

## 5. Function Operation

### 5-1. Operation Range (cooling and heating)

Mexico Model ; North America SEER 16 Model:

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp
COOLING	Maximum	30	46 °C
	Minimum	16°C	16°C
HEATING	Maximum	30°C	24°C
	Minimum	/	-10°C

### 5-2. Remote Controller Operation & Function

#### △Remote Controller Instruction

##### Remote controller

The remote controller transmits signals to the system.

##### 1 ON/OFF BUTTON

The appliance will be started when it is energized or will be stopped when it is in operation, if you press this button.

##### 2 MODE BUTTON

Press this button to select the operation mode.

##### 3 FAN BUTTON

Used to select fan speed in sequence auto, high, medium or low.

##### 4 5 ROOM TEMPERATURE SETTING BUTTONS

Used to adjust the room temperature and the timer, also real time.

##### 6 SMART BUTTON

Used to enter fuzzy logic operation directly, regardless of the unit is on or off.

##### 7 SWING BUTTON

Used to stop or start vertical adjustment louver swinging and set the desired up/down airflow direction.

##### 8 SLEEP BUTTON

Used to set or cancel Sleep Mode operation.

##### 9 IFEEL BUTTON

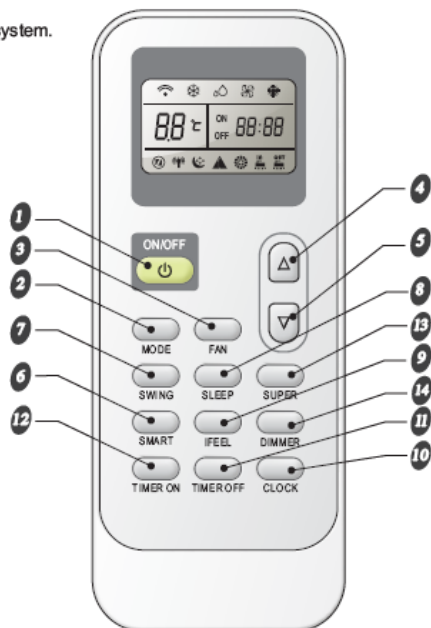
Used to set IFEEL mode operation. Press it once, the IFEEL function will be started. Press it again, the IFEEL function will be shut off. If the IFEEL function can't be shut off, please try to press this button about 5 seconds. Advice to put the remote controller in the place where the indoor unit receive signal easily. Advice to cancel the IFEEL mode so as to save energy when stopping the air conditioner.

##### 10 CLOCK BUTTON

Used to set the current time.

##### 11 12 TIMER ON/OFF BUTTON

Used to set or cancel the timer operation.



##### 13 SUPER BUTTON

Used to start or stop the fast cooling/heating. (Fast cooling operates at high fan speed with 18°C set temp automatically ; Fast heating operates at auto fan speed with 32°C set temp automatically)

##### 14 DIMMER BUTTON

When you press this button, all the display of indoor unit will be closed. Press any button to resume display.

Indication symbols on LCD:

Cooling indicator	Auto fan speed	Smart indicator	Signal transmit
Dry indicator	High fan speed	Sleep indicator	ON 88:88 Display set timer
Fan only indicator	Medium fan speed	Ifeel	OFF 88:88 Display current time
Heating indicator	Low fan speed	Super indicator	88 °C Display temperature

Note: Each mode and relevant function will be further specified in following pages.

# 7.Trouble Shooting

## 7-1. Error Code Table

### 1.Indication by the indoor unit:

When the unit has the following trouble and the compressor stops running, press the sleep button on the remote controller for 10 times in ten seconds and the 7-segment tube of the display board will show the error code as the following, if two malfunction happened at the same time, it need press the sleep button for 4 times again, the LED will show the other error code.

Refer to the remote controller which the sleep key can set into 4 different combination ways (Hisense's new design remote controller), when using to check the error codes only takes effect for pressing the sleep key 10 times in ten seconds instead of 4 times.

### 2.2 LED display

Error code	Sleep	Timer	Running		Remark: ★Light    ○ Flash    x OFF		
	1	2	3		Content	Remark	The root cause is may be one of the following
0					Normal		
1	○	★	★		The failure for temperature sensor of outdoor coil		a. The outdoor temperature sensor loose; b. The outdoor temperature sensor is failure; c. The indoor control board is failure
2	○	★	x		Compressor exhaust temperature sensor in trouble		a.the compressor exhaust temperature sensor connect loose; b.the compressor exhaust temperature sensor is failure; c.the outdoor control board is failure
5	★	○	x		IPM module protection		a.The IPM board is failure; b.The outdoor fan is broken; c.The outdoor fan motor is failure; d.The outdoor fan has been blocked ; e.The condenser is dirty; f.The outdoor unit has been installed without standard.
6	x	○	x		AC voltage higher or lower protection		a.the supply voltage is higher or lower than normal; b.the inner supply voltage of the unit is higher or lower than

							normal
7	★	★	x		Communication failure between the indoor unit and outdoor unit		<b>a.</b> the communication cable connect loose; <b>b.</b> the communication cable is failure; <b>c.</b> the connection between the filter board and the outdoor control board is incorrect or loose; <b>d.</b> the connection between the filter board and the terminal is incorrect or loose; <b>e.</b> the indoor control board is failure; <b>f.</b> the PFC board is failure; <b>g.</b> the power board is failure; <b>h.</b> the outdoor control board is failure.
10	★	X	x		Communication trouble between outdoor unit and driver		<b>a.</b> the connection wires connect loose <b>b.</b> the outdoor board or drive board is failure;
11	O	X	x		Outdoor EEPROM in trouble		<b>a.</b> the EEPROM chip is loose; <b>b.</b> the EEPROM chip inserted with opposite direction; <b>c.</b> the EEPROM chip is failure
13	O	X	★		Compressor exhaust temperature too high protection		<b>a.</b> the compressor exhaust temperature sensor is failure; <b>b.</b> the refrigerant of the unit is not enough
14	★	★	O		Outdoor ambient temperature sensor in trouble		<b>a.</b> the outdoor ambient temperature sensor connect loose; <b>b.</b> the outdoor ambient temperature sensor is failure; <b>c.</b> the outdoor control board is failure
15	x	O	★		Compressor shell temperature too high protection		<b>a.</b> the compressor exhaust temperature sensor connect loose <b>b.</b> the refrigerant of the unit is not enough
16	★	x	★		Anti-freeze protection with cooling or overload protection with heating in		<b>a.</b> the indoor coil temperature sensor connect loose; <b>b.</b> the indoor coil temperature sensor is failure; <b>c.</b> the indoor control board is failure <b>d.</b> the refrigerant system is

							abnormal.
17	x	★	x		PFC protection		a.the PFC is failure; b.the outdoor drive board is failure
18	x	★	★		DC compressor start failure		a.the outdoor drive board is failure; b.the compressor is failure
19	x	★	O		Compressor drive in trouble		a.the outdoor drive board is failure; b.the compressor is failure c. the outdoor control board is failure
20	★	X	O		Outdoor fan motor locked rotor protection		a.the connection of the outdoor fan motor is loose; b.there are something block the outdoor fan; c.the fan motor is failure; d.the outdoor control board is failure
21	x	X	O		Outdoor coil anti-overload protection with cooling		a.the refrigerant is too much; b.the outdoor fan motor is failure; c.the outdoor fan is broken; d.the condensor is dirty; e.the air inlet and air outlet of the indoor unit and the outdoor unit is not normally
33	★	O	O		The failure for temperature sensor of indoor room		a. The indoor room temperature sensor loose; b. The indoor room temperature sensor is failure; c. The indoor control board is failure.
34	x	O	O		The failure for temperature sensor of indoor coil temperature		a. The indoor coil temperature sensor loose; b. The indoor coil temperature sensor is failure; c. The indoor control board is failure.
36	O	★	O		Communication failure between the indoor unit and outdoor unit		a.the communication cable connect loose; b.the communication cable is failure; c.the connection between the filter board and the outdoor control board is incorrect or loose; d.the connection between the filter board and the terminal is incorrect or loose;

							<b>e.the indoor control board is failure;</b> <b>f.the PFC board is failure;</b> <b>g.the power board is failure;</b> <b>h.the outdoor control board is failure.</b>
38	O	O	x		Indoor EEPROM failure		a. The EEPROM chip loose; b. The indoor control board is failure
39	O	O	★		Indoor fan motor run abnormally		a. There are something block the indoor fan motor; b. The fan motor cord connect loose; c. The fan motor is failure; d. The indoor control board is failure
41	x	X	★		The failure for Indoor grounding protective		The indoor control board is failure

## 2.Indication on the outdoor unit:

When the unit has the following trouble and the compressor stops running, The LED of outdoor control board will show the error sequence automatically:

**NOTE: ★: LIGHT O: FLASH ×: OFF**

### When the compressor is in operation:

Mark description: ★: Light O: Flash ×: Off; the flash cycle is 1S				
No.	LED1	LED2	LED3	Reasons for the current operating frequency of the compressor is limited
1	O	O	O	Normal frequency rising and decreasing, no limitation
2	×	×	★	Frequency decreasing or prohibition of frequency rising caused by over-current
3	×	★	★	Frequency decreasing or prohibition of frequency rising caused by anti-freezing of refrigeration or anti-overload in heating
4	★	×	★	Frequency decreasing or prohibition of frequency rising caused by too high compressor discharge temperature
5				Limit to the max operating frequency caused by too low power voltage
6	★	★	★	Operation at fixed frequency (in the case of capability measuring or compulsory operation at fixed frequency)
7	O	×	×	Protective frequency decreasing against outdoor overload (overpower, over frequency conversion rate, over torque, detection of DC under-voltage)

8	★	×	×	Frequency decreasing caused by indoor and outdoor communication fault
9	×	★	○	Frequency decreasing or prohibition of frequency rising protection against overload of outdoor coiled pipe
10	×	★	×	Frequency decreasing or prohibition of frequency rising for power-saving when it is being used simultaneously with other appliances