

R2191-16CH Function Specification V1.0

I. Schematic diagram of key

(1) Transmitter panel diagram

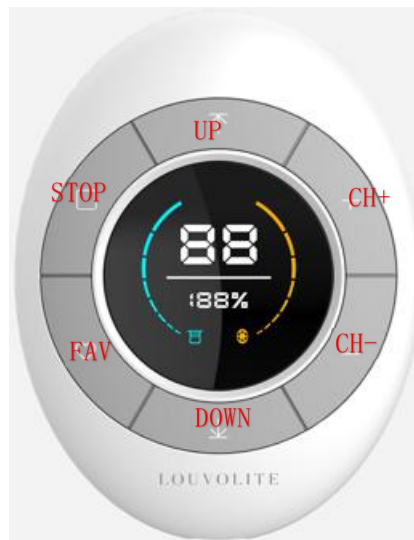


Figure 1: Front diagram

(2) Full diagram of LCD

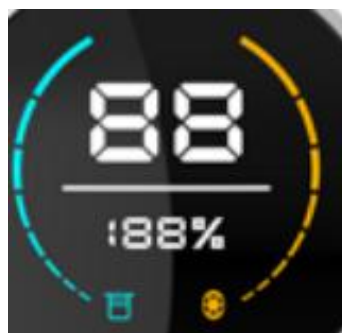


Figure 2: Full diagram

II. Behaviour of electricity

Table 1. Electrical performance table

behaviour of electricity	standard
Battery type	lithium battery
working temperature	-10℃-50℃
Wireless frequency	433.92M±100KHz
Low-power standby current	less than 15uA
emission current	less than 100mA
Send and receive distance	Indoor test distance>=30m

III. Introduction to functional operation

function	Detailed description of functions
1. Switching of channels	① Short press CH +, channel increasing; ② Short press CH-, channel decline;; Channel cycle order is: channel 1-> 2-> 3... channel 16-> 0-> channel 1 Note: Channel 0 is a group control representing all channels,
2. Set the number of channels	① Press CH + / CH-and STOP keys for about 3 seconds, flash the channel number, and enter the state of setting the number of channels; (CH+/CH- & STOP *3Sec) ② Short press UP or DOWN to add or subtract the number of channels;; ③ Finally, press the stop key to confirm the number of channels, and the channel number stop flashing prompt;
3. Add code operation	① Add code operation: When the motor is energized, press the travel head to set the key for 2 seconds and rotate the prompt once. Release the button and press the PRG button behind the transmitter A to turn the prompt for 2 times to indicate the success of encoding.

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4. Set the trip operation	① Press the emitter UP or DOWN key, press the UP and FAV keys for 2 seconds, and turn the prompt for 2 times to confirm the upper travel point . (UP&FAV*2Sec) ② Press the emitter UP or DOWN key, press the DOWN and FAV keys for 2 seconds, and turn the prompt twice to confirm the next travel point . (DOWN&FAV*2Sec) ③ After setting the up and down travel point, short press the transmitter UP or DOWN button, and the motor runs continuously within the set travel range. pay attention to: a. The up and down point cannot be set in the same position
5. Point connection mode switch	① switch to the click mode: short press the remote PRG key to turn the prompt once, then press the STOP key to rotate the prompt once, and finally press the STOP key to turn the motor prompt once, indicating that the motor switches to the touch mode. (PRG+STOP+STOP) ② If the motor is already in the point mode, it needs to switch to the connected mode: short press the remote PRG key to rotate the prompt once, then press the STOP key to rotate the prompt once, and finally press the STOP key to rotate the motor prompt once, indicating that the motor switches to the connected mode. (PRG+STOP+STOP) ③ In click mode: press UP or DOWN button short within 2 seconds; the motor is operated; if the long press exceeds 2 seconds; the motor runs continuously . (UP*2sec/DOWN*2Sec)
6. Set and delete the best travel point	① Set the best travel point: When the motor has set the travel, run to the position where the best travel point needs to be set. At this time, press the transmitter FAV and STOP key for 2 seconds and turn the prompt for 2 times to confirm the best travel point. (FAV&STOP *2Sec) ② Delete the best travel point: the motor has set the best travel point, press the transmitter FAV and STOP keys for 2 seconds, and turn the prompt once to delete the best travel point. (FAV&STOP *2Sec)
7. Run to the best prime point	① When the optimal travel point is set, if the motor is not at the optimal travel point, short press the transmitter FAV button and the motor automatically runs to the optimal travel point position. (FAV)

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8. Transmitter-reversing operation	① Press the transmitter UP key to open the curtain up; press the transmitter DOWN key to close the curtain down, and the transmitter controls the curtain in the correct direction. If you press the emitter UP key, the curtain closes (or press the emitter DOWN key and the curtain opens); reversing is required。 ② Change direction operation when the motor does not set the stroke: press the transmitter STOP and FAV keys for 2 seconds, and turn the prompt once to indicate the running direction of the motor.(FAV&STOP *2Sec) ③ Change operation when the motor sets the stroke: Short press the transmitter PRG button, turn once; press the transmitter UP button once, and finally press DOWN once to indicate the running direction of the motor. (PRG+UP+DOWN) ④ After switching the motor direction, press the transmitter UP button to open the curtain up; press the transmitter DOWN button to close the curtain down。 pay attention to: a. The motor is set the stroke of the transmitter change operation is not the same。 It is found that the motor running direction must be reversed
9. Regulation of the running speed	① Short press the emitter PRG key and rotation prompt once, short press the transmitter STOP button once, and finally short press UP once, which increases the running speed; If the motor is at the fastest speed, the motor has no rotation prompt during the last operation。 (PRG+STOP+UP) ② Short press the emitter PRG Short press the emitter PRG key to turn the prompt once; short press the Transmitter STOP button once, and finally short press the DOWN prompt once to reduce the running speed of the motor; if the motor is already at the slowest speed, the last operation。 (PRG+STOP+DOWN) ③ The motor speed has 3 levels.。
10. Fine-tune the trip	① Press UP and FAV at the same time for 6 seconds and turn the prompt once to enter the fine mode; (UP & FAV * 6 Sec) ② In this mode, short press the emitter UP or DOWN key, and the motor taps; when the button exceeds 2 seconds, the motor runs continuously。 ③ Press the emitter UP or DOWN key to adjust the new travel point, press the UP and FAV keys for 2 seconds, and turn the prompt for 2 times to confirm the new travel point.(Time limited to 4 minutes (UP&FAV *2Sec)

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11. Fine-tune the schedule	① At the same time, press DOWN and FAV for 6 seconds, turn the prompt once, and enter the fine stroke mode: (DOWN&FAV *6Sec) ② In this mode, short press the emitter UP or DOWN key, and the motor taps; when the button exceeds 2 seconds, the motor runs continuously。 Press the emitter UP or DOWN button to adjust the new travel point, press the DOWN and FAV keys for 2 seconds, and turn the prompt twice to confirm the new travel point.(Time-limited to 4 minutes) (DOWN & FAV * 2 Sec) pay attention to: a.After tuning stroke, the original optimal stroke point position remains unchanged; if the motor is not operated when the motor exceeds 4 minutes, turn the motor and automatically exit the adjustment stroke. b.The position of the upper trip and the lower travel point are set in the same position, but the operation is invalid, and a new position should be reset c.When adjusting the stroke, the transmitter reversing operation is invalid. Press long to change the head button, and exit the fine-tuning stroke。
12. Prohibit double-code launch (child lock)	① Long press the T key, about more than 10 seconds, the screen flash 5 times, enter the child lock mode, prohibit the double key to send code, press the release code key screen flash 3 times.(T *10Sec) ② Repeat operation, open double key coding function。 pay attention to: When double key coding is prohibited, the transmitter cannot set the motor stroke and requires double key pressing; forbid the following double key to be pressed at the same time:: a.FAV and UP; b. FAV and STOP; c. FAV and DOWN. Add a new block P key。
13. Delete trip operation	Short press the emitter PRG button to rotate once; Short press the emitter STOP button once, and finally short press the PRG once. The motor runs without travel limit. (PRG+STOP+PRG) pay attention to: a. When the motor is equipped with a curtain, it is forbidden to run without stroke, so to set the trip in time
14. Delete code operation	① Operation: Long press the travel head button for more than 2 seconds, turn the prompt once and then release the button, and then press the PRG key of the transmitter B (with added code) in the motor, and turn the prompt once to

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	indicate that the code of B emitter is deleted.(PRG)Press A transmitter PRG key 1 to turn the prompt once; press A transmitter PRG key 1 to turn the prompt once; then press to delete B Transmitter STOP button 1 (B transmitter code in the motor) to turn the prompt once to indicating that B transmitter code is deleted.(PRG(A)+PRG(A)+STOP(B)) Full deletion operation: press A transmitter PRG button 1 to turn the prompt once; press A transmitter PRG button 1 to turn the prompt once; then press to delete A transmitter DOWN button 1 to turn the prompt once; all transmitters are deleted.(PRG(A)+PRG(A)+DOWN(A)) pay attention to: a.The effective interval of the keys is 10 seconds, and no operation exits the code deletion setting within 10 seconds b.After deletion, keep all the original other settings of the motor (keep previously set) c..The A transmitter is the transmitter that has been encoded d.Do not use the transmitter group control 0 channel or group to delete code。
15. Screen information with battery voltage prompt	① Without matching with the motor, the left track of the screen does not display the power of the remote control itself; after pairing with the motor, the left track of the screen displays the motor power of the current channel, and the right track displays the power of the remote control itself。 ② When the remote control is in the group control channel 0, only the remote control power, not the motor power。 ③ The flashing power of the right remote control below 3.3V indicates the low voltage。 ④ The percentage number in the middle represents the position information, the default percentage is 00%; set the stroke, and update the prompt display after operation。 pay attention to: a.Only the power of the current channel can be displayed, and automatically query after pairing up the remote control。 b.The lowest power rate of motor and remote control is 10% -20%, each power rate is increased by 10%, and the highest power rate is 80% -100% c.Middle position percentage number = (upper trip-current position) / total trip
16. Low power standby	① The screen is completely off on standby。 ② When sleeping, current<=15uA。

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17. Remote control distance	① The distance is greater than 30 meters without the same RF interference
18. Motor restores factory settings	① Long press the button on the motor for more than 16 seconds, after turning 4 times, release the button with orange LE flash 4; indicating that the motor returned to factory mode; delete all previous system function settings and transmitter code and enter the storage mode.(factory data reset)

Table 2 Function Introduction Table

FCC Compliance 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 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.

FCC Caution:

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

IV. Revised records

Revised edition	Revised date	Revised content	authorized strength
V1.0	2024/1/17	first edition	Zeng Wenyu