

USER INSTRUCTION

RF Mini LED Controller



1. Product features:

RF Mini led controller has 5 types, which form a series. The products of this series can be used to control five types of light bars: Dimmer, Color temperature, RGB, RGBW, RGB+CCT.

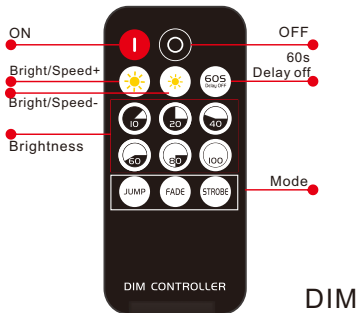
The main features of the controller are:

1. Compact body and convenient wiring;
2. Simple and clear operation, comfortable button feel;
3. Diversified dynamic mode;
4. Soft dimming effect.

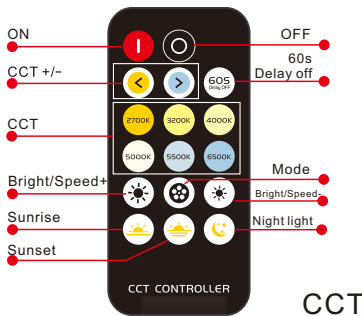
2. Technical Parameters :

- Working temperature : -20-60°C
- Input voltage : DC5~24V
- Controller size : L55.7×W16.6×H10.7mm
- 21 keys controller: Net weight : 35g, Gross weight : 40g
- 28 keys controller: Net weight : 40g, Gross weight : 45g
- RF frequency: 433.92Mhz
- Output current : Max:6A
- Single color: 1CH*6A, CCT: 2CH*3A, RGB: 3CH*2A, RGBW : 6A, RGB+CCT: 6A
- Output power: 5V<:30W 12V<:72W 24V<:144W
- Remote battery: 1 PCS*CR2025 aluminum cell

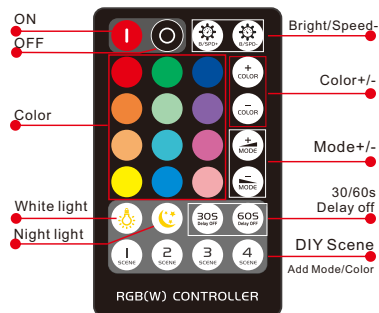
3. Products key diagram:



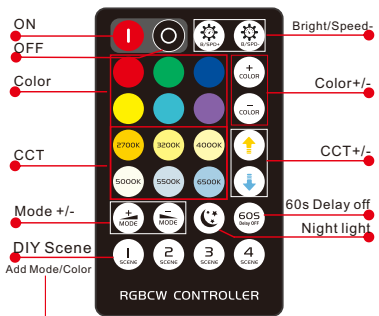
Remember to remove plastic tab.



Remember to remove plastic tab.



RGB(W)



RGB+CCT

Press the color or mode which you want, then long press the scene button, the lamp flash means scene setting successfully.

4. DIM/CCT/RGB/RGBW/RGB+CCT Mode sheet:

(1) Dimmer mode list(3):

Mode 1	Mode2	Mode3
Jump	Fade	Strobe

(2) CCT mode list(6):

No.	Dynamic modes
1	Warm white fade
2	Neutral white fade
3	Cool white fade
4	Warm white Jump
5	Neutral white Jump
6	Cool white Jump

(3) RGB Controller(5):

No.	Dynamic modes
1	3 colors jump
2	3 colors fade
3	7 colors jump
4	7 colors fade
5	Full colors fade

(4) RGBW Controller:

No.	Static colors	No.	Dynamic modes
1	W+Red	1	3 colors jump
2	W+Green	2	3 colors fade
3	W+Blue	3	7 colors jump
4	W+Yellow	4	7 colors fade
5	W+purple	5	Full colors fade
6	W+Cyan		

(5) RGB+CCT Controller:

Static colors (13) :

White(RGB mix), Warm white+Red, Warm white+Green, Warm white+Blue, Warm white+Yellow, Warm white+ Purple, Warm white+Cyan, Cold white+Red, Cold white + Green, Cold white+Blue, Cold white+Yellow, Cold white +Purple, Code white+Cyan.

Dynamic mode list (33):

No.	Dynamic Mode	No.	Dynamic Mode	No.	Dynamic Mode
1	Red fade	12	3 colors jump	23	Yellow fade +jump
2	Green fade	13	3 colors fade	24	Purple fade+jump
3	Blue fade	14	7 colors jump	25	Cyan fade + jump
4	Yellow fade	15	7 colors fade	26	White fade +jump
5	Purple fade	16	3 colors flash	27	Warm white fade
6	Cyan fade	17	7 colors flash	28	Warm white+Cold white fade
7	White fade	18	7 colors flash + blasting flash	29	Cool white fade
8	Red flash	19	Full colors fade	30	Warm white flash
9	Green flash	20	Red fade+jump	31	Warm white+Cold white flash
10	Blue flash	21	Green fade+jump	32	Cold white flash
11	White flash	22	Blue fade + jump	33	All modes loop

Note: Can not adjust the speed of mode named "7 colors flash + blasting flash" in RGB+CCT mode sheets.

(6) RGB 21 Keys remote

	1. Turn On
	2. Turn Off
	3. Auto mode
	4. Speed adjust +
	5. Speed adjust -
	6. Modes switch +
	7. Modes switch -
	8.Brightness adjust +
	9.Brightness adjust -



Auto mode : Automatically plays 19 dynamic modes in a loop.

Modes list

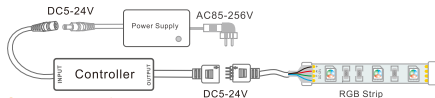
Static Color Mode: [Red], [Green], [Blue], [Purplish Red], [Light Green], [Light Blue], [Orange], [Purple], [Cyan], [yellow], [Lavender], [White]

Dynamic Mode:

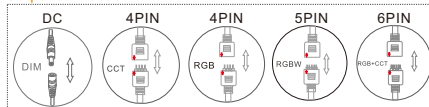
[Red fade], [Green fade], [Blue fade], [Yellow fade], [Purple fade], [Cyan fade], [White fade], [Red fade+jump], [Blue fade+Jump], [Green fade+Jump], [Red flash], [Green flash], [Blue flash], [3 colors jump], [7 colors Jump], [3 color flash], [Full color fade], [3 colors fade], [7 colors fade].

5.Connection description:

DIM/ CCT/ RGB/ RGBW/ RGB+CCT Controller



Output connection:



To Pairing New Remote:

A DIM/CCT receiver can be paired to 2 remotes. A RGB(W)/RGB+CCT receiver can be paired to 1 remote. Remotes can be paired to any receiver. If a receiver be paired to 3 remotes, the 3rd remote will cover the 1st. Follow steps below to pair a new remote:

1. Disconnect receiver from power, reconnect within 5 sec.
2. Press "on"button for 2 seconds and the receiver will recognize the new remote controller.

6. Attention:

1. Controller's input voltage is DC5-24V, never connect to others or AC220V, Pls do not overload, the total max output current is 6A;
2. Before using the infrared remote, the insulating film should be removed.
3. Please don't reverse the power input connection of both cathode and anode, please switch on again only when it is in right connection and no short circuit.

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.

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

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.

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