the Left/Right key to adjust the angle. The swing key is used for shifting the Up/Down swing and the Left/Right swing. There is no operation for 5s after the swing icon flashes, the icon will be static indicating quitting adjustment.

6. If the indoor unit is a four-way cassette model, the swing function in the menu is invalid. The swing key in the main interface is used for shifting deflector, the order is four deflectors→deflector 1→deflector2→deflector3→deflector4→four deflectors. The deflector flashes for 5s when it is selected, then press the Left/ Right key to adjust the swing angle of this deflector at the same time.
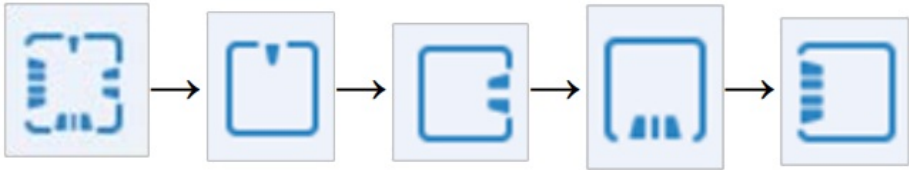
7. **Angle definition:**

   Up/Down swing:

   1stands for angle 1,2 stands for angle 2,3 stands for angle 3,4 stands for angle 4,5 stands for angle 5,1 and 2 stand for health airflow up,4 and 5 stand for health airflow down, the circulation of 1→2→3→4→5→4→3→2→1 stand for automatic swing.

   The up/Down swing will be changed in sequence as follows: angle 1→angle 2→angle 3→angle 4→angle 5→automatic swing→angle 1.

   Left/Right swing:

   The left/right swing can be adjusted as per the user's requirement. The circulation of 1→2→3→4→5→4→3→2→1 stands for automatic swing.

8. The default angle in different modes is as follows:

   Up/Down swing

	Intelligent	Heating	Cooling	Dry	Fan
Angle	Angle 1	Angle 5	Angle 1	Angle 1	Angle 1

   Left/Right swing

	Intelligent	Heating	Cooling	Dry	Fan
Angle	Angle 1	Angle 1	Angle 1	Angle 1	Angle 1

   Four-way cassette

	Intelligent	Heating	Cooling	Dry	Fan
Deflector	Four deflectors	Four deflectors	Four deflectors	Four deflectors	Four deflectors
Angle	Angle 3	Angle 5	Angle 3	Angle 3	Angle 3

Humidity Control

Press enter key to the humidity control interface when the icon is flashing in the menu. The function is reserved for some models. When it is invalid, the icon is gray.

1. Current humidity is decided by the indoor unit and can not be adjusted through the wired controller.
2. Target humidity can be adjusted. Press enter key to make arrows static, then adjust the humidity by the Left/Right key, and press enters key to confirm at last.

Display Setting

Press enter key to the next interface when the icon is flashing in the menu.
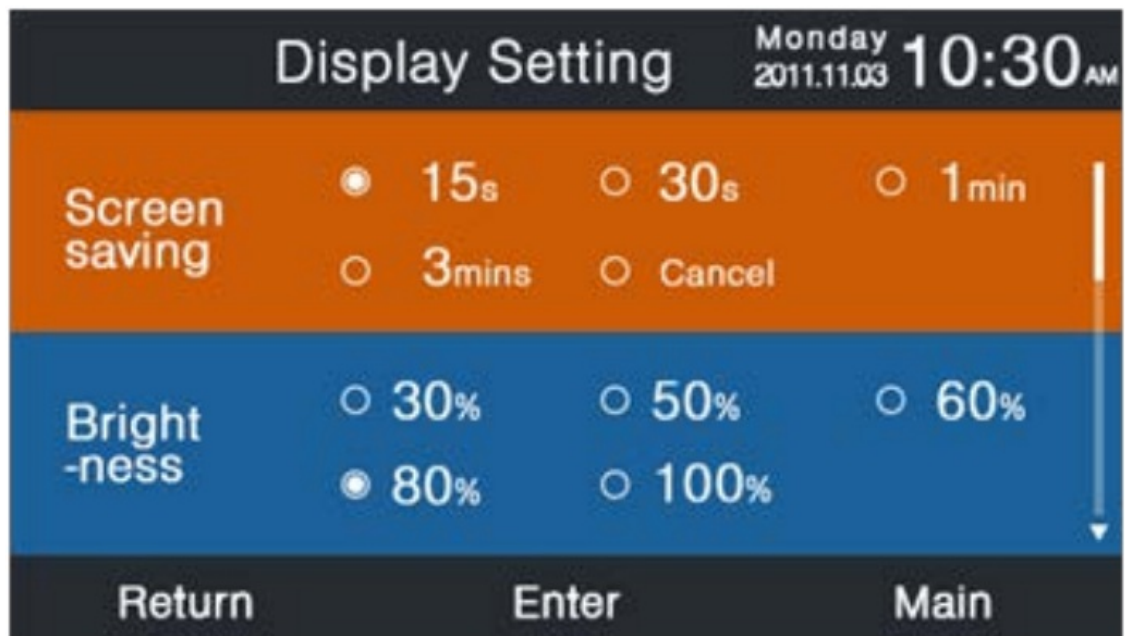
1. Screen saving

   There are five kinds of screen saving time. The time means how long the screen light continues after no operation." Cancel" means that the screen light will never douse.
2. Brightness

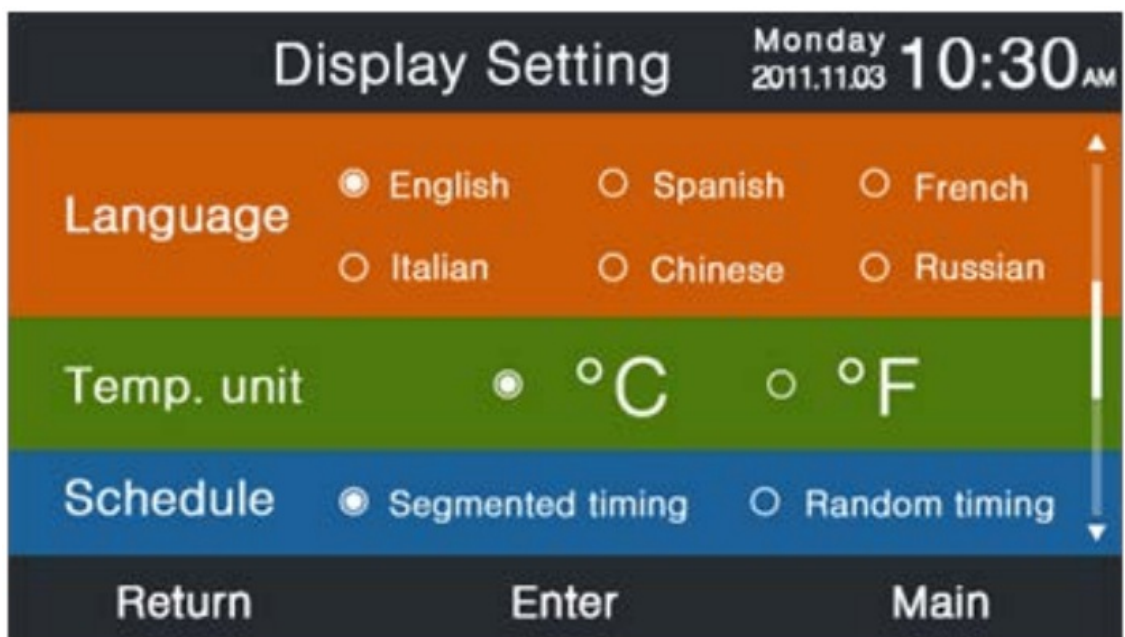   The function is used for controlling the light intensity.

Language
It is only valid for some models.
Temp. unit
Celsius and Fahrenheit can be selected through the function.
Schedule
Segmented timing and Random timing can be set.

Indoor temperature display
If the function turns on, the main interface will display indoor temperature. In opposite, the main interface will not display indoor temperature.
Indoor humidity display
It is only valid for some models.
Outdoor temperature display
It is only valid for some models.
Outdoor humidity display
It is only valid for some models.

Installer Setting
Press enter key to enter the function when the icon is flashing in the menu.
Details
The corresponding parameter information will be displayed in this function. Up/ Down key to adjust the unit number, Left/Right key to turn the page. Some information is gray that can not be inquired about.

Address setting
The default entering code is 841226. The communication address can be set in two ways, one is a wired

controller set, and the other is a wired controller and automatic competing set. Central address and communication address between indoor and outdoor units both can be adjusted according to practical situation.

Basic setting
The information of the model is decided by the indoor unit and can not be changed, the same as capacity information.
Normal fan
The default information is decided by the indoor unit.

Mode selection
Different modes combination can be set according to practical application.

New/old protocol
Self-adaption is the default. The function is used for basic settings. You'd better not reset it, or the controller may not work normally.
Power off memory
If the function is set on, the wired controller will maintain the previous state in temperature, fan speed, etc from outage to power up again.
Master/Slave set
A wired controller can be set as a master controller or slave controller through this function. Slave controllers only can control parts of the function.
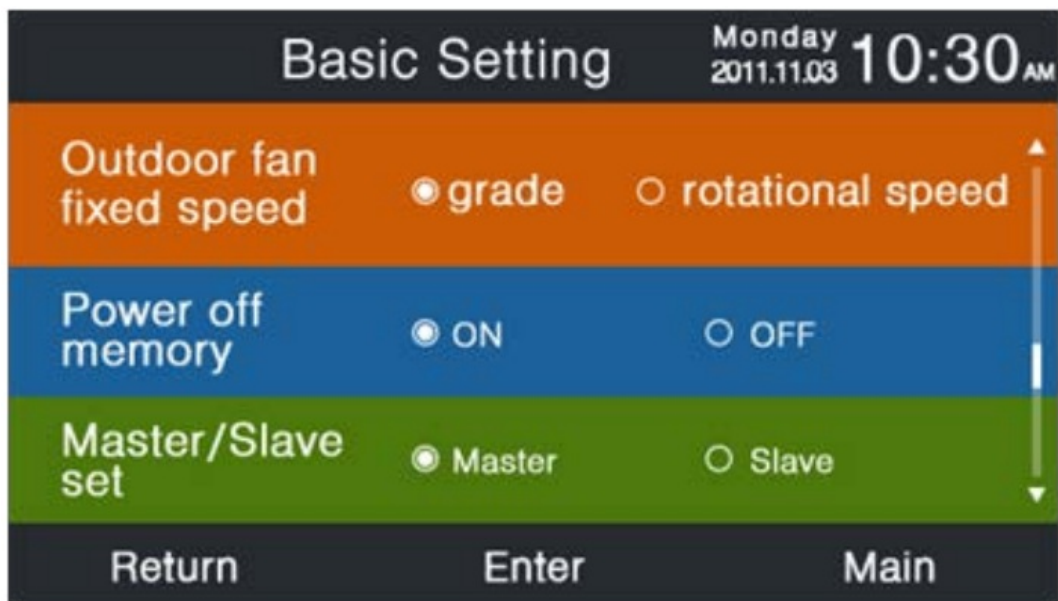
Ambient temperature revision
The revision value is only valid for the wired controller environment temperature
Press enter key to make the arrows static and adjust the temperature by the Left/Right key.

Indoor temperature collection

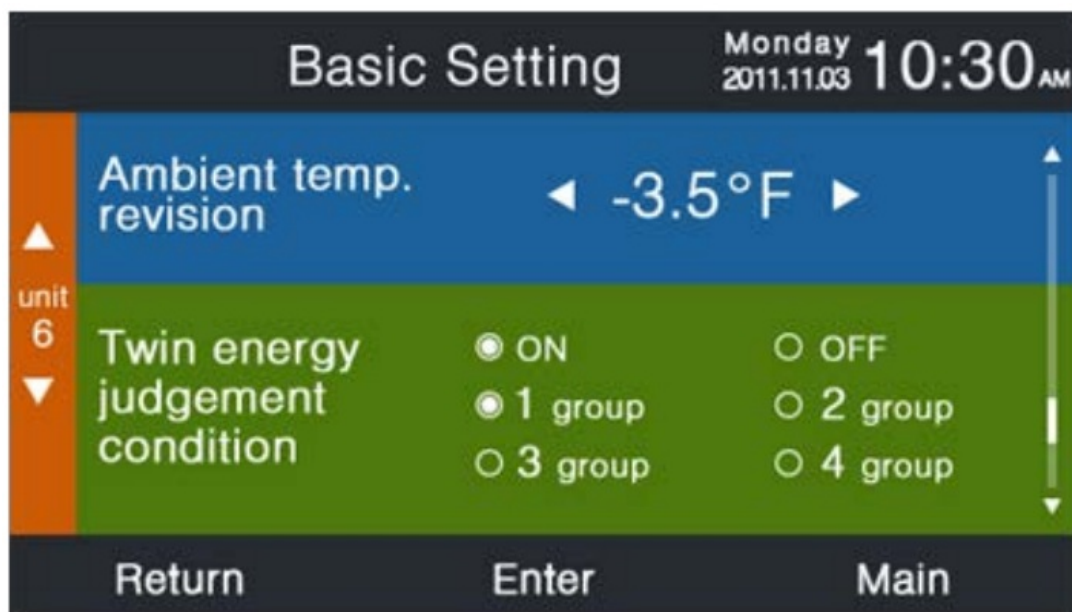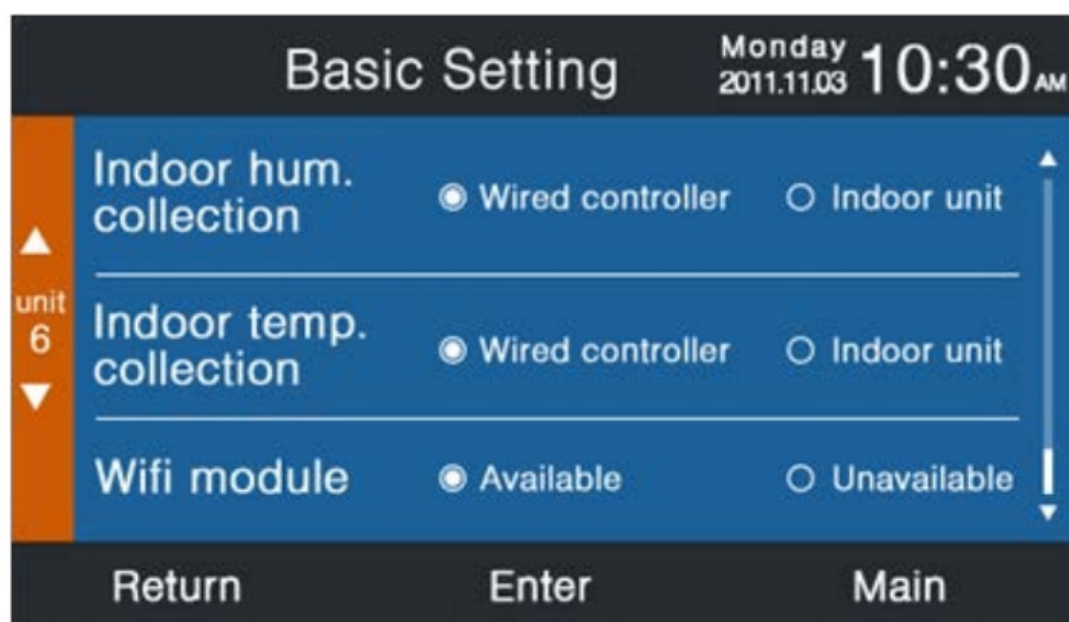The environment temperature may come from wired controllers or indoor units through settings. The same for indoor humidity collection.


In the basic setting interface, press the Up/Down key to adjust the unit number; press the Left/Right key to move the cursor. Some functions are reserved for some models and the information is gray.

ECO

ECO function is default set as OFF. The default highest temperature is 78°F in heating and the default lowest temperature is 74°F in cooling/dry mode. It is default set as no exceeding of limit.

Four direction keys can move the cursor, when the arrows flash, press enter key to stop the flashing and press the Left/Right key to adjust the value, then press enter key again to confirm. After setting the ECO function, the temp. the adjustment will be limited. If overrun is set, the temp. can be adjusted out of ECO rage in the allowable time.
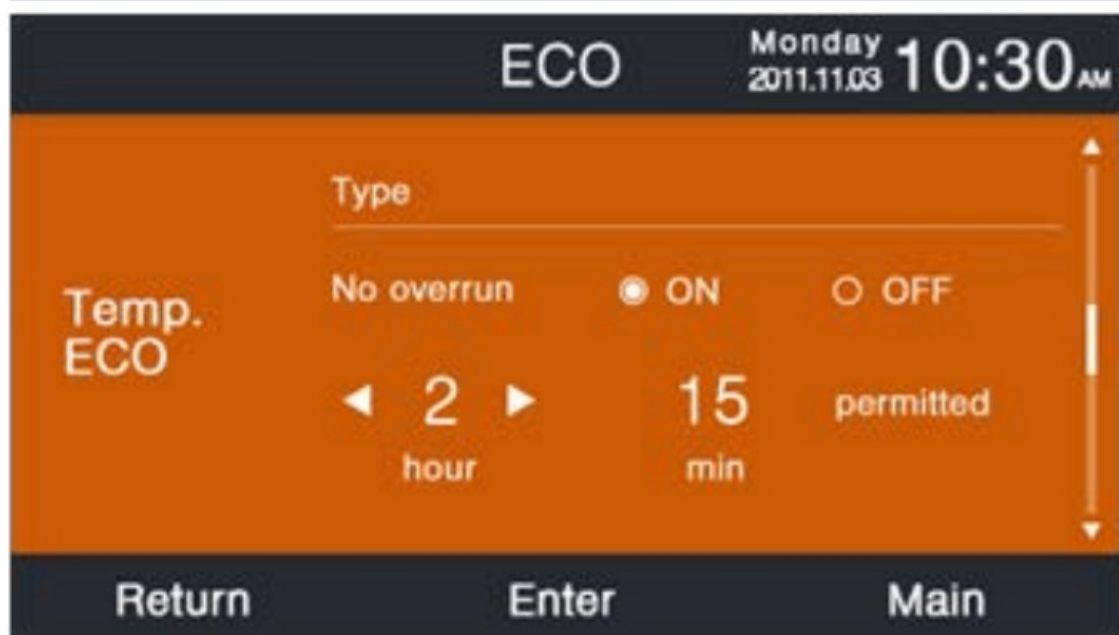
Running time
The function records both continuous running time and total running time. Power on means operate. When the bottom color of "Clear" changes into white, press enter key to clear the accumulative running time.

Vip priority choice
The function is only valid for some models.
Special setting
ESP grade can be set, the setting method is the same as the instruction mentioned above.
Parameter setting
The function is only valid for some models.
EEPROM setting
The function is only valid for some models.
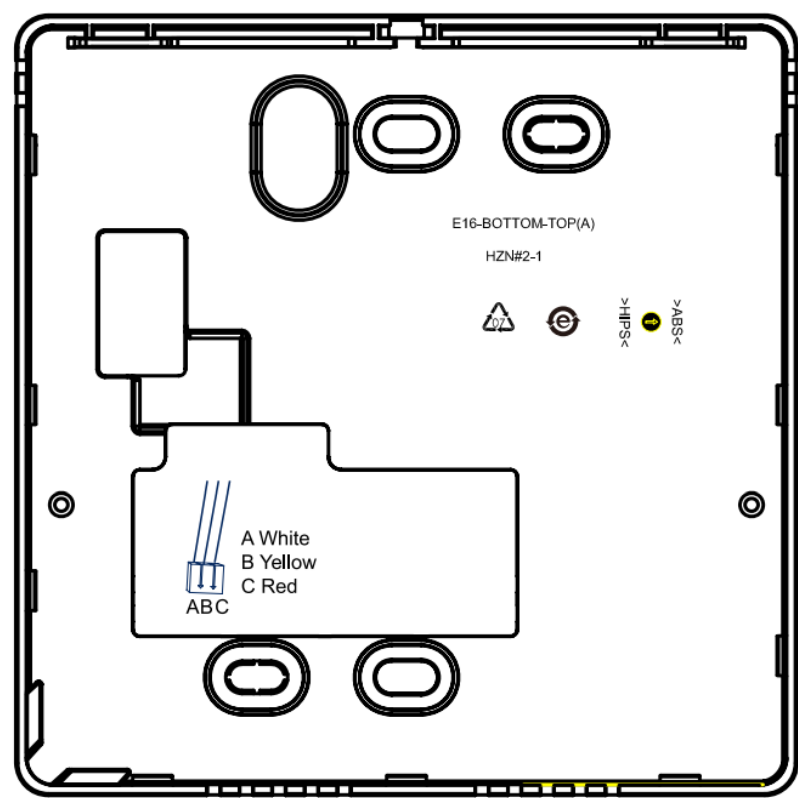**Motion sensing**
The function is valid for some models. When motion sensing follows or evade is set, the angle of the deflector will be decided by the man's location, the setting swing angle in the main interface is invalid at this time. When the function of automatic power off is set, an indoor unit will power off after sensing nobody in for the set time. All the functions in the interface default "OFF".
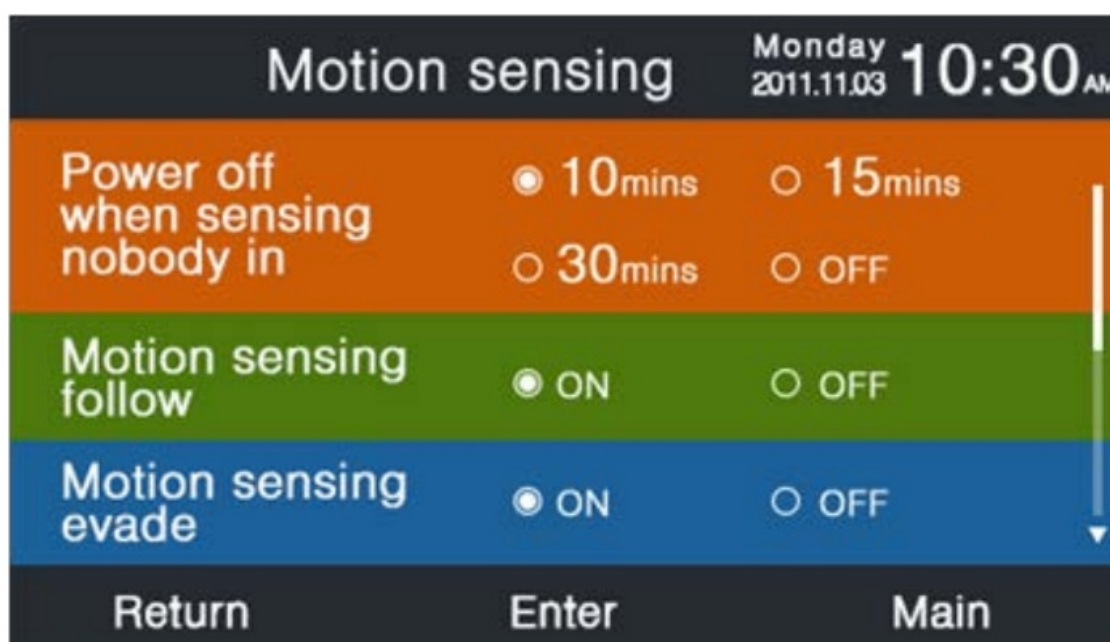
Wired Controller Wiring Instruction

1. First, put the communication wire through the hole in the back cover.
2. Connect the communication wire to the CON4 port of the wired controller. Finally, put the front cover of the

wired controller to the back cover to complete the installation.

Documents / Resources

Wired Controller Operation & Installation Manual CONTENT Parts and Functions ....1 Operation ....8 Wired Controller Wiring Instruction ....32 • Please read this operation manual before using the air conditioner. • Please keep this manual carefully and safely.	**Haier YR-E16B Programmable Wired Controller** [pdf] Instruction Manual YR-E16B, Programmable Wired Controller, Wired Controller, YR-E16B, Controller