

RF601 Product Specifications

Version: V1.0



Product name	RF601
Part number	



CONTENT

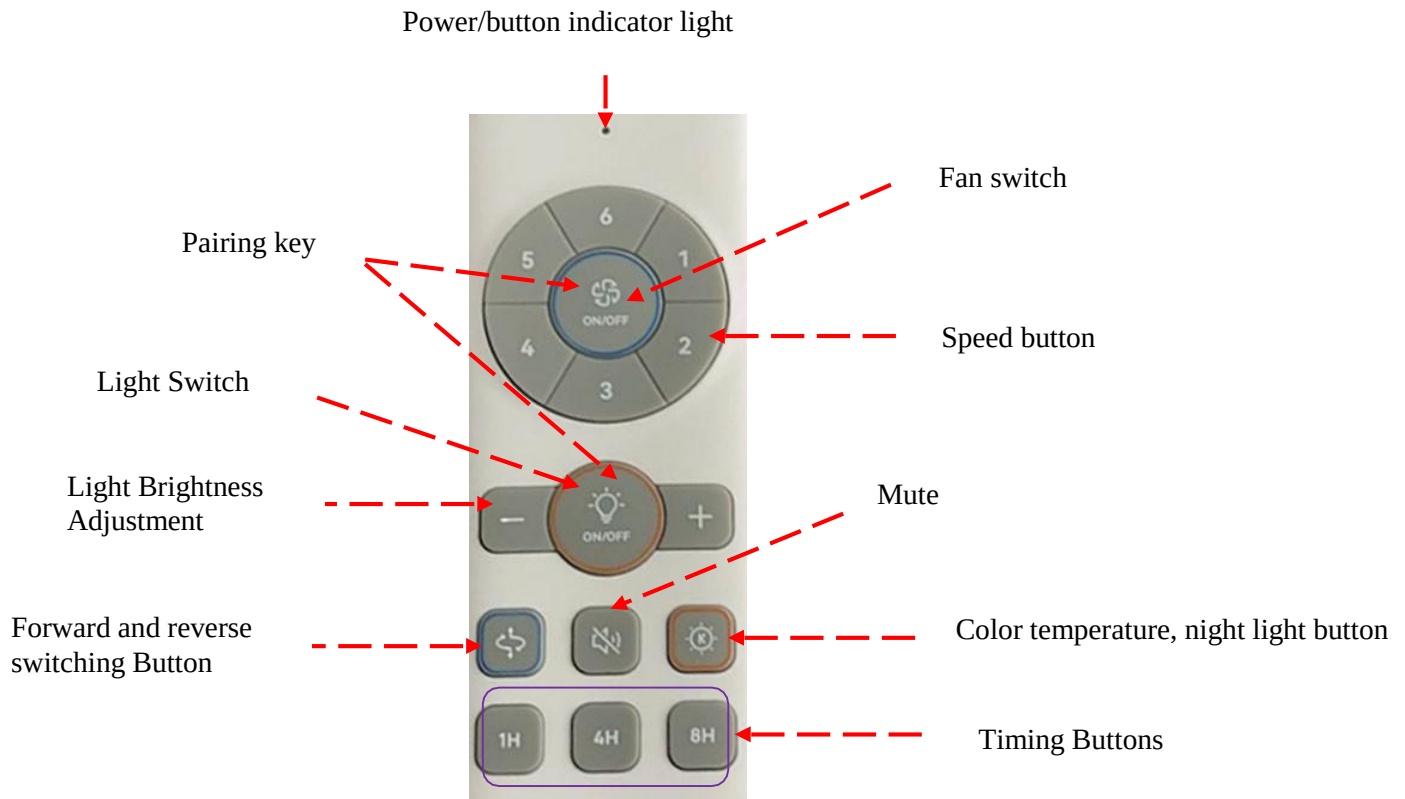
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I. Product Specification

i. Basic description

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

ii. Operation interface





iii. Specification

A Transmitter	Customer no.	TBD
	Model NO	RF601A
	Frequency	433.92MHz ±50kHz
	Number of buttons	16key
	Colour upper part	White
	Colour lower part	White
	painting	NO
	Backlight	No
	Logo	DREO
	Certification	FCC
	Software version	TBD
	Testing instruction PCBA	TBD
	Size	
	Label on product	TBD
	Label on white box	No
	Manual/Issue date	No
	Magnet or Metal plate	No
	Key press force	160g±20g

iv. Parameter

Working Voltage	2.5V-3.0V	CR2032 Button battery*1
Transmitting frequency	433.92MHz	
Modulation	OOK	
Transmit power	-15 dBm~0dBm(PK)	
Standby power consumption	2uA~10μA	
Remote control distance	≥15m	Packet Loss Rate<3%

Working frequency	Crystal Oscillator Specifications	13.56MHZ/20PF/10PPM/3225
Antenna Design	RF Antenna	On-board antenna
General parameters	Working temperature	0°C~45°C
	Working relative humidity	5 %~80 % RH
Quality requirements	IP Level	IPX4
	Certification standards and regions	1. US regulations: FCC-ID certification, 2. US regulations: ETL4200A (button battery anti-swallowing)
	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 2.5V, the remote control resets and stops sending codes;

II. Operation Instruction

i. Replace the battery (the product has been installed with battery before leaving the factory and can be used normally)

Please unscrew the bottom screws, open the battery cover at the bottom of the remote control, and install the CR2032 battery into the battery slot, paying attention to the positive and negative polarity markings; install the battery cover back to the remote control, and the power indicator on the top of the remote control will indicate.

ii. Code pairing operation

The remote controller has been paired before leaving the factory;

New remote controller pairing operation: disconnect the fan power supply, and press and hold the light and fan switches for 3 seconds within 3 minutes after reconnecting the power supply. After the pairing is successful, the light will breathe for 3 seconds, and the buzzer will sound for a long time during the breathing process.

It can support one-to-many and many-to-one (a whole machine can be controlled by up to 4 remote controllers) (New: The remote control with the first code is stored separately and cannot be squeezed out. You can press and hold the light and fan switches at the same time to cancel the pairing). When the pairing is full, it will be implemented in a first-in-first-out manner.

When the remote controller has been paired, press and hold the light and fan switches for 3 seconds within 3 minutes after reconnecting the power supply. After the pairing is successfully canceled, the light will breathe for 3 seconds, and the buzzer will sound three times during the process.

New:

- ①The first recorded remote controller ID information of the ceiling fan can only be untied by pressing the combination key, and will not be squeezed out by the remote controller pairing.
- ②When the first remote controller information has been recorded, the remaining three ID information adopts a first-in-first-out approach.
- ③After the first remote controller is untied, the next pairing will first write the remote controller pairing information into the storage area where the first remote controller is located.

iii. Fan Switches



Switch on/off the fan in standby mode.

Memorize the windshield and wind speed mode at this time (refer to the following memory function).

iv. Light Switches



Switch the light on and off under power-on condition

Memorize the light status and scene light effect at this time

Power off memory. In addition to the timer all memory memory

Power off memory, timing is not memorized. Lighting & fan two functions of the power failure memory, power failure before the state is what state, after the power is what state.

v. Wind Speed Gear

Press 1-6 gears to directly adjust the wind speed gear, and the reverse mode is to adjust the reverse speed gear.

If the machine is turned off, it will be turned on directly according to the wind speed gear

(memory wind/reverse setting).

vi. Forward and Reverse Switching Buttons



When the fan is activated, press the Reverse button the fan is reversed, and press the Reverse button to resume when the fan is reversed. Inherit wind speed gear when entering exit reverse.

vii. Dimmer Button

Under the state of turning on the light, press “+” and “-“ to adjust the brightness of the light. When it’s in the maximum gear, press “+”useless, “beep” will sound three times. When in the smallest gear, press “-“ is useless. “Beep” will sound three times.

viii. Mute Button



After clicking the buzzer to turn off, tap again to open the buzzer.

ix. Color Temperature, Night Light Key



Short press the color temperature key to switch the color temperature when the light is on, (2700K, 3500K, 4500K, 5500K, 6500K, 5500K, 4500K.....)

Long press the color temperature key for 3S to switch the night light scene. The light board works in 2700K color temperature, 5% brightness state. Under the nightlight light effect, press + or color temperature key to exit this mode to enter the 1-step brightness (10%), 2700K color temperature.

x. Restore Factory Settings

Continuously press 8H 5 times to restore the factory settings, when successfully restored, the light breathing lamp 3 seconds, breathing process to the buzzer long sound.

xi. Timer Button

Power on state (light and wind either open as power on state), set the timer 1, 4, 8h, at the same time, turn off the light and fan off state (light and wind are off as power off state), set the timer, after the time is up, at the same time, turn on the light and fan.

Supplementary notes:

Timing state (including timer on and timer off), for the fan gear (and reverse), light brightness and color temperature of the effective adjustment. All will quit the timer function.

After setting the timer, pressing the corresponding timer button will turn off the timer function and the buzzer will beep three times (e.g. if you press the 4H button and press 4H again before the end of the countdown, the timer function will be turned off immediately). If you press other timer keys, it will directly override and re-timer the timer function on the remote control at the same time to turn on or off the fan and light status.

● Buzzer Ringer Logic

If the buzzer is turned on.

1. the buzzer sounds sharply three times when an invalid key is pressed or when the fan/light/timer/buzzer function is turned off.
2. the buzzer sounds once when a valid key is pressed
3. one beep when powering on the buzzer

The buzzer does not sound when the buzzer is turned off by any operation or when the power is turned on.

● Factory Default Settings

Factory default settings for fan, LED light, buzzer off when first turned on. The fan rotates at



4 speeds, the LED light is turned on at 50% brightness and 4500K color temperature, and the buzzer is turned on by default.

● Memory Functions

Power off, power failure memory: timing is not memorized. Lights & fan two functions of power failure memory, power failure before the state is what state, after power is what state.

● Low Battery Alert

When the voltage is lower than 2.5V, the remote control indicator blinks when you press the key



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

NOTE: 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 equipment 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.

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

The devices has been evaluated to meet general RF exposure requirement, the device can be used in portable exposure condition without restriction