



RF600A Product Manuals



Product name	RF600A
Part number	



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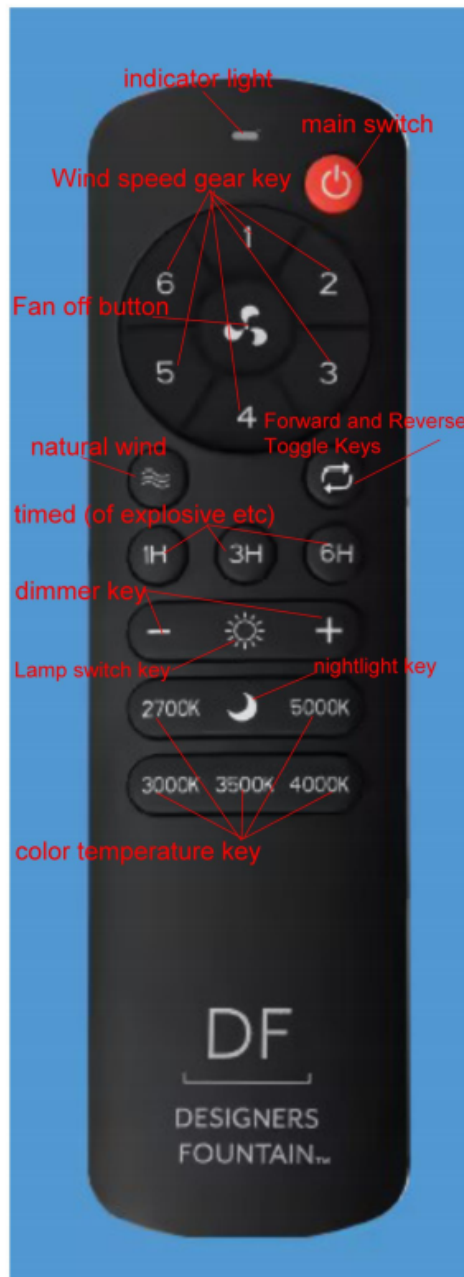


1 Product Specification

1.1 Basic description

This product is a fan light remote control, used to control the ceiling fans.

1.2 Operation interface





1.3 Specification

a fan light remote control	Model NO	RF600A
	Frequency	433.92MHz $\pm$ 50kHz
	Number of buttons	22key
	Colour upper part	Black
	Colour lower part	Black
	painting	NO
	Backlight	No
	Logo	Refer to the exterior view
	Certification	FCC
	Software version	V002
	Size	159.7*43.7*17.5mm
	Manual/Issue date	No
	Magnet or Metal plate	No
	Key press force(Without battery)	59.5 $\pm$ 2g

1.4 Parameter

Working Voltage	2.3V-3.6V	2 x AAA Alkaline Batteries
Transmitting frequency	433.92MHz	
Modulation	ASK	
Transmit power	-15 dBm $\sim$ 0dBm(PK)	
Standby power consumption	2uA $\sim$ 10uA	
Remote control distance	$\geq$ 15m	Packet Loss Rate $<$ 3%
Workinging frequency	Crystal Oscillator Specifications	13.56MHZ/20PF/10PPM/3225
Antenna Design	RF Antenna	On-board antenna
General parameters	Workinging temperature	0 $^{\circ}$ C $\sim$ 45 $^{\circ}$ C
	Working relative humidity	5 % $\sim$ 80 % RH
Quality requirements	IP Level	IPX4
	Application	Indoor
	Wake-up time	The remote control can be woken up by pressing any button, and enters low-power sleep mode when no operation is performed.
	Response time	$\leq$ 0.5s (The time from when a person operates the remote control to when the person observes the change in the product's action)
	Special Requests	Working cut-off voltage 2.3V, the remote control resets and stops sending codes;



2 Operation Instruction

2.1 key-in-code (computing)

icon:



(Located inside the battery cover on the back)

Operational matters:

1. When the receiver is powered on within 10s, press and hold the “LEARN” button for 3s to code, when the code is successful, the buzzer will beep and the light will flash twice at the same time.
2. When the code is successful: the fan is off by default, the light is on by default (brightness three, color temperature 4000K)
3. The receiver can only be learned by the code once every time it is re-powered, and the new transmitter will cover the old transmitter after successful code pairing.
4. The receiver can only be controlled by 2 transmitters, but one transmitter can control multiple receivers at the same time.
5. After the receiver is re-powered, those that have already been pair-coded do not need to be pair-coded to learn to control, but can still be pair-coded to learn the function.

caveat:

- ① This function cannot be canceled/closed.
- ② If you press and hold this key after 10 seconds of power-on, the operation is invalid.
- ③ Wait for twenty seconds after code matching failure before re-powering on to match.

2.2 main switch

icon:



Operational matters:

1. If one or both of the fan and the light are on, press briefly to turn off the device that is turned on.
2. When both the fan and the light are off, a short press turns on the device that was turned off in the last operation.

caveat:

- ① Short or long press this button will only perform one operation.

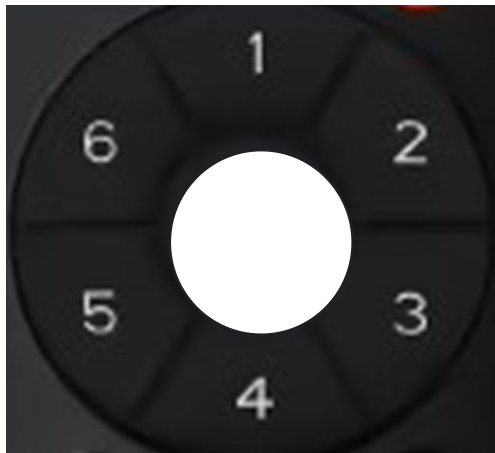


②Close: in the fan and light on one or all of the state, press the total switch key, the function is to turn off all open devices (including the fan natural wind mode and night light mode)

③Open: fully closed state, press this key will only turn on the previous operation when the equipment is closed (fan speed / light brightness, color temperature and the same as before the closure, that is, with memory, will not restore the natural wind and timer, the natural wind and timer does not come with memory)

2.3 Wind speed gear key

icon:



Operational matters:

1. Fan off state, press this key, turn on the fan and run in the key gear, the running direction is the same as the last fan running
2. Fan on state, press this key, the fan jumps to stop the key gear operation, the operation direction is consistent with the fan current

caveat:

①Short press or long press this key, both perform only one operation.

②Press the wind speed gear key in the natural air state to turn off the natural air mode, and then switch to the key gear to run.

The operation direction is the same as the last operation of the fan.

2.4 Fan off button

icon:





Operational matters:

1. Fan off state, press this key, no effect
2. Fan on state, press this key, turn off the fan

caveat:

- ① Pressing this key briefly will stop the fan if it is running.
- ② This key does not affect the light.
- ③ If the fan is running and in the timer state, press this key briefly to turn off the fan and cancel the timer (but there will not be any sound).
- ④ Natural air mode, press the fan off key to cancel the natural air and turn off the fan.
- ⑤ When the fan is running and the power is off, the fan will be off by default when the power is turned on again;

2.5 natural wind

icon:



Operational matters:

1. When the fan is off, press the natural wind button, the fan runs in natural wind mode.
2. When the fan is on, press the natural wind key, the fan enters the natural wind mode: 1-6 gears run randomly.
3. When the natural wind is on, press forward and reverse, the fan will change the original running direction, but still run in natural wind mode.
4. When the natural wind is on, press the timer, the fan will be turned off together with the light after a specified period of time.
5. When the natural wind is on, press the fan off button, the natural wind will exit and the fan will turn off.
6. When the natural wind is on, press the gear key, the natural wind is off, the fan runs in the gear according to the key.
7. When the natural wind is on, press the natural wind key, the fan still runs according to the natural wind.

caveat:

- ① Natural wind does not come with memory, the natural wind function will be canceled automatically when the power is cut off and then restored/the fan is turned off with the remote control.
- ② Natural wind mode is 1-6 speeds running on the fly. It is a gradual slow increase and decrease



of speed. This time is based on the weight of the fan blades and the function of the motor.

③ Natural wind mode power off, and then power on, the fan default off state, at this time press the natural wind button will start the fan into the natural wind mode;

2.6 Forward and Reverse Toggle Keys

icon:



Operational matters:

1. When the fan is off, press the forward and reverse key, the fan does not execute any start command, does not change the original running direction, and the buzzer does not sound.
2. When the fan is on (including gear mode and natural wind mode), press the forward and reverse key, the fan enters the forward and reverse switching, the operation mode remains unchanged, and only the operation direction is switched.

caveat:

- ① Short or long press on this button performs only one operation.
- ② In forward and reverse mode, the maximum waiting time from fan stop to switching direction start is 6s.

2.7 timed (of explosive etc)

icon:



Operational matters:

1. In the state of light off and fan off, press the timing key, timing is invalid.
2. In the state of turning off the light and turning on the fan, press the timing key, the timing is effective for the fan.
3. When the light is on and the fan is off, press the Timer key, the timer is effective for the light.
4. In the state of turning on the light and fan, press the timing key, the timing is effective for both the light and fan.
5. If both the lamp and fan are off during the timing process, the timing will be canceled.
6. During the timing process, pressing any button outside the timing will cancel the timing.
7. During the timing process, if you press the timing button again, the timing time will be



refreshed and re-timed from the time of the last time you pressed the timing button.

caveat:

- ① Timing does not do accumulation (e.g. Timing in one hour, press 3 hours to change directly to Timing 3 hours, no accumulation).
- ② Timing to run until the end of the corresponding timing time, the lights or / and fan switch to off state.
- ③ Timing is canceled if the fan or/and lamp are turned off during the timing process.
- ④ The receiver's timing is canceled and invalid in the protection state (alarm state).
- ⑤ No beeps or beeps are allowed when the timing is successful or finished.

2.8 Lamp switch key

icon:



Operational matters:

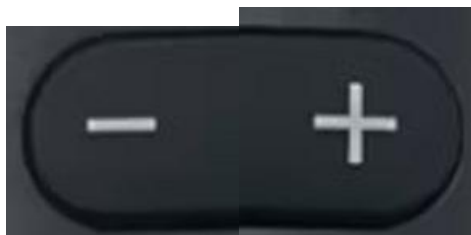
- 1. Under the state of turning off the light, press the light switch key, the function is to turn on the light, the light brightness level and color temperature is the last light brightness level and color temperature.
- 2. Under the state of turning on the light, press the key to turn on the light, the function is to turn off the light.

caveat:

When the light is on, press the corresponding color temperature key, the light converts to the key color temperature, and the brightness adjustment stops the maximum lumens.

2.9 dimmer key

icon:



Operational matters:

Long press +, stepless brightness adjustment to the maximum lumens

Short press + once, the brightness will be adjusted upward by 1 step, and the maximum lumen will



be 8 steps.

Long press -, stepless dimming to minimum lumens

Short press - once, the brightness will be lowered by -1 stop, and the minimum lumen will be stopped at 1 stop.

caveat:

Dimming is only possible when the light is on, the key is invalid when the light is off.

The brightness of the 1st gear is 15% of the maximum lumens

2.10 nightlight key

icon:



Operational matters:

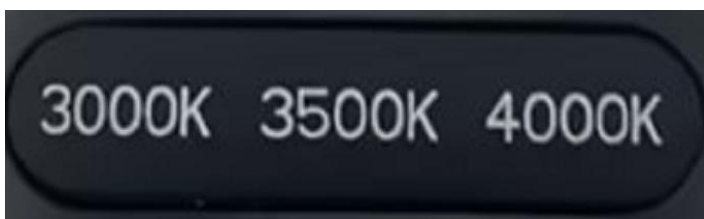
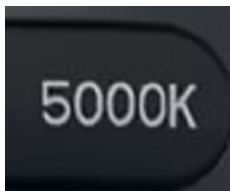
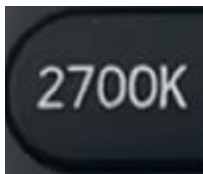
1. In the off state, press the night light button, the function is to turn on the night light.
2. Under the state of turning on the light, press the night light key, the function is to switch the night light mode.
3. In the night light mode, press the night light key to keep the night light mode unchanged.

caveat:

Night light mode: light is 1 step, i.e. 15% of the maximum lumens, color temperature is 2700K

2.11 color temperature key

icon:





Operational matters:

1. In the light off state, press this key, turn on the light, the brightness for the maximum lumens, color temperature for the key color temperature value
2. In the light on state and, press this key, the brightness switching stops the maximum lumens, color temperature switching stops the key color temperature.

caveat:

Color temperature key brightness are maximum lumens

2.12 indicator light

icon:



Operational matters:

Red color, the indicator light flashes every time you press a button

Low voltage reminder: when the power is low, the indicator light blinks rapidly and stays blinking as long as it is still in operation, and stops and goes out after blinking 5 times or blinking for 3 seconds when no more operations are performed on the remote control.

2.13 Power failure memory function

1. All light settings should be with memory function:
 - a. When you turn on the light with the switch button, the color temperature and brightness settings before turning off the light will be memorized.
 - b. After power off and on, if the light is on before power off, the light will be turned on automatically after power on and the color temperature and brightness settings before power off will be memorized.
 - c. After power off and on, if the light is off before power off, it must keep the light off after power on.
2. The fan only has a memory function on the handle's main switch, which is turned off by default after power failure:
 - a. When the fan is started by the main switch, the speed gear and steering before shutdown will be retained.
 - b. After power failure, the fan will be off by default, regardless of whether the fan was running before the power failure.
3. Natural air mode without memory mode:
 - a. Natural air mode will be canceled automatically after power off and on or when the fan is turned off and on with the remote control.
4. Timing without memory function.



2.14 Mute/tone

1. There should be no beeps for any operation, except for successful code pairing:
 - a. Code pairing success: one beep (short)
2. There must not be any sound/beep when timing is successful, finished, or canceled.
3. In case of failure: short circuit or missing wires all set to three beeps (short sound), issued in case of failure, and again when trying to turn on the fan (when fan on/off key or wind speed gear key) before fixing.
4. One beep after power off and on.

2.15 factory setting

The fan is off by default and the light is on by default.

1. power on the light (brightness three, color temperature 4000K)
2. power on the fan does not start, the first time to start for the positive rotation (summer mode), wind speed of three gears.

FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This Equipment generates,uses and can radiate radio frequency energy and,if not installed and used in accordance with the instructions,may cause harmful interference to radio communications.However,there is no guarantee that interference will not occur in a Particular installation.If this quipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.